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Full Proposal Template for a Space4Rail

Downstream Applications in ARTES 4.0 Feasibility Study

# INTRODUCTION

This *Full Proposal Template* is a tool to help companies to prepare a comprehensive Full Proposal responding to the Space4Rail Downstream Applications in ARTES 4.0 Call for Proposals (CfP) (AO-11026) for a Feasibility Study.

This template structures the requirement of content expected in a Full Proposal to be evaluated by the ESA Tender Evaluation Board.

Before starting to write the Full Proposal, please make sure you have downloaded the latest version of the Invitation to Tender documents. Log in to [esa-star Publication](https://esastar-publication.sso.esa.int), and see the tender documentation of the ‘Open Call for Proposals for Space4Rail Downstream Applications in ARTES 4.0’ (AO 11026) for Feasibility Studies:

1. Letter of Invitation
2. Special Conditions of Tender for the Space4Rail Downstream Applications in ARTES 4.0 Call for Proposals
3. Contract Conditions/Draft Contract
4. Management Requirements for Feasibility Studies
5. Full Proposal Template for Feasibility Studies

Please also consider

* any published clarifications, which provide specific information beyond the tender documents,
* the *General Conditions of Tender for ESA Contracts*, *General Clauses and Conditions for ESA Contracts* and
* the *PSS forms* available under ‘Supporting Documentation’ 🡪 ‘Reference Documentation’ 🡪 ‘Administrative Documents’.

Please note that the Full Proposal will be based on information, possibly expanded whenever required, that have been already provided in the Outline Proposal that has been accepted by ESA.

Concerning the various text styles used in this template, please note the following:

* Material presented in this plain style is either suggested content for the Full Proposal, or describes the content to be inserted in the corresponding paragraph, as relevant. This is intended to be an example of a response to the related Agency requirements, which the Tenderer needs to properly complement by activity-specific information. The suggested material may be adopted as is, or modified at the Tenderer’s discretion. It remains the responsibility of the Tenderer to ensure that all of the Agency’s requirements of the Call for Proposals are properly addressed.
* This style is used to identify information that must be modified and/or completed by the Tenderer for the proposed activity. This supplementary information should be presented in plain typeface (i.e. not red) in the final version of the Full Proposal.
* This style is used for explanatory notes and guidance to help you to develop the Full Proposal content (e.g. to indicate a selection between mutually-exclusive options). This information shall be removed from the final version of the Full Proposal.
* Parts with the paragraph title highlighted in green in this template shall correspond to the relevant sections provided in the Outline Proposal

Use of this Full Proposal Template is mandatory. The Tenderer shall not change the structure of this Full Proposal Template (i.e. the table of contents must remain unchanged).

Please note that the Full Proposal is the only document that will be considered by the ESA Tender Evaluation Board. Therefore, the Full Proposal shall be considered as a fully self-contained document, and the contributions coming from the Outline Proposal shall be explicitly appearing in the Full Proposal.

**The length of the completed Full Proposal without Annexes shall not exceed 50 pages.**

Some National Delegations require to see the full proposal to provide their ‘Letter of Authorisation of Funding’ (AoF). Please check with your National Delegation about their required process.   
For Italian companies, it is NOT required to contact the National Delegation (ASI), because ESA has been delegated by ASI to interface with the Tenderer in the whole stage of the bidding process.

Please use this page as the cover page of the Full Proposal and remove the previous three pages (Template Title page and Introduction)

Study Name

Full Proposal for a Space4Rail Downstream Applications in ARTES 4.0 Feasibility Study

Programme Line: BASS

Date: ……

Reference: ……

ESA Template Ref. 1. 0 issued 26/01/2022

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# COVER LETTER

The Cover Letter is provided as separate document.

# Study SUMMARY AND RATIONALE

## Background information

Study Name: ……

Tenderer and contact points: ……

Tenderer information: ……

Subcontractors: ……

## Service Description and Rationale

Description of the service / product: …

In the case that the activity is proposed for the Strategic Programme Lines (5G or 4S), explain how your service makes use of 5G networks/secure space systems

5G SPL: Indicate the value of using space assets and data together with 5G technologies, indicate the level of 5G and other technology(ies) maturity, indicate the 5G actors (e.g. telecommunication operators) involved in the value chain and their level of engagement in the project

4S SPL: indicate if the service is specifically addressed to institutions or relates to public safety objectives, if there is a need to deploy/utilize secure satellite communications and which are the actors involved in the value chain related to 4S (e.g. institutional users, secure satcom providers, ..)

Thematic Domain and related rationale:

ONLY For thematic domain 1 (delete in case of thematic domain 2 or 3):

Assessment of the ERTMS (European Rail Traffic Management System) business opportunity:

Complementarity to other activities launched at European level (e.g. within Shift2Rail or Horizon 2020):

Innovation / unique selling point with respect to what is available in the market: …

The proposed service / product fits within the current business activities and mid-/long-term strategy of the consortium partners as follows:

Tenderer: …

Subcontractor 1: …

Subcontractor x: …

## Space Asset(s) / Space Technology and Rationale

1. Space asset(s) / space technology envisaged for integration: …
2. Rationale for integration of the space asset(s) / space technology: …

# Customers/users and service viability

## Business Model Overview

A first draft of the targeted Business Model is presented below including explanations.

## Customer Segments

The key customers / customer segments targeted by our service / product: are: ……

The potential customer / user organisations involved in the study are: ……

Letter(s) of interest from the customer(s)/user(s) to be involved in the Feasibility Study are attached in **Appendix 1** to this proposal:

The letter(s) indicate in the own words of these customer(s)/user(s) why they are interested, how they intend to contribute to the study and to which tasks, and what their interested beyond the feasibility study is in case that the study shows satisfactory results.

