

“Geomatics on the Move Prize Contest 2020”

Terms of Reference

1 THE BACKGROUND

Grounded in traditional land surveying disciplines, the geomatics field has evolved and grown together with advances in technology, implementing new tools and techniques to capture, process and draw meaningful insights from data. It integrates the skills and knowledge from the disciplines of land surveying, cadastre, cartography & mapping, geodesy, topography, GIS, photogrammetry, remote sensing, urban planning, and other applications.

Many of the geomatics applications benefit also from the European navigation programmes Galileo and EGNOS. Surveying, for example, has been an early adopter and leverages highly on the high-precision positioning of Galileo and EGNOS to develop new services and applications. Another source of geospatial data is Copernicus and its services, providing valuable information of the Earth’s surface or digital elevation models among many other data products.

Through this Contest, “Geomatics on the Move”, the GSA, in collaboration with the Council of European Geodetic Surveyors (CLGE)¹, encourages participants to explore the use of the European navigation programmes Galileo and EGNOS and their synergies with Copernicus, by submitting innovative surveying solutions, to shape the future of geomatics. The objectives of this Contest are to increase the usage of Galileo, EGNOS in the field of Geomatics, as well as to increase awareness of the benefits these EU Space Programmes provide toward fostering innovative geomatics applications.

2 THE CONTEST

THE CHALLENGE

The aim of the **contest** is to create innovative geomatics applications and solutions, using Galileo and EGNOS. Solutions must demonstrate their novel approach to the use of satellite data for the geomatics field, while ensuring that their technical feasibility is accurate and will have maximal practical impact on the sector.

The **contest** invites also applications that integrate the use of additional technologies - using Galileo or EGNOS - such as artificial intelligence, machine learning, augmented reality and virtual reality, as well as supplementary remote sensing data sources like drones and Copernicus data. Solutions animated through mobile phone applications or other easy-to-use platforms are also welcome.

¹ <https://www.clge.eu/>

Geomatics on the Move Prize Contest is an idea competition. The solution must be presented and demonstrated through a written submission in the form of a poster and a live pitch at the finals, both of which will be used for the evaluation of each solution. No technically developed application is required, although the technical feasibility of the idea or scientific finding should be demonstrable.

In the context of the Geomatics on the Move, in total ten (10) prizes will be given to applications received in the following two (2) categories:

- Traditional Geomatics: five (5) prizes will be given to solutions which main innovation is based on the usage of EGNSS, employing traditional equipment such as surveying or GIS grade GNSS Receivers for applications such as cadastral, marine and mining surveying or GIS mapping. These solutions can be supported or combined with Copernicus satellites data;
- Integrated Geomatics: five (5) prizes will be given to integrated surveying solutions that use Galileo or EGNOS, leveraging cutting-edge tools and technologies like drones, mobile mapping, laser scanners or Augmented/Mixed Reality that can either be used within geomatics applications or beyond. These solutions can be supported or combined with Copernicus satellites data;

ELIGIBILITY CRITERIA

Participation in the contest is open to teams from one (1) to three (3) participants, composed by natural persons or legal entities. Each team must appoint a team coordinator to serve as the central contact point and represent the team towards GSA.

Natural persons applicant shall be EU Members States citizen, or a citizen of Norway or Switzerland.

All applicants must be at least of 18 years of age by the date of registration to the contest.

In the case of legal entity, its central administration or registered office must be located in the EU Member States or in Norway or in Switzerland.

EXCLUSION CRITERIA

The contest is not open to entry where prohibited or restricted by law and is not open to employees of GSA (including GSA contractors), EC, ESA, CLGE affiliates, members of the evaluation board or to immediate family members (spouses, domestic partners, parents, grandparents, siblings, children and grandchildren) of the above.

CONTEST PROCESS

The Contest will be organised in two phases:

- **First phase – Open Call for Ideas (deadline for submission 16th October 2020):** Following the launch of the contest, applicants shall submit a poster in a pre-defined format describing the idea. The proposal shall include the following documents:
 - Poster with the technical description of the idea (available [here](#))
 - Legal Entity Form (available [here](#)) with a copy of an identity document (national ID card or passport) of the natural person participating;
 - Financial Identification Form (available [here](#));
 - Declaration of honour on exclusion (available [here](#)).

Submissions must be made through the official contest site <https://www.gsa.europa.eu/geomaticsonthemove>. The proposals will be evaluated by an evaluation board composed by experts appointed by the GSA and CLGE (e.g., GSA staff, CLGE members and other experts in areas of Geomatics) who will choose a maximum of ten (10) projects to proceed to Finals. Selected teams will be announced on the official contest site and promoted in other official channels. The award criteria defined below will be applied for the selection of the proposals that will move to the second phase.

