

# “FLAMINGO hackathon”

## Terms of Reference

### 1 THE CONTEST

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#### THE CHALLENGE

The aim of the hackathon is to promote the use of Galileo by creating the mobile solution using raw measurements. The hackathon will provide teaching and experimental space while at the same time delivering a memorable experience for everyone. This will be achieved by:

- Making participants more aware of GNSS as the “hidden utility” behind modern society.
- Creating a challenge that directly addresses their interests and allows them to answer: what, why, so what.
- Providing support in the use of the FLAMINGO API, as an example of the recent EU-funded research project.
- Embracing the entrepreneur as well as the technical spirit of the participants.
- Embracing the open-source principle while maintaining focus on individuals IP.
- Aiming to provide a way forward for the participants, beyond the duration of the hackathon and FLAMINGO project.

The participants will have a chance to select from two separate prize contests:

#### **1. FLAMINGO Navigation Challenge**

This challenge aims at utilising the navigation capacity of GNSS on Android-based mobile devices, as demonstrated by FLAMINGO. The goals of the challenge are:

- To produce an application utilising position or navigation information.
- To provide a better user experience and utilise a higher accuracy position.
- To properly communicate to the users the position quality.
- To identify and address market needs.

Potential applications for FLAMINGO include augmented reality, impaired navigation, precise fitness performance apps, surveying with a smart phone, street navigation with footpath precision.

## 2. FLAMINGO Verified Location Challenge

This challenge aims at engaging developers, demonstrating alternative uses of GNSS raw measurements, without the need for programmers. The goal for the teams will be to create their own system (user terminals + backend) that use GNSS raw measurements to verify position, using a provided secure layer, written by the University of Nottingham team. The challenge is oriented at demonstrating non-navigation use of GNSS raw measurements.

### ELIGIBILITY CRITERIA

Individuals of all nationalities and backgrounds are eligible to participate in the prize contests, except:

- employees of GSA, EC and ESA or immediate family members (spouses, domestic partners, parents, grandparents, siblings, children and grandchildren) of employees of GSA, EC and ESA or
- employees or immediate family members of any of their respective affiliates or
- employees of FLAMINGO project consortium and their family members

Participants are not allowed to propose apps which are already fully or partly developed using EU funds.

The contest is open to teams, ideally from one (4) to six (6) people, composed by natural persons or persons representing legal entities.

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

### EXCLUSION CRITERIA

The contest is open to participants who are not in a situation of exclusion listed in Article 136 FR. The European GNSS Agency shall reject applicants on the basis of Article 141 FR and applicants who do not confirm their compliance to the General Rules of Contest for Prizes available here:

[https://www.gsa.europa.eu/sites/default/files/content/general\\_rules\\_of\\_contest\\_for\\_prizes.pdf](https://www.gsa.europa.eu/sites/default/files/content/general_rules_of_contest_for_prizes.pdf)

### CONTEST PROCESS

Following the launch of the contest, each team or individual participant shall register for the event [here](#), providing information about his/their background skills applicable to the hackathon. In addition, the applicant shall select the preferable challenge.

### PRIZES<sup>1</sup>

#### **FLAMINGO Navigation Challenge**

- First prize –1.800 EUR

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<sup>1</sup> The award of the prizes to the winners shall be official at the time of signature of the decision to award by the GSA's authorizing officer, which shall take place after the event.

- Second prize - 1000 EUR
- Third prize - 500 EUR
- Fourth prize - 300 EUR

#### **FLAMINGO Verified Location Challenge**

- First prize – 1.200 EUR
- Second prize - 600 EUR
- Third prize - 300 EUR
- Fourth prize - 300 EUR

The prize shall be awarded either to an individual or to a team based on the organisation chosen at the time of registration.

## **AWARD CRITERIA**

The **award criteria** to be used to select the winning applications for both challenges include:

- Technical feasibility: How feasible the solution is within the limits of current technology? What progress has been achieved in the application/idea since the start of the challenge?
- Innovation: How innovative and novel the approach is compared to existing technical solutions and commercial services?
- Market potential: Is this solution sellable after repackaging this idea into a real product? Is there a potential market demand/customer base for this product?
- Galileo-relevance: Is the application making use of Galileo? Is the increased accuracy offered by Galileo relevant for the application?
- Presentation and user experience: How good and clear was the presentation of the idea in front of the jury members?