## Pains and Gains

The following table provides a summary overview of the involved customers/users and associated high level characterisation of their needs (in terms of their jobs-to-be-done, pains (e.g. problems) and gains (e.g. benefits)) in relation to the target service(s)/product(s).

| **Key Customer / Customer Segment** | **Customer’s relevant Tasks/Jobs** | **Customer’s Pains (e.g. problems)** | **Customer’s Gains (e.g. benefits)** | **Rationale for Involvement** |
| --- | --- | --- | --- | --- |
| e.g. Infrastructure Manager | Manages national rail infrastructure | Cost of hazard monitoring is high (XX EUR per km) | Reduce cost by YY% | Key player in the market of ZZZ |
| ……… | ……… | ……… | ……… | ……… |
| ……… | ……… | ……… | ……… | ……… |
| ……… | ……… | ……… | ……… | ……… |

## Value Proposition

The table below identifies the specific characteristics of our service / product that will address the previously-identified customer problems/needs and defines its value proposition, i.e. value that the product or service offers to its customers.

| **Customer Segment** | **Envisaged Prodcut/Service Offer incl. Key Characteristics** | **Value Proposition** |
| --- | --- | --- |
| Infrastructure Managers | Trackside hazard monitoring | More reliable identification of trackside hazards (AA % accuracy) |
| ……… | ……… | ……… |
| ……… | ……… | ……… |
| ……… | ……… | ……… |

## Market Analysis

The market, its size and the geographical reach are: …

The initially targeted country(ies) is(are): …

The targeted position of our service / product in the market is summarised in the matrix below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MARKETS | New (MN) | ………. | ………. | ………. |
| Adjacent (MA) | ………. | ………. | ………. |
| Existing (ME) | ………. | ………. | ………. |
|  | | Existing (PE) | Incremental (PI) | New (PN) |
| SERVICE / PRODUCT | | |

## Competitive Landscape

Our key competitors and the nature of the competition are identified in the table below.

|  |  |  |
| --- | --- | --- |
| **Competitor** | **Nature of Competition / Characteristics** | **References** |
| ……… | ……… | ……… |
| ……… | ……… | ……… |
| ……… | ……… | ……… |

## Viability Success Factors

The most important issues influencing the viability of the service(s) / the critical success factors towards implementing of a sustainable service are:

|  |  |
| --- | --- |
| **Issue / success factor** | **Description** |
| ……… | ……… |
| ……… | ……… |
| ……… | ……… |

## Roadmap

The major milestones (timeline, technical, commercial, others) towards the successful implementation of an operational service (roll-out in the market) are the following:

|  |  |
| --- | --- |
| **Timeline** | **Subject of Roadmap Milestone** |
| ……… | ……… |
| ……… | ……… |
| mm/yyyy | Entry into Market |

## Project Team

The following diagram describes the team composition and their role in the study in view of future service provision.



EXAMPLE

*[Provide a diagram which illustrates the interactions among customers, users, project team (including the service provider) and other key stakeholders (e.g. regulators) relevant to evolve the application/service within this study and beyond.]*

The following table provides an overview of the positioning of the different consortium partners and key external actors together with their position in respect to the development and commercial exploitation of the proposed project.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Partner** | **Background and Experience** | **Role in the feasibility study** | **Role in a  potential Demonstration Project** | **Role in commercial exploitation** |
| …… | …… | …… | …… | …… |
| …… | …… | …… | …… | …… |
| …… | …… | …… | …… | …… |

The future service provider will be …

## Environmental, Social and Governance Sustainability Aspects

The proposed project and the resulting services will contribute to address the aspects in terms of Environmental, Social and Governance (ESG) Sustainability as indicated in the Table below.

|  |  |
| --- | --- |
| **Metric** | **Justification wrt project / proposed service** |
| **Environmental** | |
| Waste and pollution | … |
| Greenhouse gas emissions | … |
| … | … |
| **Social** | |
| Health and safety | ... |
| Gender diversity | … |
| … | … |
| **Governance** | |
| Ethics and anti-corruption | … |
| Data privacy | … |
| … | … |

[Note: The above entries are just examples. Please populate as relevant.]

# Technical proposal

## System / Service Architecture

A high level block diagram of the system / service showing the key attributes and key building blocks and the main interfaces is provided in the Figure below.



EXAMPLE

The individual building blocks and their main features as well as the interfaces between the building blocks are the following:

Building block “aaa”: …

Building block “bbb”: …

*[Provide information on the main features of each building block presented in the System/Service Architecture diagram and how they interface with each other.]*

## Implementation Approach

a) The starting point for our project is: …

b) The expected goals / outputs at the end of the feasibility study and the way they will contribute to an informed decision for the next steps / further investments (e.g. in form of an ARTES 4.0 Demonstration Project) are: …

c) Study Logic:



## Study Tasks

The following subsections present the content of the Work Package Descriptions in explanatory form.

For each study task the following is presented:

1. the starting point for the work to be done,
2. the planned outcome(s) / target(s) of the individual tasks,
3. the critical elements of each task that will be subject for investigation (these are aspects that are also tracked in the risk register),
4. the work methodology and approach to reach the planned outcomes / results,
5. the planned interactions between the Tenderer and its Subcontractors and the user community in each task (where applicable)

*[2 pages description per task are considered to be sufficient.*

*The information included here should be based on your current knowledge. If there are aspects which you do not know about, please, state so.*

*Please, make sure that especially the sections d) “Work Methodology and, Approach” for each task are clearly aligned with the task descriptions in the Work Package Descriptions!]*

**D.3.1 Task 1: Customer Engagement and Value Proposition Definition**

1. Starting point:

*[provide concrete information on existing elements for this task such as  
- which contacts have been already established with stakeholders and customers/users relevant for the study, and to which level  
- what do you already know about the operational scenarios, needs and demands of the customers/users which are involved in the study  
- what do you already know about the limitations / constraints of the involved customers/users  
- what do you already know about the value propositions / KPIs of the involved customers/users]*

1. Planned outcome(s) / target(s):

*[provide information on the basic questions that you want to have answered at the end of the feasibility study, e.g. regarding  
- clear understanding of the level of interest of the involved users/customers   
- clear understanding of the operational scenarios and user needs  
- clear definition of the value proposition and KPIs of the involved customers/users  
- clear understanding of the potential willingness to pay for the targeted service  
- involvement of additional important/representative users/customers (which?) beyond the ones already involved]*

1. Critical elements subject for investigation:

*[provide concrete information on those aspects that you consider critical, e.g.  
- access to the customers/users and their availability during the study  
- their procurement processes and available budgets*  
*- the interface requirements to existing operational systems / processes  
- any critical / challenging aspect which is considered important for service implementation]*

1. Work methodology and approach & planned interactions with user community:

*[align this section with the task description of the related Work Package Description and provide concrete information on relevant points such as  
- how you will engage with the customers/users during this task (e.g. workshops, individual interviews, questionnaires, regular meetings / oral communication  
- how you will validate the findings with the customers/users]*

**D.3.2 Task 2: Technical Feasibility Assessment**

1. Starting point:

*[provide concrete information on on existing elements for this task such as:  
- which services do you already provide which could be used as starting point  
- which elements of the service provision chain do you already have in place  
- which of the consortium partners plans to become the service provider for the resulting services   
- which system / system elements / building blocks do already exist and what is their maturity level (e.g. breadboard, prototype, mature building block, COTS procurement)]  
- have you already done some tests / proof of concepts*

1. Planned outcome(s) / target(s):

*[provide information on the basic questions that you want to have answered at the end of the feasibility study, e.g. regarding  
- definition of the service provision chain  
- definition of the service provider  
- definition of the roles / functions of the consortium partners for the operational service  
- definition of the system architecture   
- identification and selection of the technologies to be integrated  
- understanding of the maturity of these technologies and required enhancements / developments]*

