



**EUROPEAN CLIMATE, INFRASTRUCTURE AND ENVIRONMENT
EXECUTIVE AGENCY (CINEA)**

CINEA.B – Sustainable networks and investments
CINEA.B – Sustainable networks and investments

GRANT AGREEMENT

Project 101175465 — 23-EU-TG-GREEN CNS

PREAMBLE

This **Agreement** ('the Agreement') is **between** the following parties:

on the one part,

the **European Climate, Infrastructure and Environment Executive Agency (CINEA)** ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and

on the other part,

1. 'the coordinator':

EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL), PIC 999483733, established in Rue de la Fusée 96, BRUXELLES 1130, Belgium,

and the following other beneficiaries, if they sign their 'accession form' (see Annex 3 and Article 40):

2. **EUROPEAN REGION OF THE AIRPORTS COUNCIL INTERNATIONAL (ACI EUROPE)**, PIC 888337447, established in BOULEVARD DU REGENT 37-40, BRUXELLES 1000, Belgium,

3. **AIR FRANCE SA (AIR FRANCE)**, PIC 937590070, established in RUE DE PARIS 45, ROISSY CDG CEDEX 95747, France,

4. **HRVATSKA KONTROLA ZRACNE PLOVIDBE DOO (Croatia Control)**, PIC 924128216, established in RUDOLFA FIZIRA 2, VELIKA GORICA 10410, Croatia,

5. **DEUTSCHE LUFTHANSA AKTIENGESELLSCHAFT (Lufthansa)**, PIC 999965532, established in VENLOER STRASSE 151-153, KOLN 50672, Germany,

6. **DFS DEUTSCHE FLUGSICHERUNG GMBH (DFS)**, PIC 999936820, established in AM DFS CAMPUS 10, LANGEN 63225, Germany,

7. **DIRECTION DES SERVICES DE LA NAVIGATION AERIENNE (DSNA)**, PIC 928673636, established in 50 RUE HENRY FARMAN, PARIS 75720, France,

8. **EASYJET EUROPE AIRLINE GMBH (EEAG)**, PIC 888316786, established in WAGRAMER STRASSE 19 IZD TOWER 11 S, VIENNA 1220, Austria,
9. **ENAIRE (ENAIRE)**, PIC 997701843, established in AVENIDA DE ARAGON S/N BLOQUE 330, PORTAL 2 PARQUE EMPRESARIAL LAS MERCEDES, MADRID 28022, Spain,
10. **ENAV SPA (ENAV)**, PIC 998197513, established in VIA SALARIA 716, ROMA 00138, Italy,
11. **HUNGAROCONTROL MAGYAR LEGIFORGALMISZOLGALAT ZARTKORUEN MUKODO RESZVENYTARSASAG (HUNGAROCONTROL)**, PIC 941767472, established in IGLO UTCA 33 35, BUDAPEST 1185, Hungary,
12. **THE IRISH AIR NAVIGATION SERVICE (AIRNAV Ireland)**, PIC 881850281, established in THE TIMES BUILDING D'OLIER STREET, DUBLIN D02 T449, Ireland,
13. **LUFTFARTSVERKET (LFV)**, PIC 942346077, established in HOSPITALSGATAN 30, NORRKOPING 602 27, Sweden,
14. **NAVEGACAO AEREA DE PORTUGAL - NAV PORTUGAL EPE (NAV PORTUGAL)**, PIC 955596471, established in RUA D EDIFICIO 121 AEROPORTO DE, LISBOA 1700 008, Portugal,
15. **NAVIAIR (NAVIAIR)**, PIC 923671249, established in NAVIAIR ALLE 1, KASTRUP 2770, Denmark,
16. **POLSKA AGENCJA ZEGLUGI POWIETRZNEJ (PANSA)**, PIC 995562023, established in UL. WIEZOWA 8, WARSZAWA 02 147, Poland,
17. **ADMINISTRATIA ROMANA A SERVICIILOR DE TRAFIC AERIAN (ROMATSA)**, PIC 953538325, established in BLD ION IONESCU DE LA BRAD 10, BUCURESTI 013813, Romania,
18. **RYANAIR DESIGNATED ACTIVITY COMPANY (RYANAIR)**, PIC 913857177, established in RYANAIR DUBLIN OFFICE AIRSIDE BUSINESS PARK, SWORDS DUBLIN, Ireland,
19. **DARJAVNO PREDPRIYATIE RAKOVODSTVO NA VAZDUSHNOTO DVIJENIE TPP (BULATSA)**, PIC 958046400, established in BRUSSELS BOULEVARD 1, SOFIA 1540, Bulgaria,
20. **AUSTRO CONTROL OSTERREICHISCHE GESELLSCHAFT FUR ZIVILLUFTFAHRT MBH (Austro Control)**, PIC 998956635, established in SCHNIRCHGASSE 17, WIEN 1030, Austria,
21. **SWEDAVIA AB (SWED)**, PIC 984282281, established in SWEDAVIA, STOCKHOLM ARLANDA 190 45, Sweden,
22. **REAL AERO CLUB DE ESPANA (RACE)**, PIC 884253747, established in CARRETERA DE LA FORTUNA NO 14, MADRID 28054, Spain,
23. **AKCINE BENDROVE ORO NAVIGACIJA (ORO NAVIGACIJA)**, PIC 919915991, established in BALIO KARVELIO G. 25, VILNIUS LT-02184, Lithuania,
24. **KONINKLIJKE LUCHTVAART MAATSCHAPPIJNV (KLM)**, PIC 997594658, established in AMSTERDAMSEWEG 55, AMSTELVEEN 1182 GP, Netherlands,

25. **AERO CLUB DE RENNES - ILLE ET VILAINE (ACRIV)**, PIC 880313801, established in 9 AVENUE DE L'AEROPORT JOSEPH LE BRIX, SAINT JACQUES DE LA LANDE 35136, France,

26. **UKRAINIAN STATE AIR TRAFFIC SERVICES ENTERPRISE (UKSATSE)**, PIC 884862131, established in AIRPORT BORYSPIL KYIV REGION, BORYSPIL 08300, Ukraine,

27. **TRANSPORTES AEREOS PORTUGUESES SA (TAP)**, PIC 970170333, established in EDIFICIO 25 DO AEROPORTO DE LISBOA, LISBOA 1700-008, Portugal,

Unless otherwise specified, references to 'beneficiary' or 'beneficiaries' include the coordinator and affiliated entities (if any).

If only one beneficiary signs the grant agreement ('mono-beneficiary grant'), all provisions referring to the 'coordinator' or the 'beneficiaries' will be considered — mutatis mutandis — as referring to the beneficiary.

The parties referred to above have agreed to enter into the Agreement.

By signing the Agreement and the accession forms, the beneficiaries accept the grant and agree to implement the action under their own responsibility and in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

The Agreement is composed of:

Preamble

Terms and Conditions (including Data Sheet)

Annex 1 Description of the action¹

Annex 2 Estimated budget for the action

Annex 2a Additional information on unit costs and contributions (if applicable)

Annex 3 Accession forms (if applicable)²

Annex 3a Declaration on joint and several liability of affiliated entities (if applicable)³

Annex 4 Model for the financial statements

Annex 5 Specific rules (if applicable)

¹ Template published on [Portal Reference Documents](#).

² Template published on [Portal Reference Documents](#).

³ Template published on [Portal Reference Documents](#).

TERMS AND CONDITIONS

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DATA SHEET

1. General data

Project summary:

Project summary
<p>The GREEN CNS project supports the modernisation and optimisation of the pan-European Communication, Navigation and Surveillance (CNS) infrastructure, by engaging 30 stakeholders. GREEN CNS will actively contribute to the wider framework of the CNS evolution in Europe and consequently improve the overall efficiency of Air Traffic Management (ATM) operations throughout the European airspace. The project aligns closely with the objectives of the TEN-T framework by “promoting an efficient use” of the EU aviation infrastructure and supporting the “operation of sustainable and efficient transport services”. The project focused on the three main pillars (Communications, Navigation and Surveillance - CNS) contributing to create a safer, more effective, resilient, secure, cost-efficient, and especially environmentally sustainable ATM industry in Europe. Each work package, in close coordination with the other ones, will provide valuable contribution and benefits to the overall European CNS infrastructure in terms of efficiency, resilience, safety and environmental sustainability. Additionally, these work packages will generate expertise and best practices supporting the overall decarbonisation objectives of the EU. Moreover, the expected results of these work packages, each of them focused on one specific CNS area, will generate significant benefits opening the door to the rationalisation, replacement and decommissioning of energy-intensive legacy infrastructure, leading to additional energy savings and contributing to the reduction of the overall carbon footprint of ATM operations. In full alignment with the priorities of the SIMOBGEN Call text, the project addresses three domains: - COM domain: the 2023_100_COM WP is set to improve the way the existing communication infrastructure is used by operational stakeholders and to address the existing operational issues and limitations of datalink services. - SUR domain: the 2023_200_SUR_EUR and OMR WPs are set to accelerate deployment of ADS-B surveillance systems and sensors across Europe (i.e. across Lithuania, Portugal (Azores) and Spain (including the Canary Islands), whilst also supporting the upgrade of 69 general aviation aircraft with ADS-B avionics. - NAV domain: the 2023_300_NAV WP will set an important milestone to accelerate the adoption of Performance Based Navigation through the implementation of SIDs and STAR routes in 15 TMAs (Terminal Manoeuvring Areas) in Europe (accommodating around 550.000 flights per year), whilst also supporting SBAS equipage of six of the largest EU airlines with new-generation avionics. Moreover, these WPs directly engage and support the ANSP (Air Navigation Service Provider) of Ukraine, to further anchor and integrate Ukraine within the Trans-European network by modernising its navigation and surveillance infrastructure. When combined, the WPs of this project will support the modernisation and optimisation of CNS infrastructure on the European continent; they contribute to making ATM operations in Europe more efficient, accomplish the decommissioning of surplus terrestrial infrastructure and support the transition of the European Aviation industry towards greener, safer, more integrated, and more efficient operations in the short-term.</p>

Keywords:

- ATM, CNS, Communications, Navigation, Surveillance, PBN, DLS, ADS-B, other ATM projects

Project number: 101175465

Project name: inteGrated modeRnisation of the EuropEan Network for CNS

Project acronym: 23-EU-TG-GREEN CNS

Call: CEF-T-2023-SIMOBGEN

Topic: CEF-T-2023-SIMOBGEN-SESAR-OP-WORKS

Type of action: CEF Infrastructure Projects

Granting authority: European Climate, Infrastructure and Environment Executive Agency

Grant managed through EU Funding & Tenders Portal: Yes (eGrants)

Project starting date: fixed date: 1 February 2024

Project end date: 31 December 2028

Project duration: 59 months

Consortium agreement: Yes

2. Participants

List of participants:

N°	Role	Short name	Legal name	Ctry	PIC	Total eligible costs (BEN and AE)	Max grant amount
1	COO (IO)	EUROCONTROL	EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION	BE	999483733	2 228 622.00	1 114 311.00
2	BEN	ACI EUROPE	EUROPEAN REGION OF THE AIRPORTS COUNCIL INTERNATIONAL	BE	888337447	733 920.00	366 960.00
3	BEN	AIR FRANCE	AIR FRANCE SA	FR	937590070	5 643 180.00	2 821 590.00
3.1	AE	Transavia	TRANSVIA FRANCE SAS	FR	990013914	6 302 000.00	3 151 000.00
3.2	AE	HOP	HOP!	FR	910702446	2 902 000.00	1 451 000.00
4	BEN	Croatia Control	HRVATSKA KONTROLA ZRACNE PLOVIDBE DOO	HR	924128216	32 799.00	16 399.50
5	BEN	Lufthansa	DEUTSCHE LUFTHANSA AKTIENGESELLSCHAFT	DE	999965532	2 708 859.00	1 354 429.50
6	BEN	DFS	DFS DEUTSCHE FLUGSICHERUNG GMBH	DE	999936820	262 389.00	131 194.50
7	BEN	DSNA	DIRECTION DES SERVICES DE LA NAVIGATION AERIENNE	FR	928673636	131 195.00	65 597.50
8	BEN	EEAG	EASYJET EUROPE AIRLINE GMBH	AT	888316786	3 926 480.00	1 963 240.00
9	BEN	ENAIRES	ENAIRES	ES	997701843	34 783 553.00	17 905 276.50
10	BEN	ENAV	ENAV SPA	IT	998197513	393 584.00	196 792.00
11	BEN	HUNGAROCONTROL	HUNGAROCONTROL MAGYAR LEGIFORGALMISZOLGALAT ZARTKORUEN MUKODO RESZVENYTARSASAG	HU	941767472	131 195.00	65 597.50
12	BEN	AIRNAV Ireland	THE IRISH AIR NAVIGATION SERVICE	IE	881850281	32 799.00	16 399.50
13	BEN	LFV	LUFTFARTSVERKET	SE	942346077	91 799.00	45 899.50
14	BEN	NAV PORTUGAL	NAVEGACAO AEREA DE PORTUGAL - NAV PORTUGAL EPE	PT	955596471	1 782 799.00	1 241 399.50
15	BEN	NAVIAIR	NAVIAIR	DK	923671249	32 799.00	16 399.50
16	BEN	PANSA	POLSKA AGENCJA ZEGLUGI POWIETRZNEJ	PL	995562023	131 195.00	65 597.50
17	BEN	ROMATSA	ADMINISTRATIA ROMANA A SERVICIILOR DE TRAFIC AERIAN	RO	953538325	131 195.00	65 597.50
18	BEN	RYANAIR	RYANAIR DESIGNATED ACTIVITY COMPANY	IE	913857177	5 436 980.00	2 718 490.00
19	BEN	BULATSA	DARJAVNO PREDPRIJATIE RAKOVODSTVO NA VAZDUSHNOTO DVIJENIE TPP	BG	958046400	131 195.00	65 597.50
20	BEN	Austro Control	AUSTRO CONTROL OSTERREICHISCHE GESELLSCHAFT FUR ZIVILLUFTFAHRT MBH	AT	998956635	32 799.00	16 399.50
21	BEN	SWED	SWEDAVIA AB	SE	984282281	380 560.00	190 280.00
22	BEN	RACE	REAL AERO CLUB DE ESPANA	ES	884253747	708 500.00	354 250.00
23	BEN	ORO NAVIGACIJA	AKCINE BENDROVE ORO NAVIGACIJA	LT	919915991	6 122 000.00	3 061 000.00
24	BEN	KLM	KONINKLIJKE LUCHTVAART MAATSCHAPPIJNV	NL	997594658	24 253 040.00	12 126 520.00
25	BEN	ACRIV	AERO CLUB DE RENNES - ILLE ET VILAINE	FR	880313801	20 842.00	10 421.00
26	BEN	UKSATSE	UKRAINIAN STATE AIR TRAFFIC SERVICES ENTERPRISE	UA	884862131	4 237 100.00	2 118 550.00
27	BEN	TAP	TRANSPORTES AEREOS PORTUGUESES SA	PT	970170333	2 606 790.00	1 303 395.00
28	AP	SKYGUIDE	SKYGUIDE, SA SUISSE POUR LES SERVICES DE LA NAVIGATION AERIENNE CIVILS ET MILITAIRES	CH	958184334	0.00	0.00
Total						106 312 168.00	54 019 584.00

Coordinator:

- EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL)

3. Grant

Maximum grant amount, total estimated eligible costs and contributions and funding rate:

Total eligible costs (BEN and AE)	Funding rate (%)	Maximum grant amount (Annex 2)	Maximum grant amount (award decision)
106 312 168.00	50, 70, 50	54 019 584.00	54 019 584.00

Grant form: Budget-based**Grant mode:** Action grant**Budget categories/activity types:**

- A. Personnel costs
 - A.1 Employees, A.2 Natural persons under direct contract, A.3 Seconded persons
 - A.4 SME owners and natural person beneficiaries
- B. Subcontracting costs
- C. Purchase costs
 - C.1 Travel and subsistence
 - C.2 Equipment
 - C.3 Other goods, works and services
- D. Other cost categories
 - D.1 Financial support to third parties
 - D.2 Studies
 - D.3 Synergetic elements
 - D.4 Works in outermost regions
 - D.5 Land purchase
- E. Indirect costs

Cost eligibility options:

- Standard supplementary payments
- Average personnel costs (unit cost according to usual cost accounting practices)
- Country restrictions for subcontracting costs
- Travel and subsistence:
 - Travel: Actual costs
 - Accommodation: Actual costs
 - Subsistence: Actual costs
- Equipment: full costs only
- Costs for providing financial support to third parties (actual cost; max amount for each recipient: EUR 60 000.00)
- Indirect cost flat-rate: 0% of the eligible direct costs (categories A-D, except volunteers costs and exempted specific cost categories, if any)
- VAT: No
- Country restrictions for eligible costs
- Other ineligible costs

Budget flexibility: Yes (no flexibility cap)

4. Reporting, payments and recoveries

4.1 Continuous reporting (art 21)

Deliverables: see Funding & Tenders Portal Continuous Reporting tool

4.2 Periodic reporting and payments

Reporting and payment schedule (art 21, 22):

Reporting					Payments	
Reporting periods			Type	Deadline	Type	Deadline (time to pay)
RP No	Month from	Month to				
					Initial prefinancing	30 days from entry into force/ financial guarantee (if required) – whichever is the latest
1	1	24	Periodic report	60 days after end of reporting period	Interim payment	90 days from receiving periodic report
2	25	48	Periodic report	60 days after end of reporting period	Interim payment	90 days from receiving periodic report
3	49	59	Periodic report	60 days after end of reporting period	Final payment	90 days from receiving periodic report

Prefinancing payments and guarantees:

Prefinancing payment		Prefinancing guarantee		
Type	Amount	Guarantee amount	Division per participant	
Prefinancing 1 (initial)	13 504 896.00	n/a	1 - EUROCONTROL	n/a
			2 - ACI EUROPE	n/a
			3 - AIR FRANCE	n/a
			3.1 - Transavia	n/a
			3.2 - HOP	n/a
			4 - Croatia Control	n/a
			5 - Lufthansa	n/a
			6 - DFS	n/a
			7 - DSN	n/a
			8 - EEAG	n/a
			9 - ENAIRE	n/a
			10 - ENAV	n/a
			11 - HUNGAROCNTROL	n/a
			12 - AIRNAV Ireland	n/a
			13 - LFV	n/a
			14 - NAV PORTUGAL	n/a
15 - NAVIAIR	n/a			
16 - PANSA	n/a			

Prefinancing payment		Prefinancing guarantee	
Type	Amount	Guarantee amount	Division per participant
			17 - ROMATSA
			18 - RYANAIR
			19 - BULATSA
			20 - Austro Control
			21 - SWED
			22 - RACE
			23 - ORO NAVIGACIJA
			24 - KLM
			25 - ACRIV
			26 - UKSATSE
			27 - TAP

Reporting and payment modalities (art 21, 22):

Mutual Insurance Mechanism (MIM): No

Restrictions on distribution of initial prefinancing: The prefinancing may be distributed only if the minimum number of beneficiaries set out in the call conditions (if any) have acceded to the Agreement and only to beneficiaries that have acceded.

Interim payment ceiling (if any): 90% of the maximum grant amount

No-profit rule: Yes

Late payment interest: ECB + 3.5%

Bank account for payments:

BE36310109735681

Conversion into euros: Double conversion

Reporting language: Language of the Agreement

4.3 Certificates (art 24):

Certificates on the financial statements (CFS):

Conditions:

Schedule: interim/final payment, if threshold is reached

Standard threshold (beneficiary-level):

- financial statement: requested EU contribution to costs \geq EUR 325 000.00

4.4 Recoveries (art 22)**First-line liability for recoveries:**

Beneficiary termination: Beneficiary concerned

Final payment: Coordinator

After final payment: Beneficiary concerned

Joint and several liability for enforced recoveries (in case of non-payment):

Limited joint and several liability of other beneficiaries — up to the maximum grant amount of the beneficiary

Joint and several liability of affiliated entities — n/a

5. Consequences of non-compliance, applicable law & dispute settlement forum

Suspension and termination:

Additional suspension grounds (art 31)

Additional termination grounds (art 32)

Applicable law (art 43):

Standard applicable law regime: EU law + law of Belgium

Special applicable law regime:

- EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL): law of Belgium + general principles governing the law of international organisations and the general rules of international law

Dispute settlement forum (art 43):

Standard dispute settlement forum:

EU beneficiaries: EU General Court + EU Court of Justice (on appeal)

Non-EU beneficiaries: Courts of Brussels, Belgium (unless an international agreement provides for the enforceability of EU court judgements)

Special dispute settlement forum:

- EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL): Arbitration

6. Other

Specific rules (Annex 5): Yes

Standard time-limits after project end:

Confidentiality (for X years after final payment): 5

Record-keeping (for X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Reviews (up to X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Audits (up to X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Extension of findings from other grants to this grant (no later than X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Impact evaluation (up to X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

CHAPTER 1 GENERAL

ARTICLE 1 — SUBJECT OF THE AGREEMENT

This Agreement sets out the rights and obligations and terms and conditions applicable to the grant awarded for the implementation of the action set out in Chapter 2.

ARTICLE 2 — DEFINITIONS

For the purpose of this Agreement, the following definitions apply:

Actions — The project which is being funded in the context of this Agreement.

Grant — The grant awarded in the context of this Agreement.

EU grants — Grants awarded by EU institutions, bodies, offices or agencies (including EU executive agencies, EU regulatory agencies, EDA, joint undertakings, etc.).

Participants — Entities participating in the action as beneficiaries, affiliated entities, associated partners, third parties giving in-kind contributions, subcontractors or recipients of financial support to third parties.

Beneficiaries (BEN) — The signatories of this Agreement (either directly or through an accession form).

Affiliated entities (AE) — Entities affiliated to a beneficiary within the meaning of Article 187 of EU Financial Regulation 2018/1046⁴ which participate in the action with similar rights and obligations as the beneficiaries (obligation to implement action tasks and right to charge costs and claim contributions).

Associated partners (AP) — Entities which participate in the action, but without the right to charge costs or claim contributions.

Purchases — Contracts for goods, works or services needed to carry out the action (e.g. equipment, consumables and supplies) but which are not part of the action tasks (see Annex 1).

Subcontracting — Contracts for goods, works or services that are part of the action tasks (see Annex 1).

In-kind contributions — In-kind contributions within the meaning of Article 2(36) of EU Financial

⁴ For the definition, see Article 187 Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union, amending Regulations (EU) No 1296/2013, (EU) No 1301/2013, (EU) No 1303/2013, (EU) No 1304/2013, (EU) No 1309/2013, (EU) No 1316/2013, (EU) No 223/2014, (EU) No 283/2014, and Decision No 541/2014/EU and repealing Regulation (EU, Euratom) No 966/2012 ('EU Financial Regulation') (OJ L 193, 30.7.2018, p. 1): "**affiliated entities** [are]:

- (a) entities that form a sole beneficiary [(i.e. where an entity is formed of several entities that satisfy the criteria for being awarded a grant, including where the entity is specifically established for the purpose of implementing an action to be financed by a grant)];
- (b) entities that satisfy the eligibility criteria and that do not fall within one of the situations referred to in Article 136(1) and 141(1) and that have a link with the beneficiary, in particular a legal or capital link, which is neither limited to the action nor established for the sole purpose of its implementation".

Regulation 2018/1046, i.e. non-financial resources made available free of charge by third parties.

Fraud — Fraud within the meaning of Article 3 of EU Directive 2017/1371⁵ and Article 1 of the Convention on the protection of the European Communities' financial interests, drawn up by the Council Act of 26 July 1995⁶, as well as any other wrongful or criminal deception intended to result in financial or personal gain.

Irregularities — Any type of breach (regulatory or contractual) which could impact the EU financial interests, including irregularities within the meaning of Article 1(2) of EU Regulation 2988/95⁷.

Grave professional misconduct — Any type of unacceptable or improper behaviour in exercising one's profession, especially by employees, including grave professional misconduct within the meaning of Article 136(1)(c) of EU Financial Regulation 2018/1046.

Applicable EU, international and national law — Any legal acts or other (binding or non-binding) rules and guidance in the area concerned.

Portal — EU Funding & Tenders Portal; electronic portal and exchange system managed by the European Commission and used by itself and other EU institutions, bodies, offices or agencies for the management of their funding programmes (grants, procurements, prizes, etc.).

CHAPTER 2 ACTION

ARTICLE 3 — ACTION

The grant is awarded for the action **101175465 — 23-EU-TG-GREEN CNS** ('action'), as described in Annex 1.

ARTICLE 4 — DURATION AND STARTING DATE

The duration and the starting date of the action are set out in the Data Sheet (see Point 1).

CHAPTER 3 GRANT

ARTICLE 5 — GRANT

5.1 Form of grant

⁵ Directive (EU) 2017/1371 of the European Parliament and of the Council of 5 July 2017 on the fight against fraud to the Union's financial interests by means of criminal law (OJ L 198, 28.7.2017, p. 29).

⁶ OJ C 316, 27.11.1995, p. 48.

⁷ Council Regulation (EC, Euratom) No 2988/95 of 18 December 1995 on the protection of the European Communities financial interests (OJ L 312, 23.12.1995, p. 1).

The grant is an action grant⁸ which takes the form of a budget-based mixed actual cost grant (i.e. a grant based on actual costs incurred, but which may also include other forms of funding, such as unit costs or contributions, flat-rate costs or contributions, lump sum costs or contributions or financing not linked to costs).

5.2 Maximum grant amount

The maximum grant amount is set out in the Data Sheet (see Point 3) and in the estimated budget (Annex 2).

5.3 Funding rate

The funding rate for costs is 50% of the eligible costs for studies (if any), 70% of the eligible costs for works in outermost regions (if any) and 50% of the eligible costs for the other cost categories.

Contributions are not subject to any funding rate.

5.4 Estimated budget, budget categories and forms of funding

The estimated budget for the action is set out in Annex 2.

It contains the estimated eligible costs and contributions for the action, broken down by participant and budget category.

Annex 2 also shows the types of costs and contributions (forms of funding)⁹ to be used for each budget category.

If unit costs or contributions are used, the details on the calculation will be explained in Annex 2a.

5.5 Budget flexibility

The budget breakdown may be adjusted — without an amendment (see Article 39) — by transfers (between participants and budget categories), as long as this does not imply any substantive or important change to the description of the action in Annex 1.

However:

- changes to the budget category for volunteers (if used) always require an amendment
- changes to budget categories with lump sums costs or contributions (if used; including financing not linked to costs) always require an amendment
- changes to budget categories with higher funding rates or budget ceilings (if used) always require an amendment
- addition of amounts for subcontracts not provided for in Annex 1 either require an amendment or simplified approval in accordance with Article 6.2

⁸ For the definition, see Article 180(2)(a) EU Financial Regulation 2018/1046: ‘**action grant**’ means an EU grant to finance “an action intended to help achieve a Union policy objective”.

⁹ See Article 125 EU Financial Regulation 2018/1046.

- other changes require an amendment or simplified approval, if specifically provided for in Article 6.2
- flexibility caps: not applicable.

ARTICLE 6 — ELIGIBLE AND INELIGIBLE COSTS AND CONTRIBUTIONS

In order to be eligible, costs and contributions must meet the **eligibility** conditions set out in this Article.

6.1 General eligibility conditions

The **general eligibility conditions** are the following:

- (a) for actual costs:
 - (i) they must be actually incurred by the beneficiary
 - (ii) they must be incurred in the period set out in Article 4 (with the exception of costs relating to the submission of the final periodic report, which may be incurred afterwards; see Article 21)
 - (iii) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
 - (iv) they must be incurred in connection with the action as described in Annex 1 and necessary for its implementation
 - (v) they must be identifiable and verifiable, in particular recorded in the beneficiary's accounts in accordance with the accounting standards applicable in the country where the beneficiary is established and with the beneficiary's usual cost accounting practices
 - (vi) they must comply with the applicable national law on taxes, labour and social security and
 - (vii) they must be reasonable, justified and must comply with the principle of sound financial management, in particular regarding economy and efficiency
- (b) for unit costs or contributions (if any):
 - (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
 - (ii) the units must:
 - be actually used or produced by the beneficiary in the period set out in Article 4 (with the exception of units relating to the submission of the final periodic report, which may be used or produced afterwards; see Article 21)
 - be necessary for the implementation of the action and
 - (iii) the number of units must be identifiable and verifiable, in particular supported by records and documentation (see Article 20)

- (c) for flat-rate costs or contributions (if any):
- (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
 - (ii) the costs or contributions to which the flat-rate is applied must:
 - be eligible
 - relate to the period set out in Article 4 (with the exception of costs or contributions relating to the submission of the final periodic report, which may be incurred afterwards; see Article 21)
- (d) for lump sum costs or contributions (if any):
- (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
 - (ii) the work must be properly implemented by the beneficiary in accordance with Annex 1
 - (iii) the deliverables/outputs must be achieved in the period set out in Article 4 (with the exception of deliverables/outputs relating to the submission of the final periodic report, which may be achieved afterwards; see Article 21)
- (e) for unit, flat-rate or lump sum costs or contributions according to usual cost accounting practices (if any):
- (i) they must fulfil the general eligibility conditions for the type of cost concerned
 - (ii) the cost accounting practices must be applied in a consistent manner, based on objective criteria, regardless of the source of funding
- (f) for financing not linked to costs (if any): the results must be achieved or the conditions must be fulfilled as described in Annex 1.

In addition, for direct cost categories (e.g. personnel, travel & subsistence, subcontracting and other direct costs) only costs that are directly linked to the action implementation and can therefore be attributed to it directly are eligible. They must not include any indirect costs (i.e. costs that are only indirectly linked to the action, e.g. via cost drivers).

6.2 Specific eligibility conditions for each budget category

For each budget category, the **specific eligibility conditions** are as follows:

Direct costs

A. Personnel costs

A.1 Costs for employees (or equivalent) are eligible as personnel costs if they fulfil the general eligibility conditions and are related to personnel working for the beneficiary under an employment contract (or equivalent appointing act) and assigned to the action.

They must be limited to salaries, social security contributions, taxes and other costs linked to the

remuneration, if they arise from national law or the employment contract (or equivalent appointing act) and be calculated on the basis of the costs actually incurred, in accordance with the following method:

{daily rate for the person
multiplied by
number of day-equivalents worked on the action (rounded up or down to the nearest half-day)}.

The daily rate must be calculated as:

{annual personnel costs for the person
divided by
215}.

The number of day-equivalents declared for a person must be identifiable and verifiable (see Article 20).

The total number of day-equivalents declared in EU grants, for a person for a year, cannot be higher than 215.

The personnel costs may also include supplementary payments for personnel assigned to the action (including payments on the basis of supplementary contracts regardless of their nature), if:

- it is part of the beneficiary's usual remuneration practices and is paid in a consistent manner whenever the same kind of work or expertise is required
- the criteria used to calculate the supplementary payments are objective and generally applied by the beneficiary, regardless of the source of funding used.

If the beneficiary uses average personnel costs (unit cost according to usual cost accounting practices), the personnel costs must fulfil the general eligibility conditions for such unit costs and the daily rate must be calculated:

- using the actual personnel costs recorded in the beneficiary's accounts and excluding any costs which are ineligible or already included in other budget categories; the actual personnel costs may be adjusted on the basis of budgeted or estimated elements, if they are relevant for calculating the personnel costs, reasonable and correspond to objective and verifiable information

and

- according to usual cost accounting practices which are applied in a consistent manner, based on objective criteria, regardless of the source of funding.

A.2 and A.3 Costs for natural persons working under a direct contract other than an employment contract and costs for **seconded persons by a third party against payment** are also eligible as personnel costs, if they are assigned to the action, fulfil the general eligibility conditions and:

- (a) work under conditions similar to those of an employee (in particular regarding the way the work is organised, the tasks that are performed and the premises where they are performed) and

(b) the result of the work belongs to the beneficiary (unless agreed otherwise).

They must be calculated on the basis of a rate which corresponds to the costs actually incurred for the direct contract or secondment and must not be significantly different from those for personnel performing similar tasks under an employment contract with the beneficiary.

A.4 The work of **SME owners** for the action (i.e. owners of beneficiaries that are small and medium-sized enterprises¹⁰ not receiving a salary) or **natural person beneficiaries** (i.e. beneficiaries that are natural persons not receiving a salary) may be declared as personnel costs, if they fulfil the general eligibility conditions and are calculated as unit costs in accordance with the method set out in Annex 2a.

B. Subcontracting costs

Subcontracting costs for the action (including related duties, taxes and charges) are eligible, if they are calculated on the basis of the costs actually incurred, fulfil the general eligibility conditions and are awarded using the beneficiary's usual purchasing practices — provided these ensure subcontracts with best value for money (or if appropriate the lowest price) and that there is no conflict of interests (see Article 12).

Beneficiaries that are 'contracting authorities/entities' within the meaning of the EU Directives on public procurement must also comply with the applicable national law on public procurement.

The beneficiaries must ensure that the subcontracted work is performed in the eligible countries or target countries set out in the call conditions — unless otherwise approved by the granting authority.

The tasks to be subcontracted and the estimated cost for each subcontract must be set out in Annex 1 and the total estimated costs of subcontracting per beneficiary must be set out in Annex 2 (or may be approved ex post in the periodic report, if the use of subcontracting does not entail changes to the Agreement which would call into question the decision awarding the grant or breach the principle of equal treatment of applicants; 'simplified approval procedure').

C. Purchase costs

Purchase costs for the action (including related duties, taxes and charges) are eligible if they fulfil the general eligibility conditions and are bought using the beneficiary's usual purchasing practices — provided these ensure purchases with best value for money (or if appropriate the lowest price) and that there is no conflict of interests (see Article 12).

Beneficiaries that are 'contracting authorities/entities' within the meaning of the EU Directives on public procurement must also comply with the applicable national law on public procurement.

¹⁰ For the definition, see Commission Recommendation 2003/361/EC: micro, small or medium-sized enterprise (SME) are enterprises

- engaged in an economic activity, irrespective of their legal form (including, in particular, self-employed persons and family businesses engaged in craft or other activities, and partnerships or associations regularly engaged in an economic activity) and
- employing fewer than 250 persons (expressed in 'annual working units' as defined in Article 5 of the Recommendation) and which have an annual turnover not exceeding EUR 50 million, and/or an annual balance sheet total not exceeding EUR 43 million.

C.1 Travel and subsistence

Purchases for **travel, accommodation and subsistence** must be calculated as follows:

- travel: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel
- accommodation: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel
- subsistence: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel .

C.2 Equipment

Purchases of **equipment, infrastructure or other assets** specifically for the action (or developed as part of the action tasks) may be declared as full capitalised costs if they fulfil the cost eligibility conditions applicable to their respective cost categories.

'Capitalised costs' means:

- costs incurred in the purchase or for the development of the equipment, infrastructure or other assets and
- which are recorded under a fixed asset account of the beneficiary in compliance with international accounting standards and the beneficiary's usual cost accounting practices.

If such equipment, infrastructure or other assets are rented or leased, full costs for **renting or leasing** are eligible, if they do not exceed the depreciation costs of similar equipment, infrastructure or assets and do not include any financing fees.

C.3 Other goods, works and services

Purchases of **other goods, works and services** must be calculated on the basis of the costs actually incurred.

Such goods, works and services include, for instance, consumables and supplies, promotion, dissemination, protection of results, translations, publications, certificates and financial guarantees, if required under the Agreement.

D. Other cost categories

D.1 Financial support to third parties

Costs for providing financial support to third parties (in the form of **grants, prizes** or similar forms of support; if any) are eligible, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions, are calculated on the basis of the costs actually incurred and the support is implemented in accordance with the conditions set out in Annex 1.

These conditions must ensure objective and transparent selection procedures and include at least the following:

- (a) for grants (or similar):

- (i) the maximum amount of financial support for each third party ('recipient'); this amount may not exceed the amount set out in the Data Sheet (see Point 3) or otherwise agreed with the granting authority
 - (ii) the criteria for calculating the exact amount of the financial support
 - (iii) the different types of activity that qualify for financial support, on the basis of a closed list
 - (iv) the persons or categories of persons that will be supported and
 - (v) the criteria and procedures for giving financial support
- (b) for prizes (or similar):
- (i) the eligibility and award criteria
 - (ii) the amount of the prize and
 - (iii) the payment arrangements.

D.2 Studies

Costs for studies are eligible, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions, are calculated on the basis of the costs actually incurred and comply with the conditions set out in Points A-C for the underlying types of costs (personnel, subcontracting, purchase).

D.3 Synergetic elements

Costs for synergetic elements related to another sector of the CEF Programme (transport, energy or digital) are eligible, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions, are calculated on the basis of the costs actually incurred and allow to significantly improve the socio-economic, climate or environmental benefits of the action.

Such costs are eligible only up to 20% of the beneficiaries' total eligible costs.

D.4 Works in outermost regions

Costs for works in outermost regions are eligible, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions, are calculated on the basis of the costs actually incurred, comply with the conditions set out in Points A-C for the underlying types of costs (personnel, subcontracting, purchase) and relate to works that are carried out in an outermost region within the meaning of Article 349 of the Treaty on the Functioning of the EU (TFEU)).

D.5 Land purchase

Costs for land purchase are eligible, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions and are calculated on the basis of the costs actually incurred.

Such costs are eligible only up to 10% of the beneficiaries' total eligible costs.

Indirect costs

E. Indirect costs

Indirect costs will be reimbursed at the flat-rate of 0% of the eligible direct costs (categories A-D, except volunteers costs and exempted specific cost categories, if any).

Contributions

Not applicable

6.3 Ineligible costs and contributions

The following costs or contributions are **ineligible**:

- (a) costs or contributions that do not comply with the conditions set out above (Article 6.1 and 6.2), in particular:
 - (i) costs related to return on capital and dividends paid by a beneficiary
 - (ii) debt and debt service charges
 - (iii) provisions for future losses or debts
 - (iv) interest owed
 - (v) currency exchange losses
 - (vi) bank costs charged by the beneficiary's bank for transfers from the granting authority
 - (vii) excessive or reckless expenditure
 - (viii) VAT (always ineligible)
 - (ix) costs incurred or contributions for activities implemented during grant agreement suspension (see Article 31)
 - (x) in-kind contributions by third parties
- (b) costs or contributions declared under other EU grants (or grants awarded by an EU Member State, non-EU country or other body implementing the EU budget), except for the following cases:
 - (i) Synergy actions: not applicable
 - (ii) if the action grant is combined with an operating grant¹¹ running during the same period and the beneficiary can demonstrate that the operating grant does not cover any (direct or indirect) costs of the action grant
- (c) costs or contributions for staff of a national (or regional/local) administration, for activities that are part of the administration's normal activities (i.e. not undertaken only because of the grant)

¹¹ For the definition, see Article 180(2)(b) of EU Financial Regulation 2018/1046: '**operating grant**' means an EU grant to finance "the functioning of a body which has an objective forming part of and supporting an EU policy".

- (d) costs or contributions (especially travel and subsistence) for staff or representatives of EU institutions, bodies or agencies
- (e) other :
 - (i) costs or contributions for activities that do not take place in one of the eligible countries or target countries set out in the call conditions — unless approved by the granting authority
 - (ii) costs or contributions declared specifically ineligible in the call conditions.

6.4 Consequences of non-compliance

If a beneficiary declares costs or contributions that are ineligible, they will be rejected (see Article 27).

