Call Guidelines

SOUL-FI, Project Nr. 632814

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1. Means of submission

The entry point of all proposals is the platform F6S (in specific www.f6s.com/fiware-soul-fi#/about).

After evaluation and grants, the award proposals will be managed by a SOUL-FI Call Management Platforms tool.

1.2. Language

English is the official language for the open calls.

Submissions done in any other language will not be evaluated.

1.3. Documentation formats

Any document requested in any of the phases must be submitted electronically in PDF format without restrictions for printing.

1.4. Number of proposals per applicant

As a general rule, only one proposal per Micro, Small or Medium-sized Enterprise will be selected for funding. This does not mean only one proposal can be submitted per applicant, but only its best proposal will be selected for funding, should the criteria for selection be met.

2. APPLICATION FORMS

The application forms include space for a concise description of your project. Use the space available. Provide a clear and succinct description of your project; avoid repetitions in text and use images (video/ PowerPoint) to illustrate and clarify your project.

The Evaluation Board assesses the project based on the application form and the Business Pitch, including Team profile and track record, videos, budget (Round B) and FI-WARE technology usage.

The Evaluation Board advises the SOUL-FI coordination team about, among other things, the degree to which the project matches the objectives and scope of the grant programme. In its assessment it also looks at how consistent the project is in terms of objective, structure, expertise involved, method and degree of cosponsoring and public reach. You are advised to include all of this in your description.

2.1. General Information

Within the General Information section you are required to present your SME legal information.

It is recommendable that the contact person has power to take decisions and is easily reachable.

2.2. The Idea

In the Idea Section you are invited to describe your project idea within the domain of smart-cities and communities in the areas of energy, mobility, environment, resources, tourism and quality of life.

- Describe and explain the overall concept underpinning the project. Describe the main ideas, models or assumptions involved. Identify any trans-disciplinary considerations;

- Describe the positioning of the project e.g. where it is situated in the spectrum from 'idea to application', or from 'lab to market'. Refer to Technology Readiness Levels where relevant.

- Describe the innovation potential, which the proposal represents. Where relevant, refer to products and services already available on the market. Please refer to the results of any patent search carried out.

- Describe the advance your proposal would provide beyond the state-of-the-art, and the extent the proposed work is ambitious.

2.3. The use of FIWARE technology

In this section you must address the applicability of the FI-WARE technology and tools in your project. Describe how FI-WARE technology will enhance your project development and implementation; not forgetting to specify the FI-WARE tools expected to be applied.

We advise you to check the questions published on *"Annex 1. Technical Relevance of the Project"* to understand what questions evaluators of your proposal will ask and answer themselves when reading your responses to this application form.

2.4. The Market & Business

In this section you must specify the positioning of your project within the actual market. Describe which market you are address, your entrance strategy, market position and customers, and how you intent to bring value to your company based on this project.

2.5. The Team

In this section you are able to present your team composition, competences, chemistry, and expertise... the "fit-to-the-project". It is important to explain how the team will work together to develop the project and bring it to market.

2.6. The Work-plan

In the Work-plan section you must describe and explain your approach and methodology to develop the project within the project duration. Your Work-plan should be clear, measurable, realistic and achievable.

For Round B applicants, it is required to present a breakdown of the total project cost expected to occur to develop the Pilot Product. All items need to have an explanation on how will the budget be used and why is essential for project execution. Information about costs eligibility is presented at Annex 1. Cost Eligibility and Limitations and Conditions.

2.7. Pitch presentation

Here you are requested to upload your business pitch – a 10 slide presentation. You are recommended to follow the guidelines for presented of each slide nr: (1) Introduction; (2) Challenge (related to Smart Cities or Transport); (3) Solution; (4) Product & FIWARE relevance; (5) Market; (6) Competition; (7) Business Model; (8) Marketing Plan; (9) Team; (10) Money & Milestones;

2.8. FI-Amaze us (Round A)

Within this section applicants are free to bring value to their proposal in an open form, questions are open and there is the possibility to upload some added value information.

This section may be highly relevant in case of a tie between proposals.

2.9. Accelerator Programs (Round B)

This section is not under evaluation. It will be used to collect information about applicants and their expectations towards the Acceleration program.

2.10. Terms and Conditions

If the terms and conditions presented are not complied the proposal will not be even evaluated.

2.11. Recommendations

This section is optional.

ANNEX 1. TECHNICAL RELEVANCE OF THE PROJECT

Data/Media Context Management

- What are the kind of entities that are relevant to your application (i.e., build your information model)? Is your application context-aware (i.e., exhibit a behaviour that depends on values of attributes characterizing entities that describe your context)? How does it implement context-awareness? What would be the sources of context information in your application? Do you have plans to use the FIWARE Context Broker GE (reference implementation: Orion) to handle/publish Context Information and implement context awareness? How?

- Does your application detect scenarios or events to which the application reacts? What kind of reaction does the application trigger? Do you need to perform some sort of real-time processing on events (e.g. change on context information)? Do you have plans to use the FIWARE Complex Event Processing GE (reference implementation: ProTon) to handle scenarios or perform real-time event processing? How?

- Does your application need to perform BigData analysis? Do you need to analyze big files or databases in batch mode? Are you planning to exploit map&reduce technics in your data analysis using Hadoop? Do you have plans to use the FIWARE BigData GE (reference implementation: Cosmos) for this purpose? How?

- Does your application orchestrate services from third-party systems or implement some sort of workflow? How do you plan to implement it?

- Does your application require to process media streams in real-time? What kind of media streams? What kind of processing does it need to perform? Do you process/generate metadata linked to media streams? Do you need to implement real-time media communication? Do you need to broadcast media streams? Do you need to archive large media streams? Do you have plans to use the FIWARE Real-time Media Streaming Processing GE (reference implementation: Kurento)? How?

