**TECHNICAL PROPOSAL - DESCRIPTION OF THE ACTION – FORM B1**

1. Concept and approach (max 30 pages )
   1. **Concept**

Please describe how the project is relevant for the main objectives of the call and in particular describe/provide:

* the process to identify the candidate target application(s) and the relevant specific user needs, highlighting the challenges and gaps to be filled according to the existing solutions;
* based on the gaps to be filled, justify the choice of the technology to be implemented in combination with Galileo HAS;
* a preliminary version of the user requirements.

Furthermore, the proposal shall include clear justification of the following aspects:

1. Which mass-market device type(s) are expected to be compatible with the proposed GNSS algorithm(s);
2. How Galileo HAS is complemented by other positioning techniques in the proposed GNSS algorithm(s);
3. How the algorithm(s) will be validated and/or demonstrated to ensure compliance with (1) and (2) above.
   1. **Approach**

Applicants shall include a detailed description of the proposed implementation of the project, including, as minimum:

1. The overall approach and methodology, at least including:

* Description of and reasoning for the selected development approach, such as (but not limited to) one of the two options (i.e firmware or software implementation) listed in section 2.2 of the Call for proposal;
* the description of the process to design, develop and test/verify the algorithm (and antenna if applicable);
* Approach to validate and demonstrate the solution both in simulated environment (in-lab tests) and, up to the maximum extent, in a realistic operational environment (on-field tests);
* All other information requested within the Call for proposal document at the proposal stage,.

1. The expected maturity level proposed to be achieved by the solution in the frame of the project.

In addition, the applicants shall include in the proposal a number of preliminary versions of deliverables (as per section 2.4 and table 1 of the Call for Proposal):

* Work plan (as part of section 3 below)
* Justification file for the selected target application (and relevant class of GNSS device(s)) *(and Antenna if applicable)*
* User requirements document
* Receiver algorithm functional verification and performance validation – Test plans, cases and procedures
* Entry Market Strategy (as part of section 2 below)
* Dissemination Plan (as part of section 2 below)

1. Expected Impact (max 10 pages)
2. Describe how your project will contribute to the maximisation of the benefits to citizens by the adoption of the proposed solution in the market;
3. Elaborate a preliminary *Entry Market Strategy* describing the steps to follow to start engaging potential commercial stakeholders interested in introducing the solution in specific application domains.
4. Provide a preliminary *Dissemination plan* for the results in the best interest of the European Union.
5. Implementation (MAX 20 pages)
   1. **Work plan**

Please provide the following:

* + 1. **Overall structure of the work plan**
* brief presentation
  + 1. **Timing of the different WPs and their components**
* Gantt chart or similar
  + 1. **List of work packages.**

The proposals must also include a major sub-division of the proposed project into work packages, numbered 1 through ‘n’ (this might include the indication of part of the activities subcontracted or carried out by third parties).

Please provide the list of work packages, using the table below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **List of work packages** | | | | | |
| **Work package No** | **Work Package Title** | **Lead Participant No** | **Lead Participant Short Name** | **Start Date\***  **(T0 + X)** | **End Date\***  **(T0 + Y)** |
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\*Please do not indicate specific calendar months; instead use the format T0 + X/Y, where T0 is the month in which the project will be kicked-off and X/Y is the number of months from the date on which the project was kicked off.

* + 1. **Work package description.**

Please provide the description of each work package listed above, using the table below.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package description** | | | | | | | | | |
| **Work package number** |  | | **Start Date or Starting Event** | | | |  | | |
| **Work package title** |  | | | | | | | | |
| **Participant number** |  |  | |  |  |  | |  |  |
| **Short name of participant** |  |  | |  |  |  | |  |  |

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| **Objectives** |

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| **Description of work** (where appropriate, broken down into tasks), coordinator and role of co-applicants. |

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| **Deliverables of the WP** (brief description and month of delivery) |

* + 1. **List of major deliverables.**

A deliverable refers to a distinct and tangible output of the project, meaningful in terms of the overall objectives, generally related to a specific objective and related set of activities and constituted by a report, tool, etc. The following table must list all planned deliverables with a short description of the content and its link with the project plan and the expected delivery periodicity. For each deliverable a dissemination level (public or confidential) shall be added.

Please provide the list of deliverables (in accordance with section 2.4 of the Call for Proposals), using the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Deliverables** | | | | | | | |
| **ID** | **ID as per Call for Proposal (section 2.4)** | **Title** | **Short description** | **Periodicity**  (a) | **Type**  (b) | **Distribution**  (c) | **WP Ref.**  (d) |
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Notes:

* 1. Periodicity may include: Annual, Quarterly, Monthly, ad-hoc, etc.
  2. R = Report; SP = Specification, T= Tool, O = Other.
  3. P = Public, open for public dissemination (public deliverables shall be of a professional standard in a form suitable for print or electronic publication);

CO = Confidential, restricted under conditions to be set out in the Specific Grant Agreement. Irrespective of the status, all reports and deliverables must be made accessible to the other project participants, and to the GSA.