1. Critical elements subject for investigation:

*[provide concrete information on those aspects that you consider critical, e.g.  
- critical elements of the service provision chain which are not yet existing  
- identification and involvement of potential service provider  
- critical elements of the system / building blocks which are not yet existing and where the feasibility needs still to be proven,  
- identification of single point failure (e.g. availability of space infrastructure, planned ground services]*

1. Work methodology and approach:

*[align this section with the task description of the related Work Package Description and provide concrete information on relevant points, e.g.  
- how will you identify the elements of the end-to-end service provision chain (data collection, data processing, information creation, information distribution, customer front end)   
- if not clear from the beginning, how and when will the future service provider be determined  
- what do you intend to do to define the system architecture, define the major building blocks, identify the maturity level of technologies, trade off of new technologies, justify the technologies to be integrated, etc.]*

1. Planned interactions between the Tenderer and its Subcontractors and the user community:

*[provide concrete information on relevant points, e.g.  
- will customers/uses be consulted for this task? If yes, which users, by whom, how and for what  
- e.g. communication with involved users / customers to understand where the new services / system(s) have to interface with existing operational procedures / services / systems]*

**D.3.3 Task 3: Viability Assessment**

1. Starting point:

*[provide concrete information on on on existing elements for this task such as:  
- information from existing market investigations  
- what are the existing business model(s) if any  
- what are existing revenue streams from the involved customers/users (if any)  
- what are the existing pricing schemes (if any)  
- what information is known regarding non-economic aspects (e.g. regulatory, political)]*

1. Planned outcome(s) / target(s):

*[provide information on the basic questions that you want to have answered at the end of the feasibility study, e.g.  
Business plan, specifically:  
- cost (CAPEX, OPEX) analysis  
- pricing models  
- annual projection of profitability over a 3-5 years planning horizon  
- confirmation that a profitable business exists  
- information on most critical non-economic aspects and how to deal with them]*

1. Critical elements subject for investigation:

*[provide concrete information on relevant points, e.g.  
- what do you consider as most critical for your business, e.g.   
 . price sensitiveness of the users  
 . identification of key market segments of the envisaged service/application and relevant strategy for targeting those segments   
 . competitive offering and positioning  
 . identify all of the relevant background IPR provided by the consortium partners along with any foreground IPR developed within the framework of the feasibility study, and present a well-defined strategy for its protection and use, including the purchase and/or licensing of other third-party technology and patents crucial to the development and operation of the system/service  
 . certification aspects  
- establishment of the service provision chain]*

1. Work methodology and approach:

*[align this section with the task description of the related Work Package Description and provide concrete information on relevant points, e.g.  
- what methodology will be used to produce the market analysis (e.g. desk top research, communication with users)  
- what methodology will be used to quantify CAPEX and OPEX (e.g. bottom up aggregation of key cost element based on level of business activity and technical elements obtained from the proof of concept)   
- how will the business model / business plan defined (also in coordination with the other consortium partners)]*

1. Planned interactions between the Tenderer and its Subcontractors and the user community:

*[provide concrete information on relevant points, e.g.  
- typically it is rather unusual that business plans will be coordinated / published to future customers  
- but some aspects might require the interaction, e.g. with respect to non-economic aspects]*

**D.3.4 Task 4: Proof of Concept**

*A Proof of Concept might be considered relevant to proof the feasibility of critical elements of the service / system which can be of technical or non-technical nature and which represent significant risks for further implementation, or to secure the further buy-in of potential users / customers.*

*The Proof of Concept can include analysis, simulations, mock-up, or what otherwise is deemed appropriate. However, it shall be based on a low effort approach, i.e. not require significant developments or procurements. (NB: the execution of an end-to-end validation demonstration in a pre-operational environment is subject for a Space4Rail Downstream Applications in ARTES 4.0 Demonstration Project).*

*A preliminary definition of the PoC content (what, where, how long, involved customer(s)/user(s), etc.) needs to be provided within the proposal. This preliminary concept will be later subject to revision based on the results of study tasks 1, 2, and 3.]*

1. Starting point:

*[provide concrete information on existing elements for this task such as:  
- which technical / commercial aspects or elements have been proven / confirmed already in other activities  
- which hardware / software / system elements exist already and will be subject for inclusion in the proof of concept  
- if there is a need to rely on facilities of users, which facilities are available]*

1. Planned outcome(s) / target(s):

*[provide information on the basic questions that you want to have answered at the end of the Proof of Concept, e.g.  
- what is the objective of the PoC (proof of feasibility / viability of what, engagement with which users, secure the buy in of users/customers for follow-on activities, etc.)  
- which critical aspects are planned to be proven in the PoC (e.g. technical aspects, commercial aspects, operational aspects, user handling / friendliness, etc.)*

1. Critical elements subject for investigation:

*[provide concrete information on those aspects that you consider critical, e.g.  
- what are the most important aspects for the PoC (technical, commercial, customer relationship, etc.]*

1. Work methodology and approach:

*[align this section with the task description of the related Work Package Description and provide concrete information on relevant points ,e.g.  
- where is the PoC planned  
- for how long  
- what is planned to be done during the PoC  
- who will be in charge of preparing / developing the PoC  
- which customers/users will be involved]*

1. Planned interactions between the Tenderer and its Subcontractors and the user community:

*[provide concrete information on relevant points, e.g.  
- when will the users/customers be involved  
- how will they participate to the PoC  
- how will they provide feedback]*

**D.3.5 Task 5: Preparation for Service Implementation**

1. Starting point:

*[provide concrete information on relevant points, e.g.  
- do the targeted services fit into other services provided already by the consortium and for which a roadmap for market roll out is defined  
- what is the vision of the consortium partners how to position the service / solution on the market (in which timeframe)  
- is there a specific date where the service / solution need to be on the market (e.g. due to regulations, specific large projects offering a good market entrance, seasonal effects)]*

1. Planned outcome(s) / target(s):

*[provide information on the basic questions that you need to have solved in preparation of the next step (e.g. Space4Rail Downstream Applications in ARTES 4.0 Demonstration Project) provide concrete information on relevant points, e.g.   
- securing involvement of customers willing to pay  
- partnership agreements (IPR, know-how transfer)   
- implementation timeline for market roll-out  
- outline proposal for an Space4Rail Downstream Applications in ARTES 4.0 Demonstration Project]*

1. Critical elements subject for investigation:

*[provide concrete information on relevant points, e.g.  
- partnership agreements  
- securing the first customer  
- timeline to market roll out  
- securing co-funding for follow-on demo project]*

1. Work methodology and approach:

*[align this section with the task description of the related Work Package Description and provide concrete information on relevant points, e.g.  
- what will be done in this task to achieve the outcome and how   
- communication with partners, users, stakeholders  
- who decides on the next steps  
- awareness event to user / customer community]*

1. Planned interactions between the Tenderer and its Subcontractors and the user community:

*[provide concrete information on relevant points, e.g.  
- information on outcome of feasibility study and next steps  
- securing of co-funding / involvement of users/customers for next steps  
- workshop, bilateral meetings, etc.]*

## Technical and Non-Technical Risks

The major technical, operational and business related risks associated with the proposed activity and the associated mitigation plans are: ………..

