



Ministero della Difesa

**Direzione Generale delle Telecomunicazioni,
dell'Informatica e delle Tecnologie Avanzate
2° Reparto**

Invitation To Tender

1. Preamble

As Contractual Agency and in the frame of the Technical Arrangement to the European Research Grouping Arrangement N 1 of Europe MOU, entered in force on December 13th 2006 and signed by the Ministers of Defence of Kingdom of Belgium, Republic of France, Federal Republic of Germany, Republic of Greece, Republic of Italy and Kingdom of Spain, the "Direzione Generale TELEDIFE" above-mentioned has to place the assignment of the order as described below, through the stipulation of a dedicated contract in favour and on behalf of the countries participants to the project as listed above. The allocation of the order will be performed in two phases: in the first one a pre-selection of suitable companies of the preceding participating countries, matching the following requirements, will be carried out; in the second one the order will be awarded to consortium of companies that has submitted the best technical and economic offer according to selection criteria that will be part of the Request for Proposal (RFP).

2. Contractual Agency

Ministero della Difesa – Teledife
Viale dell'Università 4, 00185 – Roma

3. Order subject

Supply of a study regarding the User Ground Segment in the frame of MUSIS project for the future abilities of space-based reconnaissance, surveillance and observation.

4. MUSIS description

Overall MUSIS (MUltinational Space-based Imaging System for Surveillance, Reconnaissance and Observation) system will include different space components and the User Ground Segments. The system architecture study is the subject of a separate study under other Contractual responsibility; the User Ground Segment is the subject of present ITT. The MUSIS system will enable the users to accomplish their missions through a unified access to the system resources and moreover it will have to assure a co-ordinate use both on a national and multinational level. The different space components will be formed by satellites (stand-alone or in constellation, comprising military and dual-use components) of Earth Observation, in different spectrum bands (optical, radar, infrared, multispectral). Such satellites will be the future generation of space-based systems for Surveillance, Reconnaissance and Observation replacing already existing or conceived or next systems to be put in orbit, i.e. Hélios, COSMO-SkyMed, SAR-Lupe, Pleiades. The User Ground Segment shall be compatible with the different space segments.

5. Order description

Supply of a study regarding the architecture of the User Ground Segment of the future MUltinational Space-based Imaging System (MUSIS). Such a study is placed in the context of the preliminary work for the implementation of the future ability of MUSIS, in the frame of the Countries signers of the BOC (“Besoin opérationnel commun”). The perimeter of the study includes data coming from different components (optical, radar, and other).

Study purposes

On the basis of the system architecture study results, the purposes of the study subject of the present ITT are the following ones:

- definition of the detailed functions of the user ground segment, its internal interfaces and its external interfaces, in particular with the different MUSIS components; the functions of the User Ground Segment will include Management of Requests, Mission Planning (in the sense of compiling tasking orders), Production, Archiving, Cataloguing, Distribution of products, Administration and Security management;
- identification of the “conception rules” to be applied during the conception phase of the different components and of the MUSIS user ground segment;
- detailed definition of project elements (operational, technical, financial, scheduling characteristics).

Contractor tasks

Contractor will have:

- to define a detailed architecture for a generic user ground segment, compatible with the various space components ;
- to carry out a detailed feasibility analysis;
- to define the project rules for the interface between the space components and the user ground segment; referring to the latter to specify the necessary interconnections between the elements of the user ground segment;
- to take into account lessons learned from present generation of European space-based imaging systems, as Hélios, COSMO-Skymed, SAR-Lupe, Pleiades;
- to take into account lessons learned from federations of already existing or conceived spatial systems;
- to perform the study for the user ground segment, according to the federation level issued as a result of the architecture study;
- to carry out a comparative analysis between different solutions, assessing the technical and operational performances;
- to detail risks, costs and times of execution of the various solutions of design;
- to propose optimal solutions with relative performances, times and costs of realization;
- to propose “conception rules” to be applied during the conception phase of the different components and of the MUSIS user ground segment;
- to receive and analyze inputs from the system architecture study to be taken into account.

6. Conditions to participate

The request to candidate for the selection phase of the present ITT will have to be made by individual companies of the participant countries. Companies part of consortium or part of temporary groupings of enterprise or part of joint ventures, has to candidate as single tenderer.

7. Essential requirements to participate

Together with request to candidate, each applicant is bound to provide:

- documentation that gives further evidence that company is not affected by the exclusion causes mentioned by art n. 45 of the European Directive 2004/18/CEE;
 - documentation that gives further evidence that the company is certified AQAP 2110 ;
 - documentation proving past experience in the last three years (2004-2006) for orders (purchase of study or materials) of the same nature and complexity;
 - documentation proving the personal security clearance and facility security clearance;
- lack of above documentation will cause exclusion of candidates from further phases.

8. Other conditions to participate

Subject to exclusion the Candidate company will be accepted for the assessment if and only the company will satisfy at least one of the following requirements:

- it was assigned previous orders or it has participated as member of a consortium for the study and/or the development and production of spatial reconnaissance, surveillance or observation systems, preferably with military uses;
- it was assigned previous orders or it has participated as member of a consortium in the study and/or the development and production of ground segments making part of spatial reconnaissance, surveillance or observation systems, preferably with military uses.

9. Documentation must be delivered directly to the following Office within 25 days from the date of the distribution/publication:

Ministero della Difesa – Teledife
4° Reparto – 12^a Divisione
Viale dell'Università 4, 00185 – Roma
Tel 0039 06 4986 5244
Fax 0039 06 4986 3653

10. The Candidate company for participation to the selection for the assignment of the study will be evaluated, on the basis of the documentation provided according to previous points 7 and 8.

11. The Candidate company if selected will receive RFP including SOW and selection criteria for the participation to the next phase of the order assignment.

12. Contractual Assignment procedure

Competition procedure.

13. Setting up of consortium, temporary groupings of enterprises, joint ventures

The selected and suitable companies shall constitute, at the time of the reception of the RFP, consortium, temporary groupings of enterprises, joint ventures guaranteeing the geographic return with the right work sharing.

14. Duration of the study is 6 months from notification of the contract. Estimated date for the notification: October/November 2007.

15. Law and language

The Italian law will be applied. The contract to be signed will be issued in Italian language, all technical documentation will be issued in English language.

16. Further information can be requested only by fax to the Office above-mentioned in bullet n. 9.

17. The present ITT do not bind IT-MOD TELEDIFE.