ER = External restricted (e.g. Members, stakeholder groups or other particular target

groups)

* 1. Corresponding to the specific WP ID they refer to.
     1. **Graphical presentation of the components showing how they inter-relate.**
* Presented in Gantt chart or similar
  1. **Management structure and procedures**
     1. **Organisational structure and related milestones**

Describe the organisational structure and the decision-making (please include a list of milestones as in the table below). Explain why the organisational structure and decision-making mechanisms are appropriate to the complexity and scale of the project. Describe, where relevant, how effective innovation management will be addressed in the management structure and project plan.

| **Milestones** | | | | |
| --- | --- | --- | --- | --- |
| **Milestone number** | **Milestone name** | **Related work package(s)** | **Estimated date** | **Means of verification** |
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* + 1. **Risks and mitigation measures**

Describe any critical risks, related to project implementation, that the stated project objectives may not be achieved. Detail any risk mitigation measures. Please provide the following risk register table with critical risks identified and mitigating actions.

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| --- | --- | --- |
| **Risks** | | |
| **Description of risk** | **Work package(s) involved** | **Proposed risk-mitigation measures** |
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* 1. **Consortium as a whole[[1]](#footnote-2)**

Describe the consortium. How will it match the project’s objectives? How do the members complement one another (and cover the value chain, where appropriate)? In what way does each of them contribute to the project? How will they be able to work effectively together? Please note that the individual members of the consortium are described in the form A4. There is no need to repeat that information here.

Describe the industrial/commercial involvement in the project to ensure exploitation of the results and explain why this is consistent with and will help to achieve the specific measures which are proposed for exploitation of the results of the project.

* 1. **Resources to be committed**

Please make sure the information in this section matches the costs as stated in the budget table in form C1 of the administrative forms, and the number of man-days, shown in the detailed work package descriptions.

Please provide the following:

1. **Summary of planned staff effort**

Proposals must include an aggregated overview of planned efforts, described as number of man-days over the whole duration of the planned work, for each work package, for each participant. Identify the work-package leader for each WP by showing the relevant man-day figure in bold.

Please follow the structure below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Planned Staff Effort** | | | | | | |
| **Work package No** | **Work Package Title** | **Co-ordinator** | **Participant 2** | **Participant 3** | **…** | **Total**  **man-days** |
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|  |  |  |  |  |  |  |
| **Total Man-days** | |  |  |  |  |  |

1. **Other direct costs.**

Provide justification of the Other direct cost items (travel, equipment, goods and services, etc.) for all applicants (as stated in cost category 2 of their C1 form).

|  |  |  |
| --- | --- | --- |
| **Other direct costs** | | |
| ***Applicant Name: […]*** | **Cost in EUR** | **Justification** |
| ***Travel*** | As in C1[[2]](#footnote-3) form | *<Please specify the number of meetings; place of meetings – i.e. inside/outside EU; number of persons attending a meeting, purpose of the meeting>* |
| ***Equipment*** | As in C1 form |  |
| ***Goods and services*** | As in C1 form |  |
| ***…*** | As in C1 form |  |

1. **Subcontracting**

Provide list of subcontractors involved in the project including the company to be subcontracted (if known), description of subcontracted activities and estimated budget. If an applicant is planning to use more than one subcontractor each one should be listed separately.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of applicant** | **Subcontractor company name (if known)** | **Estimated costs in EUR** | **WP** | **Description of subcontracted activities** |
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|  | **Total[[3]](#footnote-4):** |  |  |  |

1. **Unit costs**

In case the direct personnel costs are going to be budgeted as unit costs please fill in the below table. One example is provided – please delete it when filling in the table.

If no unit costs are budgeted, please leave the table blank.

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| --- | --- | --- | --- |
| **Country of the beneficiary for which the unit costs apply** | **Estimated number of units/hours to be worked on the project** | **Unit rate (taken from Annex IX of this Call for Proposals)** | **Total costs in EUR (no. of units \* unit rate)** |
| *<Italy>* | *<240>* | *<35.63>* | *<8,551.20>* |
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| **Total[[4]](#footnote-5):** | | |  |

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| **OPERATIONAL CAPACITY – Form B2** | |
| **Organisation Legal Name** |  |
| **Legal Status** |  |

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| Description of the profile of the people primarily responsible for managing and implementing the activities including description of its relevant competences, previous experience (according to their profiles or CVs), previous experience in similar projects and describing the ability to carry out the objectives of this Call of Proposals. |
| Description of the technical equipment, tools or facilities at the disposal of the applicant |
| Description of the role of each applicant (coordinator, co-applicants and affiliated entities) in the organisational structure in general and regarding the performance of activities subject to grant agreement |

1. To be filled in only in case of consortium application [↑](#footnote-ref-2)
2. This total should appear in C1 form in Category 2.1 [↑](#footnote-ref-3)
3. This total should appear in C1 form in Category 2.8 [↑](#footnote-ref-4)
4. This total should appear in C1 form in Category 1.3 [↑](#footnote-ref-5)