These risks are summarised in the following table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Risk Identifier** | **Description** | **Likelihood** | **Severity** | **Mitigation Actions** |
| ……… | ……… | low/medium/high | low/medium/high | ……… |
| ……… | ……… | low/medium/high | low/medium/high | ……… |
| ……… | ……… | low/medium/high | low/medium/high | ……… |

The risk register will be kept up to date during the execution of the feasibility study.

# 

# Management and Administrative Proposal

## Description and Background Experience of the Company(ies)

Company information: …

*[Present the company(ies) and their organisational structure including key company details such as ownership, turnover, number of employees, business lines, etc.]*

Company background and experience …

*[Describe the background of the companies and the relevant experience of your entity and any proposed Subcontractor(s) for the performance of the work, including the experience with respect to:*

* *the technologies subject for integration (space and non-space technologies),*
* *the application domain know-how,*
* *service provisioning expertise,*
* *business development know-how.*

*Please, avoid multi-pages information on everything that the company has done in the past.]*

Relevant results achieved in other ESA contracts: …

*[In case that any company of the bidding team has been involved in ESA contracts (including ESA programs other than ARTES) relevant for the targeted application, provide a summary description of the direct and indirect results achieved through such activities and the lessons learned.*

*If no such activities have been carried out before, please, state this explicitly.]*

## Study Organisation and Study Management

Project team and project organisation: …

*[Present the project team and the structure of the project organisation (organogram), and where it is proposed to subcontract part of the work, the structure of the industrial group.*

*Describe the lines of communication and reporting, including the lines to the involved users/stakeholders and ESA]*

Rationale for proposed industrial organisation: …

*[Present the rationale for the proposed industrial organisation, especially with view to the targeted future service provisioning.   
In this respect, the involvement of a university or research organisation as study prime is considered to introduce additional challenges with respect to the further implementation of sustainable services (i.e. transfer of IPR and know-how to another entity after the study, co-funded demonstration project, operational service provision, etc.) and requires special justification.*

*Already in the feasibility study, the involvement of a potential service provider for the targeted services (bridging the last mile to the future customer) is considered relevant and strongly recommended. Involving such a service provider as study prime is considered a plus.]*

Project management: …

*[Present the management plans, policies and procedures including a description of the management control procedures that will be used to exercise control over the study and subcontractors (if any). Relevant is especially how often and how the consortium partners communicate and coordinate with each other.]*

## Facilities

Access to space assets and space based services as well as to information resources: …

*[Present the means of access to space assets (e.g. EO products / imagery, Satcom services, Satnav services) and information resources (such as libraries, databases, etc.), if these are required for the work proposed]*

Facilities required for ‘Proof of Concept’ *(if applicable)*: …

*[Describe especially all facilities which are proposed to be used for the ‘Proof of Concept’, including those facilities which are still to be developed/built and/or purchased, with a statement on whether the costs of developing/building/ purchasing the facility are to be directly or indirectly charged to the Contract. Modifications to existing facilities are also to be described. For this purpose facilities may include, as applicable, hardware, software, manufacturing equipment, test equipment, production and integration lines, service centres, as well as infrastructures hosted by the involved customers/users.]*

## Key Personnel

*[NB: Key personnel are defined as persons who, because of their individual qualifications and positions are proposed for the work and indicated as such in the tenderer's Organisation Breakdown Structure.*

*As a minimum, each person assigned as Work Package Manager shall be nominated as Key Personnel, as well as a person with relevant business development expertise.*

*Key personnel should be proposed to one level below the study manager, both for the tenderer and any sub-contractors.   
The provisions of Clause 9 of the GCC as amended in the Draft Contract shall apply to all key personnel]*

The following key persons have been nominated for the feasibility study:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Organisation | Name of  key person | Function in organisation | Role in feasibility study | Involved in WPD No. - WP manager - Contributor | Timely involvement in WPDs: WPD + [mh] | Time allocation total [%] |
| ……… | ……… | ……… | Study Manager | ……… | ……… | ……… |
| ……… | ……… | ……… | Business Developer | ……… | ……… | ……… |
| ……… | ……… | ……… | ……… | ……… | ……… | ……… |
| ……… | ……… | ……… | ……… | ……… | ……… | ……… |

*[Provide the average percentage of the total working time which the key personnel will dedicate to the present activity, as well as the number of man-hours broken down per Work Package.*

*NB: The ‘viability analysis’ is typically considered an essential task. Therefore, adequate allocation of appropriate key personnel with relevant expertise will be thoroughly checked.]*

The curricula vitae (CVs) for all key persons are presented in **Appendix 2** to this proposal.

*[Provide for each key person a comprehensive curriculum vitae, presenting in particular the work experience relevant for this study, a brief description of the person's present job and responsibilities, the position in the tenderer's organisation, and information on the person’s assignment and tasks in this study]*

## Travel and Subsistence Plan

Travel and subsistence plan are summarised in the following table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Event** | **Company** | **Number of persons** | **Travel cost per person [€]** | **Subsistence cost per person [€]** | **Total cost  per event [€]** |
| ……… | ……… | ……… | ……… | ……… | ……… |
| ……… | ……… | ……… | ……… | ……… | ……… |
| ……… | ……… | ……… | ……… | ……… | ……… |
| **TOTAL** |  |  |  |  | **………** |

*[Present the travel and subsistence plan for each participating entity.*

*Take into account that the Negotiation Meeting should be attended by the Tenderer and as far as possible by all Subcontractors. Negotiation Meeting and Final Review will normally be held at the Agency’s premises (ESTEC or ECSAT).*

*The Progress Meeting (PM) is typically held at the contractor’s or customers’/users’ premises. The Business Case Review (BCR) is typically held at the Agency’s premises.*

*NB: for Feasibility Studies exceeding 250 k€ ESA funding (ESA Price), the travel and subsistence plan has to be presented also as part of Exhibit B of the PSS A2 form for the tenderer and each subcontractor, if any.]*

# IMPLEMENTATION Proposal

## List of Items to be Delivered, to be Produced

**F.1.1 Documentation**

The documents that will be delivered during the study are summarised in the table below.

