

# PROJECT PERIODIC REPORT

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Period covered: from 01/09/2010 to 30/08/2011

Name, title and organisation of the scientific representative of the project's coordinator:  
Nicolas Chuberre, Project manager, Thales Alenia Space - France

Tel: +33 5 34 35 64 97

Fax: + 33 5 34 35 61 69

E-mail: nicolas.chuberre@thalesaleniaspace.com

Project website address: [www.f-isi.org](http://www.f-isi.org)

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Deliverable title: Periodic report – 1<sup>st</sup> year



## Declaration by the scientific representative of the project coordinator

I, as scientific representative of the coordinator of this project and in line with the obligations as stated in Article II.2.3 of the Grant Agreement declare that:

- The attached periodic report represents an accurate description of the work carried out in this project for this reporting period;
- The project (tick as appropriate) <sup>1</sup>:
  - ☐ has fully achieved its objectives and technical goals for the period;
  - ☐ has achieved most of its objectives and technical goals for the period with relatively minor deviations.
  - ☐ has failed to achieve critical objectives and/or is not at all on schedule.
- The public website, if applicable
  - ☐ is up to date
  - ☐ is not up to date
- To my best knowledge, the financial statements which are being submitted as part of this report are in line with the actual work carried out and are consistent with the report on the resources used for the project (section 3.4) and if applicable with the certificate on financial statement.
- All beneficiaries, in particular non-profit public bodies, secondary and higher education establishments, research organisations and SMEs, have declared to have verified their legal status. Any changes have been reported under section 3.2.3 (Project Management) in accordance with Article II.3.f of the Grant Agreement.

Name of scientific representative of the Coordinator: .Nicolas Chuberre.....

Date: .12.... / ...December... / ...2011... (*Version 1.1 following reviewers recommendations*)

For most of the projects, the signature of this declaration could be done directly via the IT reporting tool through an adapted IT mechanism.

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<sup>1</sup> If either of these boxes below is ticked, the report should reflect these and any remedial actions taken.

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# 1 Publishable summary

## Summary of project context and objectives,

The FISI project takes place at a time when Europe is defining its first space industry policy (part of EU responsibility as stated in article 189 of Lisbon treaty) and the related implementation plan. It takes place also while the European commission is preparing the scope of the research framework (Horizon 2020) successor of FP7 and is implementing its Digital Agenda and security policies.

The FISI project aims at supporting the Integral SatCom Initiative (Technology Platform) in defining a strategic vision on research and development priorities to reinforce the competitiveness of the European SatCom industry in the evolving ICT context and the emergence of new SatCom architectures in response to EU policy objectives.

Involving leading European satellite manufacturers, Research Institutes/Universities, SME, and a Service provider in the SatCom domain (see table below), FISI serves the interest of all European SatCom industry stakeholders gathered in the ISI technology platform ([www.isi-initiative.org](http://www.isi-initiative.org)) by

- Highlighting and promoting the **added value of emerging SatCom architectures** in the support of EC grand challenges including broadband for all, security and Future Internet;
- Harmonising the research and innovation priorities for the European SatCom industry sector;
- Promoting an ambitious development program to maintain the technological edge, international competitiveness and market share of the European SatCom industry.

Nber	Beneficiary	Short Name	Country
1	Thales Alenia Space – France	TAS-F	France
2	Deutsches Zentrum für Luft und Raumfahrt EV	DLR	Germany
3	Alma mater studiorum – Università di Bologna	UNIBO	Italy
4	Space Hellas S.A.	SPH	Greece
5	Rose Vision SL	ROSE	Spain
6	Telespazio SPA	TPZ	Italy
7	Astrium S.A.S.	AS	France

Tableau 1: FISI consortium

## Work performed and results achieved

### *Research and innovation priorities & framework*

FISI analysed the trends in SatCom markets and contributed to the update of the ISI strategic research agenda. It also supported ISI by raising awareness to the European Commission (DG Info, DG RTD) and other European stakeholders about the challenges of the European SatCom industry and by providing inputs for the definition of the EC future Research and Innovation framework (Common Strategic Framework - Horizon 2020). FISI has put emphasis on the need to foster European SatCom industry's technological progress, increase its competitiveness and maintain its market share.

### *Support to EC policies*

**\* Digital Agenda Policy**

FISI supported ISI by raising awareness to the European Commission (DG Info, DG RTD, DG Enterprise) and other European stakeholders about the capabilities and challenges of the European SatCom industry for the implementation of the Digital Agenda and for the definition of the space industrial policy.

FISI has contributed to have the SatCom solutions recognized among the candidate broadband access technologies for the Digital Agenda broadband deployment objectives especially in low populated density areas.

**\* Innovation union policy**

FISI partners liaised with all European Technology platforms addressing specialised complementing areas in ICT (Net!Works, NEM, NESSI and Photonics 21) to advocate the need for a dedicated and increased funding program at European level where focus shall be given to innovation on ICT service infrastructures and the building blocks to enable the provision of new services and usage.

**\* Security policy**

FISI contributed to the definition of an ambitious initiative targeting the institutional demand in the domain of security, transport and energy with the development and deployment of an efficient, global, secured and resilient end-to-end system, for the improvement of Europe's existing and planned capacity, to prevent and respond to crisis or disaster situations (support to Security and Defense Policy) and for the development of innovative technologies, products and services up to in-orbit validation and large scale pre operational experimentations in order to maintain the European satellite communication industry's technological edge, international competitiveness and market share.

**\*Space mandate (M415 and then 496)**

FISI contributed to reinforce the link between industry and standardization organizations by promoting Standardization activities and process in ISI events and promoting SatCom industry plans in SDO's meetings. It also contributed to re organize ETSI TC-SES so that it can better support the industry to implement the space mandate on standardization (M496).

***ISI technology platform empowerment***

FISI undertook an important survey among its members to better understand their profile and capabilities. It also enlarged the audience of its newsletters and involved high profile authors to contribute to it.

FISI has redefined ISI general assemblies and SatCom days by adopting panel discussions on reviewing the subjects, inviting high profile speakers and carefully selecting the meeting location in order to attract more members.

FISI contributed by its responses to EC consultation or its participation to various workshops to define ISI position and increase visibility of the technology platform.

**Expected final results, their potential impact and use**

The FISI project pursue the objective of supporting ISI in defining its strategic vision and role as technology platform in the upcoming institutional research framework 2014-2020.

This requires to highlight and promote the European SatCom industry capabilities and challenges so that the SatCom industry contribution to EU policies can be clarified and the need for Research and Innovation plans be well accepted.

FISI is therefore expected

- To identify the use cases and requirements for future SatCom solutions in the evolving ICT context and in the support of selected European societal challenges (Digital Agenda Policy, Innovation Union Policy);
- To identify the gaps and consequently the needed research & innovation activities on emerging SatCom architectures and highlight their added values;
- To propose the appropriate research framework, regulatory measures and standardization activities in order to develop future SatCom enabling technologies or full fledge solutions to support selected European societal challenges
- To promote the proposed action plan to institutional stakeholders and relevant bodies

### **Project public website**

<http://www.f-isi.org>

## **2 Core of the report for the period: Project objectives, work progress and achievements, project management**

### **2.1 Project objectives for the period**

FISI has the following objectives (objectives apply to the full project duration, including the current reporting period):

***Objective 1: Highlight the added value of emerging SatCom architectures in support of private communication requirements in the context of Universal Service and Future Internet domains;***

European institutional stakeholders needs to be informed about the capabilities of emerging SatCom architectures and their contribution to the Digital Agenda policy.

***Objective 2: Coordinate the definition of a consistent SatCom R&D and standardization road map for the timely development of emerging SatCom solutions for Universal Service and Future Internet;***

The research roadmap and the related standardisation plan shall be defined for the development of future solutions based on emerging SatCom architectures.

***Objective 3: Foster the transition of the ISICOM concept (global Satcom infrastructure to serve institutional telecommunication needs) towards a flagship initiative as long term framework for the development of enabling technologies for emerging SatCom architectures;***

The requirements for the system concept shall be identified and justified. Then the research & development program and its mapping in the different European institutions needs to be outlined and promoted to the relevant European stakeholders.

***Objective 4: Promote emerging SatCom architectures towards European and international end-users and stakeholders***

The added value of emerging SatCom architectures shall be promoted to relevant stakeholders.

***Objective 5: Maintain ISI as key Platform and support the ISI operations;***

The role of ISI technology platform needs to be clarified in the context of the Common Strategic framework - Horizon 2020.



## 2.2 Work progress and achievements during the period

### 2.2.1 WP1 SatCom positioning for Universal Service and Future Internet

This work package analyses the added value of emerging SatCom architectures in the context of Universal Service and Future Internet for the benefit of European citizens as well as European institutions;

#### 2.2.1.1 Use of resources

<i>WP1</i>	<i>TAS-F</i>	<i>DLR</i>	<i>UNIBO</i>	<i>SPH</i>	<i>ROSE</i>	<i>TPZ</i>	<i>AS</i>	<i>Total</i>
<i>Planned PM</i>	2.85	0.3	1.1	7.0	0	0.6	1	12.95
<i>Actual PM</i>	3.88	0.15	1.125	4.5		0	0.7	10.355
<i>%</i>	136% (*)	50%	102%	64.3%		0	70 %	80%

(\*) see comments in section 2.2.1.5

#### 2.2.1.2 Summary of progress towards objectives

<i>#</i>	<i>Objectives</i>	<i>Progress summary</i>
1	Analyze the added value of emerging SatCom based architectures in the context of Universal Service and Future Internet	Trends in SatCom markets, user requirements, architectures, related technology enablers and expected added values for relevant use cases in the context of the Digital Agenda related objectives have been identified.
2	Consolidate these analysis with relevant SatCom and non SatCom bodies	These analysis has been reviewed by the ISI steering Council members as well as selected members of ESOA (European Satellite Operator Association). Further consolidation and extension will be carried out in the second period.
3	Disseminate the resulting position papers to relevant user groups as well as institutions	Several position papers have been finalized promoting the added value of future emerging SatCom architectures and the enabling technology roadmap to EC public consultations. Several presentations were made in various EC events to promote emerging SatCom capabilities and challenges.

#### 2.2.1.3 Details for each task

##### Task 1.1: Private communication requirements (Resp. SPH; Contributors TAS-F)

The main deliverable of this Task is D1.1.1 “Private Telecommunication Requirements for SatCom” whose current version available upon completion of project Year 1 constitutes the draft intermediate version. D1.1.1 identifies the main private communication requirements associated to SatCom. The most relevant use case scenarios addressed here are:

- Broadband for All
- Multimedia/Content Delivery

- M2M Sensor Networks
- Future Internet.

These requirements have been derived from several existing related documents and reports. In this regard, particular focus has been put on the Digital Agenda for Europe as well as other Future Internet related documents and reports and their respective “decoding” from the SatCom perspective in order to identify the relevant communication requirements and trends.

The structure of the D1.1.1 deliverable is as follows:

- First, a brief overview of the Digital Agenda for Europe is given with focus on the identified challenges and the SatCom relevance to each of them.
- Second, the Future Internet context is provided by identifying several technological principles and its regulation.
- Third, the four SatCom use-case scenarios of Broadband for All, Multimedia/Content Delivery, M2M Sensor Networks, and Future Internet are described. In this respect, due to its key relevance for all the three of them, Future Internet can be seen as the main “enabler” of the other three use-case scenarios and so, can be positioned as “vertical” to the other “horizontal” use case scenarios, i.e., Broadband for All, Multimedia Service Delivery and M2M Sensor Networks.
- Fourth, the communication requirements and trends associated to each SatCom use-case scenario are identified and further analyzed.

Its Table of Contents is shown below.

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**Figure 1: FISI D1.1.1 Table of Contents**

The D1.1.1 deliverable constitutes the basis for the analysis presented in D1.2.1 deliverable “Analysis of Emerging SatCom Architectures”, which corresponds to Task 1.2 below.

As mentioned above, the current version refers to a draft version whereas the final one will be delivered by the project completion, i.e., in the end of FISI project Year 2.

#### Task 1.2: Emerging SatCom architecture analysis (Resp. TAS-F; Contributors SPH, UNIBO, AS)

The D1.2.1 document was drafted and consolidated by FISI members as well as selected experts outside FISI consortium. It aims at identifying trends in SatCom architectures and their added value in the context of the Digital Agenda related objectives.

It undertakes high level techno-economical analysis and identifies enabling techniques to overcome issues inherent to SatCom as well as integration scenarios of SatCom with terrestrial networks:

- Firstly, the SatCom market context is recalled;
- Secondly, the European SatCom industry context is introduced including its market positioning in order to identify the needed evolutions and the related research and innovation priorities;
- Thirdly, the potential contributions of SatCom to the Digital Agenda objectives is highlighted;
- Fourthly, it identifies the emerging SatCom architectures principles and main enablers (technologies, integration scenarios with terrestrial networks) thanks to monitoring of relevant market analysis, standardisation activities, R&D projects;
- Fifthly, it identifies their impact on the performance, features but also economics in order to highlight how future SatCom solutions based on emerging SatCom architectures can support Digital Agenda objectives.

The analysis constitutes an input for the identification of the European SatCom industry research and innovation priorities.

#### Task 1.3: Consolidation and dissemination (Resp.TAS-F; Contributors SPH, TPZ, DLR, UNIBO, AS)

Exploiting the findings of D1.2.1, FISI participated to several events or meetings in order to promote the capabilities and challenges associated to emerging SatCom architectures:

Date & location	Event	Objectives	FISI participants
13-15 September 2010, Cagliari, Italy	Research Paper presented at Scientific Conference:  N. Chuberre, M. Piccinni, J.-F. Boutillon, A. Alvaro-Sanchez, J.M. Rodriguez Bejarano, and K.P. Liolis, "SatCom Systems in the Context of Future Internet-enabled Smart Infrastructures", in Proc. 5th Advanced Satellite Multimedia Systems Conference (ASMS2010) & 11th Signal Processing for Space Communications Workshop (SPSC2010), Cagliari, Italy, September 2010.	"The presented paper aimed at forecasting the role of SatCom in the context of Future Internet and particularly of the future Internet-enabled smart infrastructures in support of some European Societal Grand Challenges. It also aimed at identifying the necessary technological enablers which need to be developed by the European SatCom industry for the emerging SatCom solutions."	TAS-F, SPH

Date & location	Event	Objectives	FISI participants
28th September 2010, Brussels	ISI networking session co located with the ICT 2010 event	To discuss how the Satellite Industry (SatCom, Navigation, and Earth Observation) can contribute to the successful implementation of the priorities of the Digital Agenda for Europe	UNIBO
5 <sup>th</sup> October, Wessling	ETSI TC-SES MSS#9 meeting	TC SES re-structuring proposal	TAS-F
7 <sup>th</sup> October 2010, Madrid	eISI General Assembly	To raise awareness about ISI strategic priorities	ROSE, AS
12th October, Brussels	3rd Next generation telecommunications conference	To promote the key role of future satellite broadband access solutions in the fulfillment of the digital agenda objective on universal broadband access	TAS-F
18-20 October 2010, Brussels	Future Networks 6th FP7 Concertation Meeting	To report about ISI activities and promote FISI project	TAS-F
18 <sup>th</sup> November 2010, Madrid	es.Internet General Assembly		ROSE, AS
30th November 2010, Brussels	12 <sup>th</sup> ISI general assembly		TAS-F, DLR, UNIBO, SPH, ROSE, TPZ, AS
16th December 2010, Ghent	“ETPs & Member State/Regional Future Internet Initiatives”	To raise awareness about ISI strategic priorities and about European SatCom industry main challenges	TAS-F, ROSE
10-11th February 2011, Brussels	Future Networks 7th FP7 Concertation Meeting	To report about ISI activities and promote FISI project	TAS-F
18 <sup>th</sup> February 2011, Brussels	ETP sherpa Meeting	To provide early feedback from the European SatCom industry to the European Commission about the Green paper on the Common Strategic Framework	TAS-F, TPZ, UNIBO, ROSE, AS
3 <sup>rd</sup> March 2011, Brussels	European Forward Looking Activities: Insights for building the future of Innovation Union and ERA	To raise awareness about the SatCom industry challenges in the innovation process that DG RTD wants to evolve	TAS-F
21st March 2011, Brussels	ISI vision promotion to DG ENTR (R. Schulte-Brauckes) and DG INFSO (Ken Ducatel)	Raise awareness about Emerging SatCom architectures (Satellite broadband access solutions and satellite based safety communication networks) capabilities and challenges	TAS-F, AS
26-29 <sup>th</sup> April 2011, Sophia Antipolis	ETSI TC-SES meeting	Contribute to TC SES strategy and re-structuring to better serve the European SatCom industry standardization needs	TAS-F