This may also lead to other measures described in Chapter 5.

CHAPTER 4 GRANT IMPLEMENTATION

SECTION 1 CONSORTIUM: BENEFICIARIES, AFFILIATED ENTITIES AND OTHER PARTICIPANTS

ARTICLE 7 — BENEFICIARIES

The beneficiaries, as signatories of the Agreement, are fully responsible towards the granting authority for implementing it and for complying with all its obligations.

They must implement the Agreement to their best abilities, in good faith and in accordance with all the obligations and terms and conditions it sets out.

They must have the appropriate resources to implement the action and implement the action under their own responsibility and in accordance with Article 11. If they rely on affiliated entities or other participants (see Articles 8 and 9), they retain sole responsibility towards the granting authority and the other beneficiaries.

They are jointly responsible for the *technical* implementation of the action. If one of the beneficiaries fails to implement their part of the action, the other beneficiaries must ensure that this part is implemented by someone else (without being entitled to an increase of the maximum grant amount and subject to an amendment; see Article 39). The *financial* responsibility of each beneficiary in case of recoveries is governed by Article 22.

The beneficiaries (and their action) must remain eligible under the EU programme funding the grant for the entire duration of the action. Costs and contributions will be eligible only as long as the beneficiary and the action are eligible.

The **internal roles and responsibilities** of the beneficiaries are divided as follows:

- (a) Each beneficiary must:
 - (i) keep information stored in the Portal Participant Register up to date (see Article 19)

- (ii) inform the granting authority (and the other beneficiaries) immediately of any events or circumstances likely to affect significantly or delay the implementation of the action (see Article 19)
 - (iii) submit to the coordinator in good time:
 - the prefinancing guarantees (if required; see Article 23)
 - the financial statements and certificates on the financial statements (CFS) (if required; see Articles 21 and 24.2 and Data Sheet, Point 4.3)
 - the contribution to the deliverables and technical reports (see Article 21)
 - any other documents or information required by the granting authority under the Agreement
 - (iv) submit via the Portal data and information related to the participation of their affiliated entities.
- (b) The coordinator must:
- (i) monitor that the action is implemented properly (see Article 11)
 - (ii) act as the intermediary for all communications between the consortium and the granting authority, unless the Agreement or granting authority specifies otherwise, and in particular:
 - submit the prefinancing guarantees to the granting authority (if any)
 - request and review any documents or information required and verify their quality and completeness before passing them on to the granting authority
 - submit the deliverables and reports to the granting authority
 - inform the granting authority about the payments made to the other beneficiaries (report on the distribution of payments; if required, see Articles 22 and 32)
 - (iii) distribute the payments received from the granting authority to the other beneficiaries without unjustified delay (see Article 22).

The coordinator may not delegate or subcontract the above-mentioned tasks to any other beneficiary or third party (including affiliated entities).

However, coordinators which are public bodies may delegate the tasks set out in Point (b)(ii) last indent and (iii) above to entities with ‘authorisation to administer’ which they have created or which are controlled by or affiliated to them. In this case, the coordinator retains sole responsibility for the payments and for compliance with the obligations under the Agreement.

Moreover, coordinators which are ‘sole beneficiaries’¹² (or similar, such as European research

¹² For the definition, see Article 187(2) EU Financial Regulation 2018/1046: “Where several entities satisfy the criteria

infrastructure consortia (ERICs)) may delegate the tasks set out in Point (b)(i) to (iii) above to one of their members. The coordinator retains sole responsibility for compliance with the obligations under the Agreement.

The beneficiaries must have **internal arrangements** regarding their operation and co-ordination, to ensure that the action is implemented properly.

If required by the granting authority (see Data Sheet, Point 1), these arrangements must be set out in a written **consortium agreement** between the beneficiaries, covering for instance:

- the internal organisation of the consortium
- the management of access to the Portal
- different distribution keys for the payments and financial responsibilities in case of recoveries (if any)
- additional rules on rights and obligations related to background and results (see Article 16)
- settlement of internal disputes
- liability, indemnification and confidentiality arrangements between the beneficiaries.

The internal arrangements must not contain any provision contrary to this Agreement.

ARTICLE 8 — AFFILIATED ENTITIES

The following entities which are linked to a beneficiary will participate in the action as ‘affiliated entities’:

- **TRANSAVIA FRANCE SAS (Transavia)**, PIC 990013914, linked to AIR FRANCE SA (AIR FRANCE)
- **HOP! (HOP)**, PIC 910702446, linked to AIR FRANCE SA (AIR FRANCE)

Affiliated entities can charge costs and contributions to the action under the same conditions as the beneficiaries and must implement the action tasks attributed to them in Annex 1 in accordance with Article 11.

Their costs and contributions will be included in Annex 2 and will be taken into account for the calculation of the grant.

The beneficiaries must ensure that all their obligations under this Agreement also apply to their affiliated entities.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the affiliated entities.

Breaches by affiliated entities will be handled in the same manner as breaches by beneficiaries. Recovery of undue amounts will be handled through the beneficiaries.

for being awarded a grant and together form one entity, that entity may be treated as the **sole beneficiary**, including where it is specifically established for the purpose of implementing the action financed by the grant.”

If the granting authority requires joint and several liability of affiliated entities (see Data Sheet, Point 4.4), they must sign the declaration set out in Annex 3a and may be held liable in case of enforced recoveries against their beneficiaries (see Article 22.2 and 22.4).

ARTICLE 9 — OTHER PARTICIPANTS INVOLVED IN THE ACTION

9.1 Associated partners

The following entities which cooperate with a beneficiary will participate in the action as ‘associated partners’:

- **SKYGUIDE, SA SUISSE POUR LES SERVICES DE LA NAVIGATION AERIENNE CIVILS ET MILITAIRES (SKYGUIDE), PIC 958184334**

Associated partners must implement the action tasks attributed to them in Annex 1 in accordance with Article 11. They may not charge costs or contributions to the action and the costs for their tasks are not eligible.

The tasks must be set out in Annex 1.

The beneficiaries must ensure that their contractual obligations under Articles 11 (proper implementation), 12 (conflict of interests), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the associated partners.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the associated partners.

9.2 Third parties giving in-kind contributions to the action

Other third parties may give in-kind contributions to the action (i.e. personnel, equipment, other goods, works and services, etc. which are free-of-charge), if necessary for the implementation.

Third parties giving in-kind contributions do not implement any action tasks. They may not charge costs or contributions to the action and the costs for the in-kind contributions are not eligible.

The third parties and their in-kind contributions should be set out in Annex 1.

9.3 Subcontractors

Subcontractors may participate in the action, if necessary for the implementation.

Subcontractors must implement their action tasks in accordance with Article 11. The costs for the subcontracted tasks (invoiced price from the subcontractor) are eligible and may be charged by the beneficiaries, under the conditions set out in Article 6. The costs will be included in Annex 2 as part of the beneficiaries’ costs.

The beneficiaries must ensure that their contractual obligations under Articles 11 (proper implementation), 12 (conflict of interest), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the subcontractors.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the subcontractors.

9.4 Recipients of financial support to third parties

If the action includes providing financial support to third parties (e.g. grants, prizes or similar forms of support), the beneficiaries must ensure that their contractual obligations under Articles 12 (conflict of interest), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the third parties receiving the support (recipients).

The beneficiaries must also ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the recipients.

ARTICLE 10 — PARTICIPANTS WITH SPECIAL STATUS

10.1 Non-EU participants

Participants which are established in a non-EU country (if any) undertake to comply with their obligations under the Agreement and:

- to respect general principles (including fundamental rights, values and ethical principles, environmental and labour standards, rules on classified information, intellectual property rights, visibility of funding and protection of personal data)
- for the submission of certificates under Article 24: to use qualified external auditors which are independent and comply with comparable standards as those set out in EU Directive 2006/43/EC¹³
- for the controls under Article 25: to allow for checks, reviews, audits and investigations (including on-the-spot checks, visits and inspections) by the bodies mentioned in that Article (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.).

Special rules on dispute settlement apply (see Data Sheet, Point 5).

10.2 Participants which are international organisations

Participants which are international organisations (IOs; if any) undertake to comply with their obligations under the Agreement and:

- to respect general principles (including fundamental rights, values and ethical principles, environmental and labour standards, rules on classified information, intellectual property rights, visibility of funding and protection of personal data)
- for the submission of certificates under Article 24: to use either independent public officers or external auditors which comply with comparable standards as those set out in EU Directive 2006/43/EC

¹³ Directive 2006/43/EC of the European Parliament and of the Council of 17 May 2006 on statutory audits of annual accounts and consolidated accounts or similar national regulations (OJ L 157, 9.6.2006, p. 87).

- for the controls under Article 25: to allow for the checks, reviews, audits and investigations by the bodies mentioned in that Article, taking into account the specific agreements concluded by them and the EU (if any).

For such participants, nothing in the Agreement will be interpreted as a waiver of their privileges or immunities, as accorded by their constituent documents or international law.

Special rules on applicable law and dispute settlement apply (see Article 43 and Data Sheet, Point 5).

10.3 Pillar-assessed participants

Pillar-assessed participants (if any) may rely on their own systems, rules and procedures, in so far as they have been positively assessed and do not call into question the decision awarding the grant or breach the principle of equal treatment of applicants or beneficiaries.

‘Pillar-assessment’ means a review by the European Commission on the systems, rules and procedures which participants use for managing EU grants (in particular internal control system, accounting system, external audits, financing of third parties, rules on recovery and exclusion, information on recipients and protection of personal data; see Article 154 EU Financial Regulation 2018/1046).

Participants with a positive pillar assessment may rely on their own systems, rules and procedures, in particular for:

- record-keeping (Article 20): may be done in accordance with internal standards, rules and procedures
- currency conversion for financial statements (Article 21): may be done in accordance with usual accounting practices
- guarantees (Article 23): for public law bodies, prefinancing guarantees are not needed
- certificates (Article 24):
 - certificates on the financial statements (CFS): may be provided by their regular internal or external auditors and in accordance with their internal financial regulations and procedures
 - certificates on usual accounting practices (CoMUC): are not needed if those practices are covered by an ex-ante assessment

and use the following specific rules, for:

- recoveries (Article 22): in case of financial support to third parties, there will be no recovery if the participant has done everything possible to retrieve the undue amounts from the third party receiving the support (including legal proceedings) and non-recovery is not due to an error or negligence on its part
- checks, reviews, audits and investigations by the EU (Article 25): will be conducted taking into account the rules and procedures specifically agreed between them and the framework agreement (if any)

- impact evaluation (Article 26): will be conducted in accordance with the participant's internal rules and procedures and the framework agreement (if any)
- grant agreement suspension (Article 31): certain costs incurred during grant suspension are eligible (notably, minimum costs necessary for a possible resumption of the action and costs relating to contracts which were entered into before the pre-information letter was received and which could not reasonably be suspended, reallocated or terminated on legal grounds)
- grant agreement termination (Article 32): the final grant amount and final payment will be calculated taking into account also costs relating to contracts due for execution only after termination takes effect, if the contract was entered into before the pre-information letter was received and could not reasonably be terminated on legal grounds
- liability for damages (Article 33.2): the granting authority must be compensated for damage it sustains as a result of the implementation of the action or because the action was not implemented in full compliance with the Agreement only if the damage is due to an infringement of the participant's internal rules and procedures or due to a violation of third parties' rights by the participant or one of its employees or individual for whom the employees are responsible.

Participants whose pillar assessment covers procurement and granting procedures may also do purchases, subcontracting and financial support to third parties (Article 6.2) in accordance with their internal rules and procedures for purchases, subcontracting and financial support.

Participants whose pillar assessment covers data protection rules may rely on their internal standards, rules and procedures for data protection (Article 15).

The participants may however not rely on provisions which would breach the principle of equal treatment of applicants or beneficiaries or call into question the decision awarding the grant, such as in particular:

- eligibility (Article 6)
- consortium roles and set-up (Articles 7-9)
- security and ethics (Articles 13, 14)
- IPR (including background and results, access rights and rights of use), communication, dissemination and visibility (Articles 16 and 17)
- information obligation (Article 19)
- payment, reporting and amendments (Articles 21, 22 and 39)
- rejections, reductions, suspensions and terminations (Articles 27, 28, 29-32)

If the pillar assessment was subject to remedial measures, reliance on the internal systems, rules and procedures is subject to compliance with those remedial measures.

Participants whose assessment has not yet been updated to cover (the new rules on) data protection may rely on their internal systems, rules and procedures, provided that they ensure that personal data is:

- processed lawfully, fairly and in a transparent manner in relation to the data subject

- collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes
- adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed
- accurate and, where necessary, kept up to date
- kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the data is processed and
- processed in a manner that ensures appropriate security of the personal data.

Participants must inform the coordinator without delay of any changes to the systems, rules and procedures that were part of the pillar assessment. The coordinator must immediately inform the granting authority.

Pillar-assessed participants that have also concluded a framework agreement with the EU, may moreover — under the same conditions as those above (i.e. not call into question the decision awarding the grant or breach the principle of equal treatment of applicants or beneficiaries) — rely on the provisions set out in that framework agreement.

SECTION 2 RULES FOR CARRYING OUT THE ACTION

ARTICLE 11 — PROPER IMPLEMENTATION OF THE ACTION

11.1 Obligation to properly implement the action

The beneficiaries must implement the action as described in Annex 1 and in compliance with the provisions of the Agreement, the call conditions and all legal obligations under applicable EU, international and national law.

11.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 12 — CONFLICT OF INTERESTS

12.1 Conflict of interests

The beneficiaries must take all measures to prevent any situation where the impartial and objective implementation of the Agreement could be compromised for reasons involving family, emotional life, political or national affinity, economic interest or any other direct or indirect interest ('conflict of interests').

They must formally notify the granting authority without delay of any situation constituting or likely to lead to a conflict of interests and immediately take all the necessary steps to rectify this situation.

The granting authority may verify that the measures taken are appropriate and may require additional measures to be taken by a specified deadline.

12.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28) and the grant or the beneficiary may be terminated (see Article 32).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 13 — CONFIDENTIALITY AND SECURITY

13.1 Sensitive information

The parties must keep confidential any data, documents or other material (in any form) that is identified as sensitive in writing ('sensitive information') — during the implementation of the action and for at least until the time-limit set out in the Data Sheet (see Point 6).

If a beneficiary requests, the granting authority may agree to keep such information confidential for a longer period.

Unless otherwise agreed between the parties, they may use sensitive information only to implement the Agreement.

The beneficiaries may disclose sensitive information to their personnel or other participants involved in the action only if they:

- (a) need to know it in order to implement the Agreement and
- (b) are bound by an obligation of confidentiality.

The granting authority may disclose sensitive information to its staff and to other EU institutions and bodies.

It may moreover disclose sensitive information to third parties, if:

- (a) this is necessary to implement the Agreement or safeguard the EU financial interests and
- (b) the recipients of the information are bound by an obligation of confidentiality.

The confidentiality obligations no longer apply if:

- (a) the disclosing party agrees to release the other party
- (b) the information becomes publicly available, without breaching any confidentiality obligation
- (c) the disclosure of the sensitive information is required by EU, international or national law.

Specific confidentiality rules (if any) are set out in Annex 5.

13.2 Classified information

The parties must handle classified information in accordance with the applicable EU, international or national law on classified information (in particular, Decision 2015/444¹⁴ and its implementing rules).

Deliverables which contain classified information must be submitted according to special procedures agreed with the granting authority.

Action tasks involving classified information may be subcontracted only after explicit approval (in writing) from the granting authority.

Classified information may not be disclosed to any third party (including participants involved in the action implementation) without prior explicit written approval from the granting authority.

Specific security rules (if any) are set out in Annex 5.

13.3 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 14 — ETHICS AND VALUES

14.1 Ethics

The action must be carried out in line with the highest ethical standards and the applicable EU, international and national law on ethical principles.

Specific ethics rules (if any) are set out in Annex 5.

14.2 Values

The beneficiaries must commit to and ensure the respect of basic EU values (such as respect for human dignity, freedom, democracy, equality, the rule of law and human rights, including the rights of minorities).

Specific rules on values (if any) are set out in Annex 5.

14.3 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 15 — DATA PROTECTION

15.1 Data processing by the granting authority

¹⁴ Commission Decision 2015/444/EC, Euratom of 13 March 2015 on the security rules for protecting EU classified information (OJ L 72, 17.3.2015, p. 53).

Any personal data under the Agreement will be processed under the responsibility of the data controller of the granting authority in accordance with and for the purposes set out in the Portal Privacy Statement.

For grants where the granting authority is the European Commission, an EU regulatory or executive agency, joint undertaking or other EU body, the processing will be subject to Regulation 2018/1725¹⁵.

15.2 Data processing by the beneficiaries

The beneficiaries must process personal data under the Agreement in compliance with the applicable EU, international and national law on data protection (in particular, Regulation 2016/679¹⁶).

They must ensure that personal data is:

- processed lawfully, fairly and in a transparent manner in relation to the data subjects
- collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes
- adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed
- accurate and, where necessary, kept up to date
- kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the data is processed and
- processed in a manner that ensures appropriate security of the data.

The beneficiaries may grant their personnel access to personal data only if it is strictly necessary for implementing, managing and monitoring the Agreement. The beneficiaries must ensure that the personnel is under a confidentiality obligation.

The beneficiaries must inform the persons whose data are transferred to the granting authority and provide them with the Portal Privacy Statement.

15.3 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 16 — INTELLECTUAL PROPERTY RIGHTS (IPR) — BACKGROUND AND RESULTS — ACCESS RIGHTS AND RIGHTS OF USE

¹⁵ Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p. 39).

¹⁶ Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC ('GDPR') (OJ L 119, 4.5.2016, p. 1).

16.1 Background and access rights to background

The beneficiaries must give each other and the other participants access to the background identified as needed for implementing the action, subject to any specific rules in Annex 5.

‘Background’ means any data, know-how or information — whatever its form or nature (tangible or intangible), including any rights such as intellectual property rights — that is:

- (a) held by the beneficiaries before they acceded to the Agreement and
- (b) needed to implement the action or exploit the results.

If background is subject to rights of a third party, the beneficiary concerned must ensure that it is able to comply with its obligations under the Agreement.

16.2 Ownership of results

The granting authority does not obtain ownership of the results produced under the action.

‘Results’ means any tangible or intangible effect of the action, such as data, know-how or information, whatever its form or nature, whether or not it can be protected, as well as any rights attached to it, including intellectual property rights.

16.3 Rights of use of the granting authority on materials, documents and information received for policy, information, communication, dissemination and publicity purposes

The granting authority has the right to use non-sensitive information relating to the action and materials and documents received from the beneficiaries (notably summaries for publication, deliverables, as well as any other material, such as pictures or audio-visual material, in paper or electronic form) for policy, information, communication, dissemination and publicity purposes — during the action or afterwards.

The right to use the beneficiaries’ materials, documents and information is granted in the form of a royalty-free, non-exclusive and irrevocable licence, which includes the following rights:

- (a) **use for its own purposes** (in particular, making them available to persons working for the granting authority or any other EU service (including institutions, bodies, offices, agencies, etc.) or EU Member State institution or body; copying or reproducing them in whole or in part, in unlimited numbers; and communication through press information services)
- (b) **distribution to the public** (in particular, publication as hard copies and in electronic or digital format, publication on the internet, as a downloadable or non-downloadable file, broadcasting by any channel, public display or presentation, communicating through press information services, or inclusion in widely accessible databases or indexes)
- (c) **editing or redrafting** (including shortening, summarising, inserting other elements (e.g. meta-data, legends, other graphic, visual, audio or text elements), extracting parts (e.g. audio or video files), dividing into parts, use in a compilation)
- (d) **translation**
- (e) **storage** in paper, electronic or other form

- (f) **archiving**, in line with applicable document-management rules
- (g) the right to authorise **third parties** to act on its behalf or sub-license to third parties the modes of use set out in Points (b), (c), (d) and (f), if needed for the information, communication and publicity activity of the granting authority
- (h) **processing**, analysing, aggregating the materials, documents and information received and **producing derivative works**.

The rights of use are granted for the whole duration of the industrial or intellectual property rights concerned.

If materials or documents are subject to moral rights or third party rights (including intellectual property rights or rights of natural persons on their image and voice), the beneficiaries must ensure that they comply with their obligations under this Agreement (in particular, by obtaining the necessary licences and authorisations from the rights holders concerned).

Where applicable, the granting authority will insert the following information:

“© – [year] – [name of the copyright owner]. All rights reserved. Licensed to the [name of granting authority] under conditions.”

16.4 Specific rules on IPR, results and background

Specific rules regarding intellectual property rights, results and background (if any) are set out in Annex 5.

16.5 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such a breach may also lead to other measures described in Chapter 5.

ARTICLE 17 — COMMUNICATION, DISSEMINATION AND VISIBILITY

17.1 Communication — Dissemination — Promoting the action

Unless otherwise agreed with the granting authority, the beneficiaries must promote the action and its results by providing targeted information to multiple audiences (including the media and the public), in accordance with Annex 1 and in a strategic, coherent and effective manner.

Before engaging in a communication or dissemination activity expected to have a major media impact, the beneficiaries must inform the granting authority.

17.2 Visibility — European flag and funding statement

Unless otherwise agreed with the granting authority, communication activities of the beneficiaries related to the action (including media relations, conferences, seminars, information material, such as brochures, leaflets, posters, presentations, etc., in electronic form, via traditional or social media, etc.), dissemination activities and any infrastructure, equipment, vehicles, supplies or major result funded

by the grant must acknowledge EU support and display the European flag (emblem) and funding statement (translated into local languages, where appropriate):



Funded by the
European Union



Co-funded by the
European Union



Funded by the
European Union



Co-funded by the
European Union

The emblem must remain distinct and separate and cannot be modified by adding other visual marks, brands or text.

Apart from the emblem, no other visual identity or logo may be used to highlight the EU support.

When displayed in association with other logos (e.g. of beneficiaries or sponsors), the emblem must be displayed at least as prominently and visibly as the other logos.

For the purposes of their obligations under this Article, the beneficiaries may use the emblem without first obtaining approval from the granting authority. This does not, however, give them the right to exclusive use. Moreover, they may not appropriate the emblem or any similar trademark or logo, either by registration or by any other means.

17.3 Quality of information — Disclaimer

Any communication or dissemination activity related to the action must use factually accurate information.

Moreover, it must indicate the following disclaimer (translated into local languages where appropriate):

“Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or [name of the granting authority]. Neither the European Union nor the granting authority can be held responsible for them.”

17.4 Specific communication, dissemination and visibility rules

Specific communication, dissemination and visibility rules (if any) are set out in Annex 5.

17.5 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 18 — SPECIFIC RULES FOR CARRYING OUT THE ACTION

18.1 Specific rules for carrying out the action

Specific rules for implementing the action (if any) are set out in Annex 5.

18.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such a breach may also lead to other measures described in Chapter 5.

SECTION 3 GRANT ADMINISTRATION

ARTICLE 19 — GENERAL INFORMATION OBLIGATIONS

19.1 Information requests

The beneficiaries must provide — during the action or afterwards and in accordance with Article 7 — any information requested in order to verify eligibility of the costs or contributions declared, proper implementation of the action and compliance with the other obligations under the Agreement.

The information provided must be accurate, precise and complete and in the format requested, including electronic format.

19.2 Participant Register data updates

The beneficiaries must keep — at all times, during the action or afterwards — their information stored in the Portal Participant Register up to date, in particular, their name, address, legal representatives, legal form and organisation type.

19.3 Information about events and circumstances which impact the action

The beneficiaries must immediately inform the granting authority (and the other beneficiaries) of any of the following:

- (a) **events** which are likely to affect or delay the implementation of the action or affect the EU's financial interests, in particular:
 - (i) changes in their legal, financial, technical, organisational or ownership situation (including changes linked to one of the exclusion grounds listed in the declaration of honour signed before grant signature)

(ii) linked action information: not applicable

(b) **circumstances** affecting:

(i) the decision to award the grant or

(ii) compliance with requirements under the Agreement.

19.4 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 20 — RECORD-KEEPING

20.1 Keeping records and supporting documents

The beneficiaries must — at least until the time-limit set out in the Data Sheet (see Point 6) — keep records and other supporting documents to prove the proper implementation of the action in line with the accepted standards in the respective field (if any).

In addition, the beneficiaries must — for the same period — keep the following to justify the amounts declared:

- (a) for actual costs: adequate records and supporting documents to prove the costs declared (such as contracts, subcontracts, invoices and accounting records); in addition, the beneficiaries' usual accounting and internal control procedures must enable direct reconciliation between the amounts declared, the amounts recorded in their accounts and the amounts stated in the supporting documents
- (b) for flat-rate costs and contributions (if any): adequate records and supporting documents to prove the eligibility of the costs or contributions to which the flat-rate is applied
- (c) for the following simplified costs and contributions: the beneficiaries do not need to keep specific records on the actual costs incurred, but must keep:
 - (i) for unit costs and contributions (if any): adequate records and supporting documents to prove the number of units declared
 - (ii) for lump sum costs and contributions (if any): adequate records and supporting documents to prove proper implementation of the work as described in Annex 1
 - (iii) for financing not linked to costs (if any): adequate records and supporting documents to prove the achievement of the results or the fulfilment of the conditions as described in Annex 1
- (d) for unit, flat-rate and lump sum costs and contributions according to usual cost accounting practices (if any): the beneficiaries must keep any adequate records and supporting documents to prove that their cost accounting practices have been applied in a consistent manner, based on

objective criteria, regardless of the source of funding, and that they comply with the eligibility conditions set out in Articles 6.1 and 6.2.

Moreover, the following is needed for specific budget categories:

- (e) for personnel costs: time worked for the beneficiary under the action must be supported by declarations signed monthly by the person and their supervisor, unless another reliable time-record system is in place; the granting authority may accept alternative evidence supporting the time worked for the action declared, if it considers that it offers an adequate level of assurance
- (f) additional record-keeping rules: not applicable

The records and supporting documents must be made available upon request (see Article 19) or in the context of checks, reviews, audits or investigations (see Article 25).

If there are on-going checks, reviews, audits, investigations, litigation or other pursuits of claims under the Agreement (including the extension of findings; see Article 25), the beneficiaries must keep these records and other supporting documentation until the end of these procedures.

The beneficiaries must keep the original documents. Digital and digitalised documents are considered originals if they are authorised by the applicable national law. The granting authority may accept non-original documents if they offer a comparable level of assurance.

20.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, costs or contributions insufficiently substantiated will be ineligible (see Article 6) and will be rejected (see Article 27), and the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 21 — REPORTING

21.1 Continuous reporting

The beneficiaries must continuously report on the progress of the action (e.g. **deliverables, milestones, outputs/outcomes, critical risks, indicators**, etc; if any), in the Portal Continuous Reporting tool and in accordance with the timing and conditions it sets out (as agreed with the granting authority).

Standardised deliverables (e.g. progress reports not linked to payments, reports on cumulative expenditure, special reports, etc; if any) must be submitted using the templates published on the Portal.

21.2 Periodic reporting: Technical reports and financial statements

In addition, the beneficiaries must provide reports to request payments, in accordance with the schedule and modalities set out in the Data Sheet (see Point 4.2):

- for additional prefinancings (if any): an **additional prefinancing report**
- for interim payments (if any) and the final payment: a **periodic report**.

The prefinancing and periodic reports include a technical and financial part.

The technical part includes an overview of the action implementation. It must be prepared using the template available in the Portal Periodic Reporting tool.

The financial part of the additional prefinancing report includes a statement on the use of the previous prefinancing payment.

The financial part of the periodic report includes:

- the financial statements (individual and consolidated; for all beneficiaries/affiliated entities)
- the explanation on the use of resources (or detailed cost reporting table, if required)
- the certificates on the financial statements (CFS) (if required; see Article 24.2 and Data Sheet, Point 4.3).

The **financial statements** must detail the eligible costs and contributions for each budget category and, for the final payment, also the revenues for the action (see Articles 6 and 22).

All eligible costs and contributions incurred should be declared, even if they exceed the amounts indicated in the estimated budget (see Annex 2). Amounts that are not declared in the individual financial statements will not be taken into account by the granting authority.

By signing the financial statements (directly in the Portal Periodic Reporting tool), the beneficiaries confirm that:

- the information provided is complete, reliable and true
- the costs and contributions declared are eligible (see Article 6)
- the costs and contributions can be substantiated by adequate records and supporting documents (see Article 20) that will be produced upon request (see Article 19) or in the context of checks, reviews, audits and investigations (see Article 25)
- for the final periodic report: all the revenues have been declared (if required; see Article 22).

Beneficiaries will have to submit also the financial statements of their affiliated entities (if any). In case of recoveries (see Article 22), beneficiaries will be held responsible also for the financial statements of their affiliated entities.

21.3 Currency for financial statements and conversion into euros

The financial statements must be drafted in euro.

Beneficiaries with general accounts established in a currency other than the euro must convert the costs recorded in their accounts into euro, at the average of the daily exchange rates published in the C series of the *Official Journal of the European Union* (ECB website), calculated over the corresponding reporting period.

If no daily euro exchange rate is published in the *Official Journal* for the currency in question, they must be converted at the average of the monthly accounting exchange rates published on the European Commission website (InforEuro), calculated over the corresponding reporting period.

Beneficiaries with general accounts in euro must convert costs incurred in another currency into euro according to their usual accounting practices.

21.4 Reporting language

The reporting must be in the language of the Agreement, unless otherwise agreed with the granting authority (see Data Sheet, Point 4.2).

21.5 Consequences of non-compliance

If a report submitted does not comply with this Article, the granting authority may suspend the payment deadline (see Article 29) and apply other measures described in Chapter 5.

If the coordinator breaches its reporting obligations, the granting authority may terminate the grant or the coordinator's participation (see Article 32) or apply other measures described in Chapter 5.

ARTICLE 22 — PAYMENTS AND RECOVERIES — CALCULATION OF AMOUNTS DUE

22.1 Payments and payment arrangements

Payments will be made in accordance with the schedule and modalities set out in the Data Sheet (see Point 4.2).

They will be made in euro to the bank account indicated by the coordinator (see Data Sheet, Point 4.2) and must be distributed without unjustified delay (restrictions may apply to distribution of the initial prefinancing payment; see Data Sheet, Point 4.2).

Payments to this bank account will discharge the granting authority from its payment obligation.

The cost of payment transfers will be borne as follows:

- the granting authority bears the cost of transfers charged by its bank
- the beneficiary bears the cost of transfers charged by its bank
- the party causing a repetition of a transfer bears all costs of the repeated transfer.

Payments by the granting authority will be considered to have been carried out on the date when they are debited to its account.

22.2 Recoveries

Recoveries will be made, if — at beneficiary termination, final payment or afterwards — it turns out that the granting authority has paid too much and needs to recover the amounts undue.

The general liability regime for recoveries (first-line liability) is as follows: At final payment, the coordinator will be fully liable for recoveries, even if it has not been the final recipient of the undue amounts. At beneficiary termination or after final payment, recoveries will be made directly against the beneficiaries concerned.

Beneficiaries will be fully liable for repaying the debts of their affiliated entities.

In case of enforced recoveries (see Article 22.4):

- the beneficiaries will be jointly and severally liable for repaying debts of another beneficiary under the Agreement (including late-payment interest), if required by the granting authority (see Data Sheet, Point 4.4)
- affiliated entities will be held liable for repaying debts of their beneficiaries under the Agreement (including late-payment interest), if required by the granting authority (see Data Sheet, Point 4.4).

22.3 Amounts due

22.3.1 Prefinancing payments

The aim of the prefinancing is to provide the beneficiaries with a float.

It remains the property of the EU until the final payment.

For **initial prefinancings** (if any), the amount due, schedule and modalities are set out in the Data Sheet (see Point 4.2).

For **additional prefinancings** (if any), the amount due, schedule and modalities are also set out in the Data Sheet (see Point 4.2). However, if the statement on the use of the previous prefinancing payment shows that less than 70% was used, the amount set out in the Data Sheet will be reduced by the difference between the 70% threshold and the amount used.

Prefinancing payments (or parts of them) may be offset (without the beneficiaries' consent) against amounts owed by a beneficiary to the granting authority — up to the amount due to that beneficiary.

For grants where the granting authority is the European Commission or an EU executive agency, offsetting may also be done against amounts owed to other Commission services or executive agencies.

Payments will not be made if the payment deadline or payments are suspended (see Articles 29 and 30).

22.3.2 Amount due at beneficiary termination — Recovery

In case of beneficiary termination, the granting authority will determine the provisional amount due for the beneficiary concerned. Payments (if any) will be made with the next interim or final payment.

The **amount due** will be calculated in the following step:

Step 1 — Calculation of the total accepted EU contribution

Step 1 — Calculation of the total accepted EU contribution

The granting authority will first calculate the 'accepted EU contribution' for the beneficiary for all reporting periods, by calculating the 'maximum EU contribution to costs' (applying the funding rate to the accepted costs of the beneficiary), taking into account requests for a lower contribution to costs and CFS threshold cappings (if any; see Article 24.5) and adding the contributions (accepted unit, flat-rate or lump sum contributions and financing not linked to costs, if any).

After that, the granting authority will take into account grant reductions (if any). The resulting amount is the ‘total accepted EU contribution’ for the beneficiary.

The **balance** is then calculated by deducting the payments received (if any; see report on the distribution of payments in Article 32), from the total accepted EU contribution:

$$\begin{aligned} & \{ \text{total accepted EU contribution for the beneficiary} \\ & \text{minus} \\ & \{ \text{prefinancing and interim payments received (if any)} \} \}. \end{aligned}$$

If the balance is **positive**, the amount will be included in the next interim or final payment to the consortium.

If the balance is **negative**, it will be **recovered** in accordance with the following procedure:

The granting authority will send a **pre-information letter** to the beneficiary concerned:

- formally notifying the intention to recover, the amount due, the amount to be recovered and the reasons why and
- requesting observations within 30 days of receiving notification.

If no observations are submitted (or the granting authority decides to pursue recovery despite the observations it has received), it will confirm the amount to be recovered and ask this amount to be paid to the coordinator (**confirmation letter**).

The amounts will later on also be taken into account for the next interim or final payment.

22.3.3 Interim payments

Interim payments reimburse the eligible costs and contributions claimed for the implementation of the action during the reporting periods (if any).

Interim payments (if any) will be made in accordance with the schedule and modalities set out the Data Sheet (see Point 4.2).

Payment is subject to the approval of the periodic report. Its approval does not imply recognition of compliance, authenticity, completeness or correctness of its content.

The **interim payment** will be calculated by the granting authority in the following steps:

Step 1 — Calculation of the total accepted EU contribution

Step 2 — Limit to the interim payment ceiling

Step 1 — Calculation of the total accepted EU contribution

The granting authority will calculate the ‘accepted EU contribution’ for the action for the reporting period, by first calculating the ‘maximum EU contribution to costs’ (applying the funding rate to the accepted costs of each beneficiary), taking into account requests for a lower contribution to costs, and CFS threshold cappings (if any; see Article 24.5) and adding the contributions (accepted unit, flat-rate or lump sum contributions and financing not linked to costs, if any).

After that, the granting authority will take into account grant reductions from beneficiary termination (if any). The resulting amount is the ‘total accepted EU contribution’.

Step 2 — Limit to the interim payment ceiling

The resulting amount is then capped to ensure that the total amount of prefinancing and interim payments (if any) does not exceed the interim payment ceiling set out in the Data Sheet (see Point 4.2).

Interim payments (or parts of them) may be offset (without the beneficiaries’ consent) against amounts owed by a beneficiary to the granting authority — up to the amount due to that beneficiary.

For grants where the granting authority is the European Commission or an EU executive agency, offsetting may also be done against amounts owed to other Commission services or executive agencies.

Payments will not be made if the payment deadline or payments are suspended (see Articles 29 and 30).

22.3.4 Final payment — Final grant amount — Revenues and Profit — Recovery

The final payment (payment of the balance) reimburses the remaining part of the eligible costs and contributions claimed for the implementation of the action (if any).

The final payment will be made in accordance with the schedule and modalities set out in the Data Sheet (see Point 4.2).

Payment is subject to the approval of the final periodic report. Its approval does not imply recognition of compliance, authenticity, completeness or correctness of its content.

The **final grant amount for the action** will be calculated in the following steps:

Step 1 — Calculation of the total accepted EU contribution

Step 2 — Limit to the maximum grant amount

Step 3 — Reduction due to the no-profit rule

Step 1 — Calculation of the total accepted EU contribution

The granting authority will first calculate the ‘accepted EU contribution’ for the action for all reporting periods, by calculating the ‘maximum EU contribution to costs’ (applying the funding rate to the total accepted costs of each beneficiary), taking into account requests for a lower contribution to costs, CFS threshold cappings (if any; see Article 24.5) and adding the contributions (accepted unit, flat-rate or lump sum contributions and financing not linked to costs, if any).

After that, the granting authority will take into account grant reductions (if any). The resulting amount is the ‘total accepted EU contribution’.

Step 2 — Limit to the maximum grant amount

If the resulting amount is higher than the maximum grant amount set out in Article 5.2, it will be limited to the latter.

Step 3 — Reduction due to the no-profit rule

If the no-profit rule is provided for in the Data Sheet (see Point 4.2), the grant must not produce a profit (i.e. surplus of the amount obtained following Step 2 plus the action's revenues, over the eligible costs and contributions approved by the granting authority).

'Revenue' is all income generated by the action, during its duration (see Article 4), for beneficiaries that are profit legal entities.

If there is a profit, it will be deducted in proportion to the final rate of reimbursement of the eligible costs approved by the granting authority (as compared to the amount calculated following Steps 1 and 2 minus the contributions).

The **balance** (final payment) is then calculated by deducting the total amount of prefinancing and interim payments already made (if any), from the final grant amount:

$$\left\{ \begin{array}{l} \text{final grant amount} \\ \text{minus} \\ \text{prefinancing and interim payments made (if any)} \end{array} \right\}.$$

If the balance is **positive**, it will be **paid** to the coordinator.

The final payment (or part of it) may be offset (without the beneficiaries' consent) against amounts owed by a beneficiary to the granting authority — up to the amount due to that beneficiary.

For grants where the granting authority is the European Commission or an EU executive agency, offsetting may also be done against amounts owed to other Commission services or executive agencies.

Payments will not be made if the payment deadline or payments are suspended (see Articles 29 and 30).

If the balance is **negative**, it will be **recovered** in accordance with the following procedure:

The granting authority will send a **pre-information letter** to the coordinator:

- formally notifying the intention to recover, the final grant amount, the amount to be recovered and the reasons why
- requesting observations within 30 days of receiving notification.

If no observations are submitted (or the granting authority decides to pursue recovery despite the observations it has received), it will confirm the amount to be recovered (**confirmation letter**), together with a **debit note** with the terms and date for payment.

If payment is not made by the date specified in the debit note, the granting authority will **enforce recovery** in accordance with Article 22.4.

22.3.5 Audit implementation after final payment — Revised final grant amount — Recovery

If — after the final payment (in particular, after checks, reviews, audits or investigations; see

Article 25) — the granting authority rejects costs or contributions (see Article 27) or reduces the grant (see Article 28), it will calculate the **revised final grant amount** for the beneficiary concerned.

The **beneficiary revised final grant amount** will be calculated in the following step:

Step 1 — Calculation of the revised total accepted EU contribution

Step 1 — Calculation of the revised total accepted EU contribution

The granting authority will first calculate the ‘revised accepted EU contribution’ for the beneficiary, by calculating the ‘revised accepted costs’ and ‘revised accepted contributions’.