| **Name** | **Deliverable** | **Initial Submission** | **Updating** | **Final Submission** |
| --- | --- | --- | --- | --- |
| D1 | Business Case | PM |  | BCR |
| D2 | Proof of Concept | PM |  | BCR |
| D3 | Preparation for Service Implementation | FR |  | FR |
| PWP | Project Web Page | PM | BCR | FR |
| FREP | Final Report | FR [BCR]1 |  | FR [BCR][[1]](#footnote-2) |
| FDP | Final Data Package | FR |  | FR  [BCR]1 |
| H/W | Hardware (if applicable) | FR |  | FR  [BCR]1 |
| S/W | Software (if applicable) | FR |  | FR  [BCR]1 |
| MOM | Minutes of Meetings | NM | every meeting | FR |
| MPR | Monthly Progress Report | KO + 1 month | every month | FR |
| BCS | Bar Chart Schedule | within the proposal | as necessary and at reviews | FR |
| RR | Risk Register | within the proposal | as necessary and at reviews | FR |
| DM | Digital Media | as necessary | as necessary | as necessary |
| CCD[[2]](#footnote-3) | Contract Closure Documentation | FR |  | FR  [BCR]1 |

NM: Negotiation Meeting

KO: Kick-Off

PM: Progress Meeting

BCR: Business Case Review

FR: Final Review

Each deliverable document will include a title page reporting the study name, the contract number, the title of the document, a reference identifier, the author(s) and related organisation(s), the date of issue and the revision number.

All deliverable documents will include a record of the document history, indicating in short for each document revision the corresponding date and the reason(s) for the revision.

All documentation will be delivered in electronic form, in MS Word or equivalent, with all pictures and tables embedded in the document. The documentation will be able to be printed and will allow the insertion of comments and track changes. Intermediate versions of the documents, before its final official release, shall be delivered in Track Changes.

All deliverable documents will be delivered using the Agency’s web-based project planning and collaboration tool. Documents will be delivered at least ten working days prior to the associated review.

**F.1.2 Hardware**

*[Present a list of all hardware (if any) that will be procured or produced under the contract.*

*NB: Ownership of hardware assets with a value below 10,000 Euro shall remain with the Contractor. Ownership in respect of any hardware assets above 10,000 Euro will be left to the Contractor whenever the parties agree when completing the contract that there is a further useful utilisation by the Contractor for purposes connected with the objectives of the contract]*

**F.1.3 Software**

*[Present a list of the software (if any) that will be procured or produced under the contract.*

*NB: It is not expected that software will be a deliverable. However, mathematical models, data files, etc. might become deliverable items. This will be agreed during the negotiation meeting.]*

## Work Breakdown Structure and Work Package Descriptions

**F.2.1 Work Breakdown Structure (WBS)**

The figure below presents the work breakdown structure, covering the entire scope of the proposed work.

[Replace the following diagram with an equivalent showing the proposed work breakdown structure. Entries in the figure are examples to be amended as relevant.]

**Study Name**

**WP0**

Study Management

Key Person

(Organisation)

**WP1**

Customer Engagement and Value Proposition Definition

Key Person

(Organisation)

**WP2**

Technical Feasibility Assessment

Key Person

(Organisation)

**WP3**

Viability Assessment

Key Person

(Organisation)

**WP4**

Proof of Concept

Key Person

(Organisation)

**WP5**

Preparation   
of Service Implemen-tation

Key Person

(Organisation)

*[Present the Work Breakdown Structure for the study including a separate Work Package on ‘Study Management’ (WPD 0). The WBS will constitute a framework for the management of the subsequent contract.*

*NB: For Feasibility Studies, a WBS on the first level as presented above is considered sufficient and could look like the one presented above.*

*However, if you see a need to track work on sub-task level (e.g. different responsibilities and budgets of subcontractors), then you may present it to that level of detail. This needs then also to be reflected in individual work package descriptions and the cost breakdown.*

*If there is the creation of a new company (e.g. spin-off) planned at some stage (e.g. before/during a potential follow-on demonstration project), it is recommended to include a dedicated work package on the implementation roadmap for this new company as part of the Viability Assessment Work Package.]*

**F.2.2 Work Package Descriptions (WPD)**

A work package description (form PSS-A20) is presented herewith below for each of the work packages at the lowest level of the work breakdown structure

|  |  |
| --- | --- |
| PROJECT: *study name* PHASE: *n.a.* | WP REF: *0* |
| WP Title: *Study Management (example)*  Contractor: *Organisation name*  Start event: *KO* Planned Date: *T0*  End Event: *FR* Planned Date: *T0 + 9m*  WP Manager: *Key personnel name* | Sheet  *1* of *1*  Issue Ref  Issue Date: *dd/mm/yyyy* |
| Inputs: *- Proposal - Management Requirements for Feasibility Studies - …*  Tasks: *- Coordinate activities with subcontractors*  *- Liaise with ESA*  *- Organise review meetings*  *- Execute quality control of deliverables*  *- Produce the project web page*  *- Produce the final report*  *- …*  Outputs/Deliverables:  *- Minutes of Review Meetings*  *- Monthly Progress Report*  *- Project Web Page*  *- Final Report*  *- Planning Bar Chart - …* |  |

*[The purpose is to obtain a systematic description of the tasks to be performed to meet the requirements of the contract which enables a proper evaluation of the work content and its costing as well as of the proposed planning. It is therefore important that the descriptive terminology for tasks and products be consistent with that used in the Call for Proposals (especially the ‘Management Requirements for Feasibility Studies’).*

*The content (tasks) of the work package descriptions has to be consistent with part D.3 of the technical proposal (especially with the sub-elements d)).*

*The work package descriptions have to comply with the following requirements:*

* *There is a single work package manager for each work package, who is a member of the key personnel.*
* *Work packages start and end on milestone events and do not span the entire duration of the activity (except for the project management work package and the closely associated management functions).*
* *Inputs from other work packages are clearly identified.*
* *The work to be performed is described in sufficient detail for the Agency to be able to judge the value for money, including scope of work and man-hours.*
* *Each task is traceable with a corresponding work package output.*
* *Each work package has at least one traceable work package output (hardware, software and/or documentation item, deliverable to the Agency).*
* *All deliverable hardware, software and documentation items are traceable to the identified work packages.]*

## Planning

**F.3.1 Proposed Schedule and Milestones**

Schedule of the study: …

*[Present the schedule of the study taking into account potential dependencies with respect to availability of external parties such as users/customers (e.g. non-availability during operational peak seasons / holiday season, requirements for alignment of ‘Proof of Concept’, availability of user facilities for ‘Proof of Concept’), as well as any needs related to seasonal aspects. Present the underlying planning assumptions (e.g. start of study, holidays, completion of study).*

