



EGNOS Grant Plan 2021

Reference:

GSA-EGN-PM-PL-A07321

Issue/Version: 1.0

Date: 02/11/2020

Change Log:

Issue/ Version	Changes & Pages Affected	Date
1.0	First release	02/11/2020

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1 Grant plan

The Agency's 2021 grant plan for EGNOS exploitation contains 1 call for proposal: Support to the continuous development of EGNOS and Galileo programmes in the field of Aviation.

2 Support to the continuous development of EGNOS and Galileo programmes in the field of Aviation

2.1 Legal basis

The legal basis for this grant is Regulation (EU) No 1285/2013 of the European Parliament and of the Council of 11 December 2013 on the implementation and exploitation of European satellite navigation systems and repealing Council Regulation (EC) No 876/2002 and Regulation (EC) No 683/2008 of the European Parliament and of the Council and Delegation Agreement between the European Union, represented by the European Commission and the European GNSS Agency on the Exploitation Phase of the EGNOS Programme signed on 16 April 2014.

2.2 Budget line

The budget line is 3920.

2.3 Background

Following the recommendations of the Joint EU-EUROCONTROL Task Force on GNSS of 28 June 2013, in April 2015, the GSA signed a Framework Partnership Agreement (FPA) with EUROCONTROL establishing a long-term cooperation between the GSA and EUROCONTROL to support the continuous development of the European GNSS Programmes (EGNOS and Galileo) for the aviation community with the aim to contribute to a *“secure and safe implementation of the European satellite navigation policies in the aviation sector and adoption by the aviation user community (including state aircraft) for the timeframe 2015-2021.*

The indicative overall budget of the grants awarded for the entire duration of the FPA is €6.000.000.

The GSA awarded EUROCONTROL:

1. A First Specific Grant of 12 months starting in April 2015. This grant is now closed.
2. A Second Specific Grant of 36 months starting in April 2016. This grant is now closed.
3. A Third Specific Grant with EUROCONTROL starting in 2019. This grant is ongoing.

The GSA wishes to establish a Fourth Specific Grant with EUROCONTROL.

2.4 Priorities, objectives pursued and expected results

The objective of the grant is to support the secure and safe implementation of the European satellite navigation policies in the aviation sector and to foster adoption of GNSS by the aviation user community by implementing the Framework Partnership signed between EUROCONTROL and GSA on 08/04/2015.

The Grant shall address activities within the topics below.

- a) Definition of mission level requirements for EGNOS and Galileo;
- b) Operational introduction of European GNSS services (EGNOS and Galileo) for aviation in European Civil Aviation Conference (ECAC) area;
- c) Advice on Regulatory and Standardisation aspects, including spectrum;
- d) Support to European GNSS Development and Exploitation Activities (major systems reviews and Programme level activities managed by the EU);
- e) Inclusion of EGNOS and Galileo in future GNSS user terminals for aviation;
- f) Coordination of R&D for GNSS in aviation;
- g) Support to Aviation-specific performance monitoring activities;
- h) Support on International activities on GNSS in the aviation domain including European GNSS activities outside ECAC area.

These activities shall be aligned with the overall European GNSS programmes objectives as determined by the European Commission, who holds the ultimate responsibility for their implementation.

2.5 Description of activities to be funded under this call for proposals

The high-level activities funded within the Grant are described below:

(1) Definition of aviation users' needs to support the definition of mission level requirements for EGNOS and Galileo:

EUROCONTROL will continue supporting the discussions on the definition of mission requirements for EGNOS and Galileo systems and their evolutions (including NOTAMs) relevant to the aviation user needs

(2) Operational introduction of European GNSS services (EGNOS and Galileo) for aviation in European Civil Aviation Conference (ECAC) area:

EUROCONTROL will continue supporting the adoption of EGNOS and Galileo-based applications, targeting specific actions areas such as incentives programmes, training initiatives and guidance material. This activity is limited to ECAC States.

(3) Advise on Regulatory aspects, including spectrum:

EUROCONTROL shall provide technical notes defining the need for EGNOS and Galileo frequency management actions such as licensing rules, ban on jammers, regulation of pseudolites, protection of GNSS spectrum, compatibility between GNSS and other aviation systems (e.g. DME), etc. and an analysis of related regulation supporting the operational use. EUROCONTROL will be consequently expected to provide support for the recommended actions in the appropriate frequency management fora.

(4) Support to European GNSS Development and Exploitation Activities:

EUROCONTROL will participate, upon GSA request, to major system reviews and Programme level activities managed by the GSA.

- a) Support in the EGNOS systems reviews (EGNOS V2 and EGNOS V3 reviews), including assistance to the validation of system safety requirements/assumption impacting the operational safety.
- b) Ad-hoc support during iterations with programme stakeholders.

(5) Coordination of Research and Development (R&D) for GNSS in aviation:

EUROCONTROL will contribute to ensure that there are neither gaps nor overlaps between R&D activities on GNSS funded by different (European and National) public programmes, with the objective to develop a consistent R&D roadmap for GNSS in aviation.

- a) Support the coordination of the R&D activities on GNSS in aviation carried out either within or outside of the framework of the SESAR JU, ensuring coherence with the SESAR Concept of Operations.
- b) Support the development and implementation of a R&D roadmap for GNSS in aviation in coherence with the activities conducted on ATM modernisation in the context of the SESAR JU, specifically addressing EGNOS and Galileo.

(6) Inclusion of EGNOS and Galileo in future GNSS user terminals for aviation:

EUROCONTROL will support the activities for the development of GNSS user terminal capabilities in aviation.

(7) Aviation-specific GNSS performance monitoring.

EUROCONTROL will contribute to clarify aviation needs for specific data and parameters related to multi-frequency multi-constellation SBAS and GNSS performance.

(8) Support international activities on GNSS in the aviation domain

EUROCONTROL will support in preparing the EGNOS extension beyond ECAC (institutional, regulatory and operational aspects). EUROCONTROL will report on GNSS activities in GNSS-related international bodies (e.g. SWIM-NEXTGEN coordination activities).

2.6 Award criteria for the grant

2.6.1 Eligibility

Not applicable.

2.6.2 Non-exclusion criteria

Not applicable.

2.6.3 Selection criteria

Not applicable

2.6.4 Award criteria

- 1) Understanding of the tasks, completeness and credibility of the proposed approach. The proposal shall explain how the objectives of the Third Specific Grant will be addressed in the grant and how the proposed work plan is adequate to reach the grant objectives.
- 2) Background and experience of the team proposed: the proposal shall clarify the coherence and appropriateness of the proposed team and demonstrate that the allocation of the proposed personnel is suitable to execute the assigned tasks.
- 3) Cost-effectiveness: the proposal shall define a clear and detailed budget and demonstrate a cost-efficient implementation of the foreseen activities.

2.7 Indicative timetable of the call for proposals and indicative amount of the specific grant

Indicative amount: EUR 415,783.87

Indicative duration: 6 months

	Stages	Indicative timing
a)	Agency invitation for submissions	May 2021
b)	Deadline for submissions	June 2021
c)	Evaluation period	July-August 2021
d)	Signature of Specific Grant Agreement	October 2021

Maximum possible rate of co-financing of the eligible costs: 100%

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