After that, it will take into account grant reductions (if any). The resulting ‘revised total accepted EU contribution’ is the beneficiary revised final grant amount.

If the revised final grant amount is lower than the beneficiary’s final grant amount (i.e. its share in the final grant amount for the action), it will be **recovered** in accordance with the following procedure:

The **beneficiary final grant amount** (i.e. share in the final grant amount for the action) is calculated as follows:

$$\left\{ \begin{array}{l} \{\text{total accepted EU contribution for the beneficiary} \\ \text{divided by} \\ \text{total accepted EU contribution for the action}\} \\ \text{multiplied by} \\ \text{final grant amount for the action}\} \end{array} \right.$$

The granting authority will send a **pre-information letter** to the beneficiary concerned:

- formally notifying the intention to recover, the amount to be recovered and the reasons why and
- requesting observations within 30 days of receiving notification.

If no observations are submitted (or the granting authority decides to pursue recovery despite the observations it has received), it will confirm the amount to be recovered (**confirmation letter**), together with a **debit note** with the terms and the date for payment.

Recoveries against affiliated entities (if any) will be handled through their beneficiaries.

If payment is not made by the date specified in the debit note, the granting authority will **enforce recovery** in accordance with Article 22.4.

22.4 Enforced recovery

If payment is not made by the date specified in the debit note, the amount due will be recovered:

- (a) by offsetting the amount — without the coordinator or beneficiary’s consent — against any amounts owed to the coordinator or beneficiary by the granting authority.

In exceptional circumstances, to safeguard the EU financial interests, the amount may be offset before the payment date specified in the debit note.

For grants where the granting authority is the European Commission or an EU executive agency, debts may also be offset against amounts owed by other Commission services or executive agencies.

- (b) by drawing on the financial guarantee(s) (if any)
- (c) by holding other beneficiaries jointly and severally liable (if any; see Data Sheet, Point 4.4)
- (d) by holding affiliated entities jointly and severally liable (if any, see Data Sheet, Point 4.4)
- (e) by taking legal action (see Article 43) or, provided that the granting authority is the European Commission or an EU executive agency, by adopting an enforceable decision under Article 299 of the Treaty on the Functioning of the EU (TFEU) and Article 100(2) of EU Financial Regulation 2018/1046.

The amount to be recovered will be increased by **late-payment interest** at the rate set out in Article 22.5, from the day following the payment date in the debit note, up to and including the date the full payment is received.

Partial payments will be first credited against expenses, charges and late-payment interest and then against the principal.

Bank charges incurred in the recovery process will be borne by the beneficiary, unless Directive 2015/2366¹⁷ applies.

For grants where the granting authority is an EU executive agency, enforced recovery by offsetting or enforceable decision will be done by the services of the European Commission (see also Article 43).

22.5 Consequences of non-compliance

22.5.1 If the granting authority does not pay within the payment deadlines (see above), the beneficiaries are entitled to **late-payment interest** at the rate applied by the European Central Bank (ECB) for its main refinancing operations in euros ('reference rate'), plus the rate specified in the Data Sheet (Point 4.2). The reference rate is the rate in force on the first day of the month in which the payment deadline expires, as published in the C series of the *Official Journal of the European Union*.

If the late-payment interest is lower than or equal to EUR 200, it will be paid to the coordinator only on request submitted within two months of receiving the late payment.

Late-payment interest is not due if all beneficiaries are EU Member States (including regional and local government authorities or other public bodies acting on behalf of a Member State for the purpose of this Agreement).

If payments or the payment deadline are suspended (see Articles 29 and 30), payment will not be considered as late.

¹⁷ Directive (EU) 2015/2366 of the European Parliament and of the Council of 25 November 2015 on payment services in the internal market, amending Directives 2002/65/EC, 2009/110/EC and 2013/36/EU and Regulation (EU) No 1093/2010, and repealing Directive 2007/64/EC (OJ L 337, 23.12.2015, p. 35).

Late-payment interest covers the period running from the day following the due date for payment (see above), up to and including the date of payment.

Late-payment interest is not considered for the purposes of calculating the final grant amount.

22.5.2 If the coordinator breaches any of its obligations under this Article, the grant may be reduced (see Article 28) and the grant or the coordinator may be terminated (see Article 32).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 23 — GUARANTEES

23.1 Prefinancing guarantee

If required by the granting authority (see Data Sheet, Point 4.2), the beneficiaries must provide (one or more) prefinancing guarantee(s) in accordance with the timing and the amounts set out in the Data Sheet.

The coordinator must submit them to the granting authority in due time before the prefinancing they are linked to.

The guarantees must be drawn up using the template published on the Portal and fulfil the following conditions:

- (a) be provided by a bank or approved financial institution established in the EU or — if requested by the coordinator and accepted by the granting authority — by a third party or a bank or financial institution established outside the EU offering equivalent security
- (b) the guarantor stands as first-call guarantor and does not require the granting authority to first have recourse against the principal debtor (i.e. the beneficiary concerned) and
- (c) remain explicitly in force until the final payment and, if the final payment takes the form of a recovery, until five months after the debit note is notified to a beneficiary.

They will be released within the following month.

23.2 Consequences of non-compliance

If the beneficiaries breach their obligation to provide the prefinancing guarantee, the prefinancing will not be paid.

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 24 — CERTIFICATES

24.1 Operational verification report (OVR)

Not applicable

24.2 Certificate on the financial statements (CFS)

If required by the granting authority (see Data Sheet, Point 4.3), the beneficiaries must provide

certificates on their financial statements (CFS), in accordance with the schedule, threshold and conditions set out in the Data Sheet.

The coordinator must submit them as part of the periodic report (see Article 21).

The certificates must be drawn up using the template published on the Portal, cover the costs declared on the basis of actual costs and costs according to usual cost accounting practices (if any), and fulfil the following conditions:

- (a) be provided by a qualified approved external auditor which is independent and complies with Directive 2006/43/EC¹⁸ (or for public bodies: by a competent independent public officer)
- (b) the verification must be carried out according to the highest professional standards to ensure that the financial statements comply with the provisions under the Agreement and that the costs declared are eligible.

The certificates will not affect the granting authority's right to carry out its own checks, reviews or audits, nor preclude the European Court of Auditors (ECA), the European Public Prosecutor's Office (EPPO) or the European Anti-Fraud Office (OLAF) from using their prerogatives for audits and investigations under the Agreement (see Article 25).

If the costs (or a part of them) were already audited by the granting authority, these costs do not need to be covered by the certificate and will not be counted for calculating the threshold (if any).

24.3 Certificate on the compliance of usual cost accounting practices (CoMUC)

Beneficiaries which use unit, flat rate or lump sum costs or contributions according to usual costs accounting practices (if any) may submit to the granting authority, for approval, a certificate on the methodology stating that their usual cost accounting practices comply with the eligibility conditions under the Agreement.

The certificate must be drawn up using the template published on the Portal and fulfil the following conditions:

- (a) be provided by a qualified approved external auditor which is independent and complies with Directive 2006/43/EC¹⁹ (or for public bodies: by a competent independent public officer)
- (b) the verification must be carried out according to the highest professional standards to ensure that the methodology for declaring costs according to usual accounting practices complies with the provisions under the Agreement.

If the certificate is approved, amounts declared in line with this methodology will not be challenged subsequently, unless the beneficiary concealed information for the purpose of the approval.

24.4 Systems and process audit (SPA)

Not applicable

¹⁸ Directive 2006/43/EC of the European Parliament and of the Council of 17 May 2006 on statutory audits of annual accounts and consolidated accounts or similar national regulations (OJ L 157, 9.6.2006, p. 87).

¹⁹ Directive 2006/43/EC of the European Parliament and of the Council of 17 May 2006 on statutory audits of annual accounts and consolidated accounts or similar national regulations (OJ L 157, 9.6.2006, p. 87).

24.5 Consequences of non-compliance

If a beneficiary does not submit a certificate on the financial statements (CFS) or the certificate is rejected, the accepted EU contribution to costs will be capped to reflect the CFS threshold.

If a beneficiary breaches any of its other obligations under this Article, the granting authority may apply the measures described in Chapter 5.

ARTICLE 25 — CHECKS, REVIEWS, AUDITS AND INVESTIGATIONS — EXTENSION OF FINDINGS

25.1 Granting authority checks, reviews and audits

25.1.1 Internal checks

The granting authority may — during the action or afterwards — check the proper implementation of the action and compliance with the obligations under the Agreement, including assessing costs and contributions, deliverables and reports.

25.1.2 Project reviews

The granting authority may carry out reviews on the proper implementation of the action and compliance with the obligations under the Agreement (general project reviews or specific issues reviews).

Such project reviews may be started during the implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the coordinator or beneficiary concerned and will be considered to start on the date of the notification.

If needed, the granting authority may be assisted by independent, outside experts. If it uses outside experts, the coordinator or beneficiary concerned will be informed and have the right to object on grounds of commercial confidentiality or conflict of interest.

The coordinator or beneficiary concerned must cooperate diligently and provide — within the deadline requested — any information and data in addition to deliverables and reports already submitted (including information on the use of resources). The granting authority may request beneficiaries to provide such information to it directly. Sensitive information and documents will be treated in accordance with Article 13.

The coordinator or beneficiary concerned may be requested to participate in meetings, including with the outside experts.

For **on-the-spot visits**, the beneficiary concerned must allow access to sites and premises (including to the outside experts) and must ensure that information requested is readily available.

Information provided must be accurate, precise and complete and in the format requested, including electronic format.

On the basis of the review findings, a **project review report** will be drawn up.

The granting authority will formally notify the project review report to the coordinator or beneficiary concerned, which has 30 days from receiving notification to make observations.

Project reviews (including project review reports) will be in the language of the Agreement, unless otherwise agreed with the granting authority (see Data Sheet, Point 4.2).

25.1.3 Audits

The granting authority may carry out audits on the proper implementation of the action and compliance with the obligations under the Agreement.

Such audits may be started during the implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the beneficiary concerned and will be considered to start on the date of the notification.

The granting authority may use its own audit service, delegate audits to a centralised service or use external audit firms. If it uses an external firm, the beneficiary concerned will be informed and have the right to object on grounds of commercial confidentiality or conflict of interest.

The beneficiary concerned must cooperate diligently and provide — within the deadline requested — any information (including complete accounts, individual salary statements or other personal data) to verify compliance with the Agreement. Sensitive information and documents will be treated in accordance with Article 13.

For **on-the-spot** visits, the beneficiary concerned must allow access to sites and premises (including for the external audit firm) and must ensure that information requested is readily available.

Information provided must be accurate, precise and complete and in the format requested, including electronic format.

On the basis of the audit findings, a **draft audit report** will be drawn up.

The auditors will formally notify the draft audit report to the beneficiary concerned, which has 30 days from receiving notification to make observations (contradictory audit procedure).

The **final audit report** will take into account observations by the beneficiary concerned and will be formally notified to them.

Audits (including audit reports) will be in the language of the Agreement, unless otherwise agreed with the granting authority (see Data Sheet, Point 4.2).

25.2 European Commission checks, reviews and audits in grants of other granting authorities

Where the granting authority is not the European Commission, the latter has the same rights of checks, reviews and audits as the granting authority.

25.3 Access to records for assessing simplified forms of funding

The beneficiaries must give the European Commission access to their statutory records for the periodic assessment of simplified forms of funding which are used in EU programmes.

25.4 OLAF, EPPO and ECA audits and investigations

The following bodies may also carry out checks, reviews, audits and investigations — during the action or afterwards:

- the European Anti-Fraud Office (OLAF) under Regulations No 883/2013²⁰ and No 2185/96²¹
- the European Public Prosecutor's Office (EPPO) under Regulation 2017/1939
- the European Court of Auditors (ECA) under Article 287 of the Treaty on the Functioning of the EU (TFEU) and Article 257 of EU Financial Regulation 2018/1046.

If requested by these bodies, the beneficiary concerned must provide full, accurate and complete information in the format requested (including complete accounts, individual salary statements or other personal data, including in electronic format) and allow access to sites and premises for on-the-spot visits or inspections — as provided for under these Regulations.

To this end, the beneficiary concerned must keep all relevant information relating to the action, at least until the time-limit set out in the Data Sheet (Point 6) and, in any case, until any ongoing checks, reviews, audits, investigations, litigation or other pursuits of claims have been concluded.

25.5 Consequences of checks, reviews, audits and investigations — Extension of results of reviews, audits or investigations

25.5.1 Consequences of checks, reviews, audits and investigations in this grant

Findings in checks, reviews, audits or investigations carried out in the context of this grant may lead to rejections (see Article 27), grant reduction (see Article 28) or other measures described in Chapter 5.

Rejections or grant reductions after the final payment will lead to a revised final grant amount (see Article 22).

Findings in checks, reviews, audits or investigations during the action implementation may lead to a request for amendment (see Article 39), to change the description of the action set out in Annex 1.

Checks, reviews, audits or investigations that find systemic or recurrent errors, irregularities, fraud or breach of obligations in any EU grant may also lead to consequences in other EU grants awarded under similar conditions ('extension to other grants').

Moreover, findings arising from an OLAF or EPPO investigation may lead to criminal prosecution under national law.

25.5.2 Extension from other grants

Results of checks, reviews, audits or investigations in other grants may be extended to this grant, if:

- (a) the beneficiary concerned is found, in other EU grants awarded under similar conditions, to

²⁰ Regulation (EU, Euratom) No 883/2013 of the European Parliament and of the Council of 11 September 2013 concerning investigations conducted by the European Anti-Fraud Office (OLAF) and repealing Regulation (EC) No 1073/1999 of the European Parliament and of the Council and Council Regulation (Euratom) No 1074/1999 (OJ L 248, 18/09/2013, p. 1).

²¹ Council Regulation (Euratom, EC) No 2185/96 of 11 November 1996 concerning on-the-spot checks and inspections carried out by the Commission in order to protect the European Communities' financial interests against fraud and other irregularities (OJ L 292, 15/11/1996, p. 2).

have committed systemic or recurrent errors, irregularities, fraud or breach of obligations that have a material impact on this grant and

- (b) those findings are formally notified to the beneficiary concerned — together with the list of grants affected by the findings — within the time-limit for audits set out in the Data Sheet (see Point 6).

The granting authority will formally notify the beneficiary concerned of the intention to extend the findings and the list of grants affected.

If the extension concerns **rejections of costs or contributions**: the notification will include:

- (a) an invitation to submit observations on the list of grants affected by the findings
- (b) the request to submit revised financial statements for all grants affected
- (c) the correction rate for extrapolation, established on the basis of the systemic or recurrent errors, to calculate the amounts to be rejected, if the beneficiary concerned:
 - (i) considers that the submission of revised financial statements is not possible or practicable or
 - (ii) does not submit revised financial statements.

If the extension concerns **grant reductions**: the notification will include:

- (a) an invitation to submit observations on the list of grants affected by the findings and
- (b) the **correction rate for extrapolation**, established on the basis of the systemic or recurrent errors and the principle of proportionality.

The beneficiary concerned has **60 days** from receiving notification to submit observations, revised financial statements or to propose a duly substantiated **alternative correction method/rate**.

On the basis of this, the granting authority will analyse the impact and decide on the implementation (i.e. start rejection or grant reduction procedures, either on the basis of the revised financial statements or the announced/alternative method/rate or a mix of those; see Articles 27 and 28).

25.6 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, costs or contributions insufficiently substantiated will be ineligible (see Article 6) and will be rejected (see Article 27), and the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

ARTICLE 26 — IMPACT EVALUATIONS

26.1 Impact evaluation

The granting authority may carry out impact evaluations of the action, measured against the objectives and indicators of the EU programme funding the grant.

Such evaluations may be started during implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the coordinator or beneficiaries and will be considered to start on the date of the notification.

If needed, the granting authority may be assisted by independent outside experts.

The coordinator or beneficiaries must provide any information relevant to evaluate the impact of the action, including information in electronic format.

26.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the granting authority may apply the measures described in Chapter 5.

CHAPTER 5 CONSEQUENCES OF NON-COMPLIANCE

SECTION 1 REJECTIONS AND GRANT REDUCTION

ARTICLE 27 — REJECTION OF COSTS AND CONTRIBUTIONS

27.1 Conditions

The granting authority will — at beneficiary termination, interim payment, final payment or afterwards — reject any costs or contributions which are ineligible (see Article 6), in particular following checks, reviews, audits or investigations (see Article 25).

The rejection may also be based on the extension of findings from other grants to this grant (see Article 25).

Ineligible costs or contributions will be rejected.

27.2 Procedure

If the rejection does not lead to a recovery, the granting authority will formally notify the coordinator or beneficiary concerned of the rejection, the amounts and the reasons why. The coordinator or beneficiary concerned may — within 30 days of receiving notification — submit observations if it disagrees with the rejection (payment review procedure).

If the rejection leads to a recovery, the granting authority will follow the contradictory procedure with pre-information letter set out in Article 22.

27.3 Effects

If the granting authority rejects costs or contributions, it will deduct them from the costs or contributions declared and then calculate the amount due (and, if needed, make a recovery; see Article 22).

ARTICLE 28 — GRANT REDUCTION

28.1 Conditions

The granting authority may — at beneficiary termination, final payment or afterwards — reduce the grant for a beneficiary, if:

- (a) the beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed:
 - (i) substantial errors, irregularities or fraud or
 - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.), or
- (b) the beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant (see Article 25).

The amount of the reduction will be calculated for each beneficiary concerned and proportionate to the seriousness and the duration of the errors, irregularities or fraud or breach of obligations, by applying an individual reduction rate to their accepted EU contribution.

28.2 Procedure

If the grant reduction does not lead to a recovery, the granting authority will formally notify the coordinator or beneficiary concerned of the reduction, the amount to be reduced and the reasons why. The coordinator or beneficiary concerned may — within 30 days of receiving notification — submit observations if it disagrees with the reduction (payment review procedure).

If the grant reduction leads to a recovery, the granting authority will follow the contradictory procedure with pre-information letter set out in Article 22.

28.3 Effects

If the granting authority reduces the grant, it will deduct the reduction and then calculate the amount due (and, if needed, make a recovery; see Article 22).

SECTION 2 SUSPENSION AND TERMINATION

ARTICLE 29 — PAYMENT DEADLINE SUSPENSION

29.1 Conditions

The granting authority may — at any moment — suspend the payment deadline if a payment cannot be processed because:

- (a) the required report (see Article 21) has not been submitted or is not complete or additional information is needed

- (b) there are doubts about the amount to be paid (e.g. ongoing audit extension procedure, queries about eligibility, need for a grant reduction, etc.) and additional checks, reviews, audits or investigations are necessary, or
- (c) there are other issues affecting the EU financial interests.

29.2 Procedure

The granting authority will formally notify the coordinator of the suspension and the reasons why.

The suspension will **take effect** the day the notification is sent.

If the conditions for suspending the payment deadline are no longer met, the suspension will be **lifted** — and the remaining time to pay (see Data Sheet, Point 4.2) will resume.

If the suspension exceeds two months, the coordinator may request the granting authority to confirm if the suspension will continue.

If the payment deadline has been suspended due to the non-compliance of the report and the revised report is not submitted (or was submitted but is also rejected), the granting authority may also terminate the grant or the participation of the coordinator (see Article 32).

ARTICLE 30 — PAYMENT SUSPENSION

30.1 Conditions

The granting authority may — at any moment — suspend payments, in whole or in part for one or more beneficiaries, if:

- (a) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed or is suspected of having committed:
 - (i) substantial errors, irregularities or fraud or
 - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.), or
- (b) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant.

If payments are suspended for one or more beneficiaries, the granting authority will make partial payment(s) for the part(s) not suspended. If suspension concerns the final payment, the payment (or recovery) of the remaining amount after suspension is lifted will be considered to be the payment that closes the action.

30.2 Procedure

Before suspending payments, the granting authority will send a **pre-information letter** to the beneficiary concerned:

- formally notifying the intention to suspend payments and the reasons why and
- requesting observations within 30 days of receiving notification.

If the granting authority does not receive observations or decides to pursue the procedure despite the observations it has received, it will confirm the suspension (**confirmation letter**). Otherwise, it will formally notify that the procedure is discontinued.

At the end of the suspension procedure, the granting authority will also inform the coordinator.

The suspension will **take effect** the day after the confirmation notification is sent.

If the conditions for resuming payments are met, the suspension will be **lifted**. The granting authority will formally notify the beneficiary concerned (and the coordinator) and set the suspension end date.

During the suspension, no prefinancing will be paid to the beneficiaries concerned. For interim payments, the periodic reports for all reporting periods except the last one (see Article 21) must not contain any financial statements from the beneficiary concerned (or its affiliated entities). The coordinator must include them in the next periodic report after the suspension is lifted or — if suspension is not lifted before the end of the action — in the last periodic report.

ARTICLE 31 — GRANT AGREEMENT SUSPENSION

31.1 Consortium-requested GA suspension

31.1.1 Conditions and procedure

The beneficiaries may request the suspension of the grant or any part of it, if exceptional circumstances — in particular *force majeure* (see Article 35) — make implementation impossible or excessively difficult.

The coordinator must submit a request for **amendment** (see Article 39), with:

- the reasons why
- the date the suspension takes effect; this date may be before the date of the submission of the amendment request and
- the expected date of resumption.

The suspension will **take effect** on the day specified in the amendment.

Once circumstances allow for implementation to resume, the coordinator must immediately request another **amendment** of the Agreement to set the suspension end date, the resumption date (one day after suspension end date), extend the duration and make other changes necessary to adapt the action to the new situation (see Article 39) — unless the grant has been terminated (see Article 32). The suspension will be **lifted** with effect from the suspension end date set out in the amendment. This date may be before the date of the submission of the amendment request.

During the suspension, no prefinancing will be paid. Costs incurred or contributions for activities implemented during grant suspension are not eligible (see Article 6.3).

31.2 EU-initiated GA suspension

31.2.1 Conditions

The granting authority may suspend the grant or any part of it, if:

- (a) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed or is suspected of having committed:
 - (i) substantial errors, irregularities or fraud or
 - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.), or
- (b) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant
- (c) other:
 - (i) linked action issues: not applicable
 - (ii) due to major delays, the objectives of the action risk to no longer be achieved

31.2.2 Procedure

Before suspending the grant, the granting authority will send a **pre-information letter** to the coordinator:

- formally notifying the intention to suspend the grant and the reasons why and
- requesting observations within 30 days of receiving notification.

If the granting authority does not receive observations or decides to pursue the procedure despite the observations it has received, it will confirm the suspension (**confirmation letter**). Otherwise, it will formally notify that the procedure is discontinued.

The suspension will **take effect** the day after the confirmation notification is sent (or on a later date specified in the notification).

Once the conditions for resuming implementation of the action are met, the granting authority will formally notify the coordinator a **lifting of suspension letter**, in which it will set the suspension end date and invite the coordinator to request an amendment of the Agreement to set the resumption date (one day after suspension end date), extend the duration and make other changes necessary to adapt the action to the new situation (see Article 39) — unless the grant has been terminated (see

Article 32). The suspension will be **lifted** with effect from the suspension end date set out in the lifting of suspension letter. This date may be before the date on which the letter is sent.

During the suspension, no prefinancing will be paid. Costs incurred or contributions for activities implemented during suspension are not eligible (see Article 6.3).

The beneficiaries may not claim damages due to suspension by the granting authority (see Article 33).

Grant suspension does not affect the granting authority's right to terminate the grant or a beneficiary (see Article 32) or reduce the grant (see Article 28).

ARTICLE 32 — GRANT AGREEMENT OR BENEFICIARY TERMINATION

32.1 Consortium-requested GA termination

32.1.1 Conditions and procedure

The beneficiaries may request the termination of the grant.

The coordinator must submit a request for **amendment** (see Article 39), with:

- the reasons why
- the date the consortium ends work on the action ('end of work date') and
- the date the termination takes effect ('termination date'); this date must be after the date of the submission of the amendment request.

The termination will **take effect** on the termination date specified in the amendment.

If no reasons are given or if the granting authority considers the reasons do not justify termination, it may consider the grant terminated improperly.

32.1.2 Effects

The coordinator must — within 60 days from when termination takes effect — submit a **periodic report** (for the open reporting period until termination).

The granting authority will calculate the final grant amount and final payment on the basis of the report submitted and taking into account the costs incurred and contributions for activities implemented before the end of work date (see Article 22). Costs relating to contracts due for execution only after the end of work are not eligible.

If the granting authority does not receive the report within the deadline, only costs and contributions which are included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

Improper termination may lead to a grant reduction (see Article 28).

After termination, the beneficiaries' obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25 (checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

32.2 Consortium-requested beneficiary termination

32.2.1 Conditions and procedure

The coordinator may request the termination of the participation of one or more beneficiaries, on request of the beneficiary concerned or on behalf of the other beneficiaries.

The coordinator must submit a request for **amendment** (see Article 39), with:

- the reasons why
- the opinion of the beneficiary concerned (or proof that this opinion has been requested in writing)
- the date the beneficiary ends work on the action ('end of work date')
- the date the termination takes effect ('termination date'); this date must be after the date of the submission of the amendment request.

If the termination concerns the coordinator and is done without its agreement, the amendment request must be submitted by another beneficiary (acting on behalf of the consortium).

The termination will **take effect** on the termination date specified in the amendment.

If no information is given or if the granting authority considers that the reasons do not justify termination, it may consider the beneficiary to have been terminated improperly.

32.2.2 Effects

The coordinator must — within 60 days from when termination takes effect — submit:

- (i) a **report on the distribution of payments** to the beneficiary concerned
- (ii) a **termination report** from the beneficiary concerned, for the open reporting period until termination, containing an overview of the progress of the work, the financial statement, the explanation on the use of resources, and, if applicable, the certificate on the financial statement (CFS; see Articles 21 and 24.2 and Data Sheet, Point 4.3)
- (iii) a second **request for amendment** (see Article 39) with other amendments needed (e.g. reallocation of the tasks and the estimated budget of the terminated beneficiary; addition of a new beneficiary to replace the terminated beneficiary; change of coordinator, etc.).

The granting authority will calculate the amount due to the beneficiary on the basis of the report submitted and taking into account the costs incurred and contributions for activities implemented before the end of work date (see Article 22). Costs relating to contracts due for execution only after the end of work are not eligible.

The information in the termination report must also be included in the periodic report for the next reporting period (see Article 21).

If the granting authority does not receive the termination report within the deadline, only costs and contributions which are included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

If the granting authority does not receive the report on the distribution of payments within the deadline, it will consider that:

- the coordinator did not distribute any payment to the beneficiary concerned and that
- the beneficiary concerned must not repay any amount to the coordinator.

If the second request for amendment is accepted by the granting authority, the Agreement is **amended** to introduce the necessary changes (see Article 39).

If the second request for amendment is rejected by the granting authority (because it calls into question the decision awarding the grant or breaches the principle of equal treatment of applicants), the grant may be terminated (see Article 32).

Improper termination may lead to a reduction of the grant (see Article 31) or grant termination (see Article 32).

After termination, the concerned beneficiary's obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25 (checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

32.3 EU-initiated GA or beneficiary termination

32.3.1 Conditions

The granting authority may terminate the grant or the participation of one or more beneficiaries, if:

- (a) one or more beneficiaries do not accede to the Agreement (see Article 40)
- (b) a change to the action or the legal, financial, technical, organisational or ownership situation of a beneficiary is likely to substantially affect the implementation of the action or calls into question the decision to award the grant (including changes linked to one of the exclusion grounds listed in the declaration of honour)
- (c) following termination of one or more beneficiaries, the necessary changes to the Agreement (and their impact on the action) would call into question the decision awarding the grant or breach the principle of equal treatment of applicants
- (d) implementation of the action has become impossible or the changes necessary for its continuation would call into question the decision awarding the grant or breach the principle of equal treatment of applicants
- (e) a beneficiary (or person with unlimited liability for its debts) is subject to bankruptcy proceedings or similar (including insolvency, winding-up, administration by a liquidator or court, arrangement with creditors, suspension of business activities, etc.)
- (f) a beneficiary (or person with unlimited liability for its debts) is in breach of social security or tax obligations
- (g) a beneficiary (or person having powers of representation, decision-making or control, or person

essential for the award/implementation of the grant) has been found guilty of grave professional misconduct

- (h) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed fraud, corruption, or is involved in a criminal organisation, money laundering, terrorism-related crimes (including terrorism financing), child labour or human trafficking
- (i) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) was created under a different jurisdiction with the intent to circumvent fiscal, social or other legal obligations in the country of origin (or created another entity with this purpose)
- (j) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed:
 - (i) substantial errors, irregularities or fraud or
 - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.)
- (k) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant (extension of findings from other grants to this grant; see Article 25)
- (l) despite a specific request by the granting authority, a beneficiary does not request — through the coordinator — an amendment to the Agreement to end the participation of one of its affiliated entities or associated partners that is in one of the situations under points (d), (f), (e), (g), (h), (i) or (j) and to reallocate its tasks, or
- (m) other:
 - (i) linked action issues: not applicable
 - (ii) due to major delays, the objectives of the action can no longer be achieved

32.3.2 Procedure

Before terminating the grant or participation of one or more beneficiaries, the granting authority will send a **pre-information letter** to the coordinator or beneficiary concerned:

- formally notifying the intention to terminate and the reasons why and
- requesting observations within 30 days of receiving notification.

If the granting authority does not receive observations or decides to pursue the procedure despite the observations it has received, it will confirm the termination and the date it will take effect (**confirmation letter**). Otherwise, it will formally notify that the procedure is discontinued.

For beneficiary terminations, the granting authority will — at the end of the procedure — also inform the coordinator.

The termination will **take effect** the day after the confirmation notification is sent (or on a later date specified in the notification; ‘termination date’).

32.3.3 Effects

(a) for **GA termination**:

The coordinator must — within 60 days from when termination takes effect — submit a **periodic report** (for the last open reporting period until termination).

The granting authority will calculate the final grant amount and final payment on the basis of the report submitted and taking into account the costs incurred and contributions for activities implemented before termination takes effect (see Article 22). Costs relating to contracts due for execution only after termination are not eligible.

If the grant is terminated for breach of the obligation to submit reports, the coordinator may not submit any report after termination.

If the granting authority does not receive the report within the deadline, only costs and contributions which are included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

Termination does not affect the granting authority’s right to reduce the grant (see Article 28) or to impose administrative sanctions (see Article 34).

The beneficiaries may not claim damages due to termination by the granting authority (see Article 33).

After termination, the beneficiaries’ obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25 (checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

(b) for **beneficiary termination**:

The coordinator must — within 60 days from when termination takes effect — submit:

- (i) a **report on the distribution of payments** to the beneficiary concerned
- (ii) a **termination report** from the beneficiary concerned, for the open reporting period until termination, containing an overview of the progress of the work, the financial statement, the explanation on the use of resources, and, if applicable, the certificate on the financial statement (CFS; see Articles 21 and 24.2 and Data Sheet, Point 4.3)
- (iii) a **request for amendment** (see Article 39) with any amendments needed (e.g. reallocation of the tasks and the estimated budget of the terminated beneficiary; addition of a new beneficiary to replace the terminated beneficiary; change of coordinator, etc.).

The granting authority will calculate the amount due to the beneficiary on the basis of the

report submitted and taking into account the costs incurred and contributions for activities implemented before termination takes effect (see Article 22). Costs relating to contracts due for execution only after termination are not eligible.

The information in the termination report must also be included in the periodic report for the next reporting period (see Article 21).

If the granting authority does not receive the termination report within the deadline, only costs and contributions included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

If the granting authority does not receive the report on the distribution of payments within the deadline, it will consider that:

- the coordinator did not distribute any payment to the beneficiary concerned and that
- the beneficiary concerned must not repay any amount to the coordinator.

If the request for amendment is accepted by the granting authority, the Agreement is **amended** to introduce the necessary changes (see Article 39).

If the request for amendment is rejected by the granting authority (because it calls into question the decision awarding the grant or breaches the principle of equal treatment of applicants), the grant may be terminated (see Article 32).

After termination, the concerned beneficiary's obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25 (checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

SECTION 3 OTHER CONSEQUENCES: DAMAGES AND ADMINISTRATIVE SANCTIONS

ARTICLE 33 — DAMAGES

33.1 Liability of the granting authority

The granting authority cannot be held liable for any damage caused to the beneficiaries or to third parties as a consequence of the implementation of the Agreement, including for gross negligence.

The granting authority cannot be held liable for any damage caused by any of the beneficiaries or other participants involved in the action, as a consequence of the implementation of the Agreement.

33.2 Liability of the beneficiaries

The beneficiaries must compensate the granting authority for any damage it sustains as a result of the implementation of the action or because the action was not implemented in full compliance with the Agreement, provided that it was caused by gross negligence or wilful act.

The liability does not extend to indirect or consequential losses or similar damage (such as loss of

profit, loss of revenue or loss of contracts), provided such damage was not caused by wilful act or by a breach of confidentiality.

ARTICLE 34 — ADMINISTRATIVE SANCTIONS AND OTHER MEASURES

Nothing in this Agreement may be construed as preventing the adoption of administrative sanctions (i.e. exclusion from EU award procedures and/or financial penalties) or other public law measures, in addition or as an alternative to the contractual measures provided under this Agreement (see, for instance, Articles 135 to 145 EU Financial Regulation 2018/1046 and Articles 4 and 7 of Regulation 2988/95²²).

SECTION 4 FORCE MAJEURE

ARTICLE 35 — FORCE MAJEURE

A party prevented by force majeure from fulfilling its obligations under the Agreement cannot be considered in breach of them.

‘Force majeure’ means any situation or event that:

- prevents either party from fulfilling their obligations under the Agreement,
- was unforeseeable, exceptional situation and beyond the parties’ control,
- was not due to error or negligence on their part (or on the part of other participants involved in the action), and
- proves to be inevitable in spite of exercising all due diligence.

Any situation constituting force majeure must be formally notified to the other party without delay, stating the nature, likely duration and foreseeable effects.

The parties must immediately take all the necessary steps to limit any damage due to force majeure and do their best to resume implementation of the action as soon as possible.

CHAPTER 6 FINAL PROVISIONS

ARTICLE 36 — COMMUNICATION BETWEEN THE PARTIES

36.1 Forms and means of communication — Electronic management

EU grants are managed fully electronically through the EU Funding & Tenders Portal (‘Portal’).

All communications must be made electronically through the Portal, in accordance with the Portal Terms and Conditions and using the forms and templates provided there (except if explicitly instructed otherwise by the granting authority).

²² Council Regulation (EC, Euratom) No 2988/95 of 18 December 1995 on the protection of the European Communities financial interests (OJ L 312, 23.12.1995, p. 1).

Communications must be made in writing and clearly identify the grant agreement (project number and acronym).

Communications must be made by persons authorised according to the Portal Terms and Conditions. For naming the authorised persons, each beneficiary must have designated — before the signature of this Agreement — a ‘legal entity appointed representative (LEAR)’. The role and tasks of the LEAR are stipulated in their appointment letter (see Portal Terms and Conditions).

If the electronic exchange system is temporarily unavailable, instructions will be given on the Portal.

36.2 Date of communication

The sending date for communications made through the Portal will be the date and time of sending, as indicated by the time logs.

The receiving date for communications made through the Portal will be the date and time the communication is accessed, as indicated by the time logs. Formal notifications that have not been accessed within 10 days after sending, will be considered to have been accessed (see Portal Terms and Conditions).

If a communication is exceptionally made on paper (by e-mail or postal service), general principles apply (i.e. date of sending/receipt). Formal notifications by registered post with proof of delivery will be considered to have been received either on the delivery date registered by the postal service or the deadline for collection at the post office.

If the electronic exchange system is temporarily unavailable, the sending party cannot be considered in breach of its obligation to send a communication within a specified deadline.

36.3 Addresses for communication

The Portal can be accessed via the Europa website.

The address for paper communications to the granting authority (if exceptionally allowed) is the official mailing address indicated on its website.

For beneficiaries, it is the legal address specified in the Portal Participant Register.

ARTICLE 37 — INTERPRETATION OF THE AGREEMENT

The provisions in the Data Sheet take precedence over the rest of the Terms and Conditions of the Agreement.

Annex 5 takes precedence over the Terms and Conditions; the Terms and Conditions take precedence over the Annexes other than Annex 5.

Annex 2 takes precedence over Annex 1.

ARTICLE 38 — CALCULATION OF PERIODS AND DEADLINES

In accordance with Regulation No 1182/71²³, periods expressed in days, months or years are calculated from the moment the triggering event occurs.

The day during which that event occurs is not considered as falling within the period.

‘Days’ means calendar days, not working days.

ARTICLE 39 — AMENDMENTS

39.1 Conditions

The Agreement may be amended, unless the amendment entails changes to the Agreement which would call into question the decision awarding the grant or breach the principle of equal treatment of applicants.

Amendments may be requested by any of the parties.

39.2 Procedure

The party requesting an amendment must submit a request for amendment signed directly in the Portal Amendment tool.

The coordinator submits and receives requests for amendment on behalf of the beneficiaries (see Annex 3). If a change of coordinator is requested without its agreement, the submission must be done by another beneficiary (acting on behalf of the other beneficiaries).

The request for amendment must include:

- the reasons why
- the appropriate supporting documents and
- for a change of coordinator without its agreement: the opinion of the coordinator (or proof that this opinion has been requested in writing).

The granting authority may request additional information.

If the party receiving the request agrees, it must sign the amendment in the tool within 45 days of receiving notification (or any additional information the granting authority has requested). If it does not agree, it must formally notify its disagreement within the same deadline. The deadline may be extended, if necessary for the assessment of the request. If no notification is received within the deadline, the request is considered to have been rejected.

An amendment **enters into force** on the day of the signature of the receiving party.

An amendment **takes effect** on the date of entry into force or other date specified in the amendment.

ARTICLE 40 — ACCESSION AND ADDITION OF NEW BENEFICIARIES

²³ Regulation (EEC, Euratom) No 1182/71 of the Council of 3 June 1971 determining the rules applicable to periods, dates and time-limits (OJ L 124, 8/6/1971, p. 1).

40.1 Accession of the beneficiaries mentioned in the Preamble

The beneficiaries which are not coordinator must accede to the grant by signing the accession form (see Annex 3) directly in the Portal Grant Preparation tool, within 30 days after the entry into force of the Agreement (see Article 44).

They will assume the rights and obligations under the Agreement with effect from the date of its entry into force (see Article 44).

If a beneficiary does not accede to the grant within the above deadline, the coordinator must — within 30 days — request an amendment (see Article 39) to terminate the beneficiary and make any changes necessary to ensure proper implementation of the action. This does not affect the granting authority's right to terminate the grant (see Article 32).

40.2 Addition of new beneficiaries

In justified cases, the beneficiaries may request the addition of a new beneficiary.

For this purpose, the coordinator must submit a request for amendment in accordance with Article 39. It must include an accession form (see Annex 3) signed by the new beneficiary directly in the Portal Amendment tool.

New beneficiaries will assume the rights and obligations under the Agreement with effect from the date of their accession specified in the accession form (see Annex 3).

Additions are also possible in mono-beneficiary grants.

ARTICLE 41 — TRANSFER OF THE AGREEMENT

In justified cases, the beneficiary of a mono-beneficiary grant may request the transfer of the grant to a new beneficiary, provided that this would not call into question the decision awarding the grant or breach the principle of equal treatment of applicants.