## **INTELLECTUAL PROPERTY OF DEVELOPMENTS**

For the avoidance of doubt, the EU, the FLAMINGO consortium partners and the participants shall retain ownership of all intellectual property created prior to or separate from the challenge and nothing in these terms of reference is intended to deem or imply any licence or other right to such background intellectual property.

Any developments created by a participant during the course of the challenge will remain their sole and exclusive property and they shall own all right, title, and interest in any intellectual property rights arising from the challenge. The participant acknowledges that the costs incurred by them in the creation and maintenance of such intellectual property rights shall be their personal responsibility.

GSA shall not assert any right of ownership over participant developments, save for the rights detailed in the GSA General Rules of Contest, Art 10. The rights granted to the FLAMINGO consortium partners are addressed by way of separate agreement (the FLAMINGO API Services Terms of Use).

We encourage participants to open source developed code when feasible.

## PAYMENT ARRANGEMENTS

Payment of the prizes will be made to the authorised representative of the winning teams, following the submission of the necessary documentation (i.e. legal entity form, bank identification form, invoice). The winners will be requested those documents in due time.

## 2 THE SCHEDULE

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ID	Event	Date
1	Breakfast and optional morning workshops: <ul style="list-style-type: none"><li>- Introduction to FLAMINGO (NSL).</li><li>- White paper workshop (GSA).</li></ul>	21 <sup>st</sup> March, 9:00 – 11:00
2	Hacking preparation	21 <sup>st</sup> March, 11:30 – 13:00
3	Hacking	21 <sup>st</sup> March, 13:00 – 22 <sup>nd</sup> March 11:00
4	Award ceremony	22 <sup>nd</sup> March – 15:00 – 17:00

## 3 THE ORGANISATIONAL COSTS

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The participation to the contest is free of charge for the applicants. For the avoidance of doubt, travel costs of the members of the teams remain at their charge.

Costs incurred in preparing and submitting a proposal are borne by the Applicants and will not be reimbursed.

## 4 OTHER CONDITIONS

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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 [here](#)). All applicants must comply with the General Rules of Contest.

### Notice on data protection:

- GSA will process only the following categories of personal data of participants in accordance with (1) the applicable rules on the protection of natural persons with regard to the processing of personal data by the EU institutions, bodies, offices and agencies (currently Regulation (EU) 2018/1725) and (2) the modalities of the following privacy statement:

**Identity of data controller and data protection officer:**

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

**Purpose of the processing:**

- the management and administration of the prize contest

**Categories of personal data processed:**

- financial information (e.g. bank account number, IBAN and BIC codes, address of respective bank branch), and
- data related to criminal convictions and offences of: (1) members of their administrative, management or supervisory body, (2) natural persons who have powers of representation, decision or control, (3) their owners as defined in Article 3(6) of Directive (EU) 2015/849, (4) natural persons assuming unlimited liability for their debts, (5) natural persons who are essential for the award or the implementation of the prize – 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, a participant 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 participants is a requirement necessary to enter into the prize contract

**Lawfulness of the processing:**

- 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 participants in order to take the necessary steps prior to entering into the contract with the prize winner(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 Regulation<sup>2</sup> (Articles 136-140)
- Article 10(2)(a): as explained above, in case any participant 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 the prize contests

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<sup>2</sup> Regulation (EU, Euratom) 2018/1046

- data processors:
  - a limited number of staff of GSA contractors assisting GSA staff in the management of prize contests
  - a limited number of staff of GSA contractors in charge of the provision of hosting services for the GSA's servers
- 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)

**Information on the retention period and storage locations of personal data:**

- any information pertaining to the prize contests shall be kept for up to 7 years following the end of the year when the contract(s) has been awarded as a result of the prize contest; files may also have to be retained until the end of a possible audit if one started before the end of the above period;
- 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)

**The data subjects' rights:**

- 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 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](mailto: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](mailto:market@gsa.europa.eu); data subjects are kindly requested to describe their requests explicitly.

For all other personal data which will be collected by Flamingo/GSA (i.e. Data Controller), please refer to the applicable privacy policy here: <https://www.eventbrite.co.uk/e/raw-galileo-london-2020-registration-91546519103> .