Second phase – Pitch Preparation Phase / Finals (30th October – 11th December 2020):

During this phase, the selected applicants will refine their poster and prepare their pitch deck. The teams will receive technical assistance consisting of support with the graphic design of the poster, and a pitch training.

The finalists will be provided with information via email about the award ceremony and the logistics details. The official award of the Geomatics on the Move Prize Contest will take place virtually, during the European Space Week (7th-11th December 2020). During this event, each finalist will present its solution to the evaluation board (and interested audience). The winners of the prizes will be selected based on the award criteria listed below and awarded. Winners will be announced on the official contest site and promoted in official channels.

PRIZES

Each applicant participating in the Finals will receive a certificate of reaching the final stage. Additionally, the winner teams of the Geomatics on the Move Prize Contest will receive the following prizes:

- 1st Prize of the Traditional Geomatics solution: € 5.000 (five thousand Euro)
- 2nd Prize of the Traditional Geomatics solution: € 4.000 (four thousand Euro)
- 3rd Prize of the Traditional Geomatics solution: € 3.000 (three thousand Euro)
- 4th Prize of the Traditional Geomatics solution: € 2.000 (two thousand Euro)
- 5th Prize of the Traditional Geomatics solution: € 1.000 (one thousand Euro)

- 1st Prize of the Integrated Geomatics solution: € 5.000 (five thousand Euro)
- 2nd Prize of the Integrated Geomatics solution: € 4.000 (four thousand Euro)
- 3rd Prize of the Integrated Geomatics solution: € 3.000 (three thousand Euro)
- 4th Prize of the Integrated Geomatics solution: € 2.000 (two thousand Euro)
- 5th Prize of the Integrated Geomatics solution: € 1.000 (one thousand Euro)

Prizes shall be awarded in accordance with the principles of transparency and equal treatment and shall promote the achievement of policy objectives of the Union.

At this stage, no other Prize is foreseen. The GSA reserves the right to propose an additional Prize under the present Terms of Reference at any time until the closure of the First phase.

AWARD CRITERIA

The following award criteria will be considered for the assessment of the proposed solutions on the First phase. The award criteria apply to both of the categories:

- **Innovation (0-10):** Does the solution demonstrate an innovative approach to Geomatics products, processes, technologies or business models?
- **Technical feasibility (0-10):** Does the solution propose a technically accurate and feasible use of the involved technologies?
- **Market/scientific relevance (0-10):** Does this solution contribute to the development of the Geomatics profession or further scientific research in their field?
- **European navigation programmes relevance (0-10):** Is the solution making use of Galileo, EGNOS? Is the increased accuracy offered by Galileo relevant for the solution? Is the increased robustness provided by multi-constellation / multi-frequency relevant for the solution?
- **Address regional development needs (0-10):** Does the research solution address regional needs? Does the business idea improve the offer available in regional markets?

IMPORTANT NOTE: Only applications receiving equal or more than a total score of 30 (thirty) points and ranking in the first 5 places per each category of prize will be invited to the finals

The scores received by each finalist will be complemented by the following criteria during the final ceremony:

- **Pitch presentation quality (0-10):** Is the presentation well executed and dynamic? Have the speakers complied with the allocated time? Have all aspects of the solution been presented in a clear way?

The above-mentioned criteria will be assessed confidentially and on a discretionary basis by the appointed evaluation board. The applicants irrevocably acknowledge that:

- They have been informed that the rules do not provide for any recourse regarding the constitution or decision of the evaluation committee.
- Evaluation committee deliberations are confidential and will not be disclosed to applicants.

INTELLECTUAL PROPERTY OF DEVELOPMENTS

Applicants will retain full ownership of the intellectual property rights on ideas developed within the framework of the Contest, and exclusivity of commercial exploitation.

3 THE SCHEDULE

ID	Event	Date (estimated)
1	Announcement of Contest	1 August 2020
2	Submission deadline	16 October 2020
3	Announcement of selected teams to proceed to Finals	30 October 2020
4	Contest Final	7-11 December 2020

4 REQUESTS FOR ADDITIONAL INFORMATION

Participants may request additional information for the purpose of clarifying the scope of these Terms of Reference. Any requests for additional information must be made in writing only to prizes@gsa.europa.eu. The subject of the email has to quote the reference 'Geomatics on the move 2020' followed by the name of the team. Participants are invited to send the requests for additional information as early as possible before the deadline for submission of each phase.