Date & location	Event	Objectives	FISI participants
11th May 2011, Brussels	ISI coordination with DG Info (L. Rosello-Rodriguez)	To discuss about Emerging SatCom architectures challenges	TAS-F
19-20 May, Budapest	ISI networking session + ICT Proposers' Day 2011, for Calls 8 of the FP7 ICT Work Programme	Support European SatCom industry members in preparing the 8 <sup>th</sup> call of FP7 ICT (Objective 1.1)	TAS-F, UNIBO, ROSE, AS
31st May 2011, Brussels	Mrs Veronica La Regina (European Space Policy Institute)	Raise awareness about Emerging SatCom capabilities (Satellite broadband access solutions and satellite based safety communication networks)	AS
30th May to 1st June 2011, Nordwijk	ETSI TC-SES MSS WG meeting	Support cooperation between DVB and ETSI in the definition of DVB-RCS2 standards	TAS-F
07 <sup>th</sup> and 08 <sup>th</sup> June 2011; Brussels	PSCE forum, general assembly	Liaise with the Public Safety users for what concern communication and particularly for Satcom.	AS
14 – 17 June, Warsaw	Joint Net!Works, ISI and CelticPlus networking session at FUNEMS for Calls 8 of the FP7 ICT Work Programme	Support European SatCom industry members in preparing the 8 <sup>th</sup> call of FP7 ICT (Objective 1.1)	TAS-F, DLR, UNIBO, SPH, ROSE, TPZ, AS
15 <sup>th</sup> June, Warsaw	13 <sup>th</sup> ISI general assembly		TAS-F, DLR, UNIBO, SPH, ROSE, TPZ, AS

In addition, FISI members prepared several position papers to promote the added value of emerging SatCom architectures and the European SatCom industry to have this vision implemented:

Date	Position paper
13-15 September 2010, Cagliari, Italy	N. Chuberre, M. Piccinni, J.-F. Boutillon, A. Alvaro-Sanchez, J.M. Rodriguez Bejarano, and K.P. Liolis, "SatCom Systems in the Context of Future Internet-enabled Smart Infrastructures", in Proc. 5 <sup>th</sup> Advanced Satellite Multimedia Systems Conference (ASMS2010) & 11 <sup>th</sup> Signal Processing for Space Communications Workshop (SPSC2010), Cagliari, Italy, September 2010.
30 <sup>th</sup> September 2010	ISI Comments to the EC Draft communication : « European Broadband : investing in digitally driven growth » Brussels, COM(2010) 472
20th May 2011	ISI responses to "Online questionnaire for the Green Paper on a common strategic framework for EU research and innovation funding"
20th May 2011	ISI key messages to European Commission about the Common Strategic Framework program
22 <sup>th</sup> July 2011	A Cross-ETP Vision for an Innovative Digital Europe
30 <sup>th</sup> August 2011	ISI response to the Revision of the Community Guidelines for the application of State aid rules in relation to rapid deployment of broadband networks

These position papers are reflected in D1.3.1.

#### **2.2.1.4 Significant results**

The SatCom market trends and user requirements have been identified. The principles for the definition of emerging SatCom architectures and their enablers have been drawn. The related capabilities, added values and contribution to the Digital Agenda policy have been highlighted.

The promotion of these emerging SatCom architectures has been initiated towards EC representatives.

During the next period, further definition of architectures based on the combination of satellite and terrestrial components will be carried out.

#### **2.2.1.5 Deviations and proposed corrective actions**

Deviations	Proposed corrective actions
TAS has clearly over spent its WP1 budget in order to meet the planned objectives.	Given the need, in the perspective of Horizon 2020, to raise awareness about the European SatCom industry strategic priorities and added values for the European societal challenges, TAS-F is committed to support the FISl WP1 planned activities in 2 <sup>nd</sup> period in order to meet the objectives. This will indirectly benefit to the whole European SatCom industry.

To further illustrate TAS-F commitment in ISI and hence in the second period of FISl, TAS-F has decided that N. Chuberre should candidate to ISI chairmanship for another 2 year term in April 2012. This is reflected in the report of the ISI 14<sup>th</sup> general assembly held 18-19<sup>th</sup> of October 2011 in Brussels.

#### **2.2.1.6 Future plans**

Leveraging on the produced deliverables, FISl consortium plans to further interact with

- Other Satellite communication industry bodies: ESOA and Eurospace
- Other ETPs: all ICT ones
- EU Member States and National bodies: CNES, ASI, UK space, CDTI
- National Technology Platforms: eISI, Aerospace valley
- Standardisation organisations: ETSI and DVB forum

## 2.2.2 WP2 Research and standardisation road-mapping for Universal Service and Future Internet

This work package defines coherent research and standardisation roadmap for the emerging SatCom architectures in the context of Universal Service and Future Internet.

### 2.2.2.1 Use of resources

	<i>TAS-F</i>	<i>DLR</i>	<i>UNIBO</i>	<i>SPH</i>	<i>ROSE</i>	<i>TPZ</i>	<i>AS</i>	<i>Total</i>
<i>Planned PM</i>	0.6	5.8	3.3	0	1.2	0	0	10.9
<i>Actual PM</i>	1	2,53	2.22		1.2			
<i>%</i>	166% (*)	44%	67%		100 %(**)			

(\*) see comments in section 2.2.2.5

(\*\*) However this figure of 100 %, it should not be interpreted as all resources have been spent, but just the difference between estimated manpower and actual dedicated manpower, although the costs associated to the spent resources represent a percentage about 47 %. This means, more hours have been dedicated to the tasks, although the cost of the hour is less than originally estimated.

### 2.2.2.2 Summary of progress towards objectives

#	<i>Objectives</i>	<i>Progress summary</i>
1	Define a coherent research and standardisation roadmap for SatCom addressing the Universal Service and Future Internet ;	<i>A preliminary list of required Standardisation Actions has been identified in D2.2.1. The next release of D2.2.1 will include the definition of ISI standardisation action plan (for each of the actions identified so far) fully harmonised with the parallel activities in the area of research priorities.</i>
2	Identify research priorities for FP7 and FP8 Work-Programmes	<i>Identified research topics are summarised in Chapter 6 of D2.1.1. The next release of D2.1.1 will include a sharper prioritisation of the research topics.</i>
3	Contribute to the updating process of ISI Strategic Research Agenda taking into account the progress done by relevant ETPs in the ICT domain	<i>The new ISI Strategic Research and Innovation Agenda has been approved at the ISI General Assembly in Oct. 2011.</i>

### 2.2.2.3 Details for each task

#### Task 2.1: Gap analysis and research priority identification (Resp. DLR; Contributors UNIBO)

Although the task was not officially started before January 2011, Thales Alenia Space France undertook, during the first 3 months of the project, anticipated activities on this task by preparing a contribution for the updated Strategic Research and Innovation Agenda executive summary. This was complemented by DLR and UNIBO. This contribution included a comprehensive survey of the research major themes that European SatCom industry shall tackle in the next 10 years. This

anticipation was necessary in order to present the Strategic Research Agenda executive summary document at the 12th ISI general assembly end of November 2010.

Following the elaboration of the SRA executive summary document made public on 7<sup>th</sup> of December on the ISI web site, DLR and UOB (The ISI R&D Group co-leaders, Sandro Scalise/DLR, Alessandro Vanelli-Coralli/University of Bologna) organised and launched a consultation on the 20<sup>th</sup> January 2011 towards all ISI members.

ISI members have been invited before the 25<sup>th</sup> of February 2011, to submit ideas, suggestions, and views on any or all of the identified topics through a web form. A number of contributions have been received that will be used to prepare an extended document where each key topic will be detailed with the identification of specific actions to be implemented, e.g., system architectures, new algorithms and techniques, new technologies, etc.

Following the aforementioned web based consultation open to all ISI members to gather ideas, suggestions, and views on any or all of the topics identified in the executive summary on the new ISI SRA, the drafting of the full SRA was carried out with the help of the following volunteer chapter editors, under the coordination of DLR and UoB:

- SPACE SEGMENT: HIGH-THROUGHPUT, FLEXIBILITY AND RECONFIGURABILITY
- Editor: Barry Evans, University of Surrey, [b.evans@surrey.ac.uk](mailto:b.evans@surrey.ac.uk)
- GROUND INFRASTRUCTURE: DISTRIBUTED PROCESSING
- Editor: Daniele Tarchi, University of Bologna, [daniele.tarchi@unibo.it](mailto:daniele.tarchi@unibo.it)
- RADIO INTERFACES: EFFICIENCY AND ROBUSTNESS
- Editor: Alessandro Vanelli-Coralli, University of Bologna, [avanelli@deis.unibo.it](mailto:avanelli@deis.unibo.it)
- NETWORKING: INTEGRATION AND CONVERGENCE
- Editor: AnaYun, Thales Alenia Space, [ana.yungarcia@thalesaleniaspace.com](mailto:ana.yungarcia@thalesaleniaspace.com)
- TERMINALS: USER-FRIENDLINESS AND RECONFIGURABILITY
- Editor: Sandro Scalise, DLR, [Sandro.Scalise@dlr.de](mailto:Sandro.Scalise@dlr.de)
- SERVICES AND APPLICATIONS: UBIQUITY AND DEPENDABILITY
- Editor: Julián Seseña, ROSE Vision, [jsesena@rose.es](mailto:jsesena@rose.es)

Also, it shall be noted that TAS obtained from DG Enterprise (P.A. Gleize) the inclusion of the ISI technology platform among the bodies to be associated for the execution of the space mandate M415/M496. The addition of ISI in the paragraph "7. BODIES TO BE ASSOCIATED" will be taken into account as "the Integral SatCom Initiative Technology Platform (ISI)" in the next version of the draft mandate.

ROSE made also inputs regarding the updates of the ISI SRA, particularly focusing its contributions to the spectrum managements, interference mitigation techniques, flexible spectrum usage, as being crucial research topics towards the facilitation of SatCom services in the heavily congested spectrum usually occupied by Fixed Service applications. Research on techniques enabling easier spectrum sharing with terrestrial services is of interest but requires validation before being considered at regulatory level.



Although not involved in WP2, SPH also contributed to the revision of the ISI SRA, both its extended version and its executive summary, with specific inputs related to Future Internet (e.g., advanced Information/Content-Centric Networking protocols for SatCom) and MIMO SatCom (e.g., advanced MIMO channel modeling and techniques for dual-polarized MIMO SatCom systems).

FISI supported ISI members in the preparation of FP7 ICT 8<sup>th</sup> call by organising, a networking session for the coordination of potential project proposals for ICT Call 8 was held in Budapest on May 18<sup>th</sup> and 19<sup>th</sup>. More than 30 ideas have been submitted and organized in 10 minutes presentations. 22 persons attended the meeting and discussed the presented ideas. The following principal topics have been identified as aggregation of ideas: Fixed broadband Satellite Communications, Mobile Broadband Satellite Communications, Institutional Applications for security and Emergency, SatCom and Future Internet. During the meeting, participants have been organized in working groups to further develop and refine project ideas in order to extend topics covered and harmonize the project ideas so as to reduce the overlapping and maximize the synergies.

#### Task 2.2: Standardisation action plan (Resp. DLR; Contributors UNIBO,TAS-F, ROSE)

DLR together with TAS-F took part in the Technical Committee of Satellite earth Stations at ETSI (in particular the 10<sup>th</sup> meeting of the Mobile Satellite System working group, held on 8<sup>th</sup> and 9<sup>th</sup> of February/Toulouse). The TC-SES is engaged in the definition of its strategy and re-structuring. FISI delegates raised awareness about the ISI's SRA executive summary. This input was reviewed and justified the need to focus ETSI strategy on how to best support the SatCom industry in the standardisation by proposing a new structure, a revised scope of activities without defining in details the technical topics to be addressed. Indeed this was considered to be the role of the European SatCom industry represented by ISI. See below an extract of the MSS#10 meeting report: SESMSS(11)0033\_MSS#10\_Meeting\_Report

*“The MSS WG chairman reported about brainstorming on the TC SES strategy that took place at SES#78 triggered by the ESA delegate.*

*The main elements of the TC SES brainstorming were captured in a document. This document was presented to MSS delegates (see contribution SESMSS(11)0029).*

*Thales presented some elements highlighting the added value of standards.*

*Then DLR presented the executive summary of the strategic research agenda (SRA) of the Integral SatCom initiative - technology platform (see SESMSS(11)0026).*

*The ISI Strategic Research Agenda identifies new R&D initiatives that shall be promoted and supported by Public bodies such as:*

- Very high speed broadband access SatComs in conjunction with fibre and wireless networks*
- Reconfigurable, resilient and secured broadband connectivity SatComs to support professional and institutional telecommunication demands (e.g. Private communication networks, Backhaul, Backbone connectivity, public safety)*
- Integration/hybridising of future SatComs with future terrestrial networks addressing the goal of sustainable and efficient economy*
- Enhanced broadcast systems, efficiently supporting scalable video quality (3D/HDTV/SDTV), mobility and interactivity*

*The complete SRA (currently being drafted) will include prioritised research topics for the European SatCom industry.*

*This will help to identify the standardisation needs and where (SDOs - Working groups) they can be carried out.*

*It will also allow to identify the need to update the SDOs terms of reference to better support the SatCom industry.”*

Upon its approval, the ISI strategy research Agenda will be presented to the TC-SES.

In addition, the Communications from the European Commission on proposal for future policy on the Standardization in Europe (COM(2011) 311 as well as COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL AND THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE: A strategic vision for European standards: Moving forward to enhance and accelerate the sustainable growth of the European economy by 2020 (COM(2011) 311, have been analyzed by ROS and provoked debate within the ISI. The subject has been presented at the 14<sup>th</sup> General Assembly held mid October 2011.

ROSE also participated in the join meeting of CENELEC-JISC where discussions about future standardization cooperation between Europe and Japan could take place through exchanging information on strategies, priorities, etc. Japanese Institutions have been invited to pay attention to the ISI activities in the standardization promotion arena, showing as example the fruitful cooperation with Koreans, thanks to ETRI being regular participant in ISI.

ROSE has also informed to ISI members about the recently approved European ICT standardization work programme for 2011 ([http://ec.europa.eu/enterprise/sectors/ict/standards/work-programme/index\\_en.htm](http://ec.europa.eu/enterprise/sectors/ict/standards/work-programme/index_en.htm)), which covers a number of items with potential interest to ISI community:

- Domain 1: eHealth
- Domain 2: eInclusion
- Domain 3: Intelligent transport
- Domain 4: RFID
- Domain 5: Electronic signatures
- Domain 6: eInvoicing
- Domain 7: eSkills and eEducation
- Domain 8: ICT for sustainable growth
- Domain 9: Internet of things
- Domain 10: ePublishing
- Domain 11: eSecurity
- Domain 12: eBusiness
- Domain 13: Support to standards implementation

ROSE has circulated also information about the status of the Mandate 462 on ICT to enable efficient energy use in fixed and mobile information and communication networks.

Other information distributed as of relevance for ISI membership is:

- [Commission approves record amount of state aid for the deployment of broadband networks in 2010](#). In keeping with the ambitious digital agenda goals set in the EU 2020, the European Commission has approved, under the EU guidelines for state aid to broadband, the use of over EUR 1.8 billion public funds for broadband development to support economic recovery, inclusive growth and the long term competitiveness of the EU. The public funds are aimed to ensure that all citizens have access to high speed Internet access in the European Union, including in rural or remote areas

- Cooperation with SAP REG. Information to ISI members on the response to CEPT PT FMR 45 questionnaire.
- New consultation from the European Commission regarding future funding to boost EU competitiveness and Innovation.  
<http://europa.eu/rapid/pressReleasesAction.do?reference=IP/10/1500&format=HTML&aged=0&language=en&guiLanguage=en>
- Debates on the cohesion funds. Future strategies. COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE, THE COMMITTEE OF THE REGIONS AND THE EUROPEAN INVESTMENT BANK. Conclusions of the fifth report on economic, social and territorial cohesion: the future of cohesion policy.

#### **2.2.2.4 Significant results**

D2.1.1 (Research Roadmap for Universal Service and Future Internet) 1<sup>st</sup> draft has been harmonised.

- It entails analysis of the different space programmes of ESA, Germany, France, UK, Italy, Spain, identifying their main components and basic objectives (See DLR, UNIBO and TAS contributions).
- It analyses the SRA of Net!Works and photonic21 technology platforms objectives and content relevant to ISI (See DLR and Unibo contributions).
- It provides a research roadmap based on the ISI SRA content (See DLR, Unibo contributions).
- It has performed the technological gap analysis (See DLR contributions).

D2.2.1 (Standardization Action Plan for Universal Service and Future Internet) 1<sup>st</sup> draft has been prepared.