*NB: The duration of the feasibility shall not exceed 9 months. The duration of the Technical Phase 1 is foreseen to last about 6-7 months, the duration of the Technical Phase 2 is expected to last about 2-3 months.]*

Review meetings and meeting participants: …

*[Present the major milestones as well as the foreseen progress / review meetings including information on the meeting participants]*

**F.3.2 Bar Chart**

*[Present the planning in form of a bar chart. This shall be coherent with all other aspects of the proposal (i.e. WBS, WPDs, Meeting Plan, Milestone Payment Plan). Major interdependencies between bars shall be shown with a connecting line and should include a suitable description of the interface.*

*The following requirements shall be observed:*

* + - *the activities presented by the bars shall be presented on a linear timescale shown either in weeks or months;*
    - *the estimated durations shall be based upon normal working conditions;*
    - *the proper sequence of tasks, together with the appropriate interfaces with other project participants and outside restraints (including inputs and outputs of the Agency) shall be given.*

*In the planning all the milestones shall be identified to which payments are linked (see also paragraph F.8).*

*In establishing the planning, please, take account of the need of the Agency to review and/or approve intermediate deliverables and include sufficient time for the Agency to do this.]*

The project schedule shows the start date, the end date and the duration of each work package and the timing of the contractual reviews and other review meetings. The planning takes into account the need of the Agency to review and / or approve intermediate deliverables and allows at least 10 working days for the Agency to do this.

Gantt Chart: …

# FINANCIAL Proposal

## Cost and Price Summary

The cost and price for the project is as defined in the following table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Entity** | **Country**  **(ISO Code)** | **Role** | **Cost in Euro [€]** | **Price in Euro [€]** |
| Tenderer | … | Prime | €… | €… |
| Subcontractor 1 | … | Subcontractor | €… | €… |
| Subcontractor x | … | Subcontractor | €… | €… |
| … | … | … | … | … |
|  | | **Total:** | **€…** | **€…** (…% of total cost) |

*[NB: The total cost of the study shall not exceed 500 k€. ESA funding level is indicated in Table 1 of CfP Letter of Invitation ]*

## Cost Breakdown

***[Option 1: For studies with an ESA funding up to 250 k€, only the following cost information needs to be provided]***

The breakdown of the activity cost for the tenderer and the involved subcontractors is as defined in the following table.

|  |  |  |  |
| --- | --- | --- | --- |
|  | [Tenderer] | [Subcontractor 1] | [Subcontractor x] |
|  | € | € | € |
| Exchange Rate (if not €) | … | … | … |
| Total number of hours | … | … | … |
| Average Hourly Rate | … | … | … |
| Manpower Cost | … | … | … |
| Travel and subsistence expenses | … | … | … |
| External Service | … | … | … |
| Miscellaneous | … | … | … |
| Total Activity Cost | … | … | … |
| Company contribution | … | … | … |
| ESA Contract Price | … | … | … |

*[When mentioning the Price of the activity, please, refer to the amount to be funded by ESA. The total cost of the activity is the complete activity cost composed of the ESA funding (firm fixed price to ESA) and the company’s contribution.*

*Amounts have to be presented in full Euro.*

*Cost related to marketing activities (PR material, participation in conferences, exhibitions, etc.) are eligible up to 3% of the total cost.]*

The following ‘External Services’ are foreseen to be procured: …

*[If external services are used, information regarding the nature of the purchased services, the company providing these services and its geographical location need to be presented.]*

The following elements are included under Miscellaneous’: …

*[NB: If the country of procurement of hardware, software and/or external services is different from the one of the company that is procuring them, an approval of the National Delegation of the country may be required. It is duty of the prime contractor to inform the National Delegation of the intention to procure the item(s) outside the country of origin and seeking its approval.]*

The work hours distribution over the various Work Packages for the tenderer and all subcontractors is defined in the following table.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | WP0 | WP1 | WP2 | WP3 | WP4 | WP5 | Total |
|  | [hours] | [hours] | [hours] | [hours] | [hours] | [hours] | [hours] |
| [Tenderer] |  |  |  |  |  |  |  |
| [Subcontractor 1] |  |  |  |  |  |  |  |
| [Subcontractor x] |  |  |  |  |  |  |  |
| Total Work Hours |  |  |  |  |  |  |  |

***[Option 2: For studies requesting an ESA funding above 250 k€, PSS forms A2, and A8 need to be provided ⇒ see also Appendix 4]***

The PSS forms A2 and A8 for the Tenderer [and each Subcontractor] are attached in **Appendix 4** to this proposal.

PSS-A2 forms (Company Price Breakdown) including exhibit A (other direct cost elements) and B (travel plan and cost detail) for the Tenderer [and each Subcontractor] are presented in Appendix 4.a to the proposal.

PSS-A8 forms (Work hours, cost and Price Summary at Work Package Level) for the Tenderer [and each Subcontractor] are presented in Appendix 4.b to the proposal.

## Source of Company Contribution

The source of the entity contribution (including from any private third party) to the overall estimated costs is as follows:

Tenderer (prime contractor): ….

Subcontractor 1 (subcontractor): …….

Subcontractor x (subcontractor): …….

It is confirmed that, in all cases, the entity contribution excludes overheads included in rates charged to the Agency for the contract, or any other contract with the Agency, or sub-contract awarded under an Agency contract.

Evidence concerning the availability of the entity contributions is provided in **Appendix 3**.

*[State the source of the company contribution of the tenderer and each subcontractor. The purpose of this information is to provide evidence on the capabilities of the involved company(ies) to fund their share of the cost of the proposed activity elements (procurements, facilities, workforce), to guarantee the cash flow during the study, and, as such, are able to complete the activity.*

*The company contribution can be funded by industry, institutions and users participating in the activity, and may be in cash or in-kind.*

*Examples of possible sources of co-funding are: existing funds in bank account coming from sales/profit, already approved/prospective bank loan, investment from external source e.g. private investment funds, other contributions.*

The tenderer(s) shall provide evidence of the co-funding in the form of a letter(s) of commitment from investor(s), bank guarantee(s), loan(s) or own resources (e.g. cash and other liquidity).

*Note: In case where a company has been founded recently (< 2 years), additional information on the financial situation of this company needs to be provided (profit/loss situation at end of last year, current financial situation, expected evolution of revenues for next year, evidence on financial coverage of co-funding, etc.) in order to proof that this company has the financial capabilities to co-fund the activity, and is able to manage its cash flow for the duration of the activity.]*.

## Statement of Profit

It is confirmed that the price offer does not include profit neither for the Tenderer nor for the subcontractor(s).