The beneficiary must submit a request for **amendment** (see Article 39), with

- the reasons why
- the accession form (see Annex 3) signed by the new beneficiary directly in the Portal Amendment tool and
- additional supporting documents (if required by the granting authority).

The new beneficiary will assume the rights and obligations under the Agreement with effect from the date of accession specified in the accession form (see Annex 3).

ARTICLE 42 — ASSIGNMENTS OF CLAIMS FOR PAYMENT AGAINST THE GRANTING AUTHORITY

The beneficiaries may not assign any of their claims for payment against the granting authority to any third party, except if expressly approved in writing by the granting authority on the basis of a reasoned, written request by the coordinator (on behalf of the beneficiary concerned).

If the granting authority has not accepted the assignment or if the terms of it are not observed, the assignment will have no effect on it.

In no circumstances will an assignment release the beneficiaries from their obligations towards the granting authority.

ARTICLE 43 — APPLICABLE LAW AND SETTLEMENT OF DISPUTES

43.1 Applicable law

The Agreement is governed by the applicable EU law, supplemented if necessary by the law of Belgium.

Special rules may apply for beneficiaries which are international organisations (if any; see Data Sheet, Point 5).

43.2 Dispute settlement

If a dispute concerns the interpretation, application or validity of the Agreement, the parties must bring action before the EU General Court — or, on appeal, the EU Court of Justice — under Article 272 of the Treaty on the Functioning of the EU (TFEU).

For non-EU beneficiaries (if any), such disputes must be brought before the courts of Brussels, Belgium — unless an international agreement provides for the enforceability of EU court judgements.

For beneficiaries with arbitration as special dispute settlement forum (if any; see Data Sheet, Point 5), the dispute will — in the absence of an amicable settlement — be settled in accordance with the Rules for Arbitration published on the Portal.

If a dispute concerns administrative sanctions, offsetting or an enforceable decision under Article 299 TFEU (see Articles 22 and 34), the beneficiaries must bring action before the General Court — or, on appeal, the Court of Justice — under Article 263 TFEU.

For grants where the granting authority is an EU executive agency (see Preamble), actions against offsetting and enforceable decisions must be brought against the European Commission (not against the granting authority; see also Article 22).

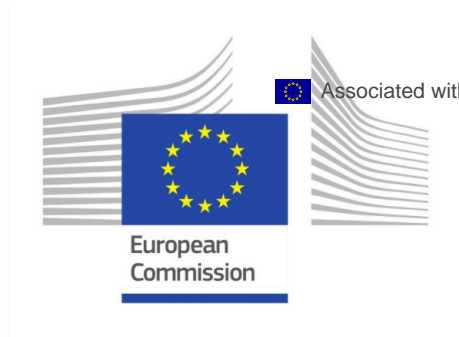
ARTICLE 44 — ENTRY INTO FORCE

The Agreement will enter into force on the day of signature by the granting authority or the coordinator, depending on which is later.

SIGNATURES

For the coordinator

For the granting authority



ANNEX 1



Connecting Europe Facility (CEF)

Description of the action (DoA)

Part A

Part B

DESCRIPTION OF THE ACTION (PART A)

COVER PAGE

Part A of the Description of the Action (DoA) must be completed directly on the Portal Grant Preparation screens.

PROJECT	
<i>Grant Preparation (General Information screen) — Enter the info.</i>	
Project number:	101175465
Project name:	inteGrated modeRnisation of the EuropEan Network for CNS
Project acronym:	23-EU-TG-GREEN CNS
Call:	CEF-T-2023-SIMOBGEN
Topic:	CEF-T-2023-SIMOBGEN-SESAR-OP-WORKS
Type of action:	CEF-INFRA
Service:	CINEA/B/02
Project starting date:	fixed date: 1 February 2024
Project duration:	59 months

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Staff effort	22
List of deliverables	23
List of milestones (outputs/outcomes)	45
List of critical risks	53

PROJECT SUMMARY

Project summary

Grant Preparation (General Information screen) — Provide an overall description of your project (including context and overall objectives, planned activities and main achievements, and expected results and impacts (on target groups, change procedures, capacities, innovation etc)). This summary should give readers a clear idea of what your project is about.

Use the project summary from your proposal.

The GREEN CNS project supports the modernisation and optimisation of the pan-European Communication, Navigation and Surveillance (CNS) infrastructure, by engaging 30 stakeholders.

GREEN CNS will actively contribute to the wider framework of the CNS evolution in Europe and consequently improve the overall efficiency of Air Traffic Management (ATM) operations throughout the European airspace.

The project aligns closely with the objectives of the TEN-T framework by “promoting an efficient use” of the EU aviation infrastructure and supporting the “operation of sustainable and efficient transport services”. The project focused on the three main pillars (Communications, Navigation and Surveillance - CNS) contributing to create a safer, more effective, resilient, secure, cost-efficient, and especially environmentally sustainable ATM industry in Europe.

Each work package, in close coordination with the other ones, will provide valuable contribution and benefits to the overall European CNS infrastructure in terms of efficiency, resilience, safety and environmental sustainability. Additionally, these work packages will generate expertise and best practices supporting the overall decarbonisation objectives of the EU.

Moreover, the expected results of these work packages, each of them focused on one specific CNS area, will generate significant benefits opening the door to the rationalisation, replacement and decommissioning of energy-intensive legacy infrastructure, leading to additional energy savings and contributing to the reduction of the overall carbon footprint of ATM operations.

In full alignment with the priorities of the SIMOBGEN Call text, the project addresses three domains:

- COM domain: the 2023_100_COM WP is set to improve the way the existing communication infrastructure is used by operational stakeholders and to address the existing operational issues and limitations of datalink services.
- SUR domain: the 2023_200_SUR_EUR and OMR WPs are set to accelerate deployment of ADS-B surveillance systems and sensors across Europe (i.e. across Lithuania, Portugal (Azores) and Spain (including the Canary Islands), whilst also supporting the upgrade of 69 general aviation aircraft with ADS-B avionics.
- NAV domain: the 2023_300_NAV WP will set an important milestone to accelerate the adoption of Performance Based Navigation through the implementation of SIDs and STAR routes in 15 TMAs (Terminal Manoeuvring Areas) in Europe (accommodating around 550.000 flights per year), whilst also supporting SBAS equipage of six of the largest EU airlines with new-generation avionics.

Moreover, these WPs directly engage and support the ANSP (Air Navigation Service Provider) of Ukraine, to further anchor and integrate Ukraine within the Trans-European network by modernising its navigation and surveillance infrastructure.

When combined, the WPs of this project will support the modernisation and optimisation of CNS infrastructure on the European continent; they contribute to making ATM operations in Europe more efficient, accomplish the decommissioning of surplus terrestrial infrastructure and support the transition of the European Aviation industry towards greener, safer, more integrated, and more efficient operations in the short-term.

LIST OF PARTICIPANTS

PARTICIPANTS					
<i>Grant Preparation (Beneficiaries screen) — Enter the info.</i>					
Number	Role	Short name	Legal name	Country	PIC
1	COO	EUROCONTROL	EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION	BE	999483733
2	BEN	ACI EUROPE	EUROPEAN REGION OF THE AIRPORTS COUNCIL INTERNATIONAL	BE	888337447
3	BEN	AIR FRANCE	AIR FRANCE SA	FR	937590070
3.1	AE	Transavia	TRANSAVIA FRANCE SAS	FR	990013914
3.2	AE	HOP	HOP!	FR	910702446
4	BEN	Croatia Control	HRVATSKA KONTROLA ZRACNE PLOVIDBE DOO	HR	924128216
5	BEN	Lufthansa	DEUTSCHE LUFTHANSA AKTIENGESELLSCHAFT	DE	999965532
6	BEN	DFS	DFS DEUTSCHE FLUGSICHERUNG GMBH	DE	999936820
7	BEN	DSNA	DIRECTION DES SERVICES DE LA NAVIGATION AERIENNE	FR	928673636
8	BEN	EEAG	EASYJET EUROPE AIRLINE GMBH	AT	888316786
9	BEN	ENAIRES	ENAIRES	ES	997701843
10	BEN	ENAV	ENAV SPA	IT	998197513
11	BEN	HUNGAROCONTROL	HUNGAROCONTROL MAGYAR LEGIFORGALMISZOLGALAT ZARTKORUEN MUKODO RESZVENYTARSASAG	HU	941767472
12	BEN	AIRNAV Ireland	THE IRISH AIR NAVIGATION SERVICE	IE	881850281
13	BEN	LFV	LUFTFARTSVERKET	SE	942346077
14	BEN	NAV PORTUGAL	NAVEGACAO AEREA DE PORTUGAL - NAV PORTUGAL EPE	PT	955596471
15	BEN	NAVIAIR	NAVIAIR	DK	923671249
16	BEN	PANSA	POLSKA AGENCJA ZEGLUGI POWIETRZNEJ	PL	995562023
17	BEN	ROMATSA	ADMINISTRATIA ROMANA A SERVICIILOR DE TRAFIC AERIAN	RO	953538325
18	BEN	RYANAIR	RYANAIR DESIGNATED ACTIVITY COMPANY	IE	913857177
19	BEN	BULATSA	DARJAVNO PREDPRIYATIE RAKOVODSTVO NA VAZDUSHNOTO DVIJENIE TPP	BG	958046400
20	BEN	Austro Control	AUSTRO CONTROL OSTERREICHISCHE GESELLSCHAFT FUR ZIVILLUFTFAHRT MBH	AT	998956635
21	BEN	SWED	SWEDAVIA AB	SE	984282281
22	BEN	RACE	REAL AERO CLUB DE ESPANA	ES	884253747
23	BEN	ORO NAVIGACIJA	AKCINE BENDROVE ORO NAVIGACIJA	LT	919915991

PARTICIPANTS*Grant Preparation (Beneficiaries screen) — Enter the info.*

Number	Role	Short name	Legal name	Country	PIC
24	BEN	KLM	KONINKLIJKE LUCHTVAART MAATSCHAPPIJNV	NL	997594658
25	BEN	ACRIV	AERO CLUB DE RENNES - ILLE ET VILAINE	FR	880313801
26	BEN	UKSATSE	UKRAINIAN STATE AIR TRAFFIC SERVICES ENTERPRISE	UA	884862131
27	BEN	TAP	TRANSPORTES AEREOS PORTUGUESES SA	PT	970170333
28	AP	SKYGUIDE	SKYGUIDE, SA SUISSE POUR LES SERVICES DE LA NAVIGATION AERIENNE CIVILS ET MILITAIRES	CH	958184334

LIST OF WORK PACKAGES

Work packages						
<i>Grant Preparation (Work Packages screen) — Enter the info.</i>						
Work Package No	Work Package name	Lead Beneficiary	Effort (Person-Months)	Start Month	End Month	Deliverables
WP1	Project Coordination	1 - EUROCONTROL	0.00	1	59	D1.1 – Internal Consortium Guidelines for Project Execution D1.2 – Project Communication Plan D1.3 – Technical Progress Report 1 D1.4 – Technical Progress Report 2
WP2	2023_100_COM	3 - AIR FRANCE	0.00	1	59	D2.1 – Deployment verification report of 60 A350 aircraft D2.2 – Deployment verification report of new ACMS and engine settings, and ACARS over IP in A220 and A350 D2.3 – Deployment verification report of 71 Boeing 737 upgraded with Honeywell CMU 514 D2.4 – Deployment verification report of new ACMS and engine settings, and ACARS over IP in A320 NEO D2.5 – Certificate of Release to Service of 21 A320/321NEO aircraft equipped with ACARS over IP D2.6 – Certificate of Release to Service of 42 A320/321NEO aircraft equipped with ACARS over IP D2.7 – Aircraft upgrade status report Boeing 747-8 aircraft D2.8 – EUROCONTROL Datalink Logon list D2.9 – Certificate of Release to Service

Work packages						
<i>Grant Preparation (Work Packages screen) — Enter the info.</i>						
Work Package No	Work Package name	Lead Beneficiary	Effort (Person-Months)	Start Month	End Month	Deliverables
						of 188 Boeing 737 aircraft equipped with communication technology D2.10 – Certificate of Release to Service of 377 Boeing 737 equipped aircraft D2.11 – Certificate of Release to Service of 36 aircraft equipped with AoIP capability D2.12 – Certificate of release to service of 32 equipped aircraft with the interconnection between the FOMAX system and the Cabin internet connection
WP3	2023_200_SUR_EUR	9 - ENAIRE	0.00	1	59	D3.1 – Zaragoza SAT reports D3.2 – Secondary Airfield Rozas SAT report D3.3 – Southern Regions of Spain stations SAT report (potentially Sevilla, Cordoba, and Melilla) D3.4 – Secondary Airfield station SAT report (potentially Almeria) D3.5 – Certificate of Release to Service of 15 aircraft equipped with ADS-B D3.6 – Certificate of Release to Service of 30 aircraft equipped with ADS-B D3.7 – Certificate of Release to Service of 65 aircraft equipped with ADS-B D3.8 – Initial safety case report D3.9 – Site Acceptance test for ADS-B infrastructure report D3.10 – Certificate of Release to Service of 4 upgraded aircraft D3.11 – CONOPS document

Work packages						
<i>Grant Preparation (Work Packages screen) — Enter the info.</i>						
Work Package No	Work Package name	Lead Beneficiary	Effort (Person-Months)	Start Month	End Month	Deliverables
WP4	2023_200_SUR_OMR	9 - ENAIRE	0.00	1	59	D4.1 – Site Acceptance Test Canary Islands D4.2 – Site Acceptance Test Mauritania D4.3 – Site Acceptance Test Azores
WP5	2023_300_NAV	5 - Lufthansa	0.00	1	59	D5.1 – Certificate of Release to Service of 2 A350-900 aircraft (retrofit) D5.2 – Certificate of Release to Service of 5 A350-1000 aircraft (forwardfit) D5.3 – Certificate of Release to service of 5 A350-1000 aircraft (retrofit) D5.4 – Certificate of Release to Service of 4 A350-900 aircraft (retrofit) D5.5 – Certificate of Release to Service of 10 A350-900 aircraft (forwardfit) D5.6 – Certificate of Release to Service of 10 A350-1000 aircraft (forward fit) D5.7 – Deployment verification report of 17 Embraer aircraft equipped with SBAS LPV solution D5.8 – Deployment verification report of 34 Embraer aircraft equipped with SBAS LPV solution D5.9 – Deployment verification report of 16 A350 aircraft equipped with SBAS D5.10 – Deployment verification report of 30 A350 aircraft equipped with SBAS D5.11 – Deployment verification report of 34 A320NEO aircraft equipped with SBAS D5.12 – Deployment verification report of A320 NEO aircraft equipped with SBAS D5.13 – Certificate of release to service of

Work packages						
<i>Grant Preparation (Work Packages screen) — Enter the info.</i>						
Work Package No	Work Package name	Lead Beneficiary	Effort (Person-Months)	Start Month	End Month	Deliverables
						21 A320/A321 NEO aircraft equipped with SBAS D5.14 – Certificate of release to service of 13 A350 aircraft equipped with SBAS D5.15 – Certificate of release to service of 15 Boeing 777 aircraft equipped with SBAS D5.16 – Certificate of release to service of 14 Boeing 787 aircraft equipped with SBAS D5.17 – Certificate of release to service of 21 Boeing 737 aircraft equipped with second FMC D5.18 – Certificate of release to service of 42 A320/A321 NEO aircraft equipped with SBAS D5.19 – Certificate of release to service of 26 A350 aircraft equipped with SBAS D5.20 – Certificate of release to service of 31 Boeing 777 aircraft equipped with SBAS D5.21 – Certificate of release to service of 28 Boeing 787 aircraft equipped with SBAS D5.22 – Certificate of release to service of 42 Boeing 737 aircraft equipped with a second FMC D5.23 – Certificate of release to service of 49 A320 aircraft equipped with SBAS LPV capabilities D5.24 – Certificate of release to service of 98 A320 aircraft equipped with SBAS LPV capabilities D5.25 – AIP publication - ENAIRE

Work packages*Grant Preparation (Work Packages screen) — Enter the info.*

Work Package No	Work Package name	Lead Beneficiary	Effort (Person-Months)	Start Month	End Month	Deliverables
						D5.26 – AIP Publication of new Lithuanian Airspace and Cross-Border airspace D5.27 – AIP publication - SWED D5.28 – Report / conclusions on the most suitable IFPD software for UKSATSE D5.29 – FDP Software Acceptance Test document

Work package WP1 – Project Coordination

Work Package Number	WP1	Lead Beneficiary	1 - EUROCONTROL
Work Package Name	Project Coordination		
Start Month	1	End Month	59

Objectives
<p>The general objective of Work Package 1 (WP1) is to ensure the efficient and effective coordination of the project to be conducted in accordance with the relevant provisions of the GA.</p> <p>The WP including the coordination plan of the project is managed by Eurocontrol on behalf of the SESAR Deployment & Infrastructure Partnership (SDIP) that has been appointed as the Sesar Deployment Manager (SDM) by the European Commission in 2022. SDIP is a partnership without a legal entity which is why the European Organisation For The Safety Of Air Navigation (EUROCONTROL) is the formal coordinator of the partnership and the project.</p> <p>The specific objectives of WP1 are:</p> <ul style="list-style-type: none"> - to deliver the project objectives within time, resource and budget constraints; - to align the project execution with the EU aviation policy-level objectives, CEF priorities and SDM mission (according to Regulation (EU) 409/2013, CP1, SDP); - to identify and mitigate any risks for the project execution and monitor the impact of the mitigation measures; - to identify innovative solutions and approaches, based on industry best practices and experience sharing among the different partners; - to efficiently lead multi-stakeholder and multinational project teams. <p>All the beneficiaries contributing to the implementation of WP1 will provide the necessary inputs related to technical achievements, timing, financial and administrative requirements to the coordinator, based on their expertise. The coordinator will be responsible for providing continuous support to the beneficiaries on administrative, financial or technical matters throughout the duration of the project, in alignment with CEF procedures and rules and in line with the provisions of the GA.</p>

Description
<p>The following five main tasks will be implemented:</p> <p>Task 1.1 Project Coordination: The coordinator will be in charge of ensuring that the project pursues the expected objectives, verifying that the project execution is in line with the Grant Agreement (GA) provisions, relevant Regulations and CEF rules and procedures, in terms of technical achievements, timing, financial and administrative requirements, providing continuous support to Implementing Partners (IPPs) throughout the whole duration of the project.</p> <p>Task 1.2 Project monitoring and reporting: The coordinator will monitor the project execution in order to ensure its implementation in accordance with the GA through:</p> <ul style="list-style-type: none"> - Continuous monitoring: The coordinator will ensure the continuous monitoring of the project through “continuous interactions” with IPPs. These interactions will be managed through the Programme Management Tool: SESAR Tool for ATM Rollout (STAR). Thanks to the continuous monitoring, the coordinator is in the position to promptly detect any potential threat affecting deadlines’ compliance. This continuous interaction will allow the coordinator to update on a regular basis the Continuous reporting module in the EU funding and tenders portal, updating it every time a milestone is achieved, uploading deliverables, following-up and updating critical risks, managing the dissemination and communication activities and any relevant project progress. This information will contribute to feed the two progress reports foreseen for this project. - Periodic reporting during project duration: the coordinator will submit two Periodic Reports and one Final Report within 60 days from the end of each reporting period. The technical and financial data related to the WPs will be collected from IPPs during the end of the year’s monitoring window. As such, IPPs must comply with the information requests to allow the elaboration of the relevant reports. - Progress reports: The coordinator will submit two intermediate technical progress reports in order to monitor the progress of the project, based on the information that IPPs will provide during the end of the year’s monitoring window. - Performance analysis: The coordinator estimates cost benefit analysis first according to its top-down model and later taking into consideration the interactions with the IP leaders as described in the SDP Annex D. To perform this task, SDM creates groupings of projects whose benefits are inter-related: these groupings are called "threads". The benefits

of these IPs can only be assessed as a whole, at thread level, and not separately, at project level. As threads in many cases are composed of IPs belonging to different projects, the benefits of the threads can be apportioned to specific projects. Therefore, SDM will perform CBA/Performance analysis at thread level, also providing a view for each of the projects under execution.

- Quality Management: the quality management process handled by the coordinator encompasses three different elements: quality planning; quality assurance and quality control.

Task 1.3 Financial management: The coordinator will ensure the financial management of the project, specifically establishing payment requests in accordance with the GA. Financial management includes all relevant tasks underpinning project payments, checks and audits and will be conducted by the coordinator in accordance with the relevant GA provisions. The coordinator will also bear responsibility for providing all the necessary documents in the event of checks and audits initiated before the payment of the balance, and in the event of evaluation.

Task 1.4 Project information management: The coordinator will be the intermediary for the communications between the partners and CINEA. This task covers any potential adjustment or amendment of the GA to be put in place. Such process will be managed by the coordinator, in close cooperation with all IPPs and CINEA and in full alignment with the GA provisions.

Task 1.5 Communication management for stakeholder support: The coordinator will provide IPPs with the below communication tools to support them during the execution. Next to the permanent bilateral communication and roadmaps, SDM will put in place a set of supporting tools, differentiating between actively pushed information, information that can be pulled at any time and interactive support: events, workshops & meetings; dedicated communication tools, such as SDM website; videos, tutorials and webstreams; dedicated email address; frequently asked questions; bimonthly newsletter; SDM partner area; STAR (the cooperative coordination, synchronisation and monitoring tool will be the main online tool for the IPPs to interact with the coordinator for the project execution); dedicated e-mailing.

In order to carry out its work, SDIP Consortium, specifically EUROCONTROL, in its role of Consortium coordinator, and ACI Europe, have contracted several time-based consultants. These resources will provide support on all SDM WP1 coordination tasks, milestones, and deliverables.

Eligible costs under WP1, WP2, WP3 and WP5 will be reimbursed at a maximum of 50% whereas eligible costs under WP4 will be reimbursed at a maximum of 70% in line with the conditions stipulated in the 2023 Transport Call SIMOBGEN for the SESAR topic related to Other Projects under which the project was selected.

Work package WP2 – 2023_100_COM

Work Package Number	WP2	Lead Beneficiary	3 - AIR FRANCE
Work Package Name	2023_100_COM		
Start Month	1	End Month	59

Objectives

The general objective of Work Package 2 (WP2) is to increase and sustain datalink performance in Europe, thanks to the contribution of major stakeholders, acting on the following complementary levels:

First level of action is the upgrade of identified poor performing avionic equipment:

- Eurocontrol Datalink Support Group (DSG) identifies a list of avionic upgrades which allow to fix datalink performances issues, and to update NSAP (Network Service Access Point) databases needed to logon to all European FIRs (Flight Information Region). This WP aims at installing these avionic upgrades as identified by DSG.

Second level is to secure VDL2 bandwidth:

- VDL-2 link is used simultaneously by ATC (Air Traffic Control) and AOC (Aeronautical Operational Control) services and applications. AOC constitutes a major part of bandwidth usage whereas ATC applications, such as CPDLC (Controller-Pilot Data Link Communications) or ADS-C/EPP which is subject to implementation under CP1, are more sensitive regarding safety and technical performance. The volume of AOC data that is sent over VDL-2 is continuously growing and studies have shown that the network will experience performance degradation locally in response to link saturation before the end of the decade.

The specific objective of WP2 is to deploy solutions to reduce AOC data over VDL-2 link, in accordance with recommendations provided by Eurocontrol DSG “Usage Guidelines Task Force”, in coordination with aircraft and engine manufacturers: in particular AOC optimisation, ACMS (Aircraft Condition Monitoring System) and engine report redesign, offloading AOC traffic from VDL-2 to off-the-shelf technologies.

Air France SA (AIR FRANCE)

AIR FRANCE aims at developing and implementing tasks identified by DSG AOC Usage Guidelines Task Force, in particular:

- optimising ACMS (Aircraft Condition Monitoring System) and Engine reports in coordination with aircraft and engine manufacturers;
- deploying ACARS over IP function and compression of AOC messages;
- offloading AOC to Off-the-shelf communication technologies.

Transavia France SAS (Transavia)

Transavia aims at developing and implementing deployment actions identified by DSG AOC Usage Guidelines Task Force, in particular:

- optimising ACMS (Aircraft Condition Monitoring System) and Engine reports in coordination with aircraft and engine manufacturers;
- deploying ACARS over IP function;
- offloading AOC to Off-the-shelf communication technologies.

Koninklijke Luchtvaart Maatschappij (KLM)

KLM aims at upgrading avionics for Datalink avionics to resolve interoperability issues and optimise AOC offload, in particular:

- equipping 42 A320/321 NEO aircraft with ACARS over IP;
- updating the 'KLM Post office' architecture allowing the correct reception and distribution of the aircraft data into the KLM legacy software to accommodate the ACARS over IP data stream;
- training pilots on the ACARS over IP feature installed.

Deutsche Lufthansa Aktiengesellschaft (Lufthansa)

Lufthansa aims at updating the datalink communication system of 19 747-8 Lufthansa German Airlines (DLH) Boeing aircraft to best-in-class software, because the current router software installed is identified as non-performing in the DSG action items.

These aircraft upgrades will:

- solve the ATN Controller Pilot Datalink Communication problems with the current installation (Core Software 998-6063-521) identified in DSG6 Deployment Action 7;
- make the DLH 747-8 fleet ATN CPDLC capable but excluded from the use of CPDLC where the ANSP applies logon lists. The fleet is exempted from CIR 29/2009 replaced by CIR 2023/1770 because it was equipped with FANS 1/A on 01 JAN 2018;
- allow the use of ATN Datalink through entire Europe and by that provide the identified benefits in all ACCs.

RYANAIR Designated Activity Company (RYANAIR)

RYANAIR aims at offloading non-time critical data when the aircraft are on the ground. In this context, Ryanair aims at upgrading 377 Boeing 737-NG aircraft avionics to offload AOC data (ACMS, engine reports, etc) to off-the-shelf communication technology. The testing of the new avionics developed by the supplier is part of the implementation.

Transportes Aereos Portugueses SA (TAP)

TAP aims at developing and implementing the deployment of several actions that are in line with the DSG AOC Usage Guidelines Task Force. These actions aim to introduce several improvements, such as the optimisation of Aircraft Condition Monitoring System (ACMS) and Engine reports with possible input from aircraft and engine manufacturers, and the deployment of the ACARS over IP (AoIP) function allowing the offload to Off-the-shelf communication technologies.

This includes in particular:

- assessing and optimising of AOC messages to allow the reduction of the volume of data to be transferred;
- optimising of the timing of AOC message transfers to allow the use of other communication technologies (e.g., use of 4G on the ground);
- deploying the necessary IT systems on the ground to make use of the AoIP functions on TAP’s fleet;
- deploying AoIP capabilities on 36 TAP’s fleet in-service aircraft, by installing purchased equipment during the aircraft planned immobilisations in the hangar.

Description
<p>All the beneficiaries participating in the implementation of WP2 are committed to carrying out their tasks according to the project plan, providing inputs on technical achievements, timing, financial and administrative requirements. AIR FRANCE, as WP leader, will ensure proper monitoring of WP2 by holding regular meetings with the other participants (KLM, Lufthansa, RYANAIR and TAP). These meetings will focus on coordinating reporting activities, ensuring alignment among participants, identifying issues and jointly applying mitigation actions as well as sharing experiences and best practices. SDM will also provide expertise and support to the beneficiaries on administrative, financial or technical matters, throughout the duration of the project, and coordinate any specific request received from CINEA/EC.</p> <p>WP2 outcomes will contribute to improved usage of scarce resources and more efficient flight and airspace operations by eliminating known causes of CPDLC Provider aborts in ATN (Aeronautical telecommunication Network) over VDL (VHF Data Link) Mode 2 and, through the application of more modern communication protocols, the project will contribute towards conserving the bandwidth of VDL mode 2 network as is needed for the introduction of Initial air-ground trajectory information sharing as mandated for implementation by CP1.</p> <p>WP2 includes the following tasks:</p> <p>T2.1 Project Management will be carried out by AIR FRANCE. This task aims at conducting an effective and successful management of the WP, to ensure the correct monitoring and reporting of the activities to the coordinator.</p> <p>T2.2 AIR FRANCE Implementation will be carried out partially by AIR FRANCE staff and by subcontracting. This task aims at:</p> <ul style="list-style-type: none"> - updating NSAP (Network service access point) database on all AIR FRANCE fleets equipped with ATN datalink (A220, A320, A350 and Boeing 787); - optimising AOC traffic through VDL-2 through several actions: Implement new optimisation mechanisms to reduce AOC traffic over VDL2 on 60 A220 and 60 A350 aircraft; - implementing compression mechanisms on 60 A350 and 60 A220 AIR FRANCE aircraft; - deploying ACARS over IP functions on 60 A350 AIR FRANCE aircraft; - upgrading off-the-shelf cellular onboard installations on applicable AIR FRANCE fleets (60 A220, 60 A350 and 10 Boeing 787); - offloading AOC data to new off-the-shelf communication technologies. <p>T2.3 Transavia Implementation will be carried out partially by Transavia staff and by subcontracting. This task aims at:</p> <ul style="list-style-type: none"> - installing Spectralux Mod 7 release on 2 Boeing 737 Transavia aircraft; - installing Honeywell CMU version on 71 Boeing 737 Transavia aircraft; - updating NSAP database on Transavia fleets; - deploying ACARS over IP functions on 60 A320NEO aircraft; - implementing setting modifications to reduce AOC traffic over VDL on Transavia France 60 A320NEO aircraft, identified as the highest contributor to VDL2 bandwidth consumption in Europe; - upgrading off-the-shelf cellular onboard installations on applicable 60 (A320NEO) Transavia aircraft; - offloading AOC data to new off-the-shelf communication technologies. <p>T2.4 KLM Implementation will be carried out partially by KLM staff and by subcontracting. This task aims at:</p> <ul style="list-style-type: none"> - selecting the vendor, buying, engineering and installing the equipment; - ensuring that the necessary options have been installed; - adapting the KLM post office IT architecture to offload ACMS data via other means than VHF datalink; - notification to the NSA (corresponding to milestone M17). <p>T2.5 Lufthansa Implementation will be carried out partially by Lufthansa staff and subcontracting. This task aims at purchasing, certifying, and loading the software to update the communication router on 19 Lufthansa German Airlines Boeings 747-8 aircraft. The task comprises:</p> <ul style="list-style-type: none"> - Purchasing Honeywell software package 998-6063-523 for 19 747-8 Lufthansa aircraft; - Certification of the software package on Lufthansa 747-8 fleet by EASA Part 21J Design Organization; - Loading the software package to 19 Lufthansa 747-8i aircraft; - Adding 19 DLH Boeing 747-8i aircraft to EUROCONTROL Logon List to allow flight crew the use of CPDLC in all European airspaces.

T2.6 RYANAIR Implementation will be carried out partially by RYANAIR staff and by subcontracting. This task aims at:

- equipping 373 Boeing 737 aircraft with new off-the-shelf avionics;
- testing the new avionics developed by the supplier;
- offloading OAC data.

T2.7 TAP Implementation will be carried out partially by TAP staff and subcontracting. The deployment of AoIP capabilities on TAP’s fleet and the necessary IT systems on the ground to make use of the AoIP functions (Gnd-AoIP) require the supply of both equipment and services. This task aims at:

- deploying Ground-AoIP infrastructure and functions hosted in the DataLink Service Provider, including procurement, purchase, and activation of the Ground-AoIP functions;
- deploying AoIP capability on 17 A320 FAM NEO and 19 A330 NEO aircraft, including procurement, purchase, and activation of the AoIP FOMAX option;
- deploying the interconnection between the FOMAX system and the Cabin internet connection on 32 in-service aircraft, which are equipped with Cabin connectivity - Ku/Ka-band, allowing the offload of VDL Mode 2 on-ground and during flight, including procurement, purchase and embodiment of the described interconnection;
- testing and validation activities.

Work package WP3 – 2023_200_SUR_EUR

Work Package Number	WP3	Lead Beneficiary	9 - ENAIRE
Work Package Name	2023_200_SUR_EUR		
Start Month	1	End Month	59

Objectives

The general objective of Work Package 3 (WP3) is to contribute to the deployment of ADS-B for the purpose of ATC surveillance in EATMN (European Air Traffic Management Network) in alignment with the objectives of the CNS Roadmap of the ATM Masterplan.

The specific objective of WP3 is to deploy ADS-B in on three air navigation service providers and two airspace users not subject to AUR.SUR.2005 1 (b) or (c) of Annex II of CIR (EU) 2023/1770.

ENAIRE will deploy ADS-B stations in Spain to provide surveillance coverage in areas not covered nowadays and to complement surveillance coverage provided by other sensors, mainly Mode S radar. The rationalisation of the surveillance network, by means of providing one surveillance layer with Mode S radar technology, and the second layer with ADS-B technology, contributes in a long term perspective to the reduction of deployment and maintenance costs thanks to the due substitution radar sensors by ADS-B stations.

ADS-B systems will be deployed in Zaragoza, the southern part of Madrid Fir and secondary airfields and the ADS-B data will be integrated in the SACTA ATM system, in the surveillance data processing chain and automation system used by ENAIRE.

This is a continuation of the works already performed under CEF Action 2017-EU-TM-0120-M.

The Royal Spanish Aeroclub (RACE) will upgrade general aviation aircraft not covered by the requirements set on CIR 2023/1770, in particular, equipage of 65 aircraft with ADS-B transponders and 100 aircraft with ADS-L solutions consistent with EASA iConspicuity roadmap.

Akcine Bendrove Oro Navigacija (ORO NAVIGACIJA) will improve surveillance coverage in all Vilnius FIR (Flight Information Region) Airspace, including the lower levels, through optimisation of ground surveillance infrastructure. It will be realised by implementation of ADS-B infrastructure and ADS-B information consumption by the ATC systems. Kaunas primary radar will be decommissioned by the end of the project at the latest.

Aero Club Rennes Ille-et-Vilaine (ACRIV) will equip four general aviation aircraft not covered by the requirements set out in CIR 2023/1770 with ADS-B transponders. In particular, to upgrade one GTX 330 aircraft (C172 FGVPT) and replacing the older Mode S transponders in three aircraft (C172 FGCHM, DR460 FGUXH, CAP10 FGDTJ).

This upgrade will allow the general aviation aircraft to access U-Space through the compliance with SERA 6005 enhancing the situational awareness within uncontrolled airspace.

Ukrainian State Air Traffic Services Enterprise (UKSATSE) will develop studies to prepare Ukraine for an expedited rollout of ADS-B once the geopolitical situation allows it.

Description

All the beneficiaries participating in the implementation of WP3 are committed to carrying out their tasks according to the project plan, providing inputs on technical achievements, timing, financial and administrative requirements. ENAIRE, as WP leader will ensure proper monitoring of WP3 by holding regular meetings with the participants (RACE, ORO, ACRIV and UKSATE). These meetings will focus on coordinating reporting activities, ensuring alignment among participants, identifying issues and jointly applying mitigation actions as well as sharing experiences and best practices. SDM will also provide expertise and support to the beneficiaries on administrative, financial or technical matters, throughout the duration of the project, and coordinate any request received from CINEA/EC.

The deployment of ADS-B will contribute to the safety and cost-effectiveness by:

- enabling surveillance coverage in remote regions where conventional terrestrial surveillance is technically impossible or economically not justified, thus improving accessibility and setting condition for more efficient use of airspace;
- enabling radar-like surveillance in lieu of conventional surveillance which is more costly to acquire and operate, thus unlocking rationalisation potential and/or improving the robustness of the surveillance infrastructure;
- enabling optimised use of the RF (Radio Frequency) spectrum by alleviating the necessity to actively interrogate airborne transponders;
- providing the technical enabler for surface surveillance applications such as runway incursion prevention, reliant on the high update rate of ADS-B.

The aircraft upgrade with ADS-B will contribute to:

- modernising the surveillance system operated by ANSPs in the Single European Sky (Regulation No 2023/1770);
- increasing compliance to the requirement to be electronically conspicuous to USSPs in U-space airspaces (Regulation No 2021/666);
- the pilot's traffic awareness based on the "See and Avoid" principle in other uncontrolled airspaces.

WP3 includes the following tasks:

T3.1 Project Management will be carried out by ENAIRE own staff.

This task aims at conducting an effective and successful management of the WP, to ensure the correct monitoring and reporting of the activities to the coordinator.

T3.2 ENAIRE ADS-B Implementation will be carried out partially by ENAIRE and RACE staff and by subcontracting. This task aims at:

- deploying ADS-B in Zaragoza, southern part of Madrid FIR and other secondary airports (6 ADS-B stations in total). The selection of the actual sites, from the ENAIRE's ADS-B Implementation Plan, will be performed as part of this task, considering line of sight coverage and the maintenance personnel requirements. However, initially ENAIRE is considering the following potential sites (subject to being changed if required after the corresponding analysis) :
 - o Zaragoza, the contract has already been awarded and activities included in the project comprise acquisition, installation, testing, training and commissioning of the ADS-B station.
 - o Rozas, the activities will include definition of requirements, reuse of station already installed at a different site, acquisition of auxiliary elements of the system, installation, testing, training and commissioning of the ADS-B station.
 - o Other four ADS-B stations, the activities included in the project range from studies to confirming final sites for deployment: definition of requirements, procurement process, acquisition, installation, testing, training, and commissioning of each of the stations.
- equipping 65 general aviation aircraft with ADS-B transponders;
- testing, validating, and integrating ADS-B new functionalities in the automatic system, providing information to general aviation through B2B services;
- decommissioning activities as per ENAIRE's decommissioning plan;
- declaration/statement of compliance issued and submitted to the EASA/Local NSA (corresponding to milestone MS24).

T3.3 ORO NAVIGACIJA ADS-B Implementation will be carried out partially by ORO NAVIGACIJA staff and by subcontracting for which a call for tender is expected to be launched.

This task aims at:

- conducting the safety assessment;
- optimisation of surveillance infrastructure with the decommissioning of Kaunas primary radar;
- deploying of ADS-B infrastructure;
- enabling of processing of ADS-B data and its provision to ON ANSP systems;
- upgrading and adaptation of ANS systems to use ADS-B data for operations;
- staff operational training and transition phase;
- certifying the ADS-B solution and data to be used for ANS provision operationally;
- declaration/statement of compliance to the EASA/Local NSA (corresponding to milestone MS31);
- letter from Oro Navigacija to the NSA notifying the change (Kaunas radar decommissioning) (corresponding to milestone MS35).

T3.4 ACRIV Implementation will be carried out partially by ACRIV staff and subcontracting.

This task aims at:

- upgrading 1 Cessna 172S (F-GVPT);
- upgrading 1 Cessna 172N (F-GCHM);
- upgrading 1 Robin DR400-160 (F-GUXH);
- upgrading 1 CAP10C (F-GDTJ).

T3.5 UKSATSE Study will be carried out by UKSATSE own staff.

This task aims at:

- assessing the airspace needs, technical capabilities and future plans;
- evaluating the progress of ADS-B aircraft equipage;
- studying the ADS-B implementation experience in Europe;
- assessing the surveillance infrastructures of UKSATE and cybersecurity;
- evaluating ADS-B based on current data from the existing UKSATSE ADS-B stations;
- developing the CONOPS (Concept of Operations);
- conducting a safety assessment.