It identifies ETSI, CEN, CENELEC and DVB standardization activities that are relevant to the SatCom sector (see DLR, ROS and TAS contributions)

#### **2.2.2.5 Deviations and proposed corrective actions**

Deviations	Proposed corrective actions
TAS has clearly over spent its WP2 budget in order to meet the planned objectives. In particular it has significantly contributed to reinforce the interactions between ISI and ETSI.	TAS-F is committed to support the FISIRI WP2 planned activities in 2 <sup>nd</sup> period in order to meet the objectives. This will indirectly benefit to the whole European SatCom industry.

### 2.2.3 WP3 ISICOM initiative

This work package consolidates the mission requirements of this global and long term initiative, selects the reference architectures, defines the initiative roadmap and proposes an implementation plan.

#### 2.2.3.1 Use of resources

	<i>TAS-F</i>	<i>DLR</i>	<i>UNIBO</i>	<i>SPH</i>	<i>ROSE</i>	<i>TPZ</i>	<i>AS</i>	<i>Total</i>
<i>Planned PM</i>	<i>0.5</i>				<i>1.2</i>	<i>4.6</i>	<i>2</i>	<i>8.3</i>
<i>Actual PM</i>	<i>1</i>				<i>1.1</i>	<i>3.8</i>	<i>1.4</i>	<i>7.3</i>
<i>%</i>	<i>200% (*)</i>				<i>91 % (**)</i>	<i>83% (***)</i>	<i>70 %</i>	<i>88%</i>

(\*) *see comments in section 2.2.3.5*

(\*\*) However this figure of 91 %, it should not be interpreted as all resources have been spent, but just the difference between estimated manpower and actual dedicated manpower, although the costs associated to the spent resources represent a percentage about 47 %. See details in the management chapter. This means, more hours have been dedicated to the tasks, although the cost of the hour is less than originally estimated.

(\*\*\*) However, this figure of 83 % should not be interpreted as almost all resources have been spent, but just the difference between estimated manpower and actual dedicated manpower, while the costs associated to the spent resources represent a percentage of around 40 %. This means that, more hours have been dedicated to the tasks, although the cost of the hour is less than originally estimated.

#### 2.2.3.2 Summary of progress towards objectives

#	<i>Objectives</i>	<i>Progress summary</i>
1	Identification of ISICOM stakeholders community, user needs, institutional framework and mission requirements	Identification of the ISICOM Missions, definition of related Scenarios and the main Actors involved, preliminary illustration of some needed functionalities/capabilities and rationale for the use of Satcom in the identified scenarios. Definition of user/stakeholders requirements in the subject domains. Elaboration of Deliverable D3.1.1
2	Definition of an ISICOM Road map and Implementation Plan for main activities;	Analysis of existing and planned Satcom related programmes; preliminary identification of ISICOM differentiators and potential added value. First options for the ISICOM system concept and technical innovation and R&D areas. Basic considerations about the regulatory and standardisation framework and review of the main involved actors and their possible roles Elaboration of Deliverable D3.2.1
3	Mapping of ISICOM activities within the framework of the Institutional European Programs	Activity to be performed during the second reporting period

### 2.2.3.3 Details for each task

#### Task 3.1: ISICOM Mission requirements (Resp. TPZ; Contributors ROSE)

Although the task was not officially started before early January, Thales Alenia Space drafted during the first 3 months of the project, a substantial contribution for the ISICOM executive summary (version 0.3). It included clarification of the ISICOM objectives, concept, identification of technology, regulatory, economical enablers and proposed development/operation scheme. Astrium reviewed the TAS contribution and provided further corrections to it under version 0.4. This version 0.4 was then submitted to the ISICOM Task Force. This contribution was complemented by Rose and raised numerous comments and further inputs from other ISI members of the ISICOM task force University of Roma, ISDEFE, CNIT-University of Florence, Motte Mc Donald, Gilat Networks, CNIT-University of Reggio Calabria, SES, CTTC. The ISICOM executive summary document was presented at the 12th general assembly and published on 15th of December 2011.

ISICOM is an initiative of the ISI European Technology Platform on Satellite Communications, aiming at defining the basic foundations and the building blocks for a future European Satellite Communication Infrastructure addressed to meet the needs and requirements of European and National Institutions in the Security, Emergency Management and Civil Protection domains.

FISI Work Package 3 is aimed at supporting the ISI ETP in the definition and implementation of this ISICOM Initiative. Activities performed by WP3 in the project period from January 1<sup>st</sup> to August 31<sup>st</sup>, 2011 have focused on the identification of the ISICOM Missions, the definition of related Scenarios and the main Actors involved, the preliminary illustration of some needed functionalities/capabilities and the rationale for the use of Satcom in the identified scenarios. WP3 activities have also dealt with the definition of user/stakeholders requirements in the subject domains.

Security is, today, one of the main priorities for the European Union. WP3 analysis has been implemented with the purpose to identify the main security related missions potentially benefitting from satellite communications functionalities. The main missions are listed hereafter:

- Security of citizens
- Security of infrastructure and utilities
- Surveillance and Border control
- Crisis Management in case of natural or man made disaster
- Transport Security
- EU External actions and Humanitarian relief activities

The WP3 analysis has started with the definition of the main scenarios relevant for each mission and then identified the security involved functionalities that each scenario requires, the main actors involved and the technological capabilities to meet the user requirements typical of each scenario.

The preliminary identification of the rationale justifying the use of SatCom as powerful means to meet user expectations and needs in the various use cases and scenarios has been performed.

A direct contact phase with User Representatives has also started during the FISl first project reporting period. Relevant results coming from activities implemented by a previous Satellite Communications related project and referring to the User Requirements identification have been taken into account in the FISl WP3 direct contact phase with Users Representatives.

These direct contact phase activities, started in the FISl first reporting period, will be finalised in the first months of the second reporting period. These activities are being implemented through a methodology involving the identification of the set of User Representatives to be interviewed and the subsequent contact phase performed through an ad-hoc Questionnaire (elaborated by WP3 team).

The contact phase performed by FISl WP3 in the first reporting period has involved a first list of identified users/stakeholders representatives (in a number of EU Countries). The elaboration of answers by the User representatives and reception of them by the WP3 team is in progress during the elaboration of this Report. Other Users representatives will also be contacted, through the same Questionnaire, during the first months of the FISl second project reporting period. The whole contact phase will then be finalised by December 2011: a report on the obtained results (including the complete analysis and resulting synthesis of all of the received answers) will be produced by WP3, thus permitting to finally consolidate the ISICOM Mission Requirements definition.

The Questionnaire, elaborated by FISl WP3, is asking each of the contacted User representative to indicate:

- whether the previously defined Requirements are consider as relevant for the contacted User Representative too;
- which is the priority level of each of the Requirements according to the User perception;
- whether the User Organisation is already using (at present) any technological asset/system/device able to meet (partially or totally) the various requirements;
- whether the User Organisation has additional Requirements, not included in the preliminary list;
- a brief description of these possible additional User Requirements.

Finally, the Deliverable D3.1.1 has been elaborated, describing in detail the activities performed and results obtained (as far and Task 3.1 is concerned).

### Task 3.2: ISICOM Programmatic definition (Resp. TPZ; Contributors TAS-F, AS)

WP3 activities, started in the project period from January 1<sup>st</sup> to August 31<sup>st</sup>, 2011, has also dealt with the identification of the basic elements for the ISICOM Programmatic Definition. In this respect, an analysis of existing and planned Satcom assets and related programmes has been performed, as a basis for the subsequent preliminary identification of ISICOM differentiators and potential added value.

The WP3 performed analysis has led to identify a set of parameters (primarily related to the Institutional User requirements in the security and emergency management domain)- which can be used to compare the various existing and planned satellite systems with respect to the ISICOM main characteristics. The elements for the comparison are reported in the Deliverable D3.2.2 (with related

results to be considered as preliminary: subsequent FISl WP3 analyses, to be performed in the next project reporting period, will permit to integrate/refine and finalise the analysis).

The main characteristics of the ISICOM system and the first options for its proposed high level system architecture have been elaborated, followed by preliminary considerations related to the technical innovation and R&D areas to be considered in order to meet the mission requirements and develop the proposed architectural options. Some basic considerations about the regulatory and standardisation framework to be set up for the development of the system and a preliminary review of the main involved actors and their possible roles have also been performed.

Deliverable D3.2.1 has been produced, illustrating in detail the activities performed under Task 3.2. during the first reporting period

The WP3 activities related to all of the above mentioned ISICOM programmatic aspects, started in the first project reporting period, will continue in the next FISl project period.

The activities to be done by WP3 during the next project reporting period will permit to finalise the ISICOM programmatic definition, through:

- Consolidation of the proposed ISICOM System Architecture, fully meeting mission requirements identified in the Deliverable D3.1.2 (including the elaboration of a compliance matrix showing coherence between system architecture consolidated characteristics and consolidated mission requirements)
- Elaboration of the related regulatory, spectrum, standardisation and R&D activity plan, linked to the ISICOM Initiative development.
- Definition of roles of the involved actors and of the partnership model
- Elaboration of the ISICOM Road Map, including a Work Programme with the identification of relevant responsibilities.

#### Task 3.3: ISICOM Mapping in the European framework (Resp. TPZ, contributors AS, TAS-F)

No activity. This is scheduled in second period.

#### **2.2.3.4 Significant results**

A list of main obtained results is reported hereafter:

- Identification of the ISICOM Missions
- Definition of related Scenarios and the main Actors involved
- Preliminary illustration of some needed functionalities/capabilities and rationale for the use of Satcom in the identified scenarios.
- Definition of user/stakeholders requirements in the subject domains.

- Analysis of relevant existing and planned Satcom programmes
- Preliminary identification of ISICOM differentiators and potential benefits.
- First options for the ISICOM system concept and technical innovation/R&D areas.
- Basic considerations about the regulatory and standardisation framework
- Preliminary review of the main involved actors and their possible roles

### 2.2.3.5 Deviations and proposed corrective actions

Deviations	Proposed corrective actions
TAS has clearly over spent its WP3 budget in order to meet the planned objectives. In particular, TAS-F was instrumental to re define the scope of ISICOM concept by focusing it on the security domain.	TAS-F is committed to support the FISIRI WP3 planned activities in 2 <sup>nd</sup> period in order to meet the objectives. This will indirectly benefit to the whole European SatCom industry.
Although TPZ Personnel resources (PMs) devoted to this WP during this period are higher than originally estimated, the associated overall cost is around 40 % (in line with the originally estimated cost), This means that more hours have been dedicated to the tasks, while the cost of the hour is less than originally estimated.	No corrective actions are necessary since TPZ is committed to devote any necessary resources in order to complete the expected tasks and obtain relevant results, even if the resources are higher than the initial estimation. Furthermore, the remaining funding is sufficient to fully carry out all of the associated tasks for Year 2.



## 2.2.4 WP4 Promotion and ISI event organisation

This Work Package is devoted to promote emerging SatCom architectures as well as the ISICOM initiative towards end-users and research community through the organization of public SatCom event at international level. On the other hand, WP4 aims at promoting ISI Technology Platform by the management of the ISI web-site and by the creation of two databases concerning ISI members' competence and expertise, and European training and educational courses, respectively.

### 2.2.4.1 Use of resources

	<i>TAS-F</i>	<i>DLR</i>	<i>UNIBO</i>	<i>SPH</i>	<i>ROSE</i>	<i>TPZ</i>	<i>AS</i>	<i>Total</i>
<i>Planned PM</i>	0		5.6			0.6		6.2
<i>Actual PM</i>	0.5 (*)		7.505			0		8.005
<i>%</i>			134% (**)			0		130%

(\*) see comments in section 2.2.4.5

(\*\*) In the proposal phase, the number of PM has been estimated on the basis of an average PM cost and expertise allocation. However, the increase in the number of PM has no impact on the planned and actual costs.

### 2.2.4.2 Summary of progress towards objectives

#	Objectives	Progress summary
1	To promote emerging SatCom architectures as well as the ISICOM initiative towards end-users and other stakeholders and to the research community via public SatCom events	<p>The 3<sup>rd</sup> and 4<sup>th</sup> ISI SatCom days (definition of the concept, selection of topics through the consultation of ISI Steering Council and ISI membership, organization) have been organized in the framework of the project.</p> <p>Two networking meetings (the ISI networking meeting and the joint ETP/Celtic networking session) have been organized for the coordination of project ideas for upcoming FP7 calls.</p>
2	To promote the ISI Technology Platform by - managing, and maintaining the ISI website - creating a database of ISI Members' competence and expertise profiles - creating a knowledge database for training and educational courses in Europe for emerging SatCom architectures	<p>In order to promote the ISI Technology Platform the following activities have been carried out:</p> <ul style="list-style-type: none"> <li>- continuous maintenance and content update of the ISI ETP Web site (<a href="http://www.isi-initiative.org/">http://www.isi-initiative.org/</a>);</li> <li>- new ISI membership management;</li> <li>- ISI mailing list management;</li> <li>- ISI events management through the Web Site.</li> </ul> <p>A re-structuring of this ISI Web site has been also carried out in order to take into account the new ISI governance structure.</p> <p><b><u>Membership and training surveys</u></b></p> <p>Two different surveys have been designed, finalized and implemented through a Web based format in order to set-up and populate the two databases on the ISI member competence profile and the European SatCom training and educational courses offered by the ISI community. A specific area of the ISI Web site has been dedicated to these surveys. The results from the database analysis have been elaborated in the form of aggregated data and have been published and advertised on the</p>

		ISI Web site ( <a href="http://www.isi-initiative.org/isi-membership-survey-results">http://www.isi-initiative.org/isi-membership-survey-results</a> and <a href="http://www.isi-initiative.org/isi-training-survey-results">http://www.isi-initiative.org/isi-training-survey-results</a> ).
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### 2.2.4.3 Details for each task

Task 4.1: ISI and FISI Web site elaboration, maintenance and Consortium collaborate tools (Resp. UNIBO)

#### **F-ISI Web site and mailing list**

UNIBO performed the architectural design and the creation of the F-ISI Web site (<http://www.f-isi.org/>). The Web site was set-up and populated with contents (project overview, consortium and work packages description, documents repository, useful links, and contacts) which have been produced by the UNIBO team. Moreover, UNIBO is dealing with the continuous Web site maintenance and with the updating and the improving of the Web contents.

UNIBO also created the F-ISI email reflector (all@f-isi.org) and circulated among all Partners a form arranged to add member addresses to the mailing list. Finally, UNIBO is dealing with the continuous management of the reflector.

#### **ISI-ETP Web site and mailing list**

Since January 1<sup>st</sup>, 2011, the ISI Web site is managed under the framework of the F-ISI project. UNIBO has been dealing with the re-structuring and the continuous maintenance of the ISI Web site (<http://www.isi-initiative.org/>). In particular, the following activities carried out during the first reporting period:

- updating of Governance page, WGs section, Contacts page according to the new ISI governance structure;
- updating of News section, Calendar, ISI events list;
- uploading of ISI newsletters, working documents, etc;
- new ISI membership management;
- ISI Mailing lists management.

SPH also contributed to the enrichment of F-ISI Web site by communicating the documents produced as part of F-ISI efforts and related particularly to Future Internet.