5 OTHER CONDITIONS

Participation in the Contest requires the acceptance of the Rules of Contest consisting of these Terms of Reference as well as the GSA's General Rules of Contest (available on GSA's website under the following link:

https://www.gsa.europa.eu/sites/default/files/content/general_rules_of_contest_for_prizes.pdf).

All applicants must comply with the General Rules of Contest; in particular the attention of the applicants is brought to the obligations set forth under Article 7 (Audits, cooperation for publicity purposes) and Art. 10 (Intellectual Property).

For the avoidance of doubt, any applicants reaching the second step of the competition (and taking advantage of the in-kind support offered) shall be subject to Article 7 of the GSA's General Rules of Contest.

Any personal data that may be included in the applications of natural persons applying for this opportunity shall be processed by the GSA in accordance with the applicable rules 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.

Identity of the Controller and Data Protection Officer:

1. For what concerns the processing purposes 1, 2 and 3 below:

- **Controller:** European GNSS Agency (GSA), Head of GSA Market Development Department, Janovskeho 438/2 170 00 Prague 7, Czech Republic, market@gsa.europa.eu;
- **Data Protection Officer:** GSA Data Protection Officer, Janovskeho 438/2 170 00 Prague 7, Czech Republic, dpo@gsa.europa.eu

2. For what concerns the processing purpose 4 below:

- **Join Controllers:** (1) European GNSS Agency (GSA), Head of GSA Market and Development Department, Janovskeho 438/2 170 00 Prague 7, Czech Republic, market@gsa.europa.eu and (2) European Commission, Directorate-General for Budget of the European Commission ('DG Budget'), DG Budget's Data Controller BUDG-FICHIER-TIERS@ec.europa.eu
- **Data Protection Officers:** (1) GSA Data Protection Officer, Janovskeho 438/2 170 00 Prague 7, Czech Republic, dpo@gsa.europa.eu and (2) DG Budget Data Protection Coordinator BUDG-DATA-PROTECTION-COORDINATOR@ec.europa.eu

Purposes of processing:

1. Registration in the application platform available at the dedicated contest site and submission of the application
2. Management and administration of the award process pertaining to this opportunity
3. The preparation of the contract(s), only with regard to the personal data of the awarded applicant(s)
4. Only with regard to the personal data of the awarded applicant(s):
 - the registration of the necessary "legal entities" and "bank account" files in the Commission Financial System ABAC (Accrual Based Accounting)
 - the execution of payments towards the registered entities
 - the registration of the related financial transactions

Data concerned: any personal data that may be included in interested entities' applications. Such data can relate to the following categories:

- Identification of individuals (e.g. name, last name, title, function in organisation);

- Communication details of individuals (e.g. email address, telephone number, postal address);
- Information for the evaluation of eligibility, exclusion and award criteria (e.g. expertise, technical skills and languages, educational background, professional experience including details on current and past employment)
- Financial information of applicant(s), e.g. bank account number, IBAN and BIC codes, address of respective bank branch, name of bank account holder
- Data related to criminal convictions and offences of: (1) members of the administrative, management or supervisory body of applicants, (2) natural persons who have powers of representation, decision or control of the applicant, (3) owners of the applicants as defined in Article 3(6) of Directive (EU) 2015/849, (4) natural persons assuming unlimited liability for the debts of the applicants, (5) natural persons who are essential for the award or the implementation of the contract(s); such data are collected through the submission of the declaration of honour

It is specifically noted that:

- the abovementioned processing operations will not entail the processing of any special categories of personal data. If, however, an applicant submits such data at its own volition and without any specific request, it is implied that the data subject has given its consent to the processing of such data
- the provision of personal data by the applicants is a requirement necessary to enter into the contract

Legal bases: Article 5(1)(a), 5(1)(c), 10(2)(a) and 11 of Regulation (EU) 2018/1725

Lawfulness of processing:

- Article 5(1)(a): the processing is necessary for the performance of a task carried out in the public interest, specifically the management and functioning of the GSA through the launching of competitions.
- Article 5(1)(c): the processing is necessary for the performance of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract; the GSA processes the personal data of the applicants at their request (through the submission of their applications) in order to take the necessary steps prior to enter into the contract with the awarded applicant (s).
- Article 11: the processing of personal data relating to criminal convictions and offences shall be carried out only when authorised by Union law; such processing, in the form of an extract from the judicial record or declaration of honour, is explicitly foreseen in the Financial Regulation² (Articles 136-140)
- Article 10(2)(a): as explained above, in case any applicant submits special categories of data at its own volition and without any specific request, it is implied that the data subject has given its consent to their processing