Work package WP4 – 2023_200_SUR_OMR

Work Package Number	WP4	Lead Beneficiary	9 - ENAIRE
Work Package Name	2023_200_SUR_OMR		
Start Month	1	End Month	59

Objectives

The general objective of Work Package 4 (WP4) is to contribute to the deployment of ADS-B for the purpose of ATC surveillance in alignment with the objectives of the CNS Roadmap of the “ATM Masterplan”.

The specific objective of WP4 is to deploy ADS-B in two air navigation service providers operating in EU Outermost regions and represents a continuation of the works performed under CEF Action 2017-EU-TM- 0120-M.

ENAIRE will deploy new ADS-B ground stations in Canary Islands and Nouadhibou, areas where there is not enough coverage and integrating the ADS-B information into SACTA ATM system. The rationalisation of the surveillance network, by means of providing one surveillance layer with Mode S radar technology, and the second layer with ADS-B technology, contributes in a long term to the reduction of deployment and maintenance costs thanks to the due substitution radar sensors by ADS-B stations.

Navegacao Aerea De Portugal - Nav Portugal EPE (NAV PORTUGAL) will deploy a new single network of ground stations covering the entire Azorean archipelago, establishing processing centers in two islands which will increase reliability, and replacing the ageing systems that provide lower airspace surveillance coverage.

Description

All the beneficiaries participating in the implementation of WP4 are committed to carrying out their tasks according to the project plan, providing inputs on technical achievements, timing, financial and administrative requirements. ENAIRE, as

WP leader will ensure proper monitoring of WP4 by holding regular meetings with NAV PORTUGAL. These meetings will focus on coordinating reporting activities, ensuring alignment among participants, identifying issues, and jointly applying mitigation actions as well as sharing experiences and best practices. SDM will also provide expertise and support to the beneficiaries on administrative, financial or technical matters, throughout the duration of the project, and coordinate any request received from CINEA/EC.

The deployment of ADS-B in outermost regions will contribute to increased safety, costs efficiency and capacity as well as lower the environmental impact of aviation by:

- enabling surveillance coverage in remote regions where conventional terrestrial surveillance is technically impossible or economically not justified, thus improving accessibility, and setting condition for more efficient use of airspace;
- enabling radar-like surveillance in lieu of conventional surveillance which is more costly to acquire and operate, thus unlocking rationalisation potential and/or improving the robustness of the surveillance infrastructure;
- enabling optimised use of the RF spectrum by alleviating the necessity to actively interrogate airborne transponders;
- providing the technical enabler for surface surveillance applications such as runway incursion prevention, reliant on the high update rate of ADS-B.

WP4 includes the following tasks:

T4.1 Project Management will be carried out by ENAIRE own staff.

This task aims at conducting an effective and successful management of the WP, to ensure the correct monitoring and reporting of the activities to the coordinator.

T4.2 ENAIRE Implementation will be carried out partially by ENAIRE and subcontracting.

This task aims at deploying ADS-B in Canary Islands and Nouadhibou.

The task aims at:

- including the required analysis for the final selection of sites from ENAIRE's ADS-B Implementation Plan for Canary Islands;
- setting of requirements;
- procuring at least four redundant stations;
- installing, testing, training and commissioning of the stations;
- decommissioning activities as per ENAIRE's decommissioning plan;
- declaration/statement of compliance to EASA/Local NSA (EU2023/1768) (corresponding to milestone MS47).

Although the final sites may be subject to changes after the required analysis, the initial sites considered in the Canary Islands are in the islands of Tenerife, Gran Canaria, Gomera and La Palma. In the case of Nouadhibou, the tasks include procuring of two redundant stations (collocated), installation, testing, training and commissioning of the system.

T4.3 NAV Portugal Implementation carried out by NAV PORTUGAL own staff and subcontracting.

This task aims at:

- procurement process for the ADS-B deployment in Azores Islands, including:
 - o call for tender to purchase the best technical solution able to perform the target coverage;
 - o definition of the final number of ground stations that will be installed, depending on technical solutions different suppliers will offer in their tenders. However, the target coverage is all the Azores archipelago with the deployment of ground stations in all the 9 islands, with a total number of 23 ground stations estimated. The final number of ground stations may have a slight adjustment, while not compromising the target coverage.
- installation of the ADS-B stations in Azores Islands and training;
- integrating, testing and validating the ADS-B stations;
- decommissioning activities as per NAV Portugal's decommissioning plan;
- declaration/statement of compliance to EASA/Local NSA (EU2023/1768) (corresponding to milestone MS47).

Work package WP5 – 2023_300_NAV

Work Package Number	WP5	Lead Beneficiary	5 - Lufthansa
Work Package Name	2023_300_NAV		
Start Month	1	End Month	59

Objectives

The general objective of Work Package 5 (WP5) is to contribute to the deployment of PBN (Performance Based Navigation) in accordance with CIR (EU) 2018/1048 in EATMN, and to promote the extraction of benefits of PBN by increasing SBAS (Satellite-Based Augmentation System) and RNP (Required Navigation Performance) equipage in the airspace user segment operating in EU.

The specific objective of WP5 is to deploy PNB involving the following Airspace Users (airline companies), ANSPs and one AO (Airport Operator):

Lufthansa will equip (retro or forward fit) 14 A350-900 aircraft and 10 A350-1000 aircraft with SBAS capable avionics. This will allow the operational use of LPV to support PBN IR requirements (CIR 2018/1048) by upgrading the Multi-Mode Receivers with SBAS capability and activating the Satellite Landing System SLS (LPV) in the Flight Management System.

AIR FRANCE will accelerate SBAS LPV (Localizer Performance with Vertical guidance) deployment, equipping 30 Air France A350, 65 Transavia A320NEO and 34 Hop! Embraer aircraft. A total of 129 aircraft will be equipped with SBAS LPV avionic function allowing the operational use of LPV procedures in Europe.

KLM will upgrade (retro/forward fit) 169 aircraft (types A320/A321 NEO, A350 and Boeing 777 / 787 / 737) with new avionics and systems for PBN (SBAS and RNP1/RNAV1) procedures, solving interoperability issues.

Easyjet Europe Airline GMBH (EEAG) will equip 98 A320 (18 aircraft in retrofit and 80 aircraft in forward fit) aircraft with SBAS LPV capabilities to realise fuel, safety, and disruption benefits in particular:

- installation of MMR (Multi-Mode Receiver) and SBAS function;
- activation of FLS (FMS Landing System);
- installation of FMS OPC (Operational Program Configuration) capable of SLS.

The critical operational importance of the LPV capability lies in minimising disruptions (i.e.: possible diversions, and flight cancellations in unfavourable weather conditions) and during outages of the ILS (Instrument Landing System) signal due to maintenance activities.

ENAIRE will implement RNAV1 Terminal routes (SID/STAR) and associated modifications of the airspace to modernise the current air navigation situation in relevant scenarios within the Spanish aerodromes network, while at the same time making possible solving specific issues allocated to each one. The relevant scenarios are LECO (A Coruña), LEAL (Alicante), LEGR (Granada), LEMI (Murcia Corvera) and LEST (Santiago). This implementation will allow for the decommissioning of radio-navigation infrastructure (i.e. removal of NDBs and VORs).

ORO NAVIGACIJA will facilitate more flexible and user efficient trajectories in Lithuania (Vilnius FIR) and with the neighbouring countries, reducing the environmental impact (including noise dispersion), and ensuring a higher level of safety, with the following specific objectives:

- optimisation of traffic flows in Vilnius and Kaunas TMAs and revision of airspace structures at Palanga and Šiauliai TMAs;
- optimisation of NAV infrastructure with the decommissioning of a NDB (Non-Directional Beacon) in the vicinity of Vilnius airport;
- Implementation of upgraded SID and STAR, in line with the PBN requirements and CCO (Continuous Climb Operations) and CDO (Continuous Descend Operations) concepts, in the above-mentioned TMAs;
- enhancement of and CCO (Continuous Climb Operations) and CDO (Continuous Descend Operations) procedures and upgrade of related PBN SIDs and STARs through the implementation of Cross-Border Airspace project between Lithuania and Poland.

SWEDAVIA AB (SWED) will implement PBN Terminal routes in Stockholm Arlanda (ESSA), Landvatter (ESGG), Umeå (ESNU), Kiruna (ESNQ) airports, allowing for a subsequent decommissioning of NAV infrastructure.

UKSATSE will develop a study with the purpose of selecting and further procuring the software for PBN IFPD that meets the requirements of both, the EU and Ukraine. For this study, UKSATSE's flight procedure designers will receive On-the-Job Training (OJT) regarding their involvement in flight procedure design projects in European organisations and institutions (ANS Providers, IFPD Providers, Educational institutions, etc.).

Description

All the beneficiaries participating in the implementation of WP5 are committed to carrying out their tasks according to the project plan, providing inputs on technical achievements, timing, financial and administrative requirements.

Lufthansa, as WP leader will ensure proper monitoring of the WP by holding regular meetings with the participants (AIR FRANCE, KLM, EEAG, ENAIRE, ORO, SWEDAVIA and UKSATSE). These meetings will focus on coordinating reporting activities, ensuring alignment among participants, identifying issues and jointly applying mitigation actions as well as sharing experiences and best practices. SDM will also provide expertise and support to the beneficiaries on administrative, financial, or technical matters, throughout the duration of the project, and coordinate any request received from CINEA/EC.

Under WP5, the deployment of PBN is expected to contribute to ANS safety, predictability, sustainability and cost-effectiveness by:

- Establishing PBN terminal routes and approach procedures with minima as low as 200ft provided that the performance of the systems upon which the respective navigation specifications are predicated, namely GNSS and SBAS, meet the respective ICAO Annex 10 performance standard, which in turn will lead to:
 - o unlocking potential for gradual rationalisation of some terrestrial radio navigation aids surplus to requirements;
 - o greater potential for avoidance of noise-sensitive areas owing to greater design flexibility of RNAV 1 and RNP 1 design criteria, including the use of RF segments;
 - o predictable terminal providing deterministic routing, which allows the airspace user to take advantage of the onboard flight management capabilities to optimise the flight profile for minimum fuel consumption and therefore minimum CO₂-footprint in all stages of flight;
 - o improving the accessibility (through improved aerodrome operating minima) to aerodromes where conventional ILS equipment and procedures are technically impossible or uneconomical;
 - o increasing the resilience of the ATM system by enabling sustained IFR operations during outages of the conventional landing aids;
 - o improving the safety of final approaches by enabling SBAS-based geometrical vertical guidance in runway ends where only 2D approaches, or 3D approaches with barometric-based vertical guidance, where possible.

WP5 includes the following tasks:

T5.1 Project Management will be carried out by Lufthansa own staff.

This task aims at conducting an effective and successful management of WP5, to ensure the correct monitoring and reporting of the activities to the coordinator.

T5.2 Lufthansa implementation will be carried out partially by Lufthansa and by subcontracting.

This task aims at:

- reviewing, evaluating and assessing the fleet status;
- setting-up the modification campaign;
- upgrading avionics to implement LPV capabilities on 14 A350-900 aircraft (4 retrofit, 10 forward fit) and 10 A350-1000 aircraft (10 forward fit);
- notification to the NSA (corresponding to milestone MS56).

T5.3 AIR FRANCE implementation will be carried out partially by Air France Group and by subcontracting.

This task aims at:

- equipping 30 AIR FRANCE A350 aircraft with SBAS LPV function on a forward fit basis;
- equipping 65 Transavia France (TO) A320NEO aircraft with SBAS LPV function on a forward fit basis;
- equipping 34 HOP! Embraer aircraft with SBAS LPV solution on a retrofit basis;
- HOP! crew training through and e-learning tool elaborated by their own staff;
- notification from HOP! to the NSA (corresponding to milestone MS60).

T5.4 KLM Implementation will be carried out partially by KLM staff and by subcontracting.

This task aims at:

- selecting the vendor, buying, engineering and installing the equipment, in particular:
 - o forwardfit 42 A320/A321 NEO aircraft and 26 A350 aircraft with SBAS equipment as part of the delivery specification of the aircraft by the OEM (Original Equipment Manufacturer);
 - o retrofit 31 Boeing 777 aircraft and 28 Boeing 787 aircraft with SBAS equipment;
 - o retrofit 42 Boeing 737 retrofit aircraft with a second FMC (Flight management computer);
- ensuring that the necessary options have been installed;
- upgrading procedures and manual and performing the necessary training;
- notification to the NSA (corresponding to milestone MS64).

T5.5 EEAG implementation will be carried out partially by EEAG staff and subcontracting.

This task aims at:

- forwardfit 80 A320 aircraft with SBAS LPV from EasyJet Austrian fleet;
- retrofit 18 A320 aircraft with SBAS LPV from EasyJet Austrian fleets;
- performing the necessary engineering activities.

T5.6 ENAIRE Implementation will be carried out partially by ENAIRE and subcontracting.

This task aims at:

- implementing RNAV1 SID/STAR RWY 03/21 at LECO (A Coruña) and decommissioning of NDB/L C and NDB COA;
- implementing RNAV1 SID/STAR RWY 10/28 at LEAL (Alicante) and decommissioning of NDB SGO and VOR ALT;
- implementing RNAV1 SID/STAR RWY 09/27 at LEGR (Granada) and decommissioning of NDB/L GR and NDB/L GRA;
- implementing RNAV1 SID/STAR RWY 05/23 at LEMI (Murcia Corvera) meeting the requirements from the Spanish Military authority within the Restricted Space Area LER63 MURCIA;
- implementing RNAV1 SID/STAR RWY 17/35 at LEST (Santiago) and decommissioning of NDB/L SO.

T5.7 ORO NAVIGACIJA implementation will be carried out partially by Oro Navigacija staff and subcontracting.

This task aims at:

- analysing, developing and deploying a new RNP related airspace structure for all Lithuania international airports (Vilnius, Kaunas, Palanga, Šiauliai);
- conducting the safety assessment;
- consulting and coordinating with airspace users;
- operational training and transition phase;
- decommissioning activities for Vilnius and Kaunas airports.

T5.8 SWEDAVIA Implementation will be carried out partially by SWEDAVIA and LFV staff and subcontracting,

This task aims at:

- implementing RNAV SID/STAR at ESNU, changing conventional STAR RWY 14 and implementing two ILS procedures replacing NDB and transition to ILS;
- implementing RNAV SID/STAR at ESNQ, allowing the decommissioning of the NDB VNA and NDB WU;
- implementing RNAV SID/STAR at ESGG;
- implementing RNAV1 Holding procedures replacing the conventional ones allowing the decommissioning the VOR HMR and VOR TRS;
- implementing new approach procedures replacing the conventional ones allowing the decommissioning the NDB SL and NDB NL.

T5.9 UKSATSE implementation will be carried out partially by UKSATSE staff and by subcontracting.

This task aims at:

- procuring a feasibility study with IFPD (Instrument Flight Procedures Design) services and software providers;
- procuring the software;
- post implementation processes, (onsite installed software functionality analysis to determine if the installation and configuration were indeed successful).

STAFF EFFORT

Staff effort per participant						
<i>Grant Preparation (Work packages - Effort screen) — Enter the info.</i>						
Participant	WP1	WP2	WP3	WP4	WP5	Total Person-Months
Total Person-Months	0.00	0.00	0.00	0.00	0.00	0.00

LIST OF DELIVERABLES

Deliverables						
<i>Grant Preparation (Deliverables screen) — Enter the info.</i>						
<i>The labels used mean:</i>						
<i>Public — fully open (⚠ automatically posted online)</i>						
<i>Sensitive — limited under the conditions of the Grant Agreement</i>						
<i>EU classified — RESTREINT-UE/EU-RESTRICTED, CONFIDENTIEL-UE/EU-CONFIDENTIAL, SECRET-UE/EU-SECRET under Decision 2015/444</i>						
Deliverable No	Deliverable Name	Work Package No	Lead Beneficiary	Type	Dissemination Level	Due Date (month)
D1.1	Internal Consortium Guidelines for Project Execution	WP1	1 - EUROCONTROL	R — Document, report	SEN - Sensitive	11
D1.2	Project Communication Plan	WP1	1 - EUROCONTROL	R — Document, report	SEN - Sensitive	11
D1.3	Technical Progress Report 1	WP1	1 - EUROCONTROL	R — Document, report	SEN - Sensitive	14
D1.4	Technical Progress Report 2	WP1	1 - EUROCONTROL	R — Document, report	SEN - Sensitive	38
D2.1	Deployment verification report of 60 A350 aircraft	WP2	3 - AIR FRANCE	R — Document, report	SEN - Sensitive	59
D2.2	Deployment verification report of new ACMS and engine settings, and ACARS over IP in A220 and A350	WP2	3 - AIR FRANCE	R — Document, report	SEN - Sensitive	59
D2.3	Deployment verification report of 71 Boeing 737 upgraded with Honeywell CMU 514	WP2	3.1 - Transavia	R — Document, report	SEN - Sensitive	35
D2.4	Deployment verification report of new ACMS and engine settings, and ACARS over IP in A320 NEO	WP2	3.1 - Transavia	R — Document, report	SEN - Sensitive	59
D2.5	Certificate of Release to Service of 21 A320/321NEO aircraft equipped with ACARS over IP	WP2	24 - KLM	R — Document, report	SEN - Sensitive	35

Deliverables						
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Deliverable No	Deliverable Name	Work Package No	Lead Beneficiary	Type	Dissemination Level	Due Date (month)
D2.6	Certificate of Release to Service of 42 A320/321NEO aircraft equipped with ACARS over IP	WP2	24 - KLM	R — Document, report	SEN - Sensitive	59
D2.7	Aircraft upgrade status report Boeing 747-8 aircraft	WP2	5 - Lufthansa	R — Document, report	SEN - Sensitive	17
D2.8	EUROCONTROL Datalink Logon list	WP2	5 - Lufthansa	R — Document, report	SEN - Sensitive	17
D2.9	Certificate of Release to Service of 188 Boeing 737 aircraft equipped with communication technology	WP2	18 - RYANAIR	R — Document, report	SEN - Sensitive	25
D2.10	Certificate of Release to Service of 377 Boeing 737 equipped aircraft	WP2	18 - RYANAIR	R — Document, report	SEN - Sensitive	59
D2.11	Certificate of Release to Service of 36 aircraft equipped with AoIP capability	WP2	27 - TAP	R — Document, report	SEN - Sensitive	34
D2.12	Certificate of release to service of 32 equipped aircraft with the interconnection between the FOMAX system and the Cabin internet connection	WP2	27 - TAP	R — Document, report	SEN - Sensitive	58
D3.1	Zaragoza SAT reports	WP3	9 - ENAIRE	R — Document, report	SEN - Sensitive	12
D3.2	Secondary Airfield Rozas SAT report	WP3	9 - ENAIRE	R — Document, report	SEN - Sensitive	22
D3.3	Southern Regions of Spain stations SAT	WP3	9 - ENAIRE	R — Document, report	SEN - Sensitive	47

Deliverables

Grant Preparation (Deliverables screen) — Enter the info.

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Deliverable No	Deliverable Name	Work Package No	Lead Beneficiary	Type	Dissemination Level	Due Date (month)
	report (potentially Sevilla, Cordoba, and Melilla)					
D3.4	Secondary Airfield station SAT report (potentially Almeria)	WP3	9 - ENAIRE	R — Document, report	SEN - Sensitive	53
D3.5	Certificate of Release to Service of 15 aircraft equipped with ADS-B	WP3	22 - RACE	R — Document, report	SEN - Sensitive	20
D3.6	Certificate of Release to Service of 30 aircraft equipped with ADS-B	WP3	22 - RACE	R — Document, report	SEN - Sensitive	29
D3.7	Certificate of Release to Service of 65 aircraft equipped with ADS-B	WP3	22 - RACE	R — Document, report	SEN - Sensitive	47
D3.8	Initial safety case report	WP3	23 - ORO NAVIGACIJA	R — Document, report	SEN - Sensitive	19
D3.9	Site Acceptance test for ADS-B infrastructure report	WP3	23 - ORO NAVIGACIJA	R — Document, report	SEN - Sensitive	47
D3.10	Certificate of Release to Service of 4 upgraded aircraft	WP3	25 - ACRIV	R — Document, report	SEN - Sensitive	14
D3.11	CONOPS document	WP3	26 - UKSATSE	R — Document, report	SEN - Sensitive	29
D4.1	Site Acceptance Test Canary Islands	WP4	9 - ENAIRE	R — Document, report	SEN - Sensitive	59
D4.2	Site Acceptance Test Mauritania	WP4	9 - ENAIRE	R — Document, report	SEN - Sensitive	59
D4.3	Site Acceptance Test Azores	WP4	14 - NAV PORTUGAL	R — Document, report	SEN - Sensitive	30

Deliverables						
<i>Grant Preparation (Deliverables screen) — Enter the info.</i>						
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Deliverable No	Deliverable Name	Work Package No	Lead Beneficiary	Type	Dissemination Level	Due Date (month)
D5.1	Certificate of Release to Service of 2 A350-900 aircraft (retrofit)	WP5	5 - Lufthansa	R — Document, report	SEN - Sensitive	23
D5.2	Certificate of Release to Service of 5 A350-1000 aircraft (forwardfit)	WP5	5 - Lufthansa	R — Document, report	SEN - Sensitive	35
D5.3	Certificate of Release to service of 5 A350-1000 aircraft (retrofit)	WP5	5 - Lufthansa	R — Document, report	SEN - Sensitive	47
D5.4	Certificate of Release to Service of 4 A350-900 aircraft (retrofit)	WP5	5 - Lufthansa	R — Document, report	SEN - Sensitive	59
D5.5	Certificate of Release to Service of 10 A350-900 aircraft (forwardfit)	WP5	5 - Lufthansa	R — Document, report	SEN - Sensitive	59
D5.6	Certificate of Release to Service of 10 A350-1000 aircraft (forward fit)	WP5	5 - Lufthansa	R — Document, report	SEN - Sensitive	59
D5.7	Deployment verification report of 17 Embraer aircraft equipped with SBAS LPV solution	WP5	3.2 - HOP	R — Document, report	SEN - Sensitive	20
D5.8	Deployment verification report of 34 Embraer aircraft equipped with SBAS LPV solution	WP5	3.2 - HOP	R — Document, report	SEN - Sensitive	23
D5.9	Deployment verification report of 16 A350 aircraft equipped with SBAS	WP5	3 - AIR FRANCE	R — Document, report	SEN - Sensitive	47

Deliverables						
<i>Grant Preparation (Deliverables screen) — Enter the info.</i>						
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Deliverable No	Deliverable Name	Work Package No	Lead Beneficiary	Type	Dissemination Level	Due Date (month)
D5.10	Deployment verification report of 30 A350 aircraft equipped with SBAS	WP5	3 - AIR FRANCE	R — Document, report	SEN - Sensitive	59
D5.11	Deployment verification report of 34 A320NEO aircraft equipped with SBAS	WP5	3.1 - Transavia	R — Document, report	SEN - Sensitive	35
D5.12	Deployment verification report of A320 NEO aircraft equipped with SBAS	WP5	3.1 - Transavia	R — Document, report	SEN - Sensitive	59
D5.13	Certificate of release to service of 21 A320/A321 NEO aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	35
D5.14	Certificate of release to service of 13 A350 aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	47
D5.15	Certificate of release to service of 15 Boeing 777 aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	47
D5.16	Certificate of release to service of 14 Boeing 787 aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	47
D5.17	Certificate of release to service of 21 Boeing 737 aircraft equipped with second FMC	WP5	24 - KLM	R — Document, report	SEN - Sensitive	47
D5.18	Certificate of release to service of 42 A320/A321 NEO aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	59
D5.19	Certificate of release to service of 26 A350 aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	59

Deliverables						
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Deliverable No	Deliverable Name	Work Package No	Lead Beneficiary	Type	Dissemination Level	Due Date (month)
D5.20	Certificate of release to service of 31 Boeing 777 aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	59
D5.21	Certificate of release to service of 28 Boeing 787 aircraft equipped with SBAS	WP5	24 - KLM	R — Document, report	SEN - Sensitive	59
D5.22	Certificate of release to service of 42 Boeing 737 aircraft equipped with a second FMC	WP5	24 - KLM	R — Document, report	SEN - Sensitive	59
D5.23	Certificate of release to service of 49 A320 aircraft equipped with SBAS LPV capabilities	WP5	8 - EEAG	R — Document, report	SEN - Sensitive	47
D5.24	Certificate of release to service of 98 A320 aircraft equipped with SBAS LPV capabilities	WP5	8 - EEAG	R — Document, report	SEN - Sensitive	59
D5.25	AIP publication - ENAIRE	WP5	9 - ENAIRE	R — Document, report	SEN - Sensitive	59
D5.26	AIP Publication of new Lithuanian Airspace and Cross-Border airspace	WP5	23 - ORO NAVIGACIJA	R — Document, report	SEN - Sensitive	42
D5.27	AIP publication - SWED	WP5	21 - SWED	R — Document, report	SEN - Sensitive	59
D5.28	Report / conclusions on the most suitable IFPD software for UKSATSE	WP5	26 - UKSATSE	R — Document, report	SEN - Sensitive	35
D5.29	FDP Software Acceptance Test document	WP5	26 - UKSATSE	R — Document, report	SEN - Sensitive	59

Deliverable D1.1 – Internal Consortium Guidelines for Project Execution

Deliverable Number	D1.1	Lead Beneficiary	1 - EUROCONTROL
Deliverable Name	Internal Consortium Guidelines for Project Execution		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	11	Work Package No	WP1

Description
Guidelines aimed at supporting IPPs during the whole project execution and the relevant processes

Deliverable D1.2 – Project Communication Plan

Deliverable Number	D1.2	Lead Beneficiary	1 - EUROCONTROL
Deliverable Name	Project Communication Plan		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	11	Work Package No	WP1

Description
Plan outlining the communication activities of SDM and the partners to promote the project implementation and results with appropriate visibility to the EU co-financing

Deliverable D1.3 – Technical Progress Report 1

Deliverable Number	D1.3	Lead Beneficiary	1 - EUROCONTROL
Deliverable Name	Technical Progress Report 1		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	14	Work Package No	WP1

Description
The progress report will be prepared using the respective template provided in the portal. It will detail the actual progress of the project, per WP, during the corresponding reporting period. It will also refer to the main implementation issues, milestones, events or factors that affected the progress of the project. Finally, it will also include the planned progress per WP until the end of the project.

Deliverable D1.4 – Technical Progress Report 2

Deliverable Number	D1.4	Lead Beneficiary	1 - EUROCONTROL
Deliverable Name	Technical Progress Report 2		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	38	Work Package No	WP1

Description
The progress report will be prepared using the respective template provided in the portal. It will detail the actual progress

of the project, per WP, during the corresponding reporting period. It will also refer to the main implementation issues, milestones, events or factors that affected the progress of the project. Finally, it will also include the planned progress per WP until the end of the project.

Deliverable D2.1 – Deployment verification report of 60 A350 aircraft

Deliverable Number	D2.1	Lead Beneficiary	3 - AIR FRANCE
Deliverable Name	Deployment verification report of 60 A350 aircraft		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP2

Description
Report that certifies the correct deployment of Offload AOC to new off-the-shelf technologies on 60 A350 aircraft issued by the Airline Maintenance Engineering

Deliverable D2.2 – Deployment verification report of new ACMS and engine settings, and ACARS over IP in A220 and A350

Deliverable Number	D2.2	Lead Beneficiary	3 - AIR FRANCE
Deliverable Name	Deployment verification report of new ACMS and engine settings, and ACARS over IP in A220 and A350		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP2

Description
Report that certifies the correct deployment of new ACMS and engine settings, and ACARS over IP in 60 A220 and 60 A350 aircraft issued by the Airline Maintenance Engineering

Deliverable D2.3 – Deployment verification report of 71 Boeing 737 upgraded with Honeywell CMU 514

Deliverable Number	D2.3	Lead Beneficiary	3.1 - Transavia
Deliverable Name	Deployment verification report of 71 Boeing 737 upgraded with Honeywell CMU 514		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	35	Work Package No	WP2

Description
Report that certifies the correct upgrade of 71 Boeing 737 aircraft with Honeywell CMU 514 issued by the Airline Maintenance Engineering

Deliverable D2.4 – Deployment verification report of new ACMS and engine settings, and ACARS over IP in A320 NEO

Deliverable Number	D2.4	Lead Beneficiary	3.1 - Transavia
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Deliverable Name	Deployment verification report of new ACMS and engine settings, and ACARS over IP in A320 NEO		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP2

Description
Report that certifies the correct deployment of new ACMS and engine settings, and ACARS over IP in 60 A320 NEO aircraft issued by the Airline Maintenance Engineering

Deliverable D2.5 – Certificate of Release to Service of 21 A320/321NEO aircraft equipped with ACARS over IP

Deliverable Number	D2.5	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of Release to Service of 21 A320/321NEO aircraft equipped with ACARS over IP		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	35	Work Package No	WP2

Description
Document that certifies the release into service of 21 A320/321 NEO aircraft equipped with the deployed technology

Deliverable D2.6 – Certificate of Release to Service of 42 A320/321NEO aircraft equipped with ACARS over IP

Deliverable Number	D2.6	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of Release to Service of 42 A320/321NEO aircraft equipped with ACARS over IP		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP2

Description
Document that certifies the release into service of 42 A320/321 NEO aircraft with the deployed technology

Deliverable D2.7 – Aircraft upgrade status report Boeing 747-8 aircraft

Deliverable Number	D2.7	Lead Beneficiary	5 - Lufthansa
Deliverable Name	Aircraft upgrade status report Boeing 747-8 aircraft		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	17	Work Package No	WP2

Description
Document that confirms the upgrade made on 19 Boeing 747-8 aircraft.

Deliverable D2.8 – EUROCONTROL Datalink Logon list

Deliverable Number	D2.8	Lead Beneficiary	5 - Lufthansa
Deliverable Name	EUROCONTROL Datalink Logon list		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	17	Work Package No	WP2

Description
Extract of the EUROCONTROL Datalink Logon list that includes the 19 747-8 aircraft updated

Deliverable D2.9 – Certificate of Release to Service of 188 Boeing 737 aircraft equipped with communication technology

Deliverable Number	D2.9	Lead Beneficiary	18 - RYANAIR
Deliverable Name	Certificate of Release to Service of 188 Boeing 737 aircraft equipped with communication technology		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	25	Work Package No	WP2

Description
Document that certifies the release into service of 188 Boeing 737 aircraft with the deployed technology

Deliverable D2.10 – Certificate of Release to Service of 377 Boeing 737 equipped aircraft

Deliverable Number	D2.10	Lead Beneficiary	18 - RYANAIR
Deliverable Name	Certificate of Release to Service of 377 Boeing 737 equipped aircraft		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP2

Description
Document that certifies the release into service of 377 Boeing 737 aircraft with the deployed technology

Deliverable D2.11 – Certificate of Release to Service of 36 aircraft equipped with AoIP capability

Deliverable Number	D2.11	Lead Beneficiary	27 - TAP
Deliverable Name	Certificate of Release to Service of 36 aircraft equipped with AoIP capability		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	34	Work Package No	WP2

Description
Document that certifies the release into service of 17 A320 FAM NEO and 19 A330 NEO aircraft with AiOP capability

Deliverable D2.12 – Certificate of release to service of 32 equipped aircraft with the interconnection between the FOMAX system and the Cabin internet connection

Deliverable Number	D2.12	Lead Beneficiary	27 - TAP
Deliverable Name	Certificate of release to service of 32 equipped aircraft with the interconnection between the FOMAX system and the Cabin internet connection		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	58	Work Package No	WP2

Description
Document that certifies the release into service of 32 (A320 FAM NEO and A330 NEO) aircraft with the interconnection between the FOMAX system and the Cabin internet connection issued by the airline.

Deliverable D3.1 – Zaragoza SAT reports

Deliverable Number	D3.1	Lead Beneficiary	9 - ENAIRE
Deliverable Name	Zaragoza SAT reports		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	12	Work Package No	WP3

Description
Document that describes the Zaragoza Site Acceptance Test and its result issued by the ANSP

Deliverable D3.2 – Secondary Airfield Rozas SAT report

Deliverable Number	D3.2	Lead Beneficiary	9 - ENAIRE
Deliverable Name	Secondary Airfield Rozas SAT report		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	22	Work Package No	WP3

Description
Document that describes the Secondary Airfield Rozas Site Acceptance Test report and its result issued by the ANSP

Deliverable D3.3 – Southern Regions of Spain stations SAT report (potentially Sevilla, Cordoba, and Melilla)

Deliverable Number	D3.3	Lead Beneficiary	9 - ENAIRE
Deliverable Name	Southern Regions of Spain stations SAT report (potentially Sevilla, Cordoba, and Melilla)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP3

Description

Document that describes the Southern Regions of Spain implementation Site Acceptance Test reports and their results issued by the ANSP

Deliverable D3.4 – Secondary Airfield station SAT report (potentially Almeria)

Deliverable Number	D3.4	Lead Beneficiary	9 - ENAIRE
Deliverable Name	Secondary Airfield station SAT report (potentially Almeria)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	53	Work Package No	WP3

Description

Document that describes the Secondary Airfield Site Acceptance Test report and its result issued by the ANSP

Deliverable D3.5 – Certificate of Release to Service of 15 aircraft equipped with ADS-B

Deliverable Number	D3.5	Lead Beneficiary	22 - RACE
Deliverable Name	Certificate of Release to Service of 15 aircraft equipped with ADS-B		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	20	Work Package No	WP3

Description

Document that certifies the release into service of 15 aircraft with ADS-B transponder

Deliverable D3.6 – Certificate of Release to Service of 30 aircraft equipped with ADS-B

Deliverable Number	D3.6	Lead Beneficiary	22 - RACE
Deliverable Name	Certificate of Release to Service of 30 aircraft equipped with ADS-B		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	29	Work Package No	WP3

Description

Document that certifies the release into service of 30 aircraft with ADS-B transponder

Deliverable D3.7 – Certificate of Release to Service of 65 aircraft equipped with ADS-B

Deliverable Number	D3.7	Lead Beneficiary	22 - RACE
Deliverable Name	Certificate of Release to Service of 65 aircraft equipped with ADS-B		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP3

Description

Document that certifies the release into service of 65 aircraft with ADS-B transponder
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Deliverable D3.8 – Initial safety case report

Deliverable Number	D3.8	Lead Beneficiary	23 - ORO NAVIGACIJA
Deliverable Name	Initial safety case report		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	19	Work Package No	WP3

Description

Document that describes the initial safety case

Deliverable D3.9 – Site Acceptance test for ADS-B infrastructure report

Deliverable Number	D3.9	Lead Beneficiary	23 - ORO NAVIGACIJA
Deliverable Name	Site Acceptance test for ADS-B infrastructure report		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP3

Description

Document that describes the SAT for the ADS-B infrastructure and its results

Deliverable D3.10 – Certificate of Release to Service of 4 upgraded aircraft

Deliverable Number	D3.10	Lead Beneficiary	25 - ACRIV
Deliverable Name	Certificate of Release to Service of 4 upgraded aircraft		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	14	Work Package No	WP3

Description

Document that certifies release into service of Cessna 172S, Cessna 172N, Robin DR400-160 and CAP10C with the upgrade done

Deliverable D3.11 – CONOPS document

Deliverable Number	D3.11	Lead Beneficiary	26 - UKSATSE
Deliverable Name	CONOPS document		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	29	Work Package No	WP3

Description

Document that describes the concept of operations

Deliverable D4.1 – Site Acceptance Test Canary Islands

Deliverable Number	D4.1	Lead Beneficiary	9 - ENAIRE
Deliverable Name	Site Acceptance Test Canary Islands		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP4

Description

Document that describes the Canary Islands SAT and its results

Deliverable D4.2 – Site Acceptance Test Mauritania

Deliverable Number	D4.2	Lead Beneficiary	9 - ENAIRE
Deliverable Name	Site Acceptance Test Mauritania		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP4

Description

Document that describes the Mauritania SAT and its results

Deliverable D4.3 – Site Acceptance Test Azores

Deliverable Number	D4.3	Lead Beneficiary	14 - NAV PORTUGAL
Deliverable Name	Site Acceptance Test Azores		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	30	Work Package No	WP4

Description

Document that describes the Azores SAT and its results

Deliverable D5.1 – Certificate of Release to Service of 2 A350-900 aircraft (retrofit)

Deliverable Number	D5.1	Lead Beneficiary	5 - Lufthansa
Deliverable Name	Certificate of Release to Service of 2 A350-900 aircraft (retrofit)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	23	Work Package No	WP5

Description

Document that certifies the release into service of 2 A350-900 aircraft with the upgrade done

Deliverable D5.2 – Certificate of Release to Service of 5 A350-1000 aircraft (forwardfit)

Deliverable Number	D5.2	Lead Beneficiary	5 - Lufthansa
Deliverable Name	Certificate of Release to Service of 5 A350-1000 aircraft (forwardfit)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	35	Work Package No	WP5

Description
Document that certifies the release into service of 5 A350-1000 aircraft with the forwardfit deployed

Deliverable D5.3 – Certificate of Release to service of 5 A350-1000 aircraft (retrofit)

Deliverable Number	D5.3	Lead Beneficiary	5 - Lufthansa
Deliverable Name	Certificate of Release to service of 5 A350-1000 aircraft (retrofit)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP5

Description
Document that certifies the release into service of 5 A350-1000 aircraft with the retrofit deployed

Deliverable D5.4 – Certificate of Release to Service of 4 A350-900 aircraft (retrofit)

Deliverable Number	D5.4	Lead Beneficiary	5 - Lufthansa
Deliverable Name	Certificate of Release to Service of 4 A350-900 aircraft (retrofit)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 4 A350-900 aircraft with the retrofit deployed (e.g. AFM extract showing the SBAS capability together with a modification status report)

Deliverable D5.5 – Certificate of Release to Service of 10 A350-900 aircraft (forwardfit)

Deliverable Number	D5.5	Lead Beneficiary	5 - Lufthansa
Deliverable Name	Certificate of Release to Service of 10 A350-900 aircraft (forwardfit)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 10 A350-900 aircraft with the forwardfit deployed (e.g. AFM extract showing the SBAS capability together with any documentation showing that the aircraft is listed in the Lufthansa AOC – Transfer of Title or equivalent)

Deliverable D5.6 – Certificate of Release to Service of 10 A350-1000 aircraft (forward fit)

Deliverable Number	D5.6	Lead Beneficiary	5 - Lufthansa
Deliverable Name	Certificate of Release to Service of 10 A350-1000 aircraft (forward fit)		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 10 A350-1000 aircraft with the forward fit deployed (e.g. AFM extract showing the SBAS capability together with any documentation showing that the aircraft is listed in the Lufthansa AOC – Transfer of Title or equivalent)

Deliverable D5.7 – Deployment verification report of 17 Embraer aircraft equipped with SBAS LPV solution

Deliverable Number	D5.7	Lead Beneficiary	3.2 - HOP
Deliverable Name	Deployment verification report of 17 Embraer aircraft equipped with SBAS LPV solution		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	20	Work Package No	WP5

Description
Report certifying the correct deployment of SBAS LPV solution in 17 Embraer HOP! aircraft

Deliverable D5.8 – Deployment verification report of 34 Embraer aircraft equipped with SBAS LPV solution

Deliverable Number	D5.8	Lead Beneficiary	3.2 - HOP
Deliverable Name	Deployment verification report of 34 Embraer aircraft equipped with SBAS LPV solution		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	23	Work Package No	WP5