#### **ISI Event Management through the ISI Web site**

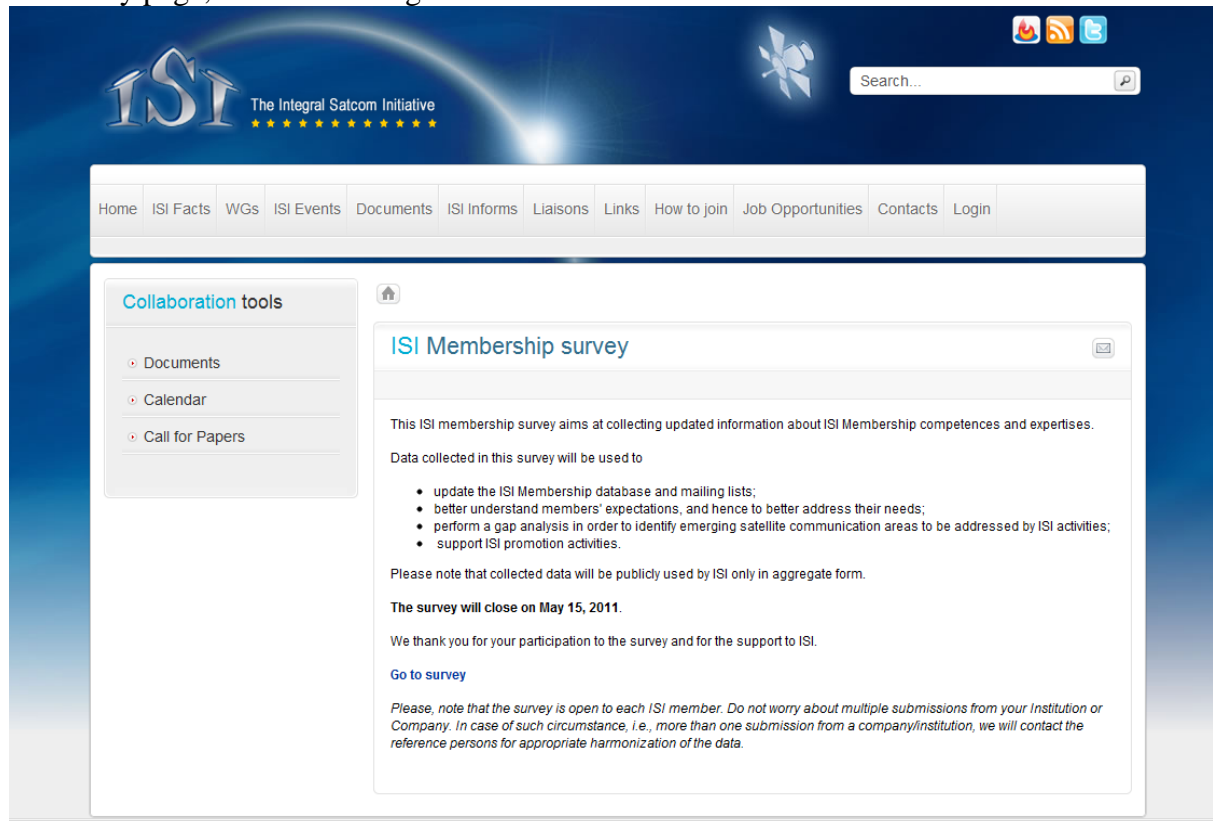
UNIBO managed the following events through the ISI Web site:

- Collection of contribution for the Strategic Research Agenda (SRA)
- Collection on Project Ideas for the ISI Networking Session which has been held in Budapest on May 18<sup>th</sup> and 19<sup>th</sup>, 2011
- 13<sup>th</sup> ISI General Assembly (June 15, 2011) registration

#### **ISI member competence profile database**

UNIBO prepared, finalized and implemented the Web based format of the membership database. A specific area of the ISI Web site has been dedicated to this survey. The direct link to the survey (<http://www.isi-initiative.org/isi-membership-survey-introduction>) was circulated among all ISI

members and, then, published on the ISI Web site Home page. In particular, a short introduction to the survey describing the purpose and objectives of such questionnaire was introduced before going to the survey page, as shown in Figure 2.



**Figure 2: ISI Membership survey - introduction**

The ISI Membership survey was organized in the following 14 sections aiming at collecting information related to members' organization profile, sector, footprint, market as well as members' background, field of expertise and activities carried out in standardization and regulatory bodies in order to better understand members' interests and their actual and potential future involvement in the ISI activities.

### **1. Compiler personal**

- Name
- Email
- Role in organization

### **2. Organization data**

- Name
- Country
- Reference person
- E-mail Reference person

### **3. Organization sector (according to the ISI classification)**

- Manufacturing Industry (IND)
- Network Operation and Service Provision (SNO)

- Small and Medium Enterprise (SME)
- Research & consultancy (RES)
- Association (ASSOC)
- Government/Institutional (GOV)

#### **4. Organization profile**

- Ground equipment/technology manufacturing
- Space equipment/technology manufacturing
- Solution vendor
- System prime
- Satellite operator
- Service provider
- Consultancy
- Research institute
- Governmental

#### **5. Footprint**

- European
- European member states
- Non European based

#### **6. Institution/Company market**

- Global
- Regional
- National
- Local
- Other

#### **7. ISI membership interest (ranking from 0 (very low) to 5 (very high))**

- Networking for projects
- Networking for business
- Contributing to the European space policy
- Contribution to the definition of the EC FP8 Work Programmes
- Contribution to the definition of the ESA ARTES Work Programmes
- Monitoring of the SatCom industry sector's research priorities

#### **8. Research/Industrial Activities**

- Satellite Communications
- Satellite Earth Observation
- Satellite Navigation systems

- Wireless and cellular communications
- Other

#### **9. Field of expertise**

- HW development
- SW development
- Physical layer
- MAC layer and resource management
- Network layer
- Upper layers
- Antennas and RF
- Systems & Architectures
- Ground Segment
- Space Segment
- User Segment
- Services and Apps
- Other

#### **10. Facilities that can be made available to ISI**

- Theoretical tools
- Simulation tools
- Real time test beds
- Environmental testing facilities
- Other

#### **11. Activities in standardization bodies**

- ETSI
- CEN-CENELEC
- DVB
- IEEE
- 3GPP
- Other

#### **12. Activities in regulatory bodies**

- National Spectrum Management Group
- Other

#### **13. Availability to represent ISI at**

- Scientific conference
- Events organised at European level

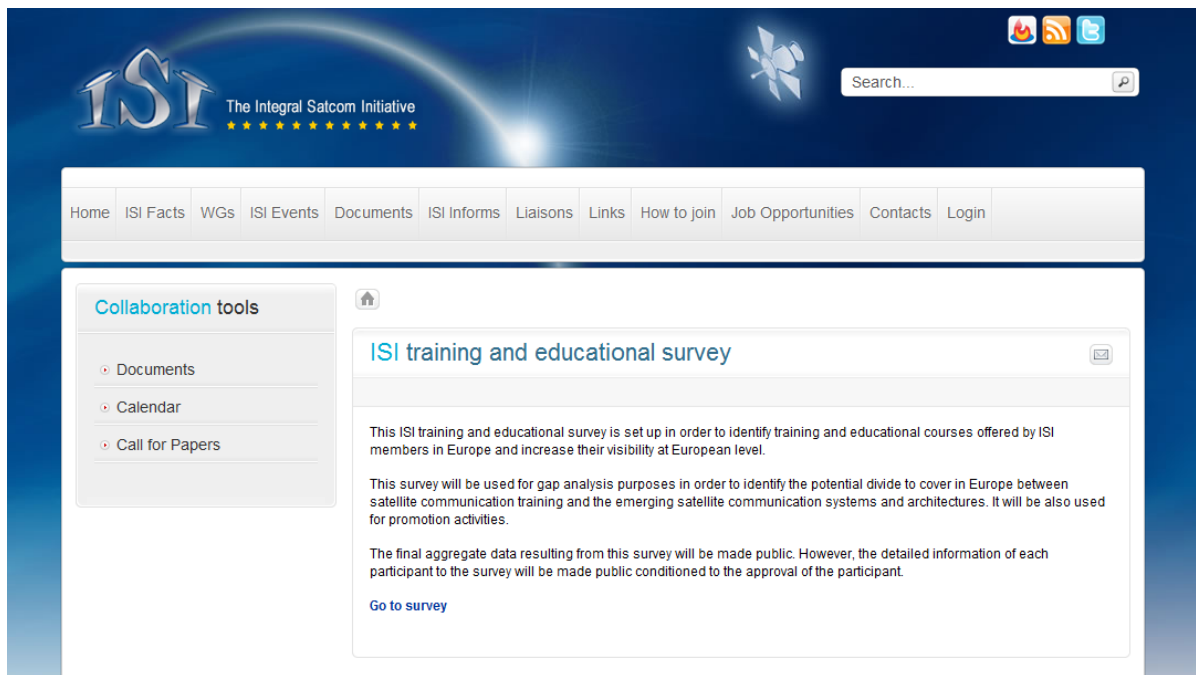
- Events organised at national level
- Events organised at local level

#### 14. Estimated turnover dedicated to SatCom activities in Euro

#### Task 4.2: SatCom training in Europe (Resp. UNIBO)

##### European SatCom training survey

UNIBO finalized and implemented the web based format of the training and educational database. A specific area of the ISI Web site has been dedicated to this survey. The direct link to the survey (<http://www.isi-initiative.org/isi-training-and-educational-survey-introduction>) was circulated among all ISI members and, then, published on the ISI Web site Home page. In particular, a short introduction to the survey describing the purpose and the objectives of such questionnaire was introduced before going to the survey page, as shown in Figure 3.



**Figure 3: ISI training and educational survey - introduction**

The ISI SatCom Training survey was organized in the following 6 sections aiming at collecting information about the SatCom related courses proposed by ISI members and organizations, in order to set up a database of educational offer on SatCom field currently available in Europe.

##### 1. Compiler personal

- Name
- Email
- Role in organization

## **2. Organization data**

- Name
- Country
- Reference person
- E-mail Reference person

## **3. ISI Member**

- Yes
- No

## **4. Organization profile**

- Ground equipment/technology manufacturing
- Space equipment/technology manufacturing
- Solution vendor
- System prime
- Satellite operator
- Service provider
- Consultancy
- Research institute
- Governmental

## **5. Footprint**

- European
- European member states
- Non European based

## **6. Proposed SatCom related courses (there may be several)**

- Course title
- Course program
- Teaching language
- Course structure
  - Single module
  - Sub modules
- Duration (in hours)
- Periodicity
  - Recurrent event
  - Single event
- History
  - New course

- Course running for (year)
- Targeted audience
  - Ph.D. Students
  - Operators
  - Investors
  - Designers
  - Other
- Prerequisites for the audience
- Course material
  - Book
  - Papers
  - Slides
  - Technical report
  - Recorded lessons
  - Other
- Material language
- Material format
  - Electronic
  - Paper
  - Other
- Course format
  - Face to face
  - Interactive webinar
  - Webcast
- Laboratory experience
  - Yes
  - No
- Credits (e.g., for Ph.D. students)
  - Yes
  - No
- Final test required
  - Yes
  - No
- Fee
- URL (for advertisement on the ISI Web site)



#### Task 4.3: Annual SatCom event (Resp. UNIBO, Contributor: TPZ)

In anticipation, TAS-F and AST contributed to the definition of the 3<sup>rd</sup> SatCom day format (panel discussions) and content which gathered close to 100 participants. The following panel discussions have been organised:

- Considering next generation SatCom in the digital agenda EC objective
- SatComs contribution to European security
- Funding scheme options for Satcoms, serving EU policies

UNIBO with TAS-F and Astrium support worked on the definition and the finalization of the concept for the 4<sup>th</sup> ISI SatCom Day 2011 (Brussels, October 18<sup>th</sup>-19<sup>th</sup>, 2011). A long procedure of selection of potential topics was carried out which led to the identification of eight potential topics to be addressed during the SatCom event, in addition to a potential higher layer topic aimed at opening the plenary session of the event:

- **Topic #1 - ISI & EU security:** to define how SatCom can support EU internal and external security, also including support to emergency services to face global and local crises, and to identify the SatCom role in a global, integrated & secure communication infrastructure.
- **Topic #2 - ISI & Standardization:** to inform standardization organizations about ISI R&D activities in order to adapt standardization process to best support research and to implement the ISI Strategic Research Agenda (SRA) into European standards.
- **Topic #3 - ISI & Future Internet:** to define how satellites can play a part in meeting the grand challenges in future networks, to specify the SatCom role in the Future Internet framework, and to identify SatCom key features to be applied in the Future Internet services.
- **Topic #4 - ISI & Emerging Economies:** to define how SatCom can support developing countries, for which application scenarios (public services, emergency services, telemedicine, e-learning, etc.) SatCom can be a key technology in those countries which lack in infrastructure and how SatCom can help to bridge the digital divide in such countries.
- **Topic #5 - ISI & Energy/Environment:** to define how satellites can contribute to reduce energy usage and to environmental resources monitoring and management, to discuss how SatCom can support the CO2 emissions and to identify the role that SatCom can play in Smart Grids.
- **Topic #6 - ISI & Rural Developments:** to discuss how future Satellite Broadband access can contribute to the development of rural areas.
- **Topic #7 - ISI & Network Media:** to discuss the evolution of the networked media service context in order to identify trends for satellite systems and possible opportune hybridization of service with broadband.
- **Topic #8 - ISI & International Research:** to discuss possibilities to cooperate with partners beyond Europe, regarding cooperative research at earlier stages of the overall innovation chain.

An open consultation was also launched at the end of May and closed at the end of July, 2011, in order to invite ISI members to express their opinion on the most relevant and interesting panels proposed for the 4<sup>th</sup> SatCom event.

UNIBO also advertised the 4<sup>th</sup> ISI SatCom event among all ISI members during the 13<sup>th</sup> ISI General Assembly on June 15, 2011, Warsaw, Poland. After a further selection procedure, only five topics were chosen gathered in four panels:

- **Panel #1:** ISI & EU security
- **Panel #2:** ISI & Future Internet
- **Panel #3:** ISI & the World (International Cooperation and relations with Emerging Economies)
- **Panel #4:** ISI & Rural Development

TAS-F provided support to UNIBO in the preparation of the 4th SatCom day by contributing to the definition of the panel discussions, consolidating the Agenda and taking part in the review of the final panel description and panel participants.

ROSE was deeply involved in the definition of the SatCom concept having made several proposals on some of the topics. Also, intensive effort has been done to call for panellists participating in the relevant SatCom panels, as well as on the proposal to reshape the panel structure based on the fashion topics and feedback from invited speakers.

#### 2.2.4.4 Significant results

##### ISI-ETP Web site

Under the F-ISI project, the use of the ISI Web site has been monitored through Google Analytics to address fine tuning actions in order to improve the accessibility of the web site. According to the collected statistics, in the period from 01/09/2010 to 31/08/2011, the ISI web site has been visited 6749 times with monthly accesses larger in months before ISI General Assemblies, i.e., November 2010 and June 2011, as indicated in Figure 4.

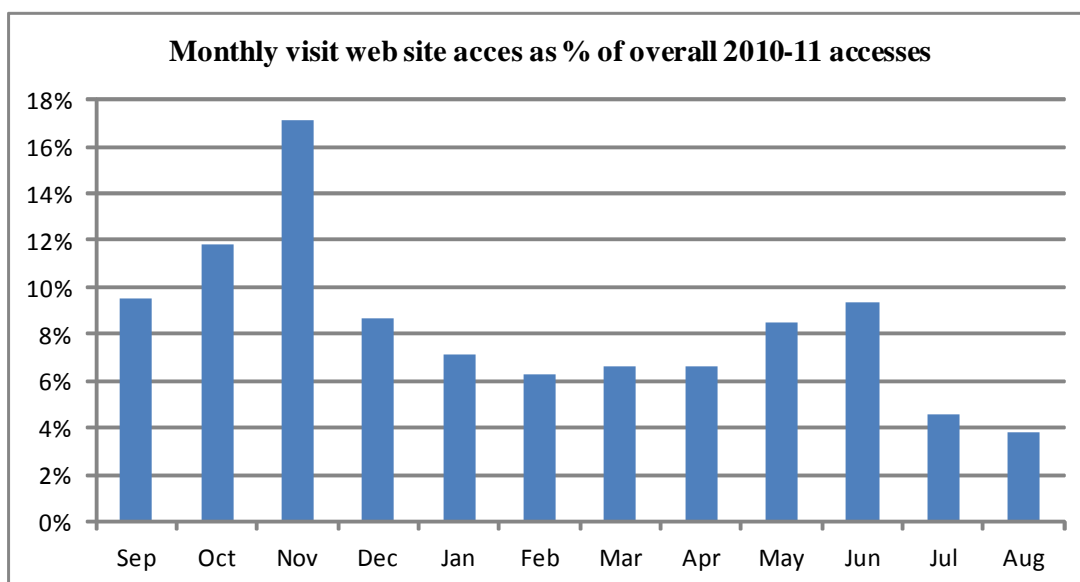
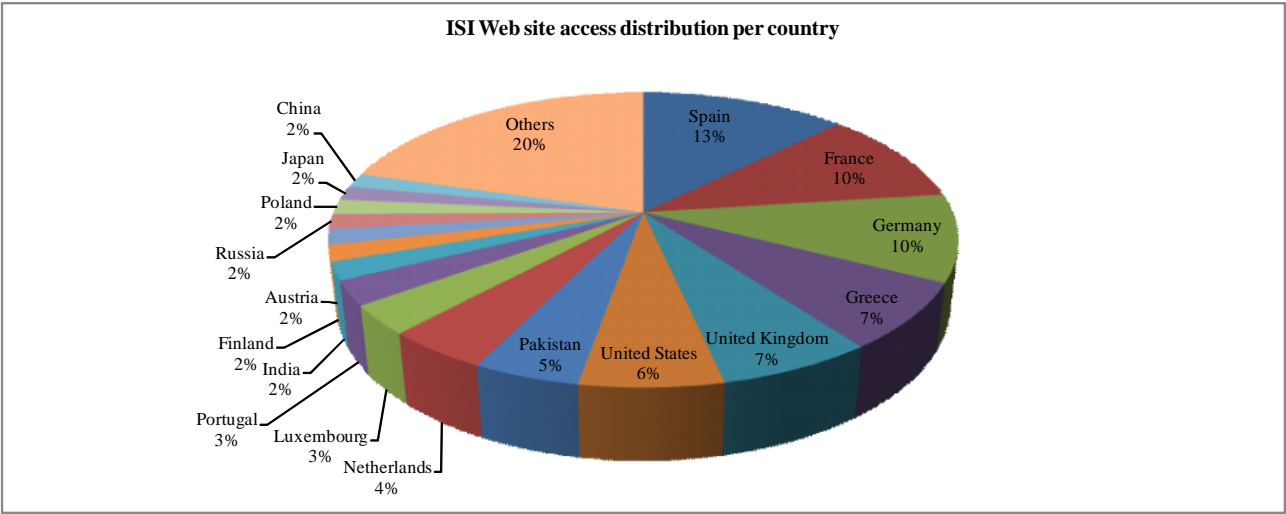