Recipients of the data processed:

- a limited number of staff of the GSA managing this procedure
- data processors:
 - a limited number of staff of GSA contractors assisting GSA staff in the management of this procedure

² Regulation (EU, Euratom) 2018/1046

- a limited number of staff of GSA contractors in charge of the provision of hosting services for the GSA's servers
- a limited number of staff of the service providers in charge of providing to the GSA the application platform via which the applicants submit their applications
- a limited number of staff of the Directorate-General for Budget of the European Commission ('DG Budget')
- bodies charged with a monitoring or inspection task in application of Union law (e.g. internal audits, Financial Irregularities Panel, European Anti-fraud Office – OLAF)
- members of the public: the winning entities will be announced to the public, which may also entail the announcement of the personal data of the representatives of such entities (e.g. name, last name)

Recipients from (a) to (c) are established in the European Union.

Information on the retention period of personal data:

1. with the exception of the information under point (2) below, all other information pertaining to this procedure shall be kept for up to 7 years following the end of the year when the prizes has been awarded as a result of the award procedure; files may also have to be retained until the end of a possible audit if one started before the end of the above period;
2. all information (including personal data) submitted by the applicants in the application platform will be deleted from said platform
 - within a maximum of 2 months after the launch of the second stage of the competition, for those applicants which are not selected to proceed to the second stage of the competition;
 - within a maximum 2 months after the closing date of the second stage of the competition, for those applicants which are selected to proceed to the second stage;
3. all collected data may be stored:
 - electronically on GSA servers with access control measures (i.e. one or two factor authentication) hosted by GSA contractors which are located in the EU and abiding by the necessary security provisions
 - physically in secure storage cupboards in the GSA HQ in Prague
 - electronically and physically on the servers/cupboards of the processors identified above (all of which are established in an EU Member State)

Transfer of personal data to third country:

The service providers in charge of providing to the GSA the application platform use the server service Amazon Web Services (AWS) of Amazon and, therefore, **data may also be transferred to Amazon's servers located in third countries (outside the European Union).**

Amazon is certified under the EU-US Privacy Shield which ensures that the company provides an adequate level of protection of personal data (European Commission Implementing Decision (EU) 2016/1250 'adequacy decision'); for information on the certification of Amazon please see <https://www.privacyshield.gov/participant?id=a2zt0000000TOWQAA4>; for more information on the EU-US Privacy shield see https://ec.europa.eu/info/law/law-topic/data-protection/data-transfers-outside-eu/eu-us-privacy-shield_en and for the Commission's adequacy decision see <https://eur-lex.europa.eu/legal->

The data subject's rights and contact data:

- Data subjects have the right of access, rectification and erasure of their personal data or restriction of processing at any time, provided that there are grounds for the exercise of this right, as per the applicable rules
- Data subjects have the right to object, on grounds relating to his or her particular situation, at any time to the processing of personal data concerning him or her. Requests shall be addressed to the GSA Market Development Department at market@gsa.europa.eu by describing the request explicitly. It is noted that pursuant to such a request, the Controller shall no longer process the personal data unless the Controller demonstrates compelling legitimate grounds for the processing which override the interests, rights and freedoms of the data subject or for the establishment, exercise or defence of legal claims
- Data subjects may obtain their personal data, submitted to the GSA, in a structured, commonly used and machine-readable format and transmit them to another controller, provided that there are grounds for the exercise of this right, as per the applicable rules
- Data subjects are entitled to lodge a complaint at any time with the European Data Protection Supervisor (<http://www.edps.europa.eu>; EDPS@edps.europa.eu) if they consider that their rights under the applicable rules on the protection of individuals with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data have been infringed as a result of the processing of their personal data by the GSA
- Only in cases where the data subjects' consent is used as the legal basis for the processing of personal data (i.e. in case they have submitted special categories of data at their own volition and without any specific request), they can withdraw their consent at any time, without affecting the lawfulness of the processing before the withdrawal

Any request for the exercise of any of the abovementioned rights shall be addressed to the GSA Market Development Department at market@gsa.europa.eu; data subjects are kindly requested to describe their requests explicitly.

6 TABLE OF ACRONYMS AND DEFINITIONS

CLGE	Council of European Geodetic Surveyors
EC	European Commission
ESA	European Space Agency
EU	European Union
GIS	Geographic Information Systems
GSA	European GNSS Agency