Description
Report certifying the correct deployment of SBAS LPV solution in 34 Embraer HOP! aircraft

Deliverable D5.9 – Deployment verification report of 16 A350 aircraft equipped with SBAS

Deliverable Number	D5.9	Lead Beneficiary	3 - AIR FRANCE
Deliverable Name	Deployment verification report of 16 A350 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP5

Description	
Report certifying the correct deployment of SBAS equipment in 16 A350 Air France aircraft	

Deliverable D5.10 – Deployment verification report of 30 A350 aircraft equipped with SBAS

Deliverable Number	D5.10	Lead Beneficiary	3 - AIR FRANCE
Deliverable Name	Deployment verification report of 30 A350 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description	
Report certifying the correct deployment of SBAS equipment in 30 A350 Air France aircraft	

Deliverable D5.11 – Deployment verification report of 34 A320NEO aircraft equipped with SBAS

Deliverable Number	D5.11	Lead Beneficiary	3.1 - Transavia
Deliverable Name	Deployment verification report of 34 A320NEO aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	35	Work Package No	WP5

Description	
Report certifying the correct deployment of SBAS equipment in 34 A320NEO Transavia aircraft	

Deliverable D5.12 – Deployment verification report of A320 NEO aircraft equipped with SBAS

Deliverable Number	D5.12	Lead Beneficiary	3.1 - Transavia
Deliverable Name	Deployment verification report of A320 NEO aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description	
Report certifying the correct deployment of SBAS equipment in 65 A320NEO Transavia aircraft	

Deliverable D5.13 – Certificate of release to service of 21 A320/A321 NEO aircraft equipped with SBAS

Deliverable Number	D5.13	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 21 A320/A321 NEO aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive

Due Date (month)	35	Work Package No	WP5
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Description
Document that certifies the release into service of 21 A320/321 NEO aircraft with SBAS equipment deployed

Deliverable D5.14 – Certificate of release to service of 13 A350 aircraft equipped with SBAS

Deliverable Number	D5.14	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 13 A350 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP5

Description
Document that certifies the release into service of 13 A350 aircraft with SBAS equipment deployed

Deliverable D5.15 – Certificate of release to service of 15 Boeing 777 aircraft equipped with SBAS

Deliverable Number	D5.15	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 15 Boeing 777 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP5

Description
Document that certifies the release into service of 15 Boeing 777 aircraft with SBAS equipment deployed

Deliverable D5.16 – Certificate of release to service of 14 Boeing 787 aircraft equipped with SBAS

Deliverable Number	D5.16	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 14 Boeing 787 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP5

Description
Document that certifies the release into service of 14 Boeing 787 aircraft with SBAS equipment deployed

Deliverable D5.17 – Certificate of release to service of 21 Boeing 737 aircraft equipped with second FMC

Deliverable Number	D5.17	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 21 Boeing 737 aircraft equipped with second FMC		

Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP5

Description
Document that certifies the release into service of 21 Boeing 737 aircraft with a second FMC deployed

Deliverable D5.18 – Certificate of release to service of 42 A320/A321 NEO aircraft equipped with SBAS

Deliverable Number	D5.18	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 42 A320/A321 NEO aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the released into service of 42 A320/321 NEO aircraft with SBAS equipment

Deliverable D5.19 – Certificate of release to service of 26 A350 aircraft equipped with SBAS

Deliverable Number	D5.19	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 26 A350 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 26 A350 aircraft with SBAS equipment

Deliverable D5.20 – Certificate of release to service of 31 Boeing 777 aircraft equipped with SBAS

Deliverable Number	D5.20	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 31 Boeing 777 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 31 Boeing 777 aircraft with SBAS equipment

Deliverable D5.21 – Certificate of release to service of 28 Boeing 787 aircraft equipped with SBAS

Deliverable Number	D5.21	Lead Beneficiary	24 - KLM
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Deliverable Name	Certificate of release to service of 28 Boeing 787 aircraft equipped with SBAS		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 28 Boeing 787 aircraft with SBAS equipment

Deliverable D5.22 – Certificate of release to service of 42 Boeing 737 aircraft equipped with a second FMC

Deliverable Number	D5.22	Lead Beneficiary	24 - KLM
Deliverable Name	Certificate of release to service of 42 Boeing 737 aircraft equipped with a second FMC		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 42 Boeing 737 aircraft with a second FMC

Deliverable D5.23 – Certificate of release to service of 49 A320 aircraft equipped with SBAS LPV capabilities

Deliverable Number	D5.23	Lead Beneficiary	8 - EEAG
Deliverable Name	Certificate of release to service of 49 A320 aircraft equipped with SBAS LPV capabilities		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	47	Work Package No	WP5

Description
Document that certifies the release into service of 49 A320 aircraft with SBAS LPV capabilities

Deliverable D5.24 – Certificate of release to service of 98 A320 aircraft equipped with SBAS LPV capabilities

Deliverable Number	D5.24	Lead Beneficiary	8 - EEAG
Deliverable Name	Certificate of release to service of 98 A320 aircraft equipped with SBAS LPV capabilities		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that certifies the release into service of 98 A320 aircraft with SBAS LPV capabilities

Deliverable D5.25 – AIP publication - ENAIRE

Deliverable Number	D5.25	Lead Beneficiary	9 - ENAIRE
Deliverable Name	AIP publication - ENAIRE		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
AIP publication of the new procedures of LECO, LEAL, LEGR, LEMI and LEST

Deliverable D5.26 – AIP Publication of new Lithuanian Airspace and Cross-Border airspace

Deliverable Number	D5.26	Lead Beneficiary	23 - ORO NAVIGACIJA
Deliverable Name	AIP Publication of new Lithuanian Airspace and Cross-Border airspace		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	42	Work Package No	WP5

Description
AIP Publication of the updated structures

Deliverable D5.27 – AIP publication - SWED

Deliverable Number	D5.27	Lead Beneficiary	21 - SWED
Deliverable Name	AIP publication - SWED		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
AIP publication of the new procedures of ESNQ, ESNU and ESGG

Deliverable D5.28 – Report / conclusions on the most suitable IFPD software for UKSATSE

Deliverable Number	D5.28	Lead Beneficiary	26 - UKSATSE
Deliverable Name	Report / conclusions on the most suitable IFPD software for UKSATSE		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	35	Work Package No	WP5

Description
Report elaborated after the feasibility study and based on OJT cases that describes IFPD software features and conclusions to decide about the most suitable software for UKSATSE

Deliverable D5.29 – FDP Software Acceptance Test document

Deliverable Number	D5.29	Lead Beneficiary	26 - UKSATSE
Deliverable Name	FDP Software Acceptance Test document		
Type	R — Document, report	Dissemination Level	SEN - Sensitive
Due Date (month)	59	Work Package No	WP5

Description
Document that describes the acceptance test and its results

LIST OF MILESTONES

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
1	First Annual Meeting	WP1	1 - EUROCONTROL	Dedicated annual meeting to inform IPPs on Project progress and upcoming processes	11
2	Second Annual Meeting	WP1	1 - EUROCONTROL	Dedicated annual meeting to inform IPPs on Project progress and upcoming processes	23
3	Third Annual Meeting	WP1	1 - EUROCONTROL	Dedicated annual meeting to inform IPPs on Project progress and upcoming processes	35
4	Fourth Annual Meeting	WP1	1 - EUROCONTROL	Dedicated annual meeting to inform IPPs on Project progress and upcoming processes	47
5	Fifth Annual Meeting	WP1	1 - EUROCONTROL	Dedicated annual meeting to inform IPPs on Project progress and upcoming processes	59
6	Communication on EU funding and WP 4 progress	WP1	1 - EUROCONTROL	Posts on SDM website and related social media to inform about IP(s) completed	47
7	Communication on EU funding and WP2, 3 and 5 progress	WP1	1 - EUROCONTROL	Posts on SDM website and related social media to inform about IP(s) completed	59
8	AOC message compression and optimisation deployed on Air France 60 A220 and 60 A350 aircraft	WP2	3 - AIR FRANCE	Message compression and optimisation verification report by Air France	35
9	Cellular technology upgraded on 60 A220, 60 A350 and 10 Boeing 787 aircraft	WP2	3 - AIR FRANCE	Cellular upgraded verification report by Air France	47
10	Communication on EU funding and project progress (WP2)	WP2	3 - AIR FRANCE	Overview of all communication activities performed by each partner during the implementation of the WP	59

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
11	NSAP database batch 1 and 2 deployed on all applicable AF, and TO aircraft	WP2	3 - AIR FRANCE	Deployment verification report by Air France and/or Transavia	59
12	AOC Message optimisation deployed on Transavia France 60 A320NEO aircraft	WP2	3.1 - Transavia	Message compression and optimisation verification report by Transavia	35
13	Cellular technology upgraded on 60 A320NEO Transavia aircraft	WP2	3.1 - Transavia	Cellular upgraded verification report by Transavia	47
14	Validation test completed confirming the correct reception and distribution of AOC offload traffic into the KLM Legacy systems	WP2	24 - KLM	Test results confirming the correct reception and distribution of AOC offload traffic into the KLM Legacy systems	11
15	ACARS over IP deployed	WP2	24 - KLM	Deployment verification document of ACARS over IP	23
16	Delivered equipment and configuration validated	WP2	24 - KLM	Specification Change Notice (SCN) document describing the equipment delivered	59
17	Formal communication to the local NSA about the ACARS upgrade	WP2	24 - KLM	Notification to the NSA	59
18	Communication router software purchase and certification contracted	WP2	5 - Lufthansa	Contract signed for the purchase of the software (procurement procedure at the hardware manufacturer) and the software certification	8
19	Communication router software certification document received	WP2	5 - Lufthansa	Engineering bulletin cover page	11
20	Software update completed for AOC data	WP2	18 - RYANAIR	Update of the software for AOC data sent by Ryanair aircrafts to the server	24
21	Ground-AoIP service procured	WP2	27 - TAP	Contract signed, start of ground AoIP equipment	22
22	ENAIRES decommissioning plan “Plan de	WP3	9 - ENAIRE	Plan document describing ENAIRE’s primary radars to be decommissioned and timing	23

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
	renovación de los radares primarios de ENAIRE” elaborated				
23	Test procedures for the validation of Zaragoza and Rozas ADS-B elaborated	WP3	9 - ENAIRE	Factory and Site Acceptance test procedures for Zaragoza and Rozas ADS-B	35
24	Declaration/Statement of compliance issued and submitted to the EASA/Local NSA (EU 2023/1768)	WP3	9 - ENAIRE	Submission of the Declaration/Statement of compliance by ENAIRE and ORO NAVIGACIJA to EASA/local NSA	59
25	Communication on EU funding and project progress (WP3)	WP3	9 - ENAIRE	Overview of all communication activities performed by each partner during the implementation of the WP	59
26	Decommissioning activities completed as per “ENAIRE decommissioning plan”	WP3	9 - ENAIRE	Decommissioning notice/order	59
27	EASA conspicuity solution specifications defined document elaborated	WP3	22 - RACE	Document describing the EASA conspicuity solution elaborated	12
28	Purchase of 100 devices to equip aircraft with ADS-L EASA solution	WP3	22 - RACE	Delivery notice	29
29	Call for Tender for ATM system upgrade to consume ADS-B data and use it for operations published	WP3	23 - ORO NAVIGACIJA	Tender notice published in the CPPIS (Central Public Procurement Information System)	17
30	Call for Tender for second part of ADS-B infrastructure deployment published	WP3	23 - ORO NAVIGACIJA	Tender notice published in the CPPIS (Central Public Procurement Information System)	17
31	ADS B date use for operations certified by local NSA	WP3	23 - ORO NAVIGACIJA	Request to NSA for the certification for the use of ADS-B	18
32	Contract for ATM system upgrade to consume ADS-B data and use it for operations signed	WP3	23 - ORO NAVIGACIJA	Contract award notice published	24

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
33	Contract for second part of ADS-B infrastructure deployment signed	WP3	23 - ORO NAVIGACIJA	Contract award notice published	24
34	Decommissioning plan for Kaunas primary radar elaborated	WP3	23 - ORO NAVIGACIJA	Decommissioning plan for Kaunas primary radar	47
35	Letter from Oro Navigacija to the NSA notifying the change (Kaunas radar decommissioning) submitted	WP3	23 - ORO NAVIGACIJA	Submission of the letter to the NSA	47
36	Operational and technical staff trained	WP3	23 - ORO NAVIGACIJA	Training certificates signed + list of staff trained	48
37	Kaunas primary radar decommissioned	WP3	23 - ORO NAVIGACIJA	Order on Kaunas PSR decommissioning	59
38	Transponders delivered	WP3	25 - ACRIV	Delivery notice	11
39	CONOPS initial draft	WP3	26 - UKSATSE	Initial draft of the Concept of Operations document elaborated	16
40	Cybersecurity assessment performed	WP3	26 - UKSATSE	Results of cyber-security assessment report	17
41	UkSATSE surveillance infrastructure assessment performed	WP3	26 - UKSATSE	Results of UkSATSE surveillance infrastructure assessment report	20
42	ADS-B evaluation based on current UkSATSE ADS-B stations performed	WP3	26 - UKSATSE	Results of UkSATSE ADS-B stations evaluation report	23
43	Safety assessment performed and submitted	WP3	26 - UKSATSE	Safety assessment performed and submitted to the local NSA	34
44	ENAIRe decommissioning plan “Plan de renovación de los radares primarios de ENAIRe”	WP4	9 - ENAIRe	Plan document describing ENAIRe’s primary radars to be decommissioned and timing	14
45	Test procedures for the validation of the first ADS-B station installed in the Canary Islands elaborated	WP4	9 - ENAIRe	Factory and Site Acceptance test procedures	40

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
46	Decommissioning activities completed as per “ENAIRES decommissioning plan” for Canarias	WP4	9 - ENAIRES	Decommissioning notice/order	59
47	Declaration/Statement of compliance issued and submitted to EASA/Local NSA (EU2023/1768)	WP4	9 - ENAIRES	Submission of the Declaration/Statement of compliance by ENAIRES and NAV PORTUGAL to EASA/local NSA	59
48	Communication on EU funding and project progress (WP4)	WP4	9 - ENAIRES	Overview of all communication activities performed by each partner during the implementation of the WP	59
49	Tender launched for the purchase and installation of the ADB-S stations	WP4	14 - NAV PORTUGAL	Tender notice	13
50	Azores contract signed for the purchase and installation of the ADB-S stations	WP4	14 - NAV PORTUGAL	Contract award notice published or contract signed	17
51	Azores system deployed and validation completed	WP4	14 - NAV PORTUGAL	Azores system deployment validation report	35
52	NAV Portugal decommissioning plan for Azores Islands	WP4	14 - NAV PORTUGAL	Plan document describing NAV Portugal decommissioning plan of the end of life WAM surveillance in the Azores and timing	36
53	Azores system integrated and validation completed	WP4	14 - NAV PORTUGAL	Azores system integration validation report	46
54	Decommissioning activities completed as per “NAV Portugal decommissioning plan”	WP4	14 - NAV PORTUGAL	Decommissioning notice/order	59
55	Decision within Lufthansa Group for LPV being the new standard aircraft specification taken	WP5	5 - Lufthansa	Decision within Lufthansa Group for LPV being the new standard aircraft specification	23

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
56	Request for LPV approval to the NSA - Lufthansa	WP5	5 - Lufthansa	Notification requesting the approval to the NSA	59
57	Communication on EU funding and project progress (WP5)	WP5	5 - Lufthansa	Overview of all communication activities performed by each partner during the implementation of the WP	59
58	SBAS LPV training completed	WP5	3.2 - HOP	Training certificate signed + list of trainees	14
59	SBAS LPV SB and kit procurement completed	WP5	3.2 - HOP	delivery notice accepted	14
60	Request for LPV approval to the NSA - HOP	WP5	3.2 - HOP	Notification requesting the approval to the NSA for LPV	59
61	Vendor / STC for 2nd FMC equipage selected and contract signed	WP5	24 - KLM	Contract award notice published or contract signed	11
62	Vendor / STC for SBAS capability selected and contract signed	WP5	24 - KLM	Contract signed	36
63	Training completed and procedures manuals updated	WP5	24 - KLM	List of Pilots trained in the new upgrade and manuals updated	59
64	Request for LPV request approval to the NSA - KLM	WP5	24 - KLM	Notification requesting the approval to the NSA for LPV	59
65	Contract for Service Bulletin signed	WP5	8 - EEAG	Contract signed	12
66	Service Bulletin delivered	WP5	8 - EEAG	Service Bulletin reception notice	24
67	Operations Manual General/Basic (Part A), Operations Manual Airbus A320 Family – Aircraft (Part B) and Flight Crew Operating Manual elaborated	WP5	8 - EEAG	Operations Manual General/Basic (Part A), Operations Manual Airbus A320 Family – Aircraft (Part B) and Flight Crew Operating Manual	26
68	ENAIRES decommissioning plan “Transition	WP5	9 - ENAIRES	Plan document describing ENAIRES’s NAV aids	14

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
	Plan – Performance Based Navigation Implementation in Spain” elaborated			decommissioning plan including names of NAV AIDS and timing	
69	Safety Assessment LECO, LEAL, LEGR, LEMI and LEST	WP5	9 - ENAIRE	Safety Assessment performed and notified to NSA for LECO, LEAL, LEGR, LEMI and LEST implementation	17
70	Local NSA approval of the LECO, LEAL, LEGR, LEMI and LEST implementation	WP5	9 - ENAIRE	Local NSA communication of the approval	23
71	Submission of the new procedures for AIP Publication	WP5	9 - ENAIRE	Communication to the AIP	54
72	NAV aids decommissioned	WP5	9 - ENAIRE	NOTAM/AIP Amendment out of service of NDB/L and NDB COA, NDB SGO and VOR ALT, NDB/L and NDB/L GRA, NDB/L SO)	59
73	Final decision on the Cross-Border Concept of operations approved	WP5	23 - ORO NAVIGACIJA	Decision on the Cross-Border Concept of operations approved by Baltic FAB governance bodies	23
74	Change request on Cross Border Airspace structure submitted and approved by Lithuanian NSA	WP5	23 - ORO NAVIGACIJA	Approval notice on new Cross Border Airspace structure	47
75	Oro Navigacija decommissioning plan elaborated	WP5	23 - ORO NAVIGACIJA	Oro Navigacija decommissioning plan	47
76	Notification request from Oro Navigacija to the NSA about the change (Vilnius - Kaunas NDB decommissioning) submitted	WP5	23 - ORO NAVIGACIJA	Submission of the notification to the NSA	47
77	Vilnius - Kaunas NDB decommissioned	WP5	23 - ORO NAVIGACIJA	NOTAM/AIP Amendment	59
78	Swedavia decommissioning plan	WP5	21 - SWED	Plan document describing decommissioning	8

Milestones					
<i>Grant Preparation (Milestones screen) — Enter the info.</i>					
Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
				plan published including name of NAV aids decommissioned and timing	
79	Decommissioning of NDB SL and NDB NL	WP5	21 - SWED	Decommissioning of NDB SL and NDB NL	14
80	Decommissioning of NDB VNA, NDB WU and NDB OP	WP5	21 - SWED	NOTAM/AIP Amendment	26
81	Modified procedures of Last airport approved by competent authority	WP5	21 - SWED	NSA approval	40
82	Submission of the new procedures for AIP Publication - SWED	WP5	21 - SWED	New ESNQ, ESNU and ESGG procedures submitted for publication in AIP	48
83	Decommission VOR HMR and VOR TRS	WP5	21 - SWED	NOTAM/AIP Amendment	59
84	Call for Tender launched for the study of the software	WP5	26 - UKSATSE	Contract notice published	23
85	Contract signed for the study	WP5	26 - UKSATSE	Contract award notice published	27
86	PANS OPS Software trainings by UKSATSE IFP designers completed	WP5	26 - UKSATSE	Training certificate	34
87	Call for Tender launched for the selected software	WP5	26 - UKSATSE	Contract notice published	35
88	Contract signed for the selected software	WP5	26 - UKSATSE	Contract award notice published	38

LIST OF CRITICAL RISKS

Critical risks & risk management strategy			
<i>Grant Preparation (Critical Risks screen) — Enter the info.</i>			
Risk number	Description	Work Package No(s)	Proposed Mitigation Measures
1	Complexity in the collection of requested data for the contractual reporting to CINEA. Risk impact: medium Risk likelihood: low	WP1	SDM to use its structured methodology to ensure full coordination of end-to-end monitoring of the project.
2	WPs misalignment and delays compared to the overall planning. Risk impact: medium Risk likelihood: low	WP1	SDM to continuously monitor the evolution of work packages, and periodically collect technical and financial data from all beneficiaries (down to the WP level).
3	Safety Assessment not approved by NSA. Risk impact: high Risk likelihood: medium	WP5, WP4, WP3	Implementing operational stakeholders to notify SDM where the Competent Authority decides to subject to audit the Notified change to the Functional system in accordance with 2017/373. SDM to assist and consult with the implementing operational stakeholder in resolving any reservations raised by the Competent authority.
4	Lack of financial resources due to an incorrect estimation during the planning phase or an increase on the budget (change classified as major change, need to recertificate, etc.). Risk impact: medium Risk likelihood: low	WP2	Close monitoring of the actual expenditures against the budget to identify any deviation early. Engage all necessary actions with avionic vendors to ensure costs remain in acceptable conditions.
5	Delay in the delivery and installation of new avionic devices or ground IT hardware and software. Risk impact: high Risk likelihood: low	WP2	Early engagement with the suppliers having a fluent and continuous channel of communication with them. Inclusion of penalty clauses in the contract, ensure buffers in the plan roadmap to absorb possible delays and plan potential parallel activities.
6	Delays in the certification project (e.g. insufficient implementation of aircraft interfaces specific software, lack of limit engineering capacity for the certification). Risk impact: high Risk likelihood: medium	WP2	Clear assessment and definition of the requirements, close co-ordination with software manufacturer, Conduct Detailed Interface Requirements Analysis, Continuous Integration and Testing. Prioritise certification activities. Elaborate a certification timeline.
7	Delays in the WPs due to the number of participants and longer than expected legal/administrative	WP3	Plan periodic coordination meetings from the early stages of the WPs. Plan the overall project roadmap with appropriate buffers. Share good practices among the partners. Reinforce an active process management to reduce and optimise the internal administrative burden.

Critical risks & risk management strategy			
<i>Grant Preparation (Critical Risks screen) — Enter the info.</i>			
Risk number	Description	Work Package No(s)	Proposed Mitigation Measures
	processes. Risk impact: high Risk likelihood: medium		
8	Lack of resources (human/financial) necessary for successful implementation. Risk impact: high Risk likelihood: medium	WP4, WP3	Reinforce top management's knowledge and commitment to the WP by ensuring the availability of appropriate resources. Possibility to pool resources from different services to maintain the planned schedule. Budget/Cost follow-up and analysis to search for alternative financing possibilities in advance.
9	Delays on the equipment delivery. Risk impact: high Risk likelihood: medium	WP4, WP3	Assess the possibility to use the existing equipment. Ensure the timely publication of call for tenders. Periodic meeting with the vendors ensuring full understanding of the requirements and procurements milestones.
10	Lack of ADS-B ground equipment preventing the ANSP from benefiting of our ADS-B capability, especially when a radar station is unserviceable.	WP3	Identify critical areas where ADS-B ground equipment is most needed, especially in the absence of radar coverage. Strategically place ADS-B ground stations to ensure coverage in key airspace sectors.
11	Delay on the equipment installation. Risk impact: high Risk likelihood: medium	WP4, WP3	Ensure timely purchase of equipment and sufficient resources allocation.
12	Lengthy safety assessment and cybersecurity analysis processes. Risk impact: high Risk likelihood: medium	WP4, WP3	Ensure a clear assessment criteria and structure timeline, provide sufficient and adequate expertise resources.
13	The rapidly evolving landscape of GNSS threats and vulnerabilities and ongoing alignment with the applicable decisions and recommendations from EASA (ref SIB 2022-02 latest) will require the optimisation and decommissioning plans to be reviewed and maintained during the project. This may result in new challenges and the need to adapt the plans going forward. Risk impact: high Risk likelihood: medium	WP4, WP3	IPPs to closely monitor the evolution of the GNSS threats landscape and in coordination with Member states, adjust and evolve their CNS optimization planning with regard for the objectives of the Call in the greatest extent practicable. IPPs to also seek means to increase the robustness and resilience of their infrastructures supporting the provision of CNS services and exposed to the evolving GNSS threats.
14	Delays due to the Ukrainian war situation and lack	WP5, WP3	Prioritise critical activities, implement a flexible budgeting, increase rest of participants support and utilise external support.

Critical risks & risk management strategy			
<i>Grant Preparation (Critical Risks screen) — Enter the info.</i>			
Risk number	Description	Work Package No(s)	Proposed Mitigation Measures
	of resources (human/financial) for the same reason. Risk impact: high Risk likelihood: medium		
15	Lack of resources (human/financial) necessary for successful implementation. Risk impact: high Risk likelihood: medium	WP5	Reinforce top management’s knowledge and commitment to the WP by ensuring the availability of appropriate resources. Possibility to pull resources from different services to maintain the planned schedule. Budget/Cost follow-up and analysis to search for alternative financing possibilities in advance.
16	Difficulties of prioritisation of requirements when several stakeholders are involved. Risk impact: high Risk likelihood: medium	WP5	Establish regular meetings and periodic communication between all the participants aiming at monitoring the WP evolution, sharing risks, issues, and best practices, and jointly implementing mitigation actions.
17	Delays in the WP due to overly complex tender procedures and legal/administrative processes longer than expected. Risk impact: high Risk likelihood: medium	WP5	Plan appropriate stakeholder awareness and coordination meetings (with the MET providers, militaries, and NSA) in the initial stages of the WP. Plan the overall project roadmap (national wide) with appropriate buffers. Share good practices among the partners. Reinforce an active process management to reduce and optimise the internal administrative burden.
18	Delay in the publication of the procedures in the AIP. Risk impact: medium Risk likelihood: low	WP5	Ensure the project planning to publish the procedures with more than one AIRAC cycle.
19	Delay on the validation activities. Risk impact: medium Risk likelihood: low	WP5	Smoothing the distribution of the validation and testing activities. Ensure the sufficient buffer in the project plan, valorate possible parallel activities.
20	Delays in the ATCO training due to the difficulties to perform these activities during the traffic peak periods. Risk impact: high Risk likelihood: low	WP5	Plan training session in advance, with enough time and buffer to absorb possible delays. The workload of the ATCO would be considered in advance to the training sessions. Regular project follow-up Action Management Team (AMT) meetings.
21	Delays on the equipment delivery and installation. Risk impact: high Risk likelihood: medium	WP5	Assess the possibility to use the existing equipment. Ensure the timely publication of call for tenders. Periodic meeting with the vendors and close contact ensuring full understanding of the requirements and procurements milestones. Engage the necessary actions with avionic vendor to ensure the delivery on time with an adequate planning and contract specifications.



ANNEX 1



Connecting Europe Facility (CEF)

Description of the action (DoA)

Part B

Version 1.0
01 September 2024





DESCRIPTION OF THE ACTION (PART B)

PROJECT DESCRIPTION

Overall Objectives

The main objective of the **GREEN CNS** (inteGrated modeRnisation of the EuropEan Network for **CNS**) **Project** is to mark a significant step forward in the **modernisation of the Communication, Navigation and Surveillance (CNS) infrastructure** currently in use in Europe to support the aviation industry.

The CNS infrastructure is composed by a network of ground and airborne systems – located throughout the whole European continent – which are used by aviation stakeholders to ensure a safe, secure, efficient, resilient, and sustainable management of air traffic in the European skies.

To contribute to the overall objectives of the pan-European CNS modernisation and optimisation (which is identified as a global project / project of common interest to which this project refers), the European Union has **issued a set of Implementing Regulations**, whose accelerated and synchronised deployment is identified by the SIMOBGEN Call as an urgent priority to be achieved.

In order to facilitate the EU-wide adoption of these Regulations, the **GREEN CNS** Project includes **four wide-ranging multistakeholder Implementation Projects (IPs)**, which are **targeting all the following priorities**:

- In the Navigation domain, with regard to the adoption of the **PBN (Performance Based Navigation) Regulation**, i.e. Regulation (EU) 2018/1048, the Call foresees:
 - o ground stakeholders to **implement dedicated arrival, departure (SID/STARs) and approach routes and procedures** (SIDs and STARs) in the airspace surrounding the airports, as a way to enable safer, better performing and more sustainable (i.e. cutting unnecessary CO₂ emissions) operations of landing and departing aircraft;
 - o aircraft operators to **equip their fleet with specific avionics** which enables the use of such routes and procedures (e.g. RNP1/RNAV 1 SIDs and STARs) and **SBAS-capable avionics**, i.e. avionics that can make use of Satellite-Based Augmentation Systems and therefore open the door to reducing the dependence on ground-based and less efficient legacy infrastructure;
- In the Communications domain, with regard to the adoption of the **Datalink Services Regulation**, i.e. Regulation (EC) 29/2009 and following amendments, the Call offers the possibility for airlines to:
 - o update / **upgrade their on-board avionics** to ensure communications between the ground and the aircraft can occur via datalink services (instead of traditional voice communications) **without any technical or operational restriction, improving the performance of the systems**;
 - o **implement airborne-based or ground systems upgrades to switch the Airline Operational Control communications** from the current VHF air-ground digital link (VDL) Mode 2 (also used for ATC purposes) to other technologies in order to optimise the data usage and alleviate the bandwidth of VDL Mode 2.
- In the Surveillance domain, with regard to the adoption of the **SPI Regulation**, i.e. Regulation (EU) 1207/2011 (now superseded by Regulation (EU) 2023/1770), the Call supports the **synchronised evolution of airborne and ground infrastructure**, in particular fostering the deployment and **operational use of ADS-B technology** as a surveillance means, in order to reduce costs, rationalise the underpinning technology and support a better usage of the existing spectrum.

To address these priorities, the project involves both **major ground stakeholders** and some of **the largest EU-based commercial airlines**, as a way to coordinate investments both on the airborne and ground side, fostering synchronisation and allowing an accelerated capturing of the performance benefits.

The GREEN CNS engages **30 operational stakeholders** (including the **Ukrainian ANSP, UKSATSE**), benefitting from the direct oversight of the SESAR Deployment Manager (SDM), which acts as coordinator of the project.

The full list of the work packages included in the **GREEN CNS** project is reported below, along with their distinctive ID numbering each corresponding to the specific work package:

- **WP2: 2023_100_COM** – engaging six of the largest EU-based airlines (Air France, KLM, Lufthansa, TAP, Ryanair, Transavia) and set to **improve the way the communication infrastructure is used by ATM (Air Traffic Management) stakeholders and address the**

**existing Datalink issues and limitations.**

In particular, the work package will allow the participating airlines to **perform the necessary avionics and software upgrades** to overcome the existing constraints in using Controller Pilot Datalink Communications (CPDLC), as well as to **offload non-time critical data exchanges from the existing VDL Mode 2 link to other communication channels** (i.e. installing new avionics or on-board equipment, adapting the ground IT systems, optimising the Airline Operational Control (AOC) messages to reduce the volume of data, etc.).

- **WP3: 2023_200_SUR_EUR** – significantly contributing to deploying ADS-B throughout Europe, supporting the evolution and **modernisation of the Surveillance infrastructure** of the European ATM Network, focusing **both on ground systems** (e.g. in Spain and Lithuania) and on the **equipping of around 170 general aviation aircraft** willing to install ADS-B avionics onboard to facilitate the rationalisation of the ground infrastructure (including – as a start – the decommissioning of two primary radars). Moreover, the work package also **widens its scope to Ukraine**, in order to further integrate the country into the EATM (European Air Traffic Management) Network and prepare the rollout of ADS-B once the local geopolitical situation allows it.
- **WP4: 2023_200_SUR_OMR** – mirroring the content of its “twinned” SUR IP, focusing on the modernisation of the **Surveillance infrastructure within the Outermost Regions (OMR)** of the EU, i.e. into **Canary Islands** and the **Azores archipelago**. The IP will also lead to the integration of ADS-B into operations with sensors located in **Mauritania**, thus supporting the surveillance of air traffic movements in the airspace of the Canary Islands.
- **WP5: 2023_300_NAV** – marking a **critical acceleration in the adoption of the PBN Regulation** and anticipating its 2028 deadline, the work package will bring together both **ground and airborne stakeholders**. The objective is to implement SIDs and STARs using PBN specifications within **Spain, Lithuania and Sweden** and – at the same time – enable **six of the largest EU-headquartered airlines** (Air France, easyJet, Hop!, KLM, Lufthansa, and Transavia) to use such procedures thanks to the **on-board equipping of PBN and SBAS avionics** on almost 450 aircraft. In addition, as part of this work package, the **Ukrainian ANSP – UkSATSE** – will identify the most suitable way forward to move to Performance Based Navigation in order to meet both local and EU requirements on the matter, further integrating the country within the European ATM Network.

The project coordination activities performed by Eurocontrol / SDM are covered in work package 1 (WP1).

General description and context

The four technical work packages and one horizontal WP composing the GREEN CNS project are inscribed in the wider framework of the CNS evolution in Europe, which is in turn **one of the most critical objectives of the SESAR programme**, the ambitious technological programme launched by the European Commission (EC) in 2004 to increase the overall efficiency of ATM operations throughout the European airspace.

Improving the way, the Communications, Navigation and Surveillance infrastructure is managed and operated in Europe is a key element to build a **safer, more effective, resilient, secure, cost-efficient, and especially environmentally sustainable** ATM industry in Europe. This objective is fully in line with the ambition of the TEN-T framework, as it helps to “*promote an efficient use*” of the EU aviation infrastructure and supports the “*operation of sustainable and efficient transport services*”.

Its timely and accelerated implementation is a critical priority for the EU, as well as for the aviation and ATM stakeholders: considering the expected return of traffic demand in the coming 3-to-5 years, it is **essential that the overall CNS infrastructure gets closer to its overall objectives of efficiency, resilience, safety and environmental sustainability**.

More efficient ATM operations – as fostered by better-performing and more modern CNS infrastructure – are also considered as the most critical short-to-medium term tool for aviation to contribute to the **overall decarbonisation objectives of the EU**.

In particular, the effective operational use of **PBN, Datalink and ADS-B** is a key enabler for **optimising the flight profiles of aircraft**, therefore allowing to reduce unnecessary emissions of CO₂ and non-CO₂ emissions in the atmosphere (thanks to more precise routing of aircraft, shorter or optimised flight paths, better profile descents, etc.).

Moreover, CNS optimisation opens the door to the rationalisation, replacement and decommissioning of the **energy-intensive legacy infrastructure**, thus allowing for additional energy savings which could contribute to the reduction of the overall carbon footprint of ATM operations.



The GREEN CNS project – which aims at deploying some of the more urgent elements dealing with CNS in a synchronised manner across all Europe – is considered as an **essential enabler** to allow the aviation sector to accelerate its transition to **greener, safer, more integrated, and more efficient operations** in the short-term.

Location

The GREEN CNS project has an **inherent pan-European dimension** and will bring benefits to the air transport industry even beyond the EU Member States (MSs), as:

- it includes **dedicated tasks to be executed by the Ukrainian ANSP**, UKSATSE, which will support the modernisation of the future evolution of the Navigation and Surveillance infrastructure in the country, favouring the alignment of its technological ATM systems with those operated within the EU and further integrating Ukraine within the TEN-T Network;
- it includes, as part of the surveillance-related work package, specific activities that aim at optimising, modernising, and making more efficient the **surveillance infrastructure located within the outermost regions of the Canary Islands and the Azores Islands**, thus supporting a more efficient connectivity of these Regions with the rest of the EU territories;
- it engages commercial airlines such as Air France (plus Hop! and Transavia), easyJet, Lufthansa, KLM, Ryanair, TAP, whose **operating scope not only covers the whole geographical scope of the European Union** (i.e. all 27 EU MSs), but **also extends to all neighboring countries** (including States which are candidates to join the EU or have initiated their accession process). Equipping better-performing avionics on the fleet of these airlines, improving their communication and navigation systems will benefit the whole pan-European ATM industry, and further push forward the modernisation of CNS systems and infrastructure.

The unparalleled cross-border dimension of the project is corroborated by the following elements:

The **30** organisations participating in this GREEN CNS project are located or head-quartered across **18** MSs. All combined, these countries represent up to **85% of the EU geographical scope**, as well as almost **92% of the EU population**, as well as around **90%** of the air traffic volumes operated in Europe. The project also directly engages Ukrainian stakeholders in the implementation activities, expanding the location of the Project by an **additional 776.000 km²** of airspace;

The four technical work packages included in the project will **directly – or indirectly – affect all EU MSs**, as well as the countries **within the full scope of the European ATM Network**, as the significant engagement of some of the major airlines will support smoother, more efficient and more environmentally sustainable air traffic operations across more than 40 States (including both EU and neighbouring Countries), such as: Albania, Armenia, Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Republic of Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Georgia, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Kosovo, Malta, Republic of Moldova, Montenegro, Netherlands, Norway, North Macedonia, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye, Ukraine, United Kingdom.

Justification

As previously mentioned, the four technical work packages – coordinated by the SDM – will significantly support the objectives of the SIMOBGEN Call, as they contribute to the effective implementation of **Performance Based Navigation, Datalink Services and ADS-B** across Europe, i.e. the elements which are identified by the Call text for urgent deployment.

Their effective and synchronised implementation at pan-European level will help to address and tackle some of the most urgent operational needs of the ATM industry, i.e.:

- traditionally, the **CNS infrastructure** network is composed of a **combination of nationally-defined, owned and operated systems and components**, which has sometimes led to a sub-optimal distribution of ground equipment across the European countries. Its modernisation, optimisation, as well as the possibility to leverage on satellite-based technologies, is considered essential to **reduce the overall cost of the infrastructure**, but also to increase its operational performances and efficiency;
- **the 2022-2023 recovery of air traffic volumes** is set to anticipate a consistent growth of flights across the European skies in the upcoming decade. It is estimated that – by 2029 – the



European ATM network would be ready to accommodate additional 2.5 million flights per year, compared to 2022 figures. The **existing CNS infrastructure is poised to face limitations** when challenged by such relevant traffic growth, which could result in degraded performances, if it is not adequately modernised;

- the steady growth of the traffic in Europe also **compels operational stakeholders to make the ATM system more and more efficient**, in order to decrease the risks of congestion and allow airspace users to avoid any inefficiency in their operations and adopt improved trajectories when they are crossing the European sky, or landing / departing into European airports. It is essential that ATM stakeholders' investments are adequately synchronised and accelerated to make sure **airlines can fly improved and more environmentally sustainable flight paths**. At the same time, the switch to new- generation CNS infrastructure would also reduce the overall energy consumption of the ground network, indirectly contributing to the decarbonisation objectives of the EU.

To cope with such risk, ATM stakeholders (both on the airborne and ground side) are required to **switch to more modern, digital, and efficient technologies**, that would support the communication, navigation and surveillance needs into any of the upcoming challenges.

Expected outcomes and results

Considering the elements presented above, the **GREEN CNS** project – once completed – will accelerate and push significantly ahead the modernisation of the European Communication, Navigation and Surveillance infrastructure.

This is **a critical enabler for the improvement of ATM operations** across Europe, as well as for an increased sustainability of the European aviation industry as a whole.