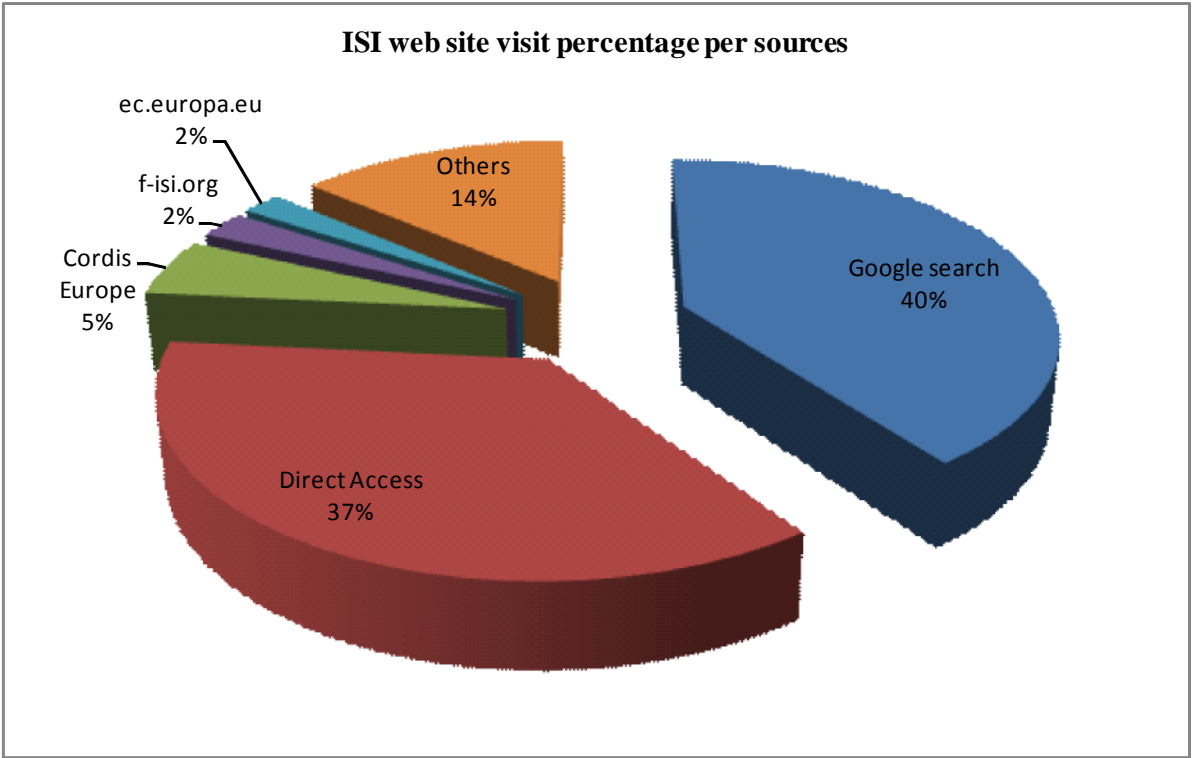
Figure 4: ISI web site monthly access percentage (01 September 2010-31 August 2011)

Interestingly, ISI web site has been visited from all over the world as indicated in Figure 5 that reports the country distribution of the Web sites accesses.

It is also worthwhile noting that, as indicated in Figure 6, most of the visits are generated through direct access to the ISI web site (37%) or through Google searches (40%). The remaining 23% are produced by links in the Cordis web site, in the F-ISI Web site, and links in many other web sites.



**Figure 5: ISI web site visit percentage distribution per country (01 September 2010-31 August 2011)**



**Figure 6: ISI web site visit percentage distribution per source (01 September 2010-31 August 2011)**

### ISI member competence profile database

The first ISI Membership survey aimed at collecting updated information about ISI members’ competences and expertise. In particular, data collected in this survey will be used to:

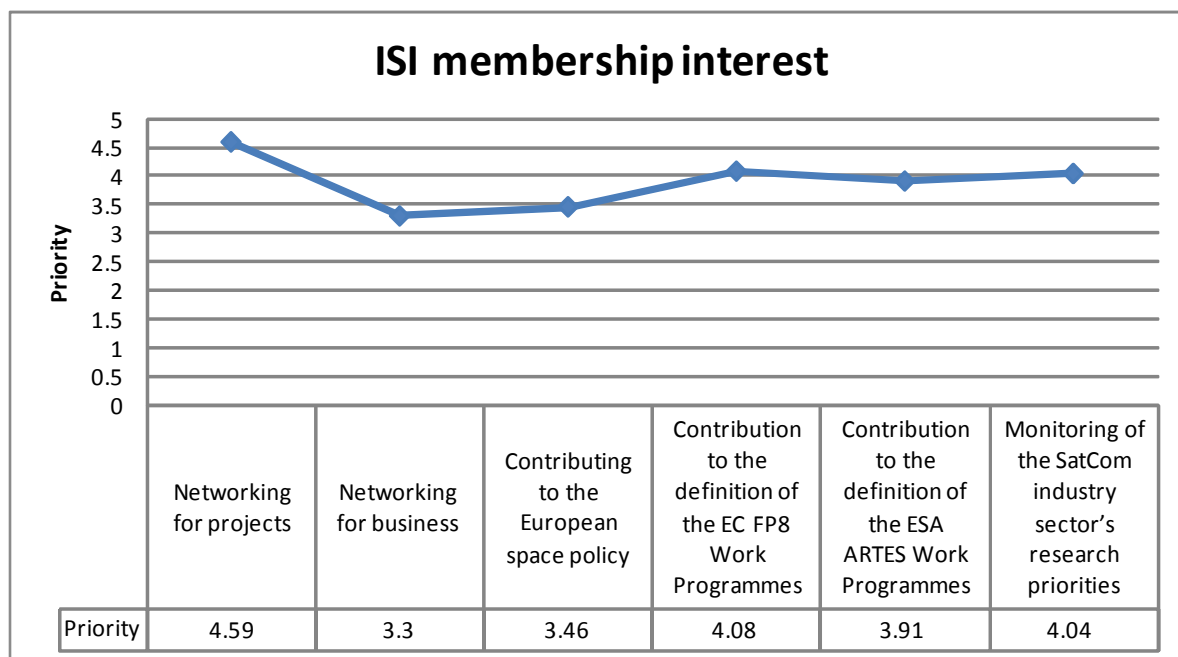
- update the ISI Membership database and mailing lists;

- better understand members' expectations, and to better address their needs through the knowledge and the understanding of their interests towards the ISI Platform activities;
- perform a preliminary gap analysis in order to identify emerging satellite communication areas to be addressed by ISI activities;
- support ISI promotion activities.

The ISI Membership survey was opened on April 2011 through the advertisement on the ISI Platform Web site and the invitation sent to all ISI members to respond to the survey, and it was closed on August 2011.

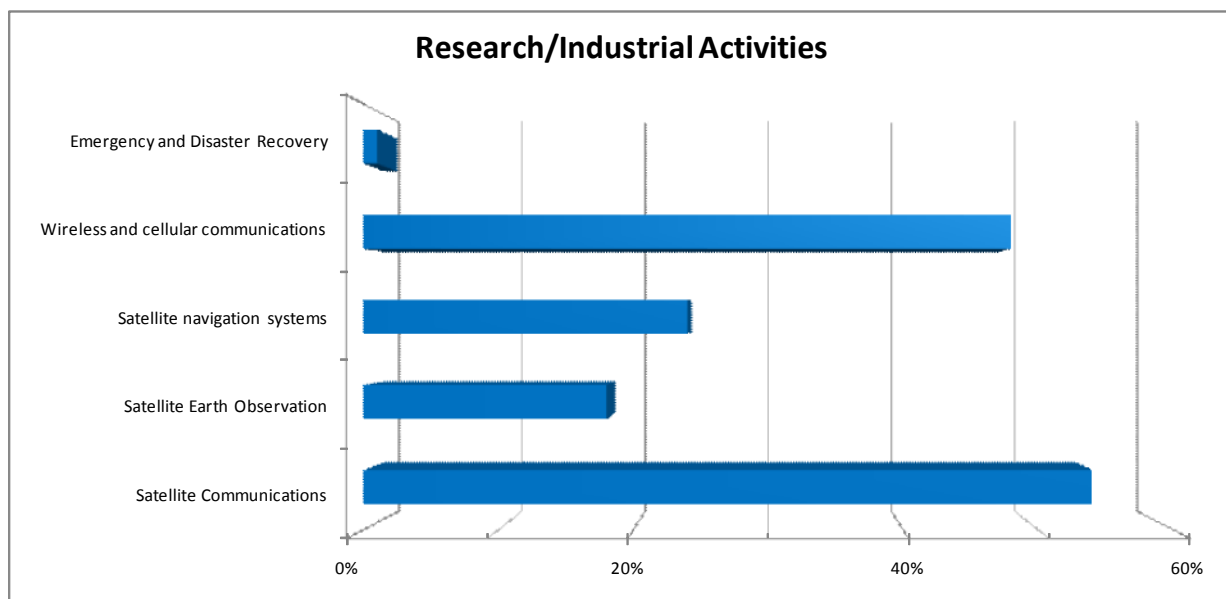
Hundred ISI Members belonging to eighty-five different organizations replied to the Survey. This result exceeds far the expectations and shows the interest of members in being active part of ISI Platform. The collected data are very interesting to understand the members' expectations also on the basis of their field of expertise and to provide recommendations for addressing the ISI future work. In the following, the most significant results are reported.

Figure 7 reports the interest of ISI member in participating the ISI Platform which ranges over a wide variety of topics. In particular, ISI members have expressed their opinion related to their motivation to participate in ISI, classifying the topics by priority. The collected data show that they turn to be interested in being active in ISI mainly to have the opportunity to create new consortia for international projects (priority 4.59), to contribute to the definition of EC programmes (priority 4.08) and to monitor the SatCom industry in order to identify research priorities (priority 4.04).



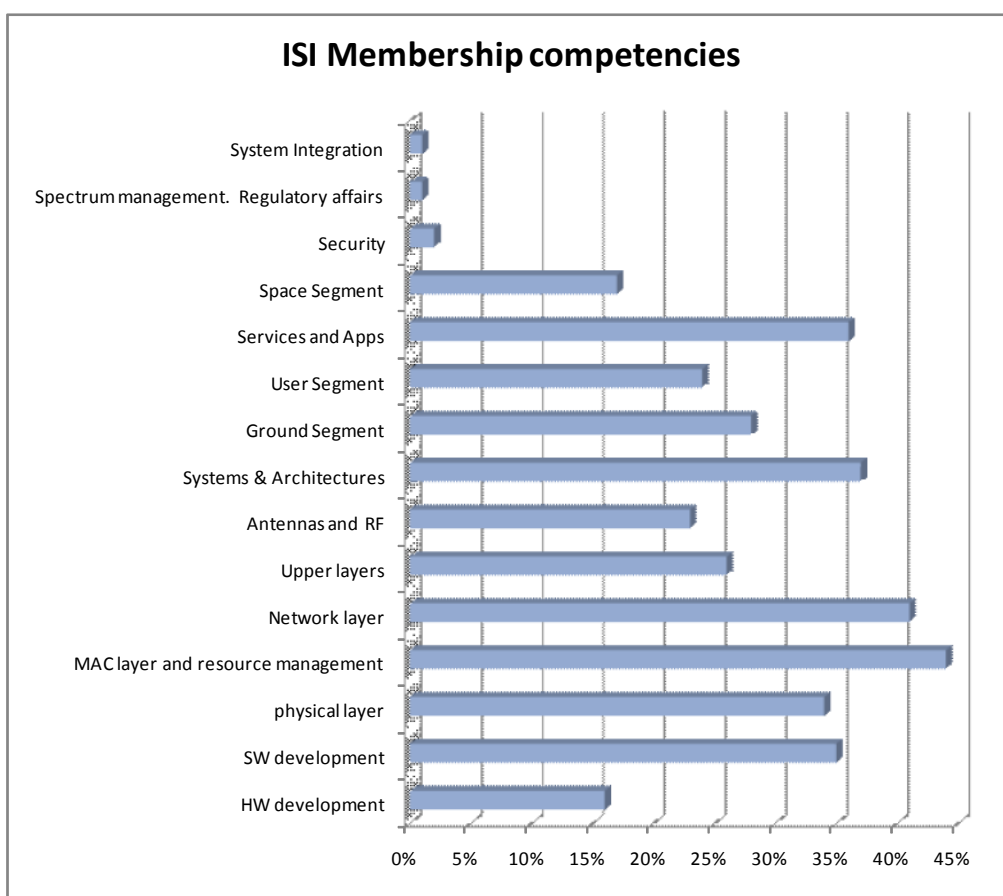
**Figure 7: ISI Membership interest**

Figure 8 reports the aggregated results regarding the field where ISI members currently carry out their research and industrial activity. In particular, ISI Membership is mainly involved in satellite and wireless communications areas. It is worth noting that the percentage of ISI member involved in Emergency and Disaster recovery is very low against an increasing demand of satellite communications in this field. This shows the need to involve entities and representative active in this area to enlarge the range of key activities carried out by ISI Membership in cooperation with the Platform.



**Figure 8: ISI Membership Research/Industrial Activities**

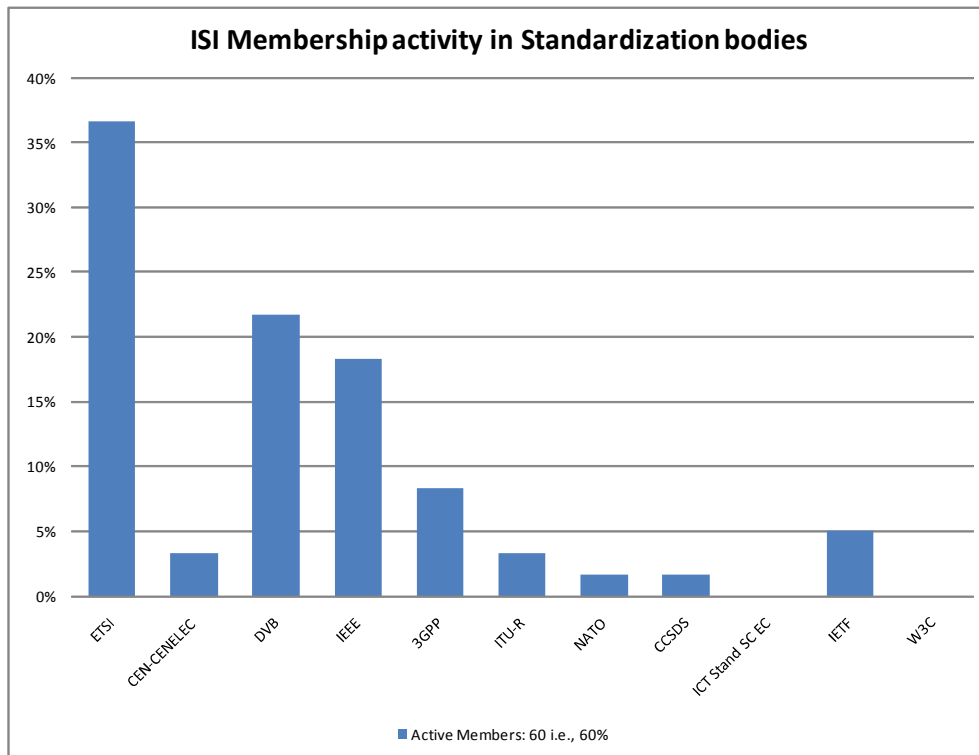
Figure 9 shows the field of expertise of ISI membership. ISI members' competencies range over a wide variety of topics: MAC layer and resource management, Network layer, Service and Applications, System & Architectures, etc. Such result confirms the great potential and the heterogeneous and large expertise present within ISI and it shows how ISI has become the aggregator of the SatCom community.