## Exchange Rates

The financial proposal is presented in Euro.

*[Option 1]* Exchange rates are not applicable, as all members of the Bidding Team are located in countries participating in the Euro.

*[Option 2]* The following exchange rate has been applied: *… [country: exchange rate]*

*[NB: It is a binding requirement that tenders are presented in EURO. The Agency will NOT enter into negotiations which are aimed at adjusting the prices proposed in order to account for fluctuations in exchange rates for companies in countries not participating in the EURO.*

*Should the countries to which the Tenderer or proposed Subcontractors belong adopt the EURO following submission of the tender, the applicable conversion rates shall be those adopted then by the appropriate European Authorities.*

*For any Tenderer or proposed Subcontractor located in non-EURO countries, the exchange rate shall be stated in the Cost Breakdown and shall be the base exchange rate published on esa-star Publication for the month of the base economic conditions required in the tender*

*(see* [*https://esastar-publication.sso.esa.int*](https://esastar-publication.sso.esa.int) *under ‘Supporting Documentation’ à ‘Reference Documentation’ à ‘Administrative Documents’ and referred to as “National Price and Salary Statistics – Monthly Publications“ section 3 Exchange Rates)]*

## Type of Price

The price type is a ‘Firm Fixed Price’.

## Quotations free of Taxes and Customs Duties

The prices have been quoted free of taxes and customs duties.

*[In cases where the Tenderer considers that he will remain subject to the payment of taxes or customs duties, he shall indicate separately the applicable rates, the corresponding estimated total tax or customs duty amount, and the reason why he believes exemption from tax or customs duties cannot he obtained. Attention is drawn to Clause 29 of the GCC.*

*NB: The tenderer is reminded that if a Prime is entitled to a VAT exemption form from ESA (or similar procedure) it is only the Prime which will have the benefit of the VAT exemption, and not the subcontractors. All subcontractor invoices should be addressed to the Prime and must include VAT or any other taxes or duties required by the relevant national rules for the companies involved. Any VAT costs which are payable under such subcontracts shall not be included in the price charged to ESA.]*

## Milestone Payment Plan

The proposed milestone payment plan is detailed in the table below:

*[Propose a Milestone Payment Plan (MPP), taking into consideration Article 3 of the draft Contract and Clause 28 of the GCC as well as the conditions shown in the draft contract payment plan.*

*All claims for payments shall be linked to the achievement of defined milestones. It should be noted that the commencement of an activity is not deemed to be a suitable milestone.*

*For Space4Rail Downstream Applications in ARTES 4.0 Feasibility Studies the typical payment milestones are BCR (Business Case Review) and FR (Final Review). As the study is divided into two technical phases, and as it shall be possible to close the study at BCR in case of negative outcome, the acceptable payment plan is 80% at BCR, 20% at Final Review. The final payment shall not be less than 20% of the total contract price.]*

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestone Description** | **Schedule Date** | **Amount in Euro** | **Economic Operator** |
| MILESTONE 1 (MS1) – upon completion of BCR and upon Agency’s acceptance of all related deliverables | T0 + … months | …  [80%] | (Tenderer) |
| MILESTONE 2 (MS2) – Final settlement: upon the Agency’s acceptance of all deliverable items due under the Contract and the Contractor’s fulfilment of all other contractual obligations including submission of the Contract Closure Documentation | T0 + … months | …  [20%] | (Tenderer) |
|  | Total | … |  |

[Include the following table if you wish to propose an advance payment plan.

The advance payment shall take into account Article 3 of the Draft Contract and the following provisions:

* An advance payment is not granted automatically, it is required to demonstrate a significant need for cash disbursement at the beginning of the execution of the contract.
* Nevertheless, whenever an SME (as per definition in [http://eur-lex.europa.eu/ legal-content/EN/TXT/PDF/?uri=CELEX:32003H0361& from=EN](http://eur-lex.europa.eu/%20legal-content/EN/TXT/PDF/?uri=CELEX:32003H0361&%20from=EN)) is involved as Prime or Subcontractor, it shall be entitled to a 35% advance payment irrespective of any cash disbursement needs
* The Tenderer shall keep in its files, for possible review by the Agency, the corresponding SME self-certification(s) submitted by any member of its tendering team. The self-certification(s) have to be provided on letterhead of the corresponding entity as per model hereunder:

*“I confirm that the company I am representing satisfies all the criteria for SME qualification as per definition given in the recommendation 2003/361/EC of the European Commission. ”   
[ + date, name and signature of authorised representative]*

* The amount of any proposed advance payment and the corresponding amount(s) to be offset against the relevant milestone payment(s) shall be clearly stated in Euro.]

An advance payment plan is proposed in the table below. This proposal reflects the need for cash disbursement up to the first payment milestone at BCR.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Prime (P)/  Subcontractor  (SI) | Company  Name | Entity Code | Amount in  Euro | Off-Setting against | Condition  (if applicable) |
| P | *(tenderer)* | 1000xxxxxx | … | MS 1 | Upon signature of the Contract by both parties |
| SI | *(subcontractor 1)* | 1000xxxxxx | … | MS 1 | Upon signature of the Contract by both parties |
| SI | *(subcontractor x)* | 1000xxxxxx | … | MS 1 | Upon signature of the Contract by both parties |

*[SI = Subcontractor Indirect payment meaning that the prime will receive from ESA the sum of all payments relating to one milestone and has then to pay the relevant amounts to the subcontractors.]*

# CONTRACTUAL Proposal

## Compliance with the Contract Conditions

*Tenderers are required to make use of the ‘smart contract’ tool. This tool consists of an Excel file where relevant contractual information can be inserted or options selected by the Tenderer. From the completed Excel table, a Word file of the draft contract can then be generated which incorporates the information provided. This updated draft contract is intended to provide the tenderer with a better understanding of the contract which would result from a successful tendering process. In case of successful evaluation, it will also expedite the completion of the contract on ESA side. The tool is also aimed at demonstrating full compliance with contractual provisions. In case, exceptionally, that contractual modifications or amendments are proposed, the full text of such modifications or amendments shall be given in this Section and the reasons for requesting them shall be clearly explained.*

*Any proposed modifications or amendments to the Contract conditions will be taken into account in the evaluation.*

*Please be aware that not all provisions of the contract can be modified using the excel file.*

The smart contract tool and guidance on how to use the tool can be found here:

<https://esastar-publication.sso.esa.int/ESATenderActions/details/24185>

*Please consult the "ReadMe" file first before completing the Tenderer section of the Excel table. Both the completed Excel table and the Word document generated as per the instructions in the "ReadMe" file should be included in the electronic version of your proposal. In case of successful evaluation and negotiation, the Agency will then need to complete the contract in the part of its competence and as relevant before releasing the contract for signature.*

The completed Word and Excel files generated from the Smart Contract Tool are uploaded under the “Other” proposal element in esa-star.