With an investment of **€106 mln** between 2024 and 2028, all **30** organisations participating in the project will make sure that ATM in Europe will **better adhere to the required standards of safety, resilience, security, efficiency, interoperability, and environmental sustainability**.

With implementation activities spanning across **18** Countries and with the direct engagement of critical airlines like Air France, EEAG, Hop!, Lufthansa, KLM, Ryanair, TAP, Transavia, the GREEN CNS project marks a significant step forward in CNS modernisation, as well as a pioneering example of multi-stakeholder synchronisation of investments.

ANNEXES

LIST OF ANNEXES

Subcontracting table — *mandatory*

**SUBCONTRACTING TABLE**

Subcontracting			
<p><i>Give details on subcontracted action tasks (if any).</i></p> <p><i>Subcontracts must be awarded using your usual purchasing practices – provided that they ensure best value for money and no conflict of interests. If you are a ‘contracting authority/entity’ within the meaning of the EU Directives on public procurement, you must also comply with the applicable national law on public procurement.</i></p> <p>Note: <i>The coordinator remains fully responsible for the coordination tasks, even if they are delegated to someone else. Coordinator tasks cannot be subcontracted.</i></p>			
Task number to be subcontracted (follow the numbering in the grant agreement)	Name of task to be subcontracted	Description (Describe briefly the part of the task to be subcontracted and indicate the BEN responsible)	Estimated Costs (EUR)
Tasks 1.1 – 1.5 – WP1	Project Coordination; Project monitoring and reporting; Financial management: payments, checks and audits; Project Information management; Communication management for stakeholder support	Contract with several time-based consultants to provide support on all SDM WP1 coordination tasks, assessment of milestones and deliverables. In addition, two main contracts aimed at supporting the SDM website and Partner Area and Star Tool. Beneficiary: EUROCONTROL	420,769
Tasks 1.1 – 1.5 – WP1	Project Coordination; Project monitoring and reporting; Financial management: payments, checks and audits; Project Information management; Communication management for stakeholder support	Contracting several time-based consultants to provide support on all SDM WP1 coordination tasks, assessment of milestones and deliverables. Beneficiary: ACI	720,219
Task 2.2 – WP2	T2.2 AIR FRANCE Implementation	<ul style="list-style-type: none"> Contract for: “Deployment of ACARS over IP function on Air France Group fleets”. Amount: € 5,000 Contract for: “Offload of AOC data to Off-the-shelf communication technologies”. Amount: € 1,600,000 Beneficiary: AIR FRANCE	1,605,000
Task 2.2 – WP2	T2.2 AIR FRANCE Implementation	<ul style="list-style-type: none"> Contract for: “Optimisation of AOC traffic through VDL2 on Air France Group fleets”. Amount: € 30,000 Contract for: “Deployment of ACARS over IP function on Air France Group fleets”. Amount: € 1,645,000 Contract for: “Offload AOC data to Off-the-shelf communication technologies”. Amount: € 300,000 Beneficiary: Transavia	1,975,000
Task 2.3 – WP2	T2.3 Transavia Implementation	<ul style="list-style-type: none"> Contract for: “Install Spectralux Mod 7 on Transavia France 737”. Amount: € 20,000 	1,743,000



		<ul style="list-style-type: none"> Contract for: "Install Honeywell CMU 514 on Transavia France 737". Amount: € 1,420,000 Contract for: "Deploy NSAP database on Air France Group fleets". Amount: € 303,000 <p>Beneficiary: Transavia</p>	
Task 2.3 – WP2	T2.3 Transavia Implementation	<p>Contract for: "Deploy NSAP database on Air France Group fleets".</p> <p>Beneficiary: AIR FRANCE</p>	601,000
Task 2.4 – WP2	T2.4 KLM Implementation	<p>Contract for: "KLM A32N fleet linefit options for ACARS Over IP".</p> <p>Beneficiary: KLM</p>	964,740
Task 2.5 – WP2	T2.5 Lufthansa Implementation	<ul style="list-style-type: none"> Contract for: "Purchase Software". Amount: € 497,773 Contract for: "Certify Software". Amount: € 270,000 <p>Beneficiary: Lufthansa</p>	767,773
Task 2.6 – WP2	T2.6 RYANAIR Implementation	<ul style="list-style-type: none"> Contract for: "Procurement of equipment". Amount: € 5,000,000 Contract for: "Aircraft Equipage". Amount: € 78,000 <p>Beneficiary: RYANAIR</p>	5,078,000
Task 2.7 – WP2	T2.7 TAP Implementation	<p>Contract for: "ACARS over IP".</p> <p>Beneficiary: TAP</p>	2,300,790
Task 3.2 – WP3	T3.2 ENAIRE ADS-B Implementation	<ul style="list-style-type: none"> Contract for: "Deployment in Zaragoza". Amount: € 30,000 Contract for: "Deployment in Southern Regions of Spain". Amount: € 60,000 Contract for: "Deployment in secondary airfields". Amount: € 75,000 Contract for: "Management and co-ordination". Amount: € 15,000 Contract for: "Validation Activities". Amount: € 10,000 Contract for: "Integration of ADS-B network into the Automation System". Amount: € 10,000 Contract for: "Supply this information to General Aviation through B2B services". Amount: € 5,000 <p>Beneficiary: ENAIRE</p>	205,000
Task 3.3 – WP3	T3.3 ORO NAVIGACIJA ADS-B Implementation	<ul style="list-style-type: none"> Contract for: "Deployment of ADS-B system". Amount: € 1,600,000 Contract for: "Enable to process ADS-B data and provide it to ANS systems". Amount: € 400,000 Contract for: "Development, upgrading and adaptation of ANS systems to use ADS-B data for operations". Amount: € 333,000 <p>Beneficiary: ORO NAVIGACIJA</p>	2,333,000
Task 3.4 – WP3	T3.4 ACRIV Implementation	<ul style="list-style-type: none"> Contract for: "Cessna 172S (F-GVPT) upgrade". Amount: € 1,980 Contract for: "Cessna 172N (F-GAQO) upgrade". Amount: € 4,371 	17,255



		<ul style="list-style-type: none"> Contract for: "Robin DR400-160 (F-GUXH)". Amount: € 8,741 Contract for: "CAP10C (F-GDTJ) upgrade". Amount: € 2,163 <p>Beneficiary: ACRIV</p>	
Task 4.2 – WP4	T4.2 ENAIRE Implementation	<p>Contract for: "Deployment Canaries and Nouadhibou".</p> <p>Beneficiary: ENAIRE</p> <p>N.B. in the "Annex 1 – Description of the Action (part B – Detailed Budget Table per Reporting Period)", these costs are reported under "D.4 Works in outermost regions" category.</p>	200,000
Task 4.3 – WP4	T4.3 NAV Portugal Implementation	<p>Contract for: "ADS-B deployment in Azores Islands and installation".</p> <p>Beneficiary: NAV Portugal</p> <p>N.B. in the "Annex 1 – Description of the Action (part B – Detailed Budget Table per Reporting Period)", these costs are reported under "D.4 Works in outermost regions" category.</p>	1,456,880
Task 5.2 – WP5	T5.2 Lufthansa Implementation	<p>Contract for: "Activation and implementation of SBAS avionics and software A350".</p> <p>Beneficiary: Lufthansa</p>	1,674,546
Task 5.3 – WP5	T5.3 AIR France Group implementation	<p>Contract for: "Install SBAS LPV capability on AFR A350 aircraft".</p> <p>Beneficiary: AIR FRANCE</p>	2,163,000
Task 5.3 – WP5	T5.3 AIR France Group implementation	<p>Contract for: "Install SBAS LPV capability on Hop Embraer aircraft".</p> <p>Beneficiary: HOP</p>	2,800,000
Task 5.3 – WP5	T5.3 AIR France Group implementation	<p>Contract for: "Install SBAS LPV capability on TO A320NEO aircraft".</p> <p>Beneficiary: Transavia</p>	2,428,400
Task 5.4 – WP5	T5.4 KLM Implementation	<ul style="list-style-type: none"> Contract for: "KLM A32N fleet linefit options SBAS capability". Amount: € 1,463,700 Contract for: "KLM 777 fleet retrofit installation of SBAS capability". Amount: € 3,100,000 Contract for: "KLM 787 fleet retrofit installation of SBAS capability". Amount: € 2,800,000 Contract for: "KLM 737 fleet retrofit installation of 2nd FMC". Amount: € 9,550,000 Contract for: "KLM A350 fleet linefit options SBAS capability". Amount: € 2,004,600 <p>Beneficiary: KLM</p>	18,918,300
Task 5.5 – WP5	T5.5 EEAG implementation	<ul style="list-style-type: none"> Contract for: "Forward Fit A320 (Austrian fleet)". Amount: € 2,100,000 Contract for: "Retrofit of A320 of EasyJet Swiss and Austrian fleets". Amount: € 1,623,000 <p>Beneficiary: EEAG</p>	3,723,000
Task 5.6 – WP5	T5.6 ENAIRE Implementation	<ul style="list-style-type: none"> Contract for: "A Coruña RNP APCH and RNAV1 SID/STAR". Amount: € 75,804 Contract for: "Alicante RNP APCH and RNAV1 	392,525



		<p>SID/STAR". Amount: € 86,608</p> <ul style="list-style-type: none"> Contract for: "Granada RNP APCH and RNAV1 SID/STAR". Amount: € 75,804 Contract for: "Murcia Corvera RNP APCH and RNAV1 SID/STAR". Amount: € 78,505 Contract for: "Santiago RNP APCH and RNAV1 SID/STAR". Amount: € 75,804 <p>Beneficiary: ENAIRE</p>	
Task 5.7 – WP5	T5.7 ORO NAVIGACIJA implementation	<p>Contract for: "Analysis, Development and Deployment of a New RNP related airspace structure (for all international Airports in Lithuania, including a network of SIDs and STARs, CCO and CDO operations, and GNSS and Cross-Border Airspace for Cross-B".</p> <p>Beneficiary: ORO NAVIGACIJA</p>	1,475,000
Task 5.8 – WP5	T5.8 SWEDAVIA Implementation	<ul style="list-style-type: none"> Contract for: "Swedavia task management". Amount: € 1,850 Contract for: "Implement RNAV SIDs STARs at ESNU". Amount: € 15,000 Contract for: "Implement RNAV SIDs STARs at ESNQ". Amount: € 15,000 Contract for: "Implement Approach Procedures replacing conventional approach procedures (NDB SL and NDB NL)". Amount: € 20,000 Contract for: "NSA Approval". Amount: € 55,000 <p>Beneficiary: SWEDAVIA</p>	106,850
Task 5.9 – WP5	T5.9 UKSATSE implementation	<ul style="list-style-type: none"> Contract for: "IFPD Software feasibility study". Amount: € 1,800,000 Contract for: "Software procurement". Amount: € 2,000,000 <p>Beneficiary: UKSATSE</p>	3,800,000

HISTORY OF CHANGES

VERSION	PUBLICATION DATE	CHANGE
1.0	08/10/2024	Initial version.

ANNEX 1

DETAILED BUDGET BREAKDOWN PER REPORTING PERIOD

Estimated eligible costs (per budget category)																	Estimated EU contribution				
Direct costs															Indirect costs		Total costs	EU contribution to eligible costs			Total requested EU contribution
A. Personnel costs		B. Subcontracting costs		C. Purchase costs				D. Other cost categories					E. Indirect costs	Funding rate %	Maximum EU contribution	Requested EU contribution					
Forms of funding	A.1 Employees (or equivalent)		A.2 Natural persons under direct contract	A.3 Seconded persons	C.1 Travel and subsistence			C.2 Equipment	C.3 Other goods, works and services	D.1 Financial support to third parties	D.2 Studies	D.3 Synergetic elements	D.4 Works in outermost regions	D.5 Land purchases	Flat-rate costs	f = a+b+c+d	V, W, X	g ²	h	m	
	Actual costs	Unit costs (usual accounting practices)			Unit costs	Actual costs	Actual costs														Actual costs
	a1	a2	a3	b	c1a	c1b	c1c	c2	c3	d1a	d2	d3	d4	d5	e ¹						
Reporting period 1																					
1 - EUROCONTROL	282 268.00	0.00	0.00	120 971.00	28 085.00	37 307.00	14 513.00	11 613.00	145 970.00	0.00	0.00	0.00	0.00	0.00	0.00	640 727.00	50, 50, 70	320 363.50	320 363.50	320 363.50	
2 - ACI EUROPE	0.00	0.00	0.00	207 063.00	0.00	0.00	0.00	0.00	3 939.00	0.00	0.00	0.00	0.00	0.00	0.00	211 002.00	50, 50, 70	105 501.00	105 501.00	105 501.00	
3 - AIR FRANCE	331 305.00	0.00	0.00	986 800.00	13 009.00	3 997.00	1 555.00	0.00	984.00	0.00	0.00	0.00	0.00	0.00	0.00	1 337 650.00	50, 50, 70	668 825.00	668 825.00	668 825.00	
3.1 - Transavia	62 700.00	0.00	0.00	2 823 100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2 885 800.00	50, 50, 70	1 442 900.00	1 442 900.00	1 442 900.00	
3.2 - HOP	102 000.00	0.00	0.00	2 800 000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2 902 000.00	50, 50, 70	1 451 000.00	1 451 000.00	1 451 000.00	
4 - Croatia Control	7 739.00	0.00	0.00	0.00	533.00	708.00	276.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00	0.00	9 430.00	50, 50, 70	4 715.00	4 715.00	4 715.00	
5 - Lufthansa	86 805.00	0.00	0.00	1 426 864.00	3 009.00	3 997.00	1 555.00	0.00	984.00	0.00	0.00	0.00	0.00	0.00	0.00	1 523 214.00	50, 50, 70	761 607.00	761 607.00	761 607.00	
6 - DFS	61 915.00	0.00	0.00	0.00	4 264.00	5 664.00	2 203.00	0.00	1 391.00	0.00	0.00	0.00	0.00	0.00	0.00	75 437.00	50, 50, 70	37 718.50	37 718.50	37 718.50	
7 - DSN	30 957.00	0.00	0.00	0.00	2 132.00	2 833.00	1 102.00	0.00	696.00	0.00	0.00	0.00	0.00	0.00	0.00	37 720.00	50, 50, 70	18 860.00	18 860.00	18 860.00	
8 - EEAG	63 205.00	0.00	0.00	3 723 000.00	3 009.00	3 997.00	1 555.00	0.00	984.00	0.00	0.00	0.00	0.00	0.00	0.00	3 795 750.00	50, 50, 70	1 897 875.00	1 897 875.00	1 897 875.00	
9 - ENAIRE	16 574 492.00	0.00	0.00	507 525.00	13 198.00	4 248.00	1 652.00	995 000.00	1 043.00	0.00	0.00	0.00	1 278 500.00	0.00	0.00	19 375 658.00	50, 50, 70	9 943 529.00	9 943 529.00	9 943 529.00	
10 - ENAV	92 872.00	0.00	0.00	0.00	6 396.00	8 497.00	3 305.00	0.00	2 087.00	0.00	0.00	0.00	0.00	0.00	0.00	113 157.00	50, 50, 70	56 578.50	56 578.50	56 578.50	
11 - HUNGAROCNTROL	30 957.00	0.00	0.00	0.00	2 132.00	2 833.00	1 102.00	0.00	696.00	0.00	0.00	0.00	0.00	0.00	0.00	37 720.00	50, 50, 70	18 860.00	18 860.00	18 860.00	
12 - AIRNAV Ireland	7 739.00	0.00	0.00	0.00	533.00	708.00	276.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00	0.00	9 430.00	50, 50, 70	4 715.00	4 715.00	4 715.00	
13 - LFV	22 739.00	0.00	0.00	0.00	533.00	708.00	276.00	0.00	7 174.00	0.00	0.00	0.00	0.00	0.00	0.00	31 430.00	50, 50, 70	15 715.00	15 715.00	15 715.00	
14 - NAV PORTUGAL	7 739.00	0.00	0.00	0.00	533.00	708.00	276.00	0.00	174.00	0.00	0.00	0.00	779 210.00	0.00	0.00	788 640.00	50, 50, 70	550 162.00	550 162.00	550 162.00	
15 - NAVIAIR	7 739.00	0.00	0.00	0.00	533.00	708.00	276.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00	0.00	9 430.00	50, 50, 70	4 715.00	4 715.00	4 715.00	
16 - PANS	30 957.00	0.00	0.00	0.00	2 132.00	2 833.00	1 102.00	0.00	696.00	0.00	0.00	0.00	0.00	0.00	0.00	37 720.00	50, 50, 70	18 860.00	18 860.00	18 860.00	
17 - ROMATSA	30 957.00	0.00	0.00	0.00	2 132.00	2 833.00	1 102.00	0.00	696.00	0.00	0.00	0.00	0.00	0.00	0.00	37 720.00	50, 50, 70	18 860.00	18 860.00	18 860.00	
18 - RYANAIR	109 205.00	0.00	0.00	2 534 000.00	4 009.00	3 997.00	1 555.00	0.00	984.00	0.00	0.00	0.00	0.00	0.00	0.00	2 653 750.00	50, 50, 70	1 326 875.00	1 326 875.00	1 326 875.00	
19 - BULATSA	30 957.00	0.00	0.00	0.00	2 132.00	2 833.00	1 102.00	0.00	696.00	0.00	0.00	0.00	0.00	0.00	0.00	37 720.00	50, 50, 70	18 860.00	18 860.00	18 860.00	
20 - Austro Control	7 739.00	0.00	0.00	0.00	533.00	708.00	276.00	0.00	174.00	0.00	0.00	0.00	0.00	0.00	0.00	9 430.00	50, 50, 70	4 715.00	4 715.00	4 715.00	
21 - SWED	253 450.00	0.00	0.00	70 700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	324 150.00	50, 50, 70	162 075.00	162 075.00	162 075.00	
22 - RACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	209 500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	209 500.00	50, 50, 70	104 750.00	104 750.00	104 750.00	
23 - ORO NAVIGACIJA	489 000.00	0.00	0.00	1 495 000.00	84 000.00	0.00	0.00	0.00	29 000.00	0.00	0.00	0.00	0.00	0.00	0.00	2 097 000.00	50, 50, 70	1 048 500.00	1 048 500.00	1 048 500.00	
24 - KLM	2 315 000.00	0.00	0.00	10 429 180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12 744 180.00	50, 50, 70	6 372 090.00	6 372 090.00	6 372 090.00	
25 - ACRIV	0.00	0.00	0.00	17 255.00	3 587.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20 842.00	50, 50, 70	10 421.00	10 421.00	10 421.00	
26 - UKSATSE	90 650.00	0.00	0.00	600 000.00	91 250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	781 900.00	50, 50, 70	390 950.00	390 950.00	390 950.00	

Estimated eligible costs (per budget category)																	Estimated EU contribution				
Direct costs															Indirect costs		Total costs	EU contribution to eligible costs			Total requested EU contribution
A. Personnel costs		B. Subcontracting costs		C. Purchase costs			D. Other cost categories					E. Indirect costs	Funding rate %	Maximum EU contribution	Requested EU contribution						
Forms of funding	Actual costs	Unit costs (usual accounting practices)	Unit costs	Actual costs	C.1 Travel and subsistence		C.2 Equipment	C.3 Other goods, works and services	D.1 Financial support to third parties	D.2 Studies	D.3 Synergetic elements	D.4 Works in outermost regions				D.5 Land purchases	Flat-rate costs	f = a+b+c+d	V, W, X	g ²	h
					Travel	Accommodation							Subsistence	c1a	c1b						
	a1	a2	a3	b	c1a	c1b	c1c	c2	c3	d1a	d2	d3	d4	d5	e ¹	f = a+b+c+d	V, W, X	g ²	h	m	
27 - TAP	159 000.00	0.00	0.00	714 230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	873 230.00	50, 50, 70	436 615.00	436 615.00	436 615.00	
28 - SKYGUIDE																					
Total	21 290 086.00	0.00	0.00	28 455 688.00	267 674.00	90 117.00	35 059.00	1 216 113.00	198 890.00	0.00	0.00	0.00	2 057 710.00	0.00	0.00	53 611 337.00		27 217 210.50	27 217 210.50	27 217 210.50	
Reporting period 2																					
1 - EUROCONTROL	466 356.00	0.00	0.00	199 866.00	46 402.00	61 638.00	23 978.00	19 186.00	241 168.00	0.00	0.00	0.00	0.00	0.00	0.00	1 058 594.00	50, 50, 70	529 297.00	529 297.00	529 297.00	
2 - ACI EUROPE	0.00	0.00	0.00	342 104.00	0.00	0.00	0.00	0.00	6 508.00	0.00	0.00	0.00	0.00	0.00	0.00	348 612.00	50, 50, 70	174 306.00	174 306.00	174 306.00	
3 - AIR FRANCE	551 982.00	0.00	0.00	2 237 800.00	20 972.00	6 604.00	2 570.00	0.00	1 626.00	0.00	0.00	0.00	0.00	0.00	0.00	2 821 554.00	50, 50, 70	1 410 777.00	1 410 777.00	1 410 777.00	
3.1 - Transavia	71 900.00	0.00	0.00	2 381 700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2 453 600.00	50, 50, 70	1 226 800.00	1 226 800.00	1 226 800.00	
3.2 - HOP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50, 50, 70	0.00	0.00	0.00	
4 - Croatia Control	12 786.00	0.00	0.00	0.00	880.00	1 170.00	456.00	0.00	288.00	0.00	0.00	0.00	0.00	0.00	0.00	15 580.00	50, 50, 70	7 790.00	7 790.00	7 790.00	
5 - Lufthansa	100 842.00	0.00	0.00	888 182.00	4 972.00	6 604.00	2 570.00	0.00	1 626.00	0.00	0.00	0.00	0.00	0.00	0.00	1 004 796.00	50, 50, 70	502 398.00	502 398.00	502 398.00	
6 - DFS	102 294.00	0.00	0.00	0.00	7 044.00	9 358.00	3 640.00	0.00	2 298.00	0.00	0.00	0.00	0.00	0.00	0.00	124 634.00	50, 50, 70	62 317.00	62 317.00	62 317.00	
7 - DSN	51 146.00	0.00	0.00	0.00	3 522.00	4 680.00	1 820.00	0.00	1 150.00	0.00	0.00	0.00	0.00	0.00	0.00	62 318.00	50, 50, 70	31 159.00	31 159.00	31 159.00	
8 - EEAG	71 382.00	0.00	0.00	0.00	4 972.00	6 604.00	2 570.00	0.00	1 626.00	0.00	0.00	0.00	0.00	0.00	0.00	87 154.00	50, 50, 70	43 577.00	43 577.00	43 577.00	
9 - ENAIRE	12 521 401.00	0.00	0.00	75 000.00	20 284.00	7 018.00	2 730.00	1 230 000.00	1 724.00	0.00	0.00	0.00	1 282 000.00	0.00	0.00	15 140 157.00	50, 50, 70	7 826 478.50	7 826 478.50	7 826 478.50	
10 - ENAV	153 440.00	0.00	0.00	0.00	10 568.00	14 038.00	5 460.00	0.00	3 448.00	0.00	0.00	0.00	0.00	0.00	0.00	186 954.00	50, 50, 70	93 477.00	93 477.00	93 477.00	
11 - HUNGAROCNTROL	51 146.00	0.00	0.00	0.00	3 522.00	4 680.00	1 820.00	0.00	1 150.00	0.00	0.00	0.00	0.00	0.00	0.00	62 318.00	50, 50, 70	31 159.00	31 159.00	31 159.00	
12 - AIRNAV Ireland	12 786.00	0.00	0.00	0.00	880.00	1 170.00	456.00	0.00	288.00	0.00	0.00	0.00	0.00	0.00	0.00	15 580.00	50, 50, 70	7 790.00	7 790.00	7 790.00	
13 - LfV	42 036.00	0.00	0.00	0.00	880.00	1 170.00	456.00	0.00	288.00	0.00	0.00	0.00	0.00	0.00	0.00	44 830.00	50, 50, 70	22 415.00	22 415.00	22 415.00	
14 - NAV PORTUGAL	12 786.00	0.00	0.00	0.00	880.00	1 170.00	456.00	0.00	288.00	0.00	0.00	0.00	970 790.00	0.00	0.00	986 370.00	50, 50, 70	687 343.00	687 343.00	687 343.00	
15 - NAVIAIR	12 786.00	0.00	0.00	0.00	880.00	1 170.00	456.00	0.00	288.00	0.00	0.00	0.00	0.00	0.00	0.00	15 580.00	50, 50, 70	7 790.00	7 790.00	7 790.00	
16 - PANS	51 146.00	0.00	0.00	0.00	3 522.00	4 680.00	1 820.00	0.00	1 150.00	0.00	0.00	0.00	0.00	0.00	0.00	62 318.00	50, 50, 70	31 159.00	31 159.00	31 159.00	
17 - ROMATSA	51 146.00	0.00	0.00	0.00	3 522.00	4 680.00	1 820.00	0.00	1 150.00	0.00	0.00	0.00	0.00	0.00	0.00	62 318.00	50, 50, 70	31 159.00	31 159.00	31 159.00	
18 - RYANAIR	132 382.00	0.00	0.00	2 284 000.00	6 972.00	6 604.00	2 570.00	0.00	1 626.00	0.00	0.00	0.00	0.00	0.00	0.00	2 434 154.00	50, 50, 70	1 217 077.00	1 217 077.00	1 217 077.00	
19 - BULATSA	51 146.00	0.00	0.00	0.00	3 522.00	4 680.00	1 820.00	0.00	1 150.00	0.00	0.00	0.00	0.00	0.00	0.00	62 318.00	50, 50, 70	31 159.00	31 159.00	31 159.00	
20 - Austro Control	12 786.00	0.00	0.00	0.00	880.00	1 170.00	456.00	0.00	288.00	0.00	0.00	0.00	0.00	0.00	0.00	15 580.00	50, 50, 70	7 790.00	7 790.00	7 790.00	
21 - SWED	15 510.00	0.00	0.00	30 750.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46 260.00	50, 50, 70	23 130.00	23 130.00	23 130.00	
22 - RACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	281 500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	281 500.00	50, 50, 70	140 750.00	140 750.00	140 750.00	
23 - ORO NAVIGACIJA	878 000.00	0.00	0.00	2 313 000.00	204 000.00	0.00	0.00	0.00	58 000.00	0.00	0.00	0.00	0.00	0.00	0.00	3 453 000.00	50, 50, 70	1 726 500.00	1 726 500.00	1 726 500.00	
24 - KLM	1 370 000.00	0.00	0.00	6 004 660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7 374 660.00	50, 50, 70	3 687 330.00	3 687 330.00	3 687 330.00	
25 - ACRIV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50, 50, 70	0.00	0.00	0.00	
26 - UKSATSE	145 200.00	0.00	0.00	3 200 000.00	110 000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3 455 200.00	50, 50, 70	1 727 600.00	1 727 600.00	1 727 600.00	
27 - TAP	111 000.00	0.00	0.00	1 212 540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1 323 540.00	50, 50, 70	661 770.00	661 770.00	661 770.00	

Estimated eligible costs (per budget category)																	Estimated EU contribution				
Direct costs															Indirect costs		Total costs	EU contribution to eligible costs			Total requested EU contribution
A. Personnel costs		B. Subcontracting costs		C. Purchase costs			D. Other cost categories								E. Indirect costs	Funding rate %		Maximum EU contribution	Requested EU contribution		
A.1 Employees (or equivalent)		A.4 SME owners and natural person beneficiaries		C.1 Travel and subsistence			C.2 Equipment	C.3 Other goods, works and services	D.1 Financial support to third parties	D.2 Studies	D.3 Synergetic elements	D.4 Works in outermost regions	D.5 Land purchases	Flat-rate costs	V, W, X		g ²			h	m
A.2 Natural persons under direct contract				Travel	Accommodation	Subsistence															
A.3 Seconded persons																					
Forms of funding	Actual costs	Unit costs (usual accounting practices)	Unit costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	e ¹	f = a+b+c+d				
	a1	a2	a3	b	c1a	c1b	c1c	c2	c3	d1a	d2	d3	d4	d5							
28 - SKYGUIDE																					
Total	17 053 385.00	0.00	0.00	21 169 602.00	459 076.00	148 888.00	57 924.00	1 530 686.00	327 128.00	0.00	0.00	0.00	2 252 790.00	0.00	0.00	42 999 479.00		21 950 297.50	21 950 297.50	21 950 297.50	
Reporting period 3																					
1 - EUROCONTROL	233 179.00	0.00	0.00	99 932.00	23 201.00	30 820.00	11 990.00	9 593.00	120 586.00	0.00	0.00	0.00	0.00	0.00	0.00	529 301.00	50, 50, 70	264 650.50	264 650.50	264 650.50	
2 - ACI EUROPE	0.00	0.00	0.00	171 052.00	0.00	0.00	0.00	0.00	3 254.00	0.00	0.00	0.00	0.00	0.00	0.00	174 306.00	50, 50, 70	87 153.00	87 153.00	87 153.00	
3 - AIR FRANCE	323 689.00	0.00	0.00	1 144 400.00	10 486.00	3 302.00	1 284.00	0.00	815.00	0.00	0.00	0.00	0.00	0.00	0.00	1 483 976.00	50, 50, 70	741 988.00	741 988.00	741 988.00	
3.1 - Transavia	21 000.00	0.00	0.00	941 600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	962 600.00	50, 50, 70	481 300.00	481 300.00	481 300.00	
3.2 - HOP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50, 50, 70	0.00	0.00	0.00	
4 - Croatia Control	6 394.00	0.00	0.00	0.00	441.00	585.00	226.00	0.00	143.00	0.00	0.00	0.00	0.00	0.00	0.00	7 789.00	50, 50, 70	3 894.50	3 894.50	3 894.50	
5 - Lufthansa	45 689.00	0.00	0.00	127 273.00	2 486.00	3 302.00	1 284.00	0.00	815.00	0.00	0.00	0.00	0.00	0.00	0.00	180 849.00	50, 50, 70	90 424.50	90 424.50	90 424.50	
6 - DFS	51 145.00	0.00	0.00	0.00	3 523.00	4 680.00	1 821.00	0.00	1 149.00	0.00	0.00	0.00	0.00	0.00	0.00	62 318.00	50, 50, 70	31 159.00	31 159.00	31 159.00	
7 - DSN	25 574.00	0.00	0.00	0.00	1 762.00	2 338.00	910.00	0.00	573.00	0.00	0.00	0.00	0.00	0.00	0.00	31 157.00	50, 50, 70	15 578.50	15 578.50	15 578.50	
8 - EEAG	35 689.00	0.00	0.00	0.00	2 486.00	3 302.00	1 284.00	0.00	815.00	0.00	0.00	0.00	0.00	0.00	0.00	43 576.00	50, 50, 70	21 788.00	21 788.00	21 788.00	
9 - ENAIRE	67 359.00	0.00	0.00	15 000.00	7 642.00	3 510.00	1 366.00	165 000.00	861.00	0.00	0.00	0.00	7 000.00	0.00	0.00	267 738.00	50, 50, 70	135 269.00	135 269.00	135 269.00	
10 - ENAV	76 719.00	0.00	0.00	0.00	5 283.00	7 018.00	2 731.00	0.00	1 722.00	0.00	0.00	0.00	0.00	0.00	0.00	93 473.00	50, 50, 70	46 736.50	46 736.50	46 736.50	
11 - HUNGAROCNTROL	25 574.00	0.00	0.00	0.00	1 762.00	2 338.00	910.00	0.00	573.00	0.00	0.00	0.00	0.00	0.00	0.00	31 157.00	50, 50, 70	15 578.50	15 578.50	15 578.50	
12 - AIRNAV Ireland	6 394.00	0.00	0.00	0.00	441.00	585.00	226.00	0.00	143.00	0.00	0.00	0.00	0.00	0.00	0.00	7 789.00	50, 50, 70	3 894.50	3 894.50	3 894.50	
13 - LFV	14 144.00	0.00	0.00	0.00	441.00	585.00	226.00	0.00	143.00	0.00	0.00	0.00	0.00	0.00	0.00	15 539.00	50, 50, 70	7 769.50	7 769.50	7 769.50	
14 - NAV PORTUGAL	6 394.00	0.00	0.00	0.00	441.00	585.00	226.00	0.00	143.00	0.00	0.00	0.00	0.00	0.00	0.00	7 789.00	50, 50, 70	3 894.50	3 894.50	3 894.50	
15 - NAVIAIR	6 394.00	0.00	0.00	0.00	441.00	585.00	226.00	0.00	143.00	0.00	0.00	0.00	0.00	0.00	0.00	7 789.00	50, 50, 70	3 894.50	3 894.50	3 894.50	
16 - PANS	25 574.00	0.00	0.00	0.00	1 762.00	2 338.00	910.00	0.00	573.00	0.00	0.00	0.00	0.00	0.00	0.00	31 157.00	50, 50, 70	15 578.50	15 578.50	15 578.50	
17 - ROMATSA	25 574.00	0.00	0.00	0.00	1 762.00	2 338.00	910.00	0.00	573.00	0.00	0.00	0.00	0.00	0.00	0.00	31 157.00	50, 50, 70	15 578.50	15 578.50	15 578.50	
18 - RYANAIR	61 189.00	0.00	0.00	260 000.00	2 486.00	3 302.00	1 284.00	0.00	20 815.00	0.00	0.00	0.00	0.00	0.00	0.00	349 076.00	50, 50, 70	174 538.00	174 538.00	174 538.00	
19 - BULATSA	25 574.00	0.00	0.00	0.00	1 762.00	2 338.00	910.00	0.00	573.00	0.00	0.00	0.00	0.00	0.00	0.00	31 157.00	50, 50, 70	15 578.50	15 578.50	15 578.50	
20 - Austro Control	6 394.00	0.00	0.00	0.00	441.00	585.00	226.00	0.00	143.00	0.00	0.00	0.00	0.00	0.00	0.00	7 789.00	50, 50, 70	3 894.50	3 894.50	3 894.50	
21 - SWED	4 750.00	0.00	0.00	5 400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10 150.00	50, 50, 70	5 075.00	5 075.00	5 075.00	
22 - RACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	217 500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	217 500.00	50, 50, 70	108 750.00	108 750.00	108 750.00	
23 - ORO NAVIGACIJA	490 000.00	0.00	0.00	0.00	82 000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	572 000.00	50, 50, 70	286 000.00	286 000.00	286 000.00	
24 - KLM	685 000.00	0.00	0.00	3 449 200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4 134 200.00	50, 50, 70	2 067 100.00	2 067 100.00	2 067 100.00	
25 - ACRIV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50, 50, 70	0.00	0.00	0.00	
26 - UKSATSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50, 50, 70	0.00	0.00	0.00	
27 - TAP	36 000.00	0.00	0.00	374 020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	410 020.00	50, 50, 70	205 010.00	205 010.00	205 010.00	
28 - SKYGUIDE																					

Estimated eligible costs (per budget category)																Estimated EU contribution				
Direct costs															Indirect costs	Total costs	EU contribution to eligible costs			Total requested EU contribution
A. Personnel costs		B. Subcontracting costs	C. Purchase costs			D. Other cost categories					E. Indirect costs	Funding rate %	Maximum EU contribution	Requested EU contribution						
Forms of funding	Actual costs	Unit costs (usual accounting practices)	Unit costs	Actual costs	C.1 Travel and subsistence			C.2 Equipment	C.3 Other goods, works and services	D.1 Financial support to third parties	D.2 Studies	D.3 Synergetic elements	D.4 Works in outermost regions	D.5 Land purchases	Flat-rate costs	f = a+b+c+d	V, W, X	g ²	h	m
					Travel	Accommodation	Subsistence													
	a1	a2	a3	b	c1a	c1b	c1c	c2	c3	d1a	d2	d3	d4	d5	e ¹					
Total	2 305 392.00	0.00	0.00	6 587 877.00	151 049.00	74 436.00	28 950.00	392 093.00	154 555.00	0.00	0.00	0.00	7 000.00	0.00	0.00	9 701 352.00		4 852 076.00	4 852 076.00	4 852 076.00
Total all reporting periods	40 648 863.00	0.00	0.00	56 213 167.00	877 799.00	313 441.00	121 933.00	3 138 892.00	680 573.00	0.00	0.00	0.00	4 317 500.00	0.00	0.00	106 312 168.00		54 019 584.00	54 019 584.00	54 019 584.00

¹ e = flat-rate * (a1 + a2 + a3 + b + c1a + c1b + c1c + c2 + c3 + d1a + d2 + d3 + d4 + d5)

² g = (a1 + a2 + a3) * V% + b * V% + (c1a + c1b + c1c + c2 + c3) * V% + (d1a + d3 + d5) * V% + d2 * W% + d4 * X% + e * V%

START (DETAILED BUDGET TABLE PER WP)

PROJECT DATA

Project number:	SEP-211008539
Project acronym:	GREEN CNS

Work package name	Funding Rate
WP 1 - Project Coordination	50%
WP 2 - 2023_100_COM - Common COM proposal	50%
WP 3 - 2023_200_SUR_EUR - Common SUR proposal	50%
WP 4 - 2023_200_SUR_OMR - Common SUR proposal (Outermost Regions)	70%
WP 5 - 2023_300_NAV - Common NAV proposal	50%

Participant name

EUROCONTROL

ACI Europe

Air France

ACG

CCL

Lufthansa

DFS

DSNA

EEAG

ENAIRE

ENAV

Hungarocontrol

AirNAV

LFV

Nav Portugal

Naviair

PANSA

ROMATSA

Ryanair

Skyguide

BULATSA

TAP

Swedavia

KLM

Transavia

ACRIV

RACE

UKSATSE

HOP

Oro Navigacija

DETAILED BUDGET TABLE PER WP

PROJECT DATA

Project number:	SEP-211008539
Project acronym:	GREEN CNS

BUDGET BREAKDOWN PER WORK PACKAGE AND PARTICIPANT

Reporting period can be added/deleted as needed

Work Package	Participant	Reporting period 1	Reporting period 2	Reporting period 3	Total costs	Funding rate (for work package)	EU contribution
WP 1 - Project Coordination	EUROCONTROL	640,727.00	1,058,594.00	529,301.00	2,228,622.00	50%	1,114,311.00
WP 1 - Project Coordination	ACI Europe	211,002.00	348,612.00	174,306.00	733,920.00	50%	366,960.00
WP 1 - Project Coordination	Air France	52,750.00	87,154.00	43,576.00	183,480.00	50%	91,740.00
WP 1 - Project Coordination	ACG	9,430.00	15,580.00	7,789.00	32,799.00	50%	16,399.50
WP 1 - Project Coordination	CCL	9,430.00	15,580.00	7,789.00	32,799.00	50%	16,399.50
WP 1 - Project Coordination	Lufthansa	52,750.00	87,154.00	43,576.00	183,480.00	50%	91,740.00
WP 1 - Project Coordination	DFS	75,437.00	124,634.00	62,318.00	262,389.00	50%	131,194.50
WP 1 - Project Coordination	DSNA	37,720.00	62,318.00	31,157.00	131,195.00	50%	65,597.50
WP 1 - Project Coordination	EEAG	52,750.00	87,154.00	43,576.00	183,480.00	50%	91,740.00
WP 1 - Project Coordination	ENAIRES	56,577.00	93,476.00	46,738.00	196,791.00	50%	98,395.50
WP 1 - Project Coordination	ENAV	113,157.00	186,954.00	93,473.00	393,584.00	50%	196,792.00
WP 1 - Project Coordination	Hungarocontrol	37,720.00	62,318.00	31,157.00	131,195.00	50%	65,597.50
WP 1 - Project Coordination	AirNAV	9,430.00	15,580.00	7,789.00	32,799.00	50%	16,399.50