- Does your application consume datasets provided by a third party (as Open Data or not)? Does your application produce, publish or modify datasets? Does access control to these datasets need to be handle? Do you have plans to use the CKAN platform for the purpose of managing datasets? How? (note: CKAN is the reference implementation of the FIWARE Datasets Management GE)

Connection to the Internet of Things

- Does your application require to handle data from sensors or actuate on devices deployed in the field (actuators)? How many of them is your application expected to handle? What kind of sensors/actuators does it connect to?

- How is data from sensors processed? Does it get integrated as part of context information in order to support some context-awareness behaviour?

- What kind of protocols does your application handle to connect to sensors and/or actuators? How do you handle scalability in the number of sensors/actuators connected to your application? Do you have plans to use the FIWARE IoT Backend Device Management GE (reference implementation: IDAS) for this purpose? How?

- Values of some attributes characterizing entities that are relevant to your application may be calculated based on the combination of measures captured from multiple sensors (e.g. the temperature of a building may be calculated as the average of temperatures measured in each floor). How do you plan to implement this calculation? Do you have plans to use the FIWARE IoT Broker GE for this purpose? How?

- Does your application require to perform certain filtering/processing on measured data that executes closer to sensors (i.e., executed in gateways/hubs distributed closer to sensor devices) in order to optimize traffic and handle scalability? How do you plan to implement it? Do you have plans to use FIWARE IoT Gateway GEs for this purpose? How?

Application/Data Delivery

- Does your application plan to provide some sort of widget-based management dashboard to monitor application data?   Does it plan to be customizable by the user? Do you plan to implement these dashboards using the FIWARE Application Mashup GE (reference implementation: Wirecloud) for this purpose? How?

- Does your application plan to implement some module that will enable users to generate reports, visualize data statistics and KPIs and perform customizable data/KPI analysis? Do you have plans to use the FIWARE Data Visualization and Analysis GE (reference implementation: SpagoBI) for this purpose? How?

Advanced Web-based User Interface

- Does your application require an User Interface that supports 3D Web features? Do you plan to use any of the FIWARE GEs in the Advanced Web-based User Interface chapter for that purpose? How?

- Does your application require to model and display 3D virtual worlds or represent GIS information through a Web 3D User Interface? Do you plan to use any of the FIWARE GEs in the Advanced Web-based User Interface chapter for that purpose? How?

- Does your application require to support some Augmented Reality features? Do you plan to use any of the FIWARE GEs in the Advanced Web-based User Interface chapter for that purpose? How?

- Does your application require to use virtual characters/avatars? Do you plan to use any of the FIWARE GEs in the Advanced Web-based User Interface chapter for that purpose? How?

Advanced middleware

- Does your application require very-fast real-time data exchange that goes beyond what regular REST/http-based middleware may support? In what scenarios? What sort of middleware do you plan to use in case you need an alternative to http? Do you plan to use the Advanced middleware GE (reference implementation: KIARA) to implement your requirements? How?

Robotics

- Does your application require to interact with some autonomous device like a robot? How? What is the robot operating system or robotics framework used by the robots your application has to interact with (ROS, Player, YARP, Orocos, Microsoft Robotics Studi, …) ?

Security

- What type of authorization framework will your application implement? Do you plan to adopt OAuth 2.0 for implementing authorization? Do you plan to use the FIWARE Identity Management GE (reference implementation: KeyRock) for this purpose?

- What kind of framework will your application implement for controlling access to exported data and/or APIs (Application Programming Interfaces)? Do you plan to use the access control framework supported in FIWARE for this purpose?

- Does your application require to face any specific security thread? Do you plan to use the FIWARE Security Monitoring GE for this purpose? How?

Cloud infrastructure

- Will your application involve significant amounts of data? Of what kind? Does your application require Object Storage? What kind of object files do you need to store? How large? Do you have plans to use the FIWARE Object Storage GE for this purpose? How?

- What runtime middleware and/or frameworks do you plan to use in your application? E.g., wep/application servers? SQL/NoSQL Databases? Messaging? Other?

- Do you envision your application to be elastic (in terms of amount of VMs and/or other resources consumed over time)? Which technologies (provided by FIWARE platform or otherwise) do you plan to use?

- Do you plan to deploy your application on the FIWARE Lab Cloud in order to perform testing?

ANNEX 2. COST ELIGIBILITY LIMITS AND CONDITIONS

APPLICABLE ONLY FOR ROUND B - "SERVICE/APPLICATIONS DEVELOMENT"

Direct Costs

The project may consider the following direct costs:

a) Staff costs, calculated considering an hourly rate according to the following formula:
Cost/ Hour = [(Base Salary x 14 months)/ (11 months x 22 days x n hours)]
where:
Base Salary: monthly salary (excluding paid holidays and within European country specific standards) and social security mandatory charges, where applicable;
n: number of working hours

b) Subcontracting costs;

c) Equipment;

d) Access to data sources or other type of information;

e) Travelling, Subsistence and Accommodation costs

All travelling, subsistence and accommodation costs must be supported by a Travel Report containing information about the objectives of the occasion (event, meeting, etc.), contacts made and respective results (maximum of 2 pages).

The limits applicable to the direct costs are the ones defined by the European Commission in the "Guide to Financial Issues relating to FP7 Indirect Actions".

Indirect Costs

Indirect costs are all those eligible costs, which cannot be identified by the participant as being directly attributed to the project. They may not include any eligible direct costs.

A specific flat rate of 10% of the staff costs is to be used to calculate the indirect costs.