**Figure 9: ISI Membership field of expertise**

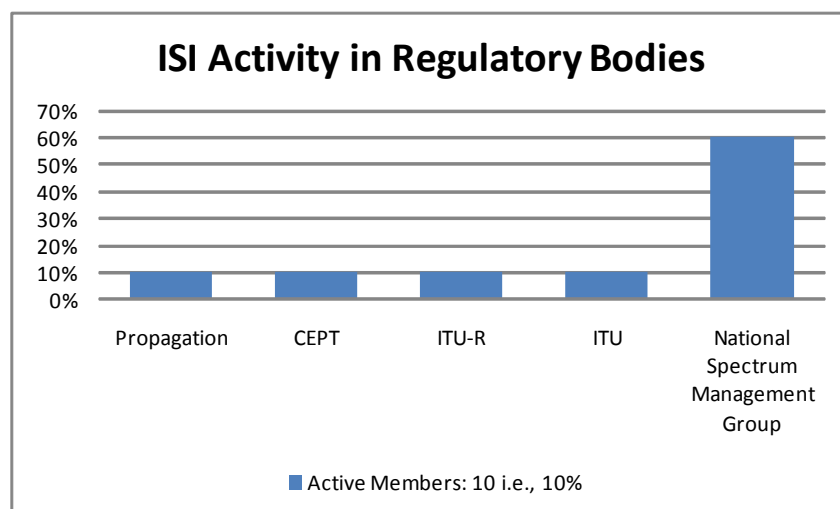
Finally, Figure 10 and Figure 11 show the activity carried out by ISI Membership within standardization and regulatory bodies, respectively.

ISI Membership is very active in standardization bodies, in particular ETSI, DVB and IEEE where standardization activities related to satellite communications and satellite integration with terrestrial networks are carried out. Such result shows how ISI community actively contribute to the promotion and introduction of satellite-based systems in the new standards.



**Figure 10: ISI Membership activity in Standardization Bodies**

ISI Membership is also active in regulatory bodies, in particular the National Spectrum Management Group which deals with spectrum management related also to satellite communications.



**Figure 11: ISI Membership activity in Regulatory Bodies**

A further consultation is envisaged to be launched during the second year of the project which will have the purpose to deepen the knowledge of members' interest to reinforce their involvement within ISI. In particular, the new survey will be enriched with new topics aiming at showing and analyzing the gap between the overall ISI Membership profile and the emerging SatCom areas. This is a key point which will be useful to understand the new areas on which ISI activities should be focused.

### **European SatCom training survey**

The ISI SatCom training survey aimed at identifying the actual offer coming from the ISI community regarding training and educational courses in order to increase their visibility at international level as well as identify the gap present in this field related to new SatCom trends and new emerging SatCom areas development. In particular, data collected in this survey will be used to:

- set up a data base of training and educational courses offered by ISI members in Europe;
- analyze the gap come out from the collection of data on available courses;
- identify the potential divide to be covered in Europe between satellite communication training and the emerging satellite communication systems and architectures;
- support ISI promotion activities.

The ISI SatCom training survey was opened on April 2011 through the advertisement on the ISI Platform Web site and the invitation, sent to all ISI members, to respond to the survey, and it was closed on August 2011. The collected data are very interesting to identify missing training opportunities which could be offered by ISI member in Europe and to provide recommendations for addressing the ISI future work.

During the first consultation, only eight ISI Members replied to the Survey but a further consultation is envisaged to be launched during the second year of the project with the purpose to collect more data on the current educational offer in order to have a clearer and more complete view on this issue. In particular, the new survey will be enriched with new items aiming at better identifying the topics addressed by the courses in order to analyse the potential gap in the Educational field related to SatCom and between the training offer and the emerging satellite communication areas. Moreover, the new consultation will aim at gathering more information about the ISI members' expectations in training.

### **2.2.4.5 Deviations and proposed corrective actions**

Deviations	Proposed corrective actions
Although not planned, TAS-F undertook some activities in this WP4 in order to provide support to Unibo and meet the planned objectives. In particular TAS-F provided a support to define the ISI SatCom day concept	No corrective actions are necessary
D4.5.1 SatCom Event Report - 1 <sup>st</sup> year delayed. The SatCom event was held on October 18-19, 2011 in agreement with the ISI steering council decisions; hence it was impossible to submit the Event report at the foreseen deadline. A draft version was indeed submitted indicating the	The deliverable will be produced after the event and made available to the Reviewers before the technical review. This procedure was agreed with the Project Officer in advance.

reason of the delay and reporting all of the information already available.	
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## 2.2.5 WP5 Support to ISI ETP operation

This work package includes all necessary activities related to the ISI secretariat function. This corresponds to the organization of meetings for all Governance bodies, the management of membership and renewal of bodies, the update of the governance model when needed, the editing and dissemination of announcement, like news letters.

### 2.2.5.1 Use of resources

	<i>TAS-F</i>	<i>DLR</i>	<i>UNIBO</i>	<i>SPH</i>	<i>ROSE</i>	<i>TPZ</i>	<i>AS</i>	<i>Total</i>
<i>Planned PM</i>	0				4			4
<i>Actual PM</i>	0.5 (*)				3,84			2,84
<i>%</i>	-				96% (**)			108%

(\*) see comments in section 2.2.5.5

(\*\*) However this figure of 96 %, it should not be interpreted as all resources have been spent, but just the difference between estimated manpower and actual dedicated manpower, although the costs associated to the spent resources represent a percentage about 47 %. This means, more hours have been dedicated to the tasks, although the cost of the hour is less than originally estimated.

### 2.2.5.2 Summary of progress towards objectives

#	Objectives	Progress summary
1	Carry out the necessary activities for the normal operation of the ISI ETP, acting as the formal secretariat of the ISI ETP.	All the following activities compose the secretariat function of the ISI ETP, and as it can be seen, these activities have been carried out in line with the objectives.
2	Control of ISI Membership, ISI Governance Model, Implementation of the ISI Governance rules	<p>During this period (M5-M12) FISI has supported and coordinated the election process for ISI WGs leaders as well as an important modification of the ISI WGs structure, which implied the update of the ISI governance rules (Following the decisions and mandates from ISI constituency agreed in the General Assembly held in Brussels in November 2010).</p> <p>The elections took place in the ISI GA organized in June 2011 and the result has been a smooth transition from the former WGs structure and leaders to the current one.</p> <p>ISI membership has also been managed as expected. 8 new members have joined ISI during this period.</p>
3	Provide support to ISI SC and ISI GA by drafting agendas, minutes of the meetings and organization of the audio conferences	During this period (M5-M12) FISI has supported the normal operation of ISI by supporting ISI SC and GA in different ways, but mainly in the organization of meetings and conference calls. During this period, 7 ISI SC conference calls, 1 ISI SC physical meeting and 1 ISI GA have been organized.
4	Provide support to ISI to foster ISI representation at relevant meetings and fora	<p>During this period, FISI has produced 3 press releases:</p> <ul style="list-style-type: none"> <li>- 12<sup>th</sup> ISI GA and third EU SatCom day held on</li> </ul>

		<p>November-December 2010.</p> <ul style="list-style-type: none"> <li>- ETP Sherpa Workshop held on February 18<sup>th</sup> 2011.</li> <li>- European forward looking activities: Insights for building the future of Innovation Union and ERA</li> </ul> <p>FISI has also supported the participation of ISI in the following events and conferences:</p> <ul style="list-style-type: none"> <li>- ICT 2010.</li> <li>- FIA Ghent 2010.</li> <li>- The FUNEMs Conference.</li> <li>- FP7-CELTICplus proposers' day on 14 June 2011.</li> <li>- The ASMS Conference 2011.</li> <li>- 4th EU SatCom day.</li> </ul> <p>Some of the entities that have been monitored by FISI are:</p> <ul style="list-style-type: none"> <li>- EC – DG INFSO Communications.</li> <li>- Future Internet Initiative: Newsletter and attending events organized by the EC.</li> <li>- ETSI: Mailing lists, forwarding relevant info to ISI members.</li> <li>- ESOA: Attending meetings, forwarding relevant documents from ESOA to ISI members and cooperating in joint ESOA-ISI papers.</li> <li>- Other ETPs (NEM, Net!Works, NESSI): Newsletter, mailing lists and attending events.</li> </ul> <p>FISI has liaised with 7 projects mainly in order to maximize the promotion of ISI beyond EU borders in those regions or sectors of major importance for ISI.</p> <ul style="list-style-type: none"> <li>- FIRST: For the promotion of ISI in the Latin American region. Representation of ISI in the EU experts that are supporting the creation of technology platforms in Latin America.</li> <li>- Synchroniser: For the promotion of ISI in India. Representation of ISI in the Experts Advisory Council for the promotion of joint EU-India research.</li> <li>- Euro-Africa project: For the promotion of ISI in Africa.</li> <li>- MUSCADE: Promotion of ISI in the broadcasting sector.</li> <li>- MONET: Promotion of ISI among the mobile broadband stakeholders.</li> <li>- E-SPONDER: Promotion of ISI in the sectors of security and response to emergency/crisis.</li> </ul>
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		<ul style="list-style-type: none"> <li>- ESA ARTES 1 project “φSAT” (The Role of Satellite in Future Internet Services).</li> </ul>
5	Elaboration of regular newsletters	During this period (M5-M12) FISI has produced and published issues number 7 and 8 of the ISI newsletter. The production of the issue number 9 has also been initiated. About 1000 copies of each newsletter have been widely distributed, using business, innovation, policy, events as the target events for physical distribution of the newsletter, in addition to the dissemination through the website and email.
6	Provision of content for the official ISI website	<p>FISI has both produced original content as well as compiled content from WGs activities and ISI meetings in order to fill the ISI website with useful content for ISI members.</p> <p>Another source of content that FISI has used to feed ISI website are the documents produced by entities that were monitored by FISI such as those mentioned before (EC – DG INFSO, Future Internet Initiative, ETSI, ESOA, other ETPs).</p> <p>Currently the ISI website contains the following folders/documents:</p> <ul style="list-style-type: none"> <li>- ISI Standardization and Regulation Bulletin (22 Files)</li> <li>- ISI Policies Monitoring Support - sISI WP1 - 2009 (45 Files)</li> <li>- Working Groups (33 Files)</li> <li>- ISI Newsletter (8 Files)</li> <li>- Governance Documents (11 Files)</li> <li>- Events (168 Files)</li> <li>- ISI Election Procedure and Forms (5 Files)</li> <li>- ISI Strategic Research Agenda &amp; White Papers (13 Files)</li> <li>- Restricted Access Documents (35 Files)</li> <li>- News Documents (9 Files)</li> </ul>

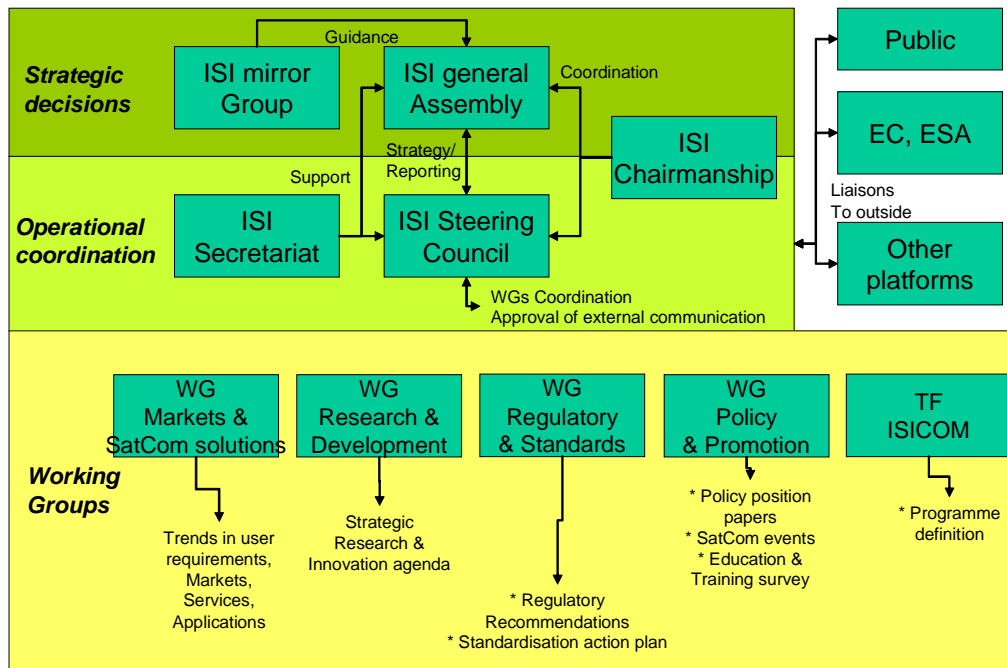
### 2.2.5.3 Details for each task

#### T5.1 Governance and Membership Management (Resp. ROSE)

TAS-F initiated the definition of a new WG structure and proposed the description of the new Working Group responsibility and objectives.

The last revision of the ISI governance rules was undertaken in October 2009 when version 1.8 of the governance rules was presented and approved in the 11<sup>th</sup> ISI GA that took place in Sophia Antipolis (ETSI premises) on November 2<sup>nd</sup> – 3<sup>rd</sup>.

The ISI community decided at its 13<sup>th</sup> GA (Brussels, November 30<sup>th</sup> 2010) that it was necessary to implement a modification in the WGs structure in order to improve the participation of ISI members in the WGs and to clarify the objectives and responsibilities associated to each WG. A new WGs structure was suggested by the ISI Steering Council and approved by the General Assembly. The new ISI structure is described in the following figure:



ISI members approved the proposed structure which has been implemented during 2011.

FISI has supported ISI by drafting the **new version of the ISI governance rules (v2.1)** which implements the decisions taken at this GA. This version of ISI governance is currently in revision by the ISI SC. The changes that have been made to the governance of ISI are described in the following tables:

ISI Governance section	Changes made in the revision
Section 1: The ISI General Assembly	No changes
Section 2: The Steering Council	No changes
Section 3: ISI Working Groups	<p><b>No changes to clause 3.1:</b> ISI will establish a number of Working Groups to progress specific issues which are important to its mission and for the successful implementation of the ISI Strategic Research Agenda.</p> <p><b>No changes to clause 3.2:</b> ISI may change its Working Group structure, roles and responsibilities in the future; it may create new Working Groups or close existing Working Groups. In the first instance, decisions on these matters will be the responsibility of the Steering Council. However, such decisions will be subject to final ratification by the General Assembly.</p> <p><b>No changes to clause 3.3:</b> Each Working Group shall be led by a representative of an ISI member, elected by the General Assembly. Each Working Group Leader shall be assisted by a Working Group Vice-Leader, also elected by the General Assembly.</p> <p><b>No changes to clause 3.4:</b> Working Group Leaders elections shall take place bi-annually.</p> <p><b>Changes made to clause 3.5:</b> Details on modifications made are presented below this table.</p>

	<p><b>No changes to clause 3.6:</b> All Working Groups will address the full range of SatCom applications and services, including mobile, broadcast and broadband/fixed services, for both commercial and institutional markets, including in particular Security applications.</p> <p><b>No changes to clause 3.7:</b> All Working Groups will be responsible for building good working relations with other groups outside ISI having common interests, e.g other Technology Platforms, user and standards fora, regulatory bodies, Galileo, GMES etc...</p> <p><b>No changes to clause 3.8:</b> The Leaders of the Working Groups will co-operate together as necessary to progress matters of common interest which affect more than one Working Group.</p> <p><b>No changes to clause 3.9:</b> Each Working Group Leader will report annually to the General Assembly on the activities and future plans of their Working Group.</p> <p><b>No changes to clause 3.10:</b> Each Working Group Leader will report quarterly to the ISI Chairperson on the activities and future plans of their Working Group.</p>
Section 4: The ISI Chairperson and vice-chairperson	No changes
Section 5: The ISI Secretariat	No changes
Section 6: Other matters	No changes

Changes made to clause 3.5 are shown here bellow:

Initial version	Final version
<p><b>3.5.1 Regulatory</b> Matters Working Group: The Regulatory Matters Working Group will address: Issues of Regulation, Standardisation, and Spectrum which are relevant for ISI. The activities of relevant regulatory and standardization bodies. Actions to be performed towards regulatory and standardization bodies to support ISI objectives. Regulation and standardization events of interest for the ISI membership. ISI position papers and contributions to regulatory and standardization bodies. Relevant regulatory, standardisation and</p>	<p><b>3.5.1 Regulatory &amp; standards</b> Working Group: The Working Group has the following <b>objectives</b>: Identify the regulatory issues that may affect the deployment of future SatCom Identify potential barriers in relevant European standardisation organisations for ISI members to smoothly develop standards for future SatCom systems, services and applications.</p> <p>The <b>responsibilities</b> of the Working Group are: Monitor the activities and events of regulatory and standardization bodies of interest for the ISI membership.</p>