WP 1 - Project Coordination	LFV	9,430.00	15,580.00	7,789.00	32,799.00	50%	16,399.50
WP 1 - Project Coordination	Nav Portugal	9,430.00	15,580.00	7,789.00	32,799.00	50%	16,399.50
WP 1 - Project Coordination	Naviair	9,430.00	15,580.00	7,789.00	32,799.00	50%	16,399.50
WP 1 - Project Coordination	PANSA	37,720.00	62,318.00	31,157.00	131,195.00	50%	65,597.50
WP 1 - Project Coordination	ROMATSA	37,720.00	62,318.00	31,157.00	131,195.00	50%	65,597.50
WP 1 - Project Coordination	Ryanair	52,750.00	87,154.00	43,576.00	183,480.00	50%	91,740.00
WP 1 - Project Coordination	Skyguide	0.00	0.00	0.00	0.00	50%	0.00
WP 1 - Project Coordination	BULATSA	37,720.00	62,318.00	31,157.00	131,195.00	50%	65,597.50
WP 2 - 2023_100_COM - Common COM proposal	Air France	1,047,600.00	1,776,100.00	420,500.00	3,244,200.00	50%	1,622,100.00
WP 2 - 2023_100_COM - Common COM proposal	KLM	441,580.00	433,460.00	239,700.00	1,114,740.00	50%	557,370.00
WP 2 - 2023_100_COM - Common COM proposal	Lufthansa	498,873.00	279,460.00	0.00	778,333.00	50%	389,166.50
WP 2 - 2023_100_COM - Common COM proposal	Ryanair	2,601,000.00	2,347,000.00	305,500.00	5,253,500.00	50%	2,626,750.00
WP 2 - 2023_100_COM - Common COM proposal	TAP	873,230.00	1,323,540.00	410,020.00	2,606,790.00	50%	1,303,395.00
WP 2 - 2023_100_COM - Common COM proposal	Transavia	2,373,200.00	1,073,400.00	427,000.00	3,873,600.00	50%	1,936,800.00
WP 3 - 2023_200_SUR_EUR - Common SUR proposal	ENAIRES	1,256,000.00	1,423,000.00	214,000.00	2,893,000.00	50%	1,446,500.00
WP 3 - 2023_200_SUR_EUR - Common SUR proposal	ACRIV	20,842.00	0.00	0.00	20,842.00	50%	10,421.00
WP 3 - 2023_200_SUR_EUR - Common SUR proposal	RACE	209,500.00	281,500.00	217,500.00	708,500.00	50%	354,250.00
WP 3 - 2023_200_SUR_EUR - Common SUR proposal	Oro Navigacija	1,182,000.00	1,915,000.00	253,000.00	3,350,000.00	50%	1,675,000.00
WP 3 - 2023_200_SUR_EUR - Common SUR proposal	UkSATSE	95,300.00	59,400.00	0.00	154,700.00	50%	77,350.00

WP 4 - 2023_200_SUR_OMR - Common NAV proposal	ENAIRE	1,278,500.00	1,282,000.00	7,000.00	2,567,500.00	70%	1,797,250.00
WP 4 - 2023_200_SUR_OMR - Common NAV proposal	Nav Portugal	779,210.00	970,790.00	0.00	1,750,000.00	70%	1,225,000.00
WP 5 - 2023_300_NAV - Common NAV proposal	Lufthansa	971,591.00	638,182.00	137,273.00	1,747,046.00	50%	873,523.00
WP 5 - 2023_300_NAV - Common NAV proposal	EEAG	3,743,000.00	0.00	0.00	3,743,000.00	50%	1,871,500.00
WP 5 - 2023_300_NAV - Common NAV proposal	Air France	237,300.00	958,300.00	1,019,900.00	2,215,500.00	50%	1,107,750.00
WP 5 - 2023_300_NAV - Common NAV proposal	Transavia	512,600.00	1,380,200.00	535,600.00	2,428,400.00	50%	1,214,200.00
WP 5 - 2023_300_NAV - Common NAV proposal	ENAIRE	16,784,581.00	12,341,681.00	0.00	29,126,262.00	50%	14,563,131.00
WP 5 - 2023_300_NAV - Common NAV proposal	KLM	12,302,600.00	6,941,200.00	3,894,500.00	23,138,300.00	50%	11,569,150.00
WP 5 - 2023_300_NAV - Common NAV proposal	LFV	22,000.00	29,250.00	7,750.00	59,000.00	50%	29,500.00
WP 5 - 2023_300_NAV - Common NAV proposal	Swedavia	324,150.00	46,260.00	10,150.00	380,560.00	50%	190,280.00
WP 5 - 2023_300_NAV - Common NAV proposal	Oro Navigacija	915,000.00	1,538,000.00	319,000.00	2,772,000.00	50%	1,386,000.00
WP 5 - 2023_300_NAV - Common NAV proposal	UkSATSE	686,600.00	3,395,800.00	0.00	4,082,400.00	50%	2,041,200.00
WP 5 - 2023_300_NAV - Common NAV proposal	HOP	2,902,000.00	0.00	0.00	2,902,000.00	50%	1,451,000.00
Total		53,611,337.00	42,999,479.00	9,701,352.00	106,312,168.00		54,019,584.00

Summary per work package

Row Labels	Reporting period_1	FP RP_1	Reporting period_2	FP RP_2	Reporting period_3	FP RP_3	Sum of Total costs	Sum of EU contribution
WP 1 - Project Coordination	1,553,080	29%	2,565,956	48%	1,282,959	24%	5,401,995	2,700,998
WP 2 - 2023_100_COM - Common COM proposal	7,835,483	46%	7,232,960	43%	1,802,720	11%	16,871,163	8,435,582
WP 3 - 2023_200_SUR_EUR - Common SUR proposal	2,763,642	39%	3,678,900	52%	684,500	10%	7,127,042	3,563,521
WP 4 - 2023_200_SUR_OMR - Common SUR proposal (Outermost Regions)	2,057,710	48%	2,252,790	52%	7,000	0%	4,317,500	3,022,250
WP 5 - 2023_300_NAV - Common NAV proposal	39,401,422	54%	27,268,873	38%	5,924,173	8%	72,594,468	36,297,234
Grand Total	53,611,337	50.43%	42,999,479	40.45%	9,701,352	9.13%	106,312,168	54,019,584

Summary per Participant

Row Labels	Reporting period_1	Reporting period_2	Reporting period_3	Sum of Total costs	Sum of EU contribution
EUROCONTROL	640,727	1,058,594	529,301	2,228,622	1,114,311
ACI Europe	211,002	348,612	174,306	733,920	366,960
Air France	1,337,650	2,821,554	1,483,976	5,643,180	2,821,590
ACG	9,430	15,580	7,789	32,799	16,400
CCL	9,430	15,580	7,789	32,799	16,400
DFS	75,437	124,634	62,318	262,389	131,195
DSNA	37,720	62,318	31,157	131,195	65,598
EEAG	3,795,750	87,154	43,576	3,926,480	1,963,240
ENAIRES	19,375,658	15,140,157	267,738	34,783,553	17,905,277
ENAV	113,157	186,954	93,473	393,584	196,792
AirNAV	9,430	15,580	7,789	32,799	16,400
LFV	31,430	44,830	15,539	91,799	45,900
Naviar	9,430	15,580	7,789	32,799	16,400
PANSA	37,720	62,318	31,157	131,195	65,598
ROMATSA	37,720	62,318	31,157	131,195	65,598
Ryanair	2,653,750	2,434,154	349,076	5,436,980	2,718,490
Skyguide	-	-	-	-	-
BULATSA	37,720	62,318	31,157	131,195	65,598
KLM	12,744,180	7,374,660	4,134,200	24,253,040	12,126,520
Transavia	2,885,800	2,453,600	962,600	6,302,000	3,151,000
ACRIV	20,842	-	-	20,842	10,421
RACE	209,500	281,500	217,500	708,500	354,250
Oro Navigacija	2,097,000	3,453,000	572,000	6,122,000	3,061,000
UKSATSE	781,900	3,455,200	-	4,237,100	2,118,550
Swedavia	324,150	46,260	10,150	380,560	190,280
HOP	2,902,000	-	-	2,902,000	1,451,000
Lufthansa	1,523,214	1,004,796	180,849	2,708,859	1,354,430
Hungarocontrol	37,720	62,318	31,157	131,195	65,598
Nav Portugal	788,640	986,370	7,789	1,782,799	1,241,400
TAP	873,230	1,323,540	410,020	2,606,790	1,303,395
Grand Total	53,611,337	42,999,479	9,701,352	106,312,168	54,019,584

#	EU CONTRIBUTION	TOTAL COSTS
ENCODE VALUE FROM EGRANTS	54,019,584	106,312,168
DIFFERENCE	0	0

ESTIMATED BUDGET FOR THE ACTION

Estimated eligible ¹ costs (per budget category)																	Estimated EU contribution ²			
Direct costs															Indirect costs	Total costs	EU contribution to eligible costs			Maximum grant amount ⁶
A. Personnel costs		B. Subcontracting costs	C. Purchase costs			D. Other cost categories					E. Indirect costs ³	Funding rate % ⁴	Maximum EU contribution ⁵	Requested EU contribution						
Forms of funding	Actual costs	Unit costs (usual accounting practices)	Unit costs ⁷	Actual costs	C.1 Travel and subsistence			C.2 Equipment	C.3 Other goods, works and services	D.1 Financial support to third parties	D.2 Studies	D.3 Synergetic elements	D.4 Works in outermost regions	D.5 Land purchases	E. Indirect costs	f = a+b+c+d	V, W, X	g ¹⁰	h	m
					Travel	Accommodation	Subsistence													
	a1	a2	a3	b	c1a	c1b	c1c	c2	c3	d1a	d2	d3	d4	d5	e ⁹					
1 - EUROCONTROL	981 803.00	0.00	0.00	420 769.00	97 688.00	129 765.00	50 481.00	40 392.00	507 724.00	0.00	0.00	0.00	0.00	0.00	0.00	2 228 622.00	50, 50, 70	1 114 311.00	1 114 311.00	1 114 311.00
2 - ACI EUROPE	0.00	0.00	0.00	720 219.00	0.00	0.00	0.00	0.00	13 701.00	0.00	0.00	0.00	0.00	0.00	0.00	733 920.00	50, 50, 70	366 960.00	366 960.00	366 960.00
3 - AIR FRANCE	1 206 976.00	0.00	0.00	4 369 000.00	44 467.00	13 903.00	5 409.00	0.00	3 425.00	0.00	0.00	0.00	0.00	0.00	0.00	5 643 180.00	50, 50, 70	2 821 590.00	2 821 590.00	2 821 590.00
3.1 - Transavia	155 600.00	0.00	0.00	6 146 400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6 302 000.00	50, 50, 70	3 151 000.00	3 151 000.00	3 151 000.00
3.2 - HOP	102 000.00	0.00	0.00	2 800 000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2 902 000.00	50, 50, 70	1 451 000.00	1 451 000.00	1 451 000.00
4 - Croatia Control	26 919.00	0.00	0.00	0.00	1 854.00	2 463.00	958.00	0.00	605.00	0.00	0.00	0.00	0.00	0.00	0.00	32 799.00	50, 50, 70	16 399.50	16 399.50	16 399.50
5 - Lufthansa	233 336.00	0.00	0.00	2 442 319.00	10 467.00	13 903.00	5 409.00	0.00	3 425.00	0.00	0.00	0.00	0.00	0.00	0.00	2 708 859.00	50, 50, 70	1 354 429.50	1 354 429.50	1 354 429.50
6 - DFS	215 354.00	0.00	0.00	0.00	14 831.00	19 702.00	7 664.00	0.00	4 838.00	0.00	0.00	0.00	0.00	0.00	0.00	262 389.00	50, 50, 70	131 194.50	131 194.50	131 194.50
7 - DSN	107 677.00	0.00	0.00	0.00	7 416.00	9 851.00	3 832.00	0.00	2 419.00	0.00	0.00	0.00	0.00	0.00	0.00	131 195.00	50, 50, 70	65 597.50	65 597.50	65 597.50
8 - EEAG	170 276.00	0.00	0.00	3 723 000.00	10 467.00	13 903.00	5 409.00	0.00	3 425.00	0.00	0.00	0.00	0.00	0.00	0.00	3 926 480.00	50, 50, 70	1 963 240.00	1 963 240.00	1 963 240.00
9 - ENAIRE	29 163 252.00	0.00	0.00	597 525.00	41 124.00	14 776.00	5 748.00	2 390 000.00	3 628.00	0.00	0.00	0.00	2 567 500.00	0.00	0.00	34 783 553.00	50, 50, 70	17 905 276.50	17 905 276.50	17 905 276.50
10 - ENAV	323 031.00	0.00	0.00	0.00	22 247.00	29 553.00	11 496.00	0.00	7 257.00	0.00	0.00	0.00	0.00	0.00	0.00	393 584.00	50, 50, 70	196 792.00	196 792.00	196 792.00
11 - HUNGAROCNTROL	107 677.00	0.00	0.00	0.00	7 416.00	9 851.00	3 832.00	0.00	2 419.00	0.00	0.00	0.00	0.00	0.00	0.00	131 195.00	50, 50, 70	65 597.50	65 597.50	65 597.50
12 - AIRNAV Ireland	26 919.00	0.00	0.00	0.00	1 854.00	2 463.00	958.00	0.00	605.00	0.00	0.00	0.00	0.00	0.00	0.00	32 799.00	50, 50, 70	16 399.50	16 399.50	16 399.50
13 - LfV	78 919.00	0.00	0.00	0.00	1 854.00	2 463.00	958.00	0.00	7 605.00	0.00	0.00	0.00	0.00	0.00	0.00	91 799.00	50, 50, 70	45 899.50	45 899.50	45 899.50
14 - NAV PORTUGAL	26 919.00	0.00	0.00	0.00	1 854.00	2 463.00	958.00	0.00	605.00	0.00	0.00	0.00	1 750 000.00	0.00	0.00	1 782 799.00	50, 50, 70	1 241 399.50	1 241 399.50	1 241 399.50
15 - NAVIAIR	26 919.00	0.00	0.00	0.00	1 854.00	2 463.00	958.00	0.00	605.00	0.00	0.00	0.00	0.00	0.00	0.00	32 799.00	50, 50, 70	16 399.50	16 399.50	16 399.50
16 - PANS	107 677.00	0.00	0.00	0.00	7 416.00	9 851.00	3 832.00	0.00	2 419.00	0.00	0.00	0.00	0.00	0.00	0.00	131 195.00	50, 50, 70	65 597.50	65 597.50	65 597.50
17 - ROMATSA	107 677.00	0.00	0.00	0.00	7 416.00	9 851.00	3 832.00	0.00	2 419.00	0.00	0.00	0.00	0.00	0.00	0.00	131 195.00	50, 50, 70	65 597.50	65 597.50	65 597.50
18 - RYANAIR	302 776.00	0.00	0.00	5 078 000.00	13 467.00	13 903.00	5 409.00	0.00	23 425.00	0.00	0.00	0.00	0.00	0.00	0.00	5 436 980.00	50, 50, 70	2 718 490.00	2 718 490.00	2 718 490.00
19 - BULATSA	107 677.00	0.00	0.00	0.00	7 416.00	9 851.00	3 832.00	0.00	2 419.00	0.00	0.00	0.00	0.00	0.00	0.00	131 195.00	50, 50, 70	65 597.50	65 597.50	65 597.50
20 - Austro Control	26 919.00	0.00	0.00	0.00	1 854.00	2 463.00	958.00	0.00	605.00	0.00	0.00	0.00	0.00	0.00	0.00	32 799.00	50, 50, 70	16 399.50	16 399.50	16 399.50
21 - SWED	273 710.00	0.00	0.00	106 850.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	380 560.00	50, 50, 70	190 280.00	190 280.00	190 280.00
22 - RACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	708 500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	708 500.00	50, 50, 70	354 250.00	354 250.00	354 250.00
23 - ORO NAVIGACIJA	1 857 000.00	0.00	0.00	3 808 000.00	370 000.00	0.00	0.00	0.00	87 000.00	0.00	0.00	0.00	0.00	0.00	0.00	6 122 000.00	50, 50, 70	3 061 000.00	3 061 000.00	3 061 000.00
24 - KLM	4 370 000.00	0.00	0.00	19 883 040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 253 040.00	50, 50, 70	12 126 520.00	12 126 520.00	12 126 520.00
25 - ACRIV	0.00	0.00	0.00	17 255.00	3 587.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20 842.00	50, 50, 70	10 421.00	10 421.00	10 421.00
26 - UKSATSE	235 850.00	0.00	0.00	3 800 000.00	201 250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4 237 100.00	50, 50, 70	2 118 550.00	2 118 550.00	2 118 550.00
27 - TAP	306 000.00	0.00	0.00	2 300 790.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2 606 790.00	50, 50, 70	1 303 395.00	1 303 395.00	1 303 395.00

Estimated eligible ¹ costs (per budget category)																Estimated EU contribution ²				
Direct costs															Indirect costs	Total costs	EU contribution to eligible costs			Maximum grant amount ⁶
A. Personnel costs		B. Subcontracting costs	C. Purchase costs			D. Other cost categories					E. Indirect costs ³	Funding rate % ⁴	Maximum EU contribution ⁵	Requested EU contribution						
Forms of funding	A.1 Employees (or equivalent)	A.2 Natural persons under direct contract	A.3 Seconded persons	A.4 SME owners and natural person beneficiaries	C.1 Travel and subsistence			C.2 Equipment	C.3 Other goods, works and services	D.1 Financial support to third parties	D.2 Studies	D.3 Synergetic elements	D.4 Works in outermost regions	D.5 Land purchases	E. Indirect costs	f = a+b+c+d	V, W, X	g ¹⁰	h	m
	Actual costs	Unit costs (usual accounting practices)	Unit costs ⁷	Actual costs	Travel	Accommodation	Subsistence	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Flat-rate costs ⁸					
	a1	a2	a3	b	c1a	c1b	c1c	c2	c3	d1a	d2	d3	d4	d5	e ⁹					
28 - SKYGUIDE																				
Σ consortium	40 648 863.00	0.00	0.00	56 213 167.00	877 799.00	313 441.00	121 933.00	3 138 892.00	680 573.00	0.00	0.00	0.00	4 317 500.00	0.00	0.00	106 312 168.00		54 019 584.00	54 019 584.00	54 019 584.00

¹ See Article 6 for the eligibility conditions. All amounts must be expressed in EUR (see Article 21 for the conversion rules).

² The consortium remains free to decide on a different internal distribution of the EU funding (via the consortium agreement; see Article 7).

³ Indirect costs already covered by an operating grant (received under any EU funding programme) are ineligible (see Article 6.3). Therefore, a beneficiary/affiliated entity that receives an operating grant during the action duration cannot declare indirect costs for the year(s)/reporting period(s) covered by the operating grant, unless they can demonstrate that the operating grant does not cover any costs of the action. This requires specific accounting tools. Please immediately contact us via the EU Funding & Tenders Portal for details.

⁴ See Data Sheet for the funding rate(s).

⁵ This is the theoretical amount of the EU contribution to costs, if the reimbursement rate is applied to all the budgeted costs. This theoretical amount is then capped by the 'maximum grant amount'.

⁶ The 'maximum grant amount' is the maximum grant amount decided by the EU. It normally corresponds to the requested grant, but may be lower.

⁷ See Annex 2a 'Additional information on the estimated budget' for the details (units, cost per unit).

⁸ See Data Sheet for the flat-rate.

⁹ e = flat-rate * (a1 + a2 + a3 + b + c1a + c1b + c1c + c2 + c3 + d1a + d2 + d3 + d4 + d5)

¹⁰ g = (a1 + a2 + a3) * V% + b * V% + (c1a + c1b + c1c + c2 + c3) * V% + (d1a + d3 + d5) * V% + d2 * W% + d4 * X% + e * V%

ANNEX 2a

ADDITIONAL INFORMATION ON UNIT COSTS AND CONTRIBUTIONS

SME owners/natural person beneficiaries without salary

See [*Additional information on unit costs and contributions \(Annex 2a and 2b\)*](#)

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

EUROPEAN REGION OF THE AIRPORTS COUNCIL INTERNATIONAL (ACI EUROPE),
PIC 888337447, established in BOULEVARD DU REGENT 37-40, BRUXELLES 1000, Belgium,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR
NAVIGATION (EUROCONTROL) **and the European Climate, Infrastructure and Environment
Executive Agency (CINEA)** ('EU executive agency' or 'granting authority'), under the powers
delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement,
in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in
accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

AIR FRANCE SA (AIR FRANCE), PIC 937590070, established in RUE DE PARIS 45, ROISSY CDG CEDEX 95747, France,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

HRVATSKA KONTROLA ZRACNE PLOVIDBE DOO (Croatia Control), PIC 924128216,
established in RUDOLFA FIZIRA 2, VELIKA GORICA 10410, Croatia,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

DEUTSCHE LUFTHANSA AKTIENGESELLSCHAFT (Lufthansa), PIC 999965532,
established in VENLOER STRASSE 151-153, KOLN 50672, Germany,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) **and the European Climate, Infrastructure and Environment Executive Agency (CINEA)** ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

DFS DEUTSCHE FLUGSICHERUNG GMBH (DFS), PIC 999936820, established in AM DFS CAMPUS 10, LANGEN 63225, Germany,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

DIRECTION DES SERVICES DE LA NAVIGATION AERIENNE (DSNA), PIC 928673636,
established in 50 RUE HENRY FARMAN, PARIS 75720, France,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

EASYJET EUROPE AIRLINE GMBH (EEAG), PIC 888316786, established in WAGRAMER STRASSE 19 IZD TOWER 11 S, VIENNA 1220, Austria,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

ENAIRE (ENAIRE), PIC 997701843, established in AVENIDA DE ARAGON S/N BLOQUE 330, PORTAL 2 PARQUE EMPRESARIAL LAS MERCEDES, MADRID 28022, Spain,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

ENAV SPA (ENAV), PIC 998197513, established in VIA SALARIA 716, ROMA 00138, Italy,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) **and** the **European Climate, Infrastructure and Environment Executive Agency (CINEA)** ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

HUNGAROCONTROL MAGYAR LEGIFORGALMISZOLGALAT ZARTKORUEN MUKODO RESZVENYTARSASAG (HUNGAROCONTROL), PIC 941767472, established in IGLO UTCA 33 35, BUDAPEST 1185, Hungary,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

THE IRISH AIR NAVIGATION SERVICE (AIRNAV Ireland), PIC 881850281, established in THE TIMES BUILDING D'OLIER STREET, DUBLIN D02 T449, Ireland,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

LUFTFARTSVERKET (LFV), PIC 942346077, established in HOSPITALSGATAN 30, NORRKOPING 602 27, Sweden,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

NAVEGACAO AEREA DE PORTUGAL - NAV PORTUGAL EPE (NAV PORTUGAL), PIC 955596471, established in RUA D EDIFICIO 121 AEROPORTO DE, LISBOA 1700 008, Portugal,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

NAVIAIR (NAVIAIR), PIC 923671249, established in NAVIAIR ALLE 1, KASTRUP 2770, Denmark,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

POLSKA AGENCJA ZEGLUGI POWIETRZNEJ (PANSA), PIC 995562023, established in UL. WIEZOWA 8, WARSZAWA 02 147, Poland,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

ADMINISTRATIA ROMANA A SERVICIILOR DE TRAFIC AERIAN (ROMATSA), PIC 953538325, established in BLD ION IONESCU DE LA BRAD 10, BUCURESTI 013813, Romania,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

RYANAIR DESIGNATED ACTIVITY COMPANY (RYANAIR), PIC 913857177, established in RYANAIR DUBLIN OFFICE AIRSIDE BUSINESS PARK, SWORDS DUBLIN, Ireland,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

DARJAVNO PREDPRIYATIE RAKOVODSTVO NA VAZDUSHNOTO DVIJENIE TPP (BULATSA), PIC 958046400, established in BRUSSELS BOULEVARD 1, SOFIA 1540, Bulgaria,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

AUSTRO CONTROL OSTERREICHISCHE GESELLSCHAFT FUR ZIVILLUFTFAHRT MBH (Austro Control), PIC 998956635, established in SCHNIRCHGASSE 17, WIEN 1030, Austria,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

SWEDAVIA AB (SWED), PIC 984282281, established in SWEDAVIA, STOCKHOLM ARLANDA 190 45, Sweden,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) **and the European Climate, Infrastructure and Environment Executive Agency (CINEA)** ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

REAL AERO CLUB DE ESPANA (RACE), PIC 884253747, established in CARRETERA DE LA FORTUNA NO 14, MADRID 28054, Spain,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

AKCINE BENDROVE ORO NAVIGACIJA (ORO NAVIGACIJA), PIC 919915991, established in BALIO KARVELIO G. 25, VILNIUS LT-02184, Lithuania,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

KONINKLIJKE LUCHTVAART MAATSCHAPPIJNV (KLM), PIC 997594658, established in AMSTERDAMSEWEG 55, AMSTELVEEN 1182 GP, Netherlands,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

AERO CLUB DE RENNES - ILLE ET VILAINE (ACRIV), PIC 880313801, established in 9 AVENUE DE L'AEROPORT JOSEPH LE BRIX, SAINT JACQUES DE LA LANDE 35136, France,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

UKRAINIAN STATE AIR TRAFFIC SERVICES ENTERPRISE (UKSATSE), PIC 884862131,
established in AIRPORT BORYSPIL KYIV REGION, BORYSPIL 08300, Ukraine,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

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the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

TRANSPORTES AEREOS PORTUGUESES SA (TAP), PIC 970170333, established in EDIFICIO 25 DO AEROPORTO DE LISBOA, LISBOA 1700-008, Portugal,

hereby agrees

to become beneficiary

in Agreement No 101175465 — 23-EU-TG-GREEN CNS ('the Agreement')

between EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION (EUROCONTROL) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 4 CEF MGA — MULTI + MONO

FINANCIAL STATEMENT FOR [PARTICIPANT NAME] FOR REPORTING PERIOD [NUMBER]

Eligible ¹ costs (per budget category)															EU contribution ²				Revenues				
Direct costs															Indirect costs	Total costs	EU contribution to eligible costs			Total requested EU contribution	Income generated by the action		
A. Personnel costs		B. Subcontracting costs	C. Purchase costs			D. Other cost categories				E. Indirect costs ²	Funding rate % ³	Maximum EU contribution ⁴	Requested EU contribution										
Forms of funding	Actual costs	Unit costs (usual accounting practices)	Unit costs ⁵	Actual costs	C.1 Travel and subsistence			Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Actual costs	Flat-rate costs ⁶	e = flat-rate * (a1 + a2 + a3 + b + c1a + c1b + c1c + c2 + c3 + d1a + d2 + d3 + d4 + d5)	f = a+b+c+d+e	[U] [V, W, X]	[g = f*U%] / [g = (a1 + a2 + a3) * V% + b * V% + (c1a + c1b + c1c + c2 + c3) * V% + (d1a + d3 + d5) * V% + d2 * W% + d4 * X% + e * V%]	h	m	n	
					Travel	Accommodation	Subsistence																[Actual costs]
A.1 Employees (or equivalent)		A.4 SME owners and natural person beneficiaries	B. Subcontracting	C.1 Travel and subsistence			C.2 Equipment	C.3 Other goods, works and services	D.X Financial support to third parties	[OPTION for infrastructure Projects: D.2 Studies]	[OPTION for infrastructure Projects: D.3 Synergetic elements]	[OPTION for infrastructure Projects: D.4 Works in outermost regions]	[OPTION for infrastructure Projects: D.5 Land purchases]	E. Indirect costs	Flat-rate costs ⁶	e = flat-rate * (a1 + a2 + a3 + b + c1a + c1b + c1c + c2 + c3 + d1a + d2 + d3 + d4 + d5)	f = a+b+c+d+e	[U] [V, W, X]	[g = f*U%] / [g = (a1 + a2 + a3) * V% + b * V% + (c1a + c1b + c1c + c2 + c3) * V% + (d1a + d3 + d5) * V% + d2 * W% + d4 * X% + e * V%]	h	m	n	
A.2 Natural persons under direct contract				Travel	Accommodation	Subsistence																	
A.3 Seconded persons				Travel	Accommodation	Subsistence																	
XX – [short name beneficiary/affiliated entity]																							

The beneficiary/affiliated entity hereby confirms that:
 The information provided is complete, reliable and true.
 The costs and contributions declared are eligible (see Article 6).
 The costs and contributions can be substantiated by adequate records and supporting documentation that will be produced upon request or in the context of checks, reviews, audits and investigations (see Articles 19, 20 and 25).
 For the last reporting period: that all the revenues have been declared (see Article 22).

¹ Please declare all eligible costs and contributions, even if they exceed the amounts indicated in the estimated budget (see Annex 2). Only amounts that were declared in your individual financial statements can be taken into account lateron, in order to replace costs/contributions that are found to be ineligible.

² See Article 6 for the eligibility conditions. All amounts must be expressed in EUR (see Article 21 for the conversion rules).

³ If you have also received an EU operating grant during this reporting period, you cannot claim indirect costs - unless you can demonstrate that the operating grant does not cover any costs of the action. This requires specific accounting tools. Please contact us immediately via the Funding & Tenders Portal for details.

⁴ See Data Sheet for the reimbursement rate(s).

⁵ This is the theoretical amount of EU contribution to costs that the system calculates automatically (by multiplying the reimbursement rates by the costs declared). The amount you request (in the column 'requested EU contribution') may be less.

⁶ See Annex 2a 'Additional information on the estimated budget' for the details (units, cost per unit).

⁷ See Data Sheet for the flat-rate.

ANNEX 5

SPECIFIC RULES

CONFIDENTIALITY AND SECURITY (— ARTICLE 13)

Sensitive information with security recommendation

Sensitive information with a security recommendation must comply with the additional requirements imposed by the granting authority.

Before starting the action tasks concerned, the beneficiaries must have obtained all approvals or other mandatory documents needed for implementing the task. The documents must be kept on file and be submitted upon request by the coordinator to the granting authority. If they are not in English, they must be submitted together with an English summary.

For requirements restricting disclosure or dissemination, the information must be handled in accordance with the recommendation and may be disclosed or disseminated only after written approval from the granting authority.

EU classified information

If EU classified information is used or generated by the action, it must be treated in accordance with the security classification guide (SCG) and security aspect letter (SAL) set out in Annex 1 and Decision 2015/444¹ and its implementing rules — until it is declassified.

Deliverables which contain EU classified information must be submitted according to special procedures agreed with the granting authority.

Action tasks involving EU classified information may be subcontracted only with prior explicit written approval from the granting authority and only to entities established in an EU Member State or in a non-EU country with a security of information agreement with the EU (or an administrative arrangement with the Commission).

EU classified information may not be disclosed to any third party (including participants involved in the action implementation) without prior explicit written approval from the granting authority.

INTELLECTUAL PROPERTY RIGHTS (IPR) — BACKGROUND AND RESULTS — ACCESS RIGHTS AND RIGHTS OF USE (— ARTICLE 16)

¹ Commission Decision 2015/444/EC, Euratom of 13 March 2015 on the security rules for protecting EU classified information (OJ L 72, 17.3.2015, p. 53).

Rights of use of the granting authority on results for information, communication, dissemination and publicity purposes

The granting authority also has the right to exploit non-sensitive results of the action for information, communication, dissemination and publicity purposes, using any of the following modes:

- **use for its own purposes** (in particular, making them available to persons working for the granting authority or any other EU service (including institutions, bodies, offices, agencies, etc.) or EU Member State institution or body; copying or reproducing them in whole or in part, in unlimited numbers; and communication through press information services)
- **distribution to the public** in hard copies, in electronic or digital format, on the internet including social networks, as a downloadable or non-downloadable file
- **editing** or **redrafting** (including shortening, summarising, changing, correcting, cutting, inserting elements (e.g. meta-data, legends or other graphic, visual, audio or text elements) extracting parts (e.g. audio or video files), dividing into parts or use in a compilation
- **translation** (including inserting subtitles/dubbing) in all official languages of EU
- **storage** in paper, electronic or other form
- **archiving** in line with applicable document-management rules
- the right to authorise **third parties** to act on its behalf or sub-license to third parties, including if there is licensed background, any of the rights or modes of exploitation set out in this provision
- **processing**, analysing, aggregating the results and **producing derivative works**
- **disseminating** the results in widely accessible databases or indexes (such as through 'open access' or 'open data' portals or similar repositories, whether free of charge or not.

The beneficiaries must ensure these rights of use for the whole duration they are protected by industrial or intellectual property rights.

If results are subject to moral rights or third party rights (including intellectual property rights or rights of natural persons on their image and voice), the beneficiaries must ensure that they comply with their obligations under this Agreement (in particular, by obtaining the necessary licences and authorisations from the rights holders concerned).

COMMUNICATION, DISSEMINATION AND VISIBILITY (— ARTICLE 17)

Communication and dissemination plan

Where imposed by the call conditions, the beneficiaries must provide a detailed communication and dissemination plan, setting out the objectives, key messaging, target audiences, communication channels, social media plan, planned budget and relevant

indicators for monitoring and evaluation. **Additional communication and dissemination activities**

The beneficiaries must engage in the following additional communication and dissemination activities:

- **present the project** (including project summary, coordinator contact details, list of participants, European flag and funding statement and project results) on the beneficiaries' **websites** or **social media accounts**
- for actions involving equipment, infrastructure or works, display public **plaques** or **billboards** as soon as the work on the action starts and a **permanent commemorative plaque** once it is finished, with the European flag and funding statement
- upload the public **project results** to the CEF Project Results platform, available through the Funding & Tenders Portal.

SPECIFIC RULES FOR CARRYING OUT THE ACTION (— ARTICLE 18)

Member State information

The beneficiaries must keep the Member States that support the action informed about its progress.

To this effect, the coordinator must provide the reports submitted in accordance with Article 21 to the concerned the Member States representatives (listed on the granting authority's website). This can be done either by email or by giving them access to the reports in the Funding & Tenders Portal.

Implementation in case of restrictions due to security

Where the call conditions restrict participation or control due to security reasons, the beneficiaries must ensure that none of the entities that participate as affiliated entities, associated partners, subcontractors or recipients of financial support to third parties are established in countries which are not eligible countries or target countries set out in the call conditions (or are controlled by such countries or entities from such countries).

The beneficiaries must moreover ensure that any cooperation with entities established in countries which are not eligible countries or target countries set out in the call conditions (or are controlled by such countries or entities from such countries) does not affect the security interests and avoids potential negative effects over security of supply of inputs critical to the action.

Specific rules for digital infrastructure projects

When implementing digital infrastructure projects, the beneficiaries must ensure that the network technologies and equipment (including software and services) funded by the action comply with the security requirements and assessments as reflected in the applicable EU, international and national law on cybersecurity and on data protection.

Moreover, where the call conditions impose wholesale access obligations, the beneficiaries must provide wholesale access to the digital infrastructure funded by the action, under fair and

reasonable conditions, in a non-discriminatory manner and in accordance with the call conditions.

Specific rules for ATM common projects

When implementing actions for the implementation of common projects established under Regulation (EU) No 409/2013², the beneficiaries must ensure that their actions comply with the deployment programme referred to in Article 11 of that Regulation (as published on the Europa website).

Durability

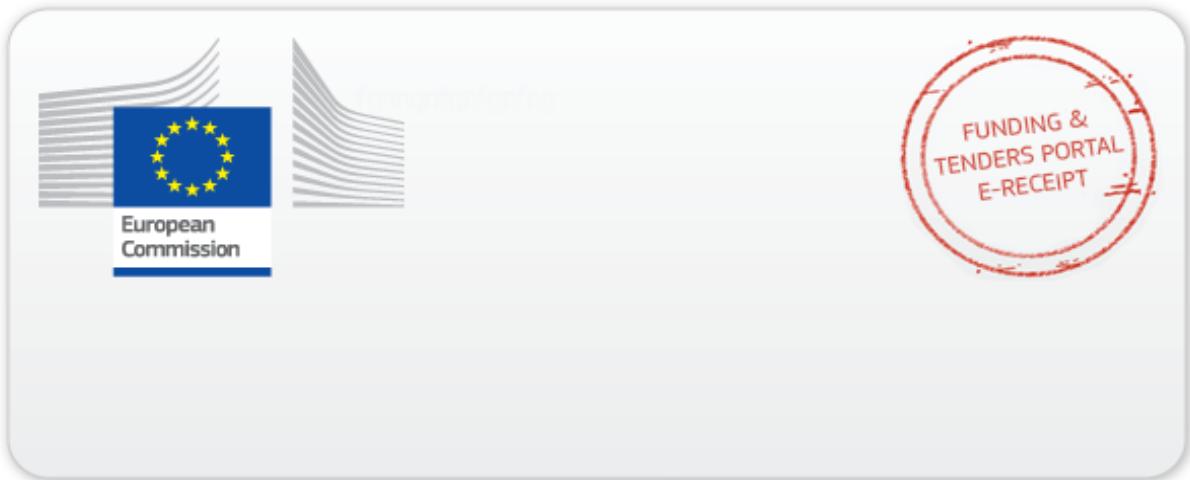
Unless exempted by the granting authority, the beneficiaries must commit to continue to use and maintain after the end of the action equipment bought and fully reimbursed by the action, for activities pursuing the action's objectives. Such equipment must be used for these purposes — for at least five years after the end of the action (see Data Sheet, Point 1) or until the end of its economic lifespan (i.e. until it has been fully depreciated) — whichever is earlier.

Specific rules for blending operations

When implementing blending operations, the beneficiaries acknowledge and accept that:

- the grant depends on the approved financing from the Implementing Partner and/or public or private investors for the project
- they must inform the granting authority both about the approval for financing and the financial close — within 15 days
- both actions will be managed and monitored in parallel and in close coordination with the Implementing Partner, in particular:
 - all information, data and documents (including the due diligence by the Implementing Partner and the signed agreement) may be exchanged and may be relied on for the management of the other action (if needed)
 - issues in one action may impact the other (e.g. suspension or termination in one action may lead to suspension also of the other action; termination of the grant will normally suspend and exit from further financing and vice versa, etc.)
- the granting authority may disclose confidential information also to the Implementing Partner.

² Commission Implementing Regulation (EU) No 409/2013 of 3 May 2013 on the definition of common projects, the establishment of governance and the identification of incentives supporting the implementation of the European Air Traffic Management Master Plan (OJ L 123, 4.5.2013, p. 1).



This electronic receipt is a digitally signed version of the document submitted by your organisation. Both the content of the document and a set of metadata have been digitally sealed.

This digital signature mechanism, using a public-private key pair mechanism, uniquely binds this eReceipt to the modules of the Funding & Tenders Portal of the European Commission, to the transaction for which it was generated and ensures its full integrity. Therefore a complete digitally signed trail of the transaction is available both for your organisation and for the issuer of the eReceipt.

Any attempt to modify the content will lead to a break of the integrity of the electronic signature, which can be verified at any time by clicking on the eReceipt validation symbol.

More info about eReceipts can be found in the FAQ page of the Funding & Tenders Portal.

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/faq>