The contract conditions have been read, are understood and accepted. No sales conditions of our own are applicable.

The Personal Data “Controller to Controller” (PDCC) Annex to the Contract has been read, are understood and accepted. It is understood that this Annex forms an integrated part of the Contract and that it will not be subject of separate signatures. Should the tender lead to a Contract award, the PDCC will enter into force upon signature of the Contract by both Parties.

## Insurance Waiver

*[Option 1]* A waiver of subrogation rights from our insurer will be presented during the negotiation phase.

or

*[Option 2]* A waiver of subrogation rights from our insurer will notbe available. The hold harmless agreement specified in Clause 18.1.6 of the General Clauses and Conditions for ESA Contracts shall apply.

*[NB: Option 2 is based on the statement of the Tenderer. Option 1 requires further coordination with the relevant insurance company and might require some effort to obtain.]*

## Statement Relating to Export Import Licences / Authorisations and Related Documentation

There are no export or import restriction issues and thus no need to obtain specific licences or authorisations.

or include and complete the following statements as appropriate

Export or import restrictions and/or a need of adequate licences or authorisations exist, and the status regarding such requirements is at present the following:

* *… (name of tenderer / subcontractor)* has obtained the following authorisation(s) in order to submit this tender: ….

and/or

* *… (name of tenderer / subcontractor)* will need to obtain, prior to the placing of a Contract, the following authorisation(s): ....

and/or

* *… (name of tenderer / subcontractor)* will need to obtain the following authorisation(s) for the implementation of the contract: ....

# Appendices

App. 1: ‘Letter(s) of Interest / Commitment’ of involved customer(s), user(s), and other external partner organisation(s)

App. 2: CVs of the key persons

App. 3: Source of Entity Contributions

*[For Feasibility Studies with an ESA price above 250 k€, PSS forms A2 and A8 need to be provided for the tenderer and each subcontractor]*

App. 4.a: PSS-A2 form including exhibit A and exhibit B for the tenderer [and each subcontractor]

App. 4.b: PSS-A8 form for the tenderer [and each subcontractor]

**Appendix 1 - Letter(s) of Interest / Commitment from involved customer(s), user(s), and other external partner organisation(s)**

*[Please, enclose a ‘Letter of Interest / Commitment’ for each participant (customer, user, other external partner organisation) not appearing explicitly as subcontractor, containing information on their motivation for their participation (in their own words) as well as information on their contributions to the various study tasks.*

*Contributions to the study may include:*

* + *identification of current operational processes and their issues,*
  + *support to definition of user scenarios/processes,*
  + *support to definition of user requirements,*
  + *identification of expected benefits and financial constraints,*
  + *support with validation of the Proof of Concept,*
  + *indication of interest in a potential follow-on Demonstration Project,*
  + *support to promotion of the targeted services.]*

**Appendix 2 - CVs of key persons**

[Please, provide complete Curricula Vitae (CVs) for all key personnel using the following template, or equivalent. Competence in technical aspects, business development, market/domain expert, commercial and sales shall be explicitly presented.

|  |  |
| --- | --- |
| **Name** | |
| Specific Qualifications and Experience Relevant to the Project Role: | … |
| Entity: | … |
| Present Position and Responsibilities in the Entity: | … |
| Education: |  |
| Year(s) | Educational details |
| Year(s) | Educational details |
| Work Experience: |  |
| Year(s) | Entity, Project, Position, Responsibilities, Achievements |
| Year(s) | … |
| Year(s) | … |

**Appendix 3 – Source of Entity Contributions**

Evidence of availability of entity contributions is provided below

E.g. bank statements or guarantees, company financial reports, letters of commitment from investors, loan agreements, etc.

Examples of possible sources of co-funding are: existing funds in bank account coming from sales/profit, already approved/prospective bank loan, investment from external source e.g. private investment funds, other contributions.

EU and/or national funds coming from e.g. R&D programmes are not allowed. Use of future earnings as co-funding sources is not allowed, unless binding contracts that guarantee future earnings can be demonstrated.

The purpose of this information is to provide evidence on the capabilities of the involved company(ies) to finance their share of the cost of the proposed activity elements (procurements, facilities, labour cost) and, as such, can serve the obligations of the activity

**Appendix 4 - Signed PSS forms A2 (4.a), A8 (4.b)**

***[For feasibility studies with an ESA price above 250 k€, the PSS forms A2 and A8 are required.***

*The PSS forms – including explanations how to fill them (!) – are available on* [*https://esastar-publication-ext.sso.esa.int/supportingDocumentation/details/18*](https://esastar-publication-ext.sso.esa.int/supportingDocumentation/details/18)*. They shall be completed and signed by the Tenderer and by each Subcontractor.*

The signed PSS forms are attached for the Tenderer and for each of the proposed Subcontractor(s), showing, per entity, the total cost of the proposed work (i.e. including the entity’s share):

4.a) PSS-A2 (including Exhibits A and B, where applicable);

4.b) PSS A8;

[The PSS Forms (in particular PSS-A2) shall be signed by an authorised representative of the relevant contractors (Tenderer and each Subcontractor, as relevant).

Notes for the compilation of the PSS Forms:

1. PSS-A2 shall include Exhibit A (other direct cost elements) and Exhibit B (travel plan and cost detail)
2. All hardware, software and/or services procured for the project shall be listed in the PSS-A2 under the lines 3.6-External Major Products (for hardware and software) and 3.7-External Services (for services). These costs shall be broken down detailing each single cost element in the Exhibit A of the PSS-A2, indicating the number of units and the total costs. The cost elements detailed in exhibit A shall be self-explanatory
3. All hardware, software whose cumulative value exceed 10.000 Euro shall be provided with details of the procurement source (Name of the company and country)
4. All external services whose cumulative value exceed 10.000 Euro shall be provided with details of the procurement source (Name of the company, country, number of man hours quoted and rate/hour, detailing any major additional cost item quoted in the service)
5. If the country of procurement of hardware, software and/or external services is different from the one of the company that is procuring them, an approval of the National Delegation of the country may be required. It is duty of the prime contractor to inform the National Delegation of the intention to procure the item(s) outside the country of origin and seeking its approval
6. PSS-A8 shall be compiled taking into account the WPs for which a WPD does exist. Typically, if the WBS is structured with a two levels WPs, the PSS-A8 shall refer to the WPs of Level 2, e.g. WP1X00, WP2X00, …]

1. If study closed after Technical Phase 1. [↑](#footnote-ref-2)
2. Only required for feasibility studies with an ESA price above 250 kEUR [↑](#footnote-ref-3)