<p>spectrum entities, bodies and organizations which may conduct work of interest to ISI.</p> <p>Active participation by the ISI community (individual members and collective representation from ISI) in relevant meetings of interest.</p> <p>Maintenance of a repository on relevant standardization and regulatory bodies, organizations and Committees.</p> <p>Liaison with other entities, including FP6 and FP7 projects working in the satellite domain, on regulatory and standardization issues.</p>	<p>Promote and coordinate actions to be performed towards regulatory and standardization bodies to support ISI objectives. Specific technical contributions to standardization bodies would be conducted under the R&amp;D Working Group.</p> <p>Promote the production of ISI position papers and other contributions to regulatory and standardization bodies.</p> <p>Create and maintain an active liaison with relevant regulatory, standardisation and spectrum entities, bodies and organizations which may conduct work of interest to ISI, including FP7 and other projects (FI PPP, Celtic-plus) working in the satellite domain, on regulatory and standardization issues..</p> <p>Inform to the ISI community (individual members and collective representation from ISI) on opportunities for participation in organizations and meetings of interest.</p> <p>Maintenance of a repository on relevant standardization and regulatory bodies, organizations and committees as well as a list of events of interest to ISI members</p>
<p><b>3.5.2 Users Working Group:</b></p> <p>The Users Working Group will address:</p> <p>User Requirements.</p> <p>Markets, market opening and development, and assessment of market potential.</p> <p>Identification of new markets for satcom, including commercial, institutional and dual use.</p> <p>Current and future services and applications.</p> <p>Relations with ISI users and other user groups.</p> <p>Education and training.</p> <p>Trials and demonstrations.</p> <p>Involving users in the ISI research agenda.</p> <p>Commercial assessment of new and emerging technologies.</p> <p>Establishing links with Service Providers.</p>	<p>WG removed</p>
<p><b>3.5.3 R&amp;D Working Group</b></p> <p>The R&amp;D Working Group will address:</p> <p>Further development of the ISI Strategic Research Agenda (SRA).</p> <p>Ensuring that the key priorities of the SRA are acted on and progressed.</p> <p>Monitoring R&amp;D project opportunities.</p>	<p><b>3.5.3 R&amp;D Working Group</b></p> <p>The Working Group has the following <b>objectives</b>:</p> <p>Maintain and update ISI strategic Research Agenda and ensure its implementation.</p> <p>The <b>responsibilities</b> of the</p>

<p>Co-ordination of research proposals. Support and advice to the EC, ESA and other entities regarding future research programmes. Technical assessment of new and emerging technologies. Co-ordination of the procedure for issuing ISI labels on project proposals.</p>	<p>Working Group are:</p> <p>Define, maintain and promote and monitor the implementation of the strategic research &amp; innovation agenda of the European SatCom Industry.</p> <p>Ensuring that the key priorities of the SRA are acted on and progressed.</p> <p>Monitoring R&amp;D project opportunities.</p> <p>Coordinate SatCom related EC R&amp;D project proposals:</p> <ul style="list-style-type: none"> <li>• Facilitate complementarities between EC R&amp;D project proposals (e.g. ICT, Space and security within FP7).</li> <li>• Issuance of ISI labels on project proposals.</li> </ul> <p>Identify and prioritise European SatCom industry's research and innovation, in line with inputs for WG Market and SatCom solutions</p> <p>Coordinate and foster common technical inputs from ISI Community to relevant standardization bodies, when related to research projects or innovation initiatives.</p> <p>Support and advice to the EC, ESA and other entities regarding future research programmes.</p> <p>Liaise with relevant R&amp;D financial institutions: EC DGs (Info, Enterprise, Research), ESA, National Space Agencies, CELTIC, and others</p>
<p><b>3.5.4 Security Working Group</b> The Security Working Group will address: A Comprehensive implementation of SatComs security strategies at National, European and International levels. Follow those relevant National, European and international initiatives and forums dealing with Security aspects. Promote the development of new satellite technologies to deal with future Security applications. Support Kopernikus and Galileo for emergency and security scenarios in connexion with SatComs. Promote the Dual Use of Space technologies facing civilian and military applications.</p>	<p>WG removed</p>
<p><b>3.5.5 Future Internet Working Group</b> The Future Internet Working Group will address: Monitoring and support of EC policies on</p>	<p>WG removed</p>

<p>Future Internet</p> <p>Monitoring and support of National policies on Future Internet</p> <p>Monitoring and participation to Future Internet related inter-ETP meetings and assemblies</p> <p>Identification and promotion of SatCom added value and potential role in the Future Internet according to the different scenarios and use cases envisaged</p> <p>Interaction and cooperation with other ETPs for production of Future Internet related documents at inter-ETP level, such as the Vision Document and the Strategic Research Agenda</p> <p>Coordination of ISI members' contributions in the Future Internet domain</p> <p>Liaison with ISI Regulatory Working Group for identification of necessary standardisation and regulatory action plans in relation with identified satcom evolutions for Future Internet</p> <p>Liaison with ISI R&amp;D Working Group for proper update of ISI SRA in order to take into account the inter-ETP SRA priorities on Future Internet</p> <p>Support to ISI members for research proposals in the Future Internet domain</p> <p>Support and cooperation with ESA on Future Internet related activities</p>	
	<p><b>3.5.2 Market &amp; SatCom solutions</b> Working Group:</p> <p>The Market and SatCom solutions Working Group has the following <b>objectives</b>:</p> <p>Identify the positioning of future SatCom solutions in 3 domains: Security, Broadband for all, Future Internet (including hybrid solutions). Provide related recommendations for:</p> <ul style="list-style-type: none"> <li>• Missions and user needs (e.g. ISICOM)</li> <li>• Identification of relevant R&amp;D themes</li> </ul> <p>The <b>responsibilities</b> of the Working Group are:</p> <p>Identify the trends in mission requirements, services and applications associated to the domains. Consolidate these trends with the appropriate user groups Create and maintain liaisons with:</p> <ul style="list-style-type: none"> <li>• Relevant user &amp; industry groups: e.g. PSCE forum, Broadband forum, FIA.</li> <li>• Relevant cluster groups organised by</li> </ul>



	the European Commission
	<p><b>3.5.4 Policy and promotion Working Group</b>  The policy and promotion Working Group has the following <b>objectives</b>:</p> <p>Promote the need for financial support for European SatCom industry's research and innovation activities towards the European institutions.</p> <p>Promote the ISI activities, including the ISICOM programme.</p> <p>The <b>responsibilities</b> of the Working Group are:</p> <p>Monitoring of European policies: Position papers in response to relevant SatCom related proposed policies.</p> <p>Support the organisation of SatCom events in Europe with content/agenda definition</p> <p>Survey on SatCom related competence (SMEs, Research centres and Manufacturers), education, training in Europe.</p> <p>Create and maintain liaisons with:</p> <ul style="list-style-type: none"> <li>• Relevant European commission entities: e.g. DG INFSO, DG ENTR, etc.</li> <li>• Relevant European Parliament committees and inter-groups.</li> <li>• Related groups: e.g. ESOA, Eurospace, ESPI, Kangaroo Group</li> <li>• Space agencies: ESA, national entities.</li> </ul>
	<p><b>3.5.5 ISICOM Task Force</b>  The ISICOM Task Force is an ad-hoc Working Group created with the following objectives:</p> <p>Propose the ISICOM program initiative:</p> <ul style="list-style-type: none"> <li>• In line with the recommendations and inputs of the market and SatCom solutions WG.</li> <li>• Including mission and capacities, architecture and roadmaps.</li> </ul> <p>Prepare and propose the elements needed for ISICOM related communication towards EC and ESA.</p> <p>The Task Force will produce the necessary documents as well as create liaisons with relevant bodies, with particular focus on potential funding agencies in Europe such as the European Investment Bank and other</p>

	organizations.
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ROSE has assumed this task as part of its responsibilities as ISI secretariat. The updated version of the ISI governance rules will be officially presented and approved at the 15<sup>th</sup> ISI GA on October 18<sup>th</sup> 2011 in Brussels.

During this period (M5-M12) FISI has also supported and coordinated the election process for ISI WGs leaders. The elections took place in the ISI GA organized on 15 June 2011 and the result has been a smooth transition from the former WGs structure and leaders to the current one.

In order to launch and coordinate the election process, the following actions were performed:

- Produce the document: “ISI\_Election-procedures\_2011 (WGs Leaders)” where the entire bases for the elections were presented to the ISI community. The document was sent to the ISI Steering Council for approval on February 21<sup>st</sup> 2011 and it was formally approved and distributed to the ISI community on March 5<sup>th</sup> 2011, more than 3 months before the elections took place.
- Produce the document: “WGLeader\_candidature\_form\_2011”. This document was sent to the ISI Steering Council for approval on March 5<sup>th</sup> 2011. The candidature form was distributed to the ISI community on March 15<sup>th</sup> 2011 together with the first official announcement of the elections to the WGs leader positions. All the documents were sent by e-mail and were also made available in the ISI website.
- Several reminders were sent to the ISI community in the following weeks until April 29<sup>th</sup> 2011 (17:00 CET) which was set as the deadline for receiving candidatures.
- Once the deadline was closed, all the candidatures to the different WGs were communicated to the ISI community.
- Finally, during the ISI GA on June 15<sup>th</sup> 2011, the elections took place and the new WGs assumed their respective responsibilities.

The secretariat was congratulated by the ISI chairman for the smooth and transparent way in which the elections were prepared and conducted thanks to the support of FISI.

During this period FISI has also contributed to the maintenance of the ISI constituency database and mailing lists having added 3 new members to the ISI mailing lists in this period. The new member that joined ISI in this period is:

COM DEV Europe Ltd.  
TNO  
INTERINNOV

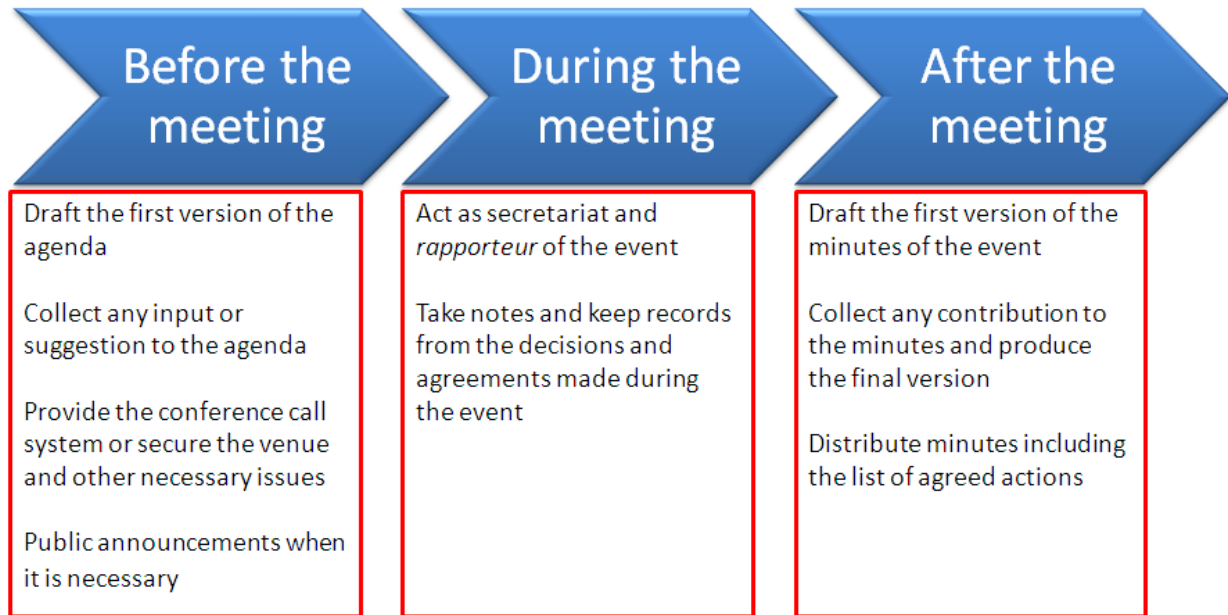
## **T5.2 Steering committee and general assembly secretariat (Resp. ROSE)**

The aim of this task is to provide the ISI secretariat function in respect of organizing meetings for all ISI internal bodies, managing the outcomes of those meetings in terms of minutes and actions and disseminating the results to interested parties.

This task supports the organization of ISI meetings for different ISI internal bodies (namely ISI SC and GA at least), by promoting/facilitating active participation of ISI members and stakeholders. To this end, tight coordination between the ISI secretariat and ISI Chair and Vice-Chair persons, Steering Council and WG leaders has been necessary.

In the following figure it can be seen the main activities that are involved in the preparation of a generic

meeting (conference call or physical meeting):



During this period (M5-M12) FISI has supported ISI in the organization of **7 ISI SC conference calls, 1 ISI SC physical meeting and 1 ISI GA**. The following table shows the summary of dates and objectives of each one of the meetings:

Events				
#	Name	Date	TAS-F and ROSE activities	Objectives / Ag. points
1	ISI SC conference call	January-11 <sup>th</sup> 2011	Agenda and minutes	<ul style="list-style-type: none"> <li>- Organisation of the GA co located with the FuNEMS</li> <li>- Strategic Research Agenda revision</li> <li>- ISI policy and promotion</li> <li>- XETP Workshop on 18th of February</li> <li>- Comments to "innovation Europe" European communication</li> <li>- ISI response to Public consultation on a possible successor to the Competitiveness and Innovation Framework Programme (CIP)</li> <li>- ISICOM concept consolidation</li> <li>- Identification of new spectrum opportunity</li> <li>- Analysis on Q/V band spectrum opportunity</li> <li>- Implementation of the new WG structure</li> </ul>
2	ISI SC conference call	February-14 <sup>th</sup> 2011	Agenda and minutes	<ul style="list-style-type: none"> <li>- Organisation of the GA co located with the FuNEMS</li> <li>- Strategic Research Agenda revision</li> <li>- ISI promotion and policy</li> <li>▪ <i>X-ETP Workshop on 18th of February</i></li> <li>▪ <i>Comments to "innovation Europe" European communication</i></li> <li>▪ <i>ISI response to Public consultation on a possible successor to the Competitiveness and Innovation</i></li> </ul>

Events				
#	Name	Date	TAS-F and ROSE activities	Objectives / Ag. points
				<i>Framework Programme (CIP)</i> - ISICOM concept consolidation - Implementation of the new WG structure
3	ISI SC conference call	March-24 <sup>th</sup> 2011	Agenda and minutes	- Organisation of the GA co located with the FuNEMS - Organisation of the next GA (18 and 19th October 2011) - Strategic Research Agenda revision - ISI promotion and policy ■ <i>X-ETP Workshop on 18th of February</i> ■ <i>Comments to "innovation Europe" European communication</i> ■ <i>ISI response to Public consultation on a possible successor to the Competitiveness and Innovation Framework Programme (CIP)</i> - ISICOM concept consolidation - Implementation of the new WG structure
4	ISI SC conference call	April-12 <sup>th</sup> 2011	Agenda and minutes	- Organisation of the GA co located with the FuNEMS - Organisation of the next GA (18 and 19th October 2011) - Strategic Research Agenda revision - ISI promotion and policy ■ <i>Green paper: xETP contribution, ISI response, ISI position paper</i> - ISICOM concept consolidation
5	ISI SC conference call	May-10 <sup>th</sup> 2011	Agenda and minutes	- Organisation of the GA co located with the FuNEMS - Organisation of the next GA (18 and 19th October 2011) - Strategic Research Agenda revision - ISI promotion and policy ■ <i>Green paper: xETP contribution, ISI response, ISI position paper</i> - ISICOM concept consolidation
6	Review of the response to the Green paper	May-16 <sup>th</sup> 2011	Agenda and minutes	Ad hoc conference call convoked to review the latest version of the ISI response to the Green paper published by the EC.
7	ISI SC conference call	June-7 <sup>th</sup> 2011	Agenda and minutes	- Organisation of the GA co located with the FuNEMS - Organisation of the next GA (18 and 19th October 2011) - Strategic Research Agenda revision - ISI promotion and policy ■ <i>Consultation on Common Strategic Framework (Green paper)</i> ■ <i>ICT xETP innovation agenda</i> ■ <i>Consultation on the Revision of the community guidelines for state aid in deployment of broadband networks</i> ■ <i>Consultation on future research challenges in the communication networks area</i> - ISICOM concept consolidation
8	ISI SC physical meeting	June-15 <sup>th</sup> 2011	Agenda and minutes	- Organisation of the GA co located with the FuNEMS

Events				
#	Name	Date	TAS-F and ROSE activities	Objectives / Ag. points
				<ul style="list-style-type: none"> <li>- Organisation of the next GA (18 and 19th October 2011)</li> <li>- Strategic Research Agenda revision</li> <li>- ISI promotion and policy <ul style="list-style-type: none"> <li>▪ <i>ICT xETP innovation agenda</i></li> <li>▪ <i>Consultation on the Revision of the community guidelines for state aid in deployment of broadband networks</i></li> <li>▪ <i>Consultation on future research challenges in the communication networks area</i></li> </ul> </li> <li>- ISICOM concept consolidation</li> </ul>
9	ISI GA in Warsaw	June-15 <sup>th</sup> 2011	Agenda and minutes	13 <sup>th</sup> ISI GA co located with the FuNEMS Conference
	ISI Technical session within FUNEMS Conf.	June-16 <sup>th</sup> 2011	Agenda and minutes	<p><b>Title for Workshop:</b> Advanced hybrid SatCom-terrestrial networks in response to institutional missions</p> <p><b>Abstract:</b> Innovative hybrid SatCom-terrestrial architectures will make possible global, secure and dependable communication to serve institutional demand in the domain of security.</p> <p>This session will provide a comprehensive vision of the main challenges and objectives pursued and requirements of the institutional end users as well as research perspectives at both technology and architecture level to enable progress in system capabilities.</p> <p>In addition, it will highlight the added value of SatCom with respect to terrestrial communications for security needs.</p>
10	ISI SC conference call	July-5 <sup>th</sup> 2011	Agenda and minutes	<ul style="list-style-type: none"> <li>- Organisation of the next GA (18 and 19th October 2011)</li> <li>- Strategic Research Agenda revision</li> <li>- ISI promotion and policy <ul style="list-style-type: none"> <li>▪ <i>Consultation on Common Strategic Framework (Green paper)</i></li> <li>▪ <i>ICT xETP innovation agenda</i></li> <li>▪ <i>Consultation on the Revision of the community guidelines for state aid in deployment of broadband networks</i></li> <li>▪ <i>Consultation on future research challenges in the communication networks area</i></li> </ul> </li> <li>- ISICOM concept consolidation</li> </ul>

The arrangements for the next ISI GA and SatCom day (Both to be organized in Brussels in October 2011) were also initiated during this period, launching a draft agenda booking the rooms for the events and distributing invitations to key-note speakers.

All Steering Council meeting/conference call as well as General assembly agendas were proposed by TAS-F and reviewed by ISI SC members.

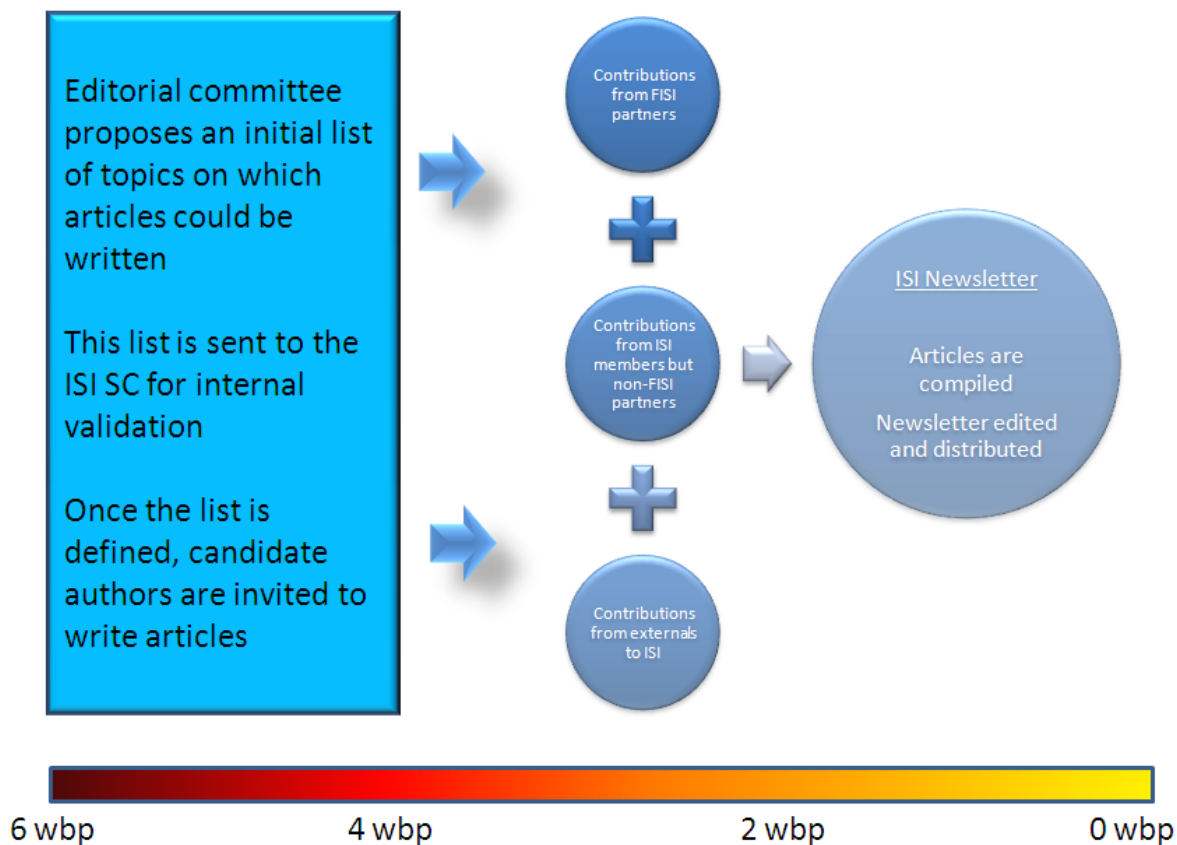
### **T5.3 Marketing support: ISI Newsletters (Resp. ROSE)**

The ISI newsletter ('ISI Informs') was launched by the previous ISI support action sISI as one of the main ways of maintaining ISI community updated and other European and international stakeholders informed on main ISI issues and activities.

ISI Informs is also intended to keep informed European Space (including Satellite Communications) Industry with the most outstanding news, articles and relevant events in the SatCom field, as well as ISI activities.

**During this period (M5-M12) FISI has produced and published issues number 7 and 8 of the ISI newsletter.** The production of the issue number 9 has also been initiated. Each one of these issues has been distributed to all ISI members and key external stakeholders, as well as made available in the ISI website. Two versions of the ISI Informs newsletter are produced for each issue: the printed version and the web reading-friendly version for distribution through electronic means.

The process for producing the newsletter is described in the following picture and table:



Wbp: Weeks Before Publication

ROSE has led the whole process from the initial draft list of potential articles to the design, production, compilation and elaboration of the ISI Newsletters "ISI Informs". The following table presents with more detail which are the activities undertaken in the production of each ISI newsletter:

Week	Phase/activity	Description
-6	Design and initial draft of topics	In this phase the editorial team receives a first proposal of article topics for the newsletter elaborated by ROSE. The editorial team (composed mainly by the ISI chairman and WG Leaders) validates the initial proposal and contributes to it with additional topics and modifications to the initial

		<p>proposals.</p> <p>This phase is concluded as soon as the ISI SC approves the list of topics and the potential authors of each article are contacted.</p>
-4	Authors writing contributions	<p>This phase starts with the communication from ROSE to the potential authors. The duration of this phase is variable but generally it lasts between 2 and 3 weeks. The phase ends as soon as enough articles are received and the deadline for receiving articles is reached.</p> <p>It is quite common that not all the authors meet the proposed deadline or are available to write the proposed article. This is why the initial list of proposed articles must include at least 3-5 additional topics than it would be necessary in order to manage the risk of authors not meeting the deadline.</p>
-2	Editorial and production phase	<p>Once enough articles have been received and the deadline has been reached, the editorial and production phase is initiated.</p> <p>In this phase articles are arranged in the document, pictures are inserted, aesthetics are decided and other minor details are closed.</p> <p>Each time major modifications are made to the document an electronic dummy version is sent to the ISI SC for validation and approval or new suggestions for improving it.</p> <p>This phase ends once the ISI SC approves the final version of the ISI newsletter in electronic format.</p>
0	Publication and dissemination	<p>In this phase the ISI newsletter is distributed in electronic format. Make available through the website and sent to ISI members through e-mail.</p> <p>Printed copies are distributed in key events if it is considered necessary.</p>

During this period (M5-M12) two newsletters have been produced, and it is already expected that **during the 2<sup>nd</sup> semester of 2011, two more issues will be produced.**

Most of the content included in the newsletters has been prepared thanks to the contributions of FISl partners and ISI members, although other external contributions have also been requested and included (EC, ESA, GVF, etc.).

Hereafter, a brief summary of the content included in the newsletters produced by FISl.

Index of contents and contributors included in the 7<sup>th</sup> issue:

- ISI 12th General Assembly meets with the European Parliament

- Nicolas Chuberre, Thales Alenia Space - France
- FP7 Call8: an opportunity for SatCom
  - Pertti Jauhiainen, European Commission, DG INFSO
- European Parliament visit ISI SatCom day: Funding scheme options for SatCom serving EU policies
  - Mrs. Edit Herczog, Member of the European Parliament
- The SatCom Regulatory landscape (L band debates)
  - Dr. Julián Seseña, ROSE Vision
- Satellite imagery as a tool in consular protection and assistance
  - Mr. Giorgio Porzio, EU Situation Centre
- ISI: a very active European Technology Platform Working Groups re-structuring
  - Dr. Julián Seseña / Sara Muñoz / Antonio Alfaro, ROSE Vision
- ESOA Vision on SatCom/Digital Agenda
  - Aarti Holla, ESOA
- Financing R&D and innovation in the next EU financial framework
  - Antonio Alfaro, Rose Vision
- Events

Index of contents and contributors included in the 8<sup>th</sup> issue:

- The time for European SatCom research
  - Luis Rodríguez-Roselló, Head of Unit "Future Networks", DG-Information Society and Media – European Commission
- Revised ISI Strategic
  - Pertti Jauhiainen, DG-Information Society and Media – European Commission
- The SatCom Contribution to Emergency Applications
  - Maurizio Casoni, University of Modena and Reggio Emilia
- The Spanish ISI technology platform initiatives
  - Dr. Julián Seseña, ROSE Vision
- FP7 Projects: MUSCADE
  - Guillaume Berenger, Astrium EADS
- Improving Public Safety and Security
  - Melanie Monier
- Events



#### **T5.4 Project communication strategy (Resp. ROSE)**



Through this activity FISI supports the promotion of ISI as well as the dissemination of the ISI SRA and other ISI activities and documents towards relevant bodies/organizations. The main pillar of this activity is the development and update of the ISI communication strategy where ISI identifies those entities that should be monitored and briefed on ISI activities and results.

The first version of the **ISI communication strategy** was produced by FISI (Deliverable D.5.4.1), and it has been reviewed and updated 6 months after its first release taking into account the views and mandates from the ISI General Assembly, the ISI Steering Council and the European Commission. The next version of the communication strategy will be presented at the next ISI GA on October 2011.

As part of this strategy, during this period FISI has produced 3 press releases drafted and edited by TAS-F:

- 12th ISI GA and third EU SatCom day held on November-December 2010.
- ETP Sherpa Workshop held on February 18th 2011.
- European forward looking activities: Insights for building the future of Innovation Union and ERA

FISI has also supported the participation of ISI in the following events and conferences:

- ICT 2010.
- FIA Ghent 2010.
- The FUNEMs Conference.
- FP7-CELTICplus proposers' day on 14 June 2011.
- The ASMS Conference 2011.
- 4th EU SatCom day.

Some of the entities that have been monitored by FISI are:

- EC – DG INFSO Communications.
- Future Internet Initiative: Newsletter and attending events organized by the EC.
- ETSI: Attendance to meetings to strengthen the cooperation between research and standardization activities (TAS-F).
- ESOA: Forwarding relevant documents from ESOA to ISI members and cooperating in joint ESOA-ISI papers. Some ESOA members attended the 12<sup>th</sup> and the 14<sup>th</sup> General assemblies
- Other ETPs (NEM, Net!Works, NESSI): Newsletter, mailing lists and attending events.

FISI has liaised with 4 projects mainly in order to maximize the promotion of ISI beyond EU borders in those regions or sectors of major importance for ISI.

- FIRST: For the promotion of ISI in the Latin American region. Representation of ISI in the EU experts that are supporting the creation of technology platforms in Latin America.
- Synchroniser: For the promotion of ISI in India. Representation of ISI in the Experts Advisory Council for the promotion of joint EU-India research.
- Euro-Africa project: For the promotion of ISI in Africa.
- MUSCADE: Promotion of ISI in the broadcasting sector.
  - MONET: Promotion of ISI among the mobile broadband stakeholders.

- E-SPONDER: Promotion of ISI in the sectors of security and response to emergency/crisis.
- ESA ARTES 1 project “φSAT” (The Role of Satellite in Future Internet Services).

#### 2.2.5.4 Significant results

The more significant results of this work package are:

Provide support to ISI SC and ISI GA. During this period, 7 ISI SC conference calls, 1 ISI SC physical meeting and 1 ISI GA have been organized.

Keep control of ISI Membership, ISI Governance Model, Implementation of the ISI Governance rules. The elections took place in the ISI GA organized in June 2011 and the result has been a smooth transition from the former WGs structure and leaders to the current one. This led to an important modification of the ISI WGs structure, which implied the update of the ISI governance rules.

Provide support to ISI to foster ISI representation at relevant meetings and conferences.  
Elaboration of regular newsletters.

#### 2.2.5.5 Deviations and proposed corrective actions

Deviations	Proposed corrective actions
Although not planned, TAS-F undertook some activities in this WP5 in order to provide support to Rose and meet the planned objectives. In particular TAS-F was instrumental in the re organisation of ISI which is reflected in the latest ISI governance document.	No corrective actions are necessary
Although Personnel resources devoted to this task during this period are higher than originally estimated, the overall cost associated to this activity is about 47 %, This means, more hours have been dedicated to the tasks, although the cost of the hour is less than originally estimated.	No corrective actions are necessary since ROSE is committed to devote any necessary resources in order to complete the expected tasks/results, even if the resources are higher than the initial estimation. Also, remaining funding is sufficient to carry out the associated tasks for Year 2.

## **2.3 Project management during the period**

*Please use this section to summarise management of the consortium activities during the period. Management tasks are indicated in Articles II.2.3 and Article II.16.5 of the Grant Agreement.*

### **2.3.1 Consortium management tasks and achievements**

#### **2.3.1.1 Objectives**

The work package n°6 consists of the following tasks:

##### Task 6.1 Project management (Resp: TAS-F)

This task assures the day-by-day management according to the management principles and structures laid down in Section 2.1 -. The co-ordinator in this respect is responsible for supporting effective working, controlling that deadlines are met, quality control, organisation of communication and meeting between consortium partners.

##### Task 6.2 Contractual and Financial management (Resp: TAS-F)

This task involves:

- The administration and supervision of the financial flows (the co-ordinator will manage the allocation of funds between beneficiaries and activities according to the Grant Agreement and the provisions of the consortium agreement).
- Keeping transparent and up-to-date accounts so that it was possible to determine at any time the portions of the community funds that has been allocated to each beneficiary ; Keeping track of all relevant dates and amounts for the purposes of annual reporting (or more frequent if agreed in the Grant Agreement).

##### Task 6.3 Interface to EC (Resp: TAS-F)

- Distribution of required forms and template and set up of electronic tools to efficiently prepare the deliverables (especially the QMR and Project Periodic and Final Reports).
- Elaborating Management Reports according to the reporting schedules specified in the Grant Agreement and consortium agreement
- Collection of Costs statement Forms and documents from the partners and transmission to the Commission.
- Review meeting preparations. Implementation of reviewers recommendations

#### **2.3.1.2 Progress towards objectives**

The work of WP6 in the first few months of the contractual period consisted in the setting up of the infrastructure needed for contributors to co-operate and get started.

- The template and the expected content of the deliverables were discussed and agreed
- The process to elaborate the deliverables was agreed upon.
- The format for the deliverables, QMR and periodic report were worked out and delivered to all partners.

- A schedule for the FISl progress meetings was distributed. It was decided to hold all progress meetings via conf call to minimise travel cost.
- The ISI technology platform was made aware of the FISl project kick-off.

Given the overlap between s-ISl and FISl support action to ISI during the first 4 months, great care was taken to prevent double work by delaying the kick-off of WP2 and WP3.

However, TAS-F and Astrium provided major contributions to

- the ISlCOM executive summary (published by ISI on 15<sup>th</sup> December 2010) thanks to anticipated work of WP3. This anticipation was agreed by Pertti Jauhiainen by phone;
- the executive summary Strategic Research Innovation Agenda (published by ISI on 7<sup>th</sup> December 2010) as anticipated work to WP2. This anticipation was agreed by Petronela Burceag (mail 23 September 2010)
- the preparation of the 12<sup>th</sup> ISI general assembly and 3<sup>rd</sup> SatCom day with a new format based on 3 panel discussions to foster ISI member participation.

This enabled to present both documents during the 12<sup>th</sup> ISI general assembly held in Brussels

Besides, although FISl was not theoretically involved in the preparation of the 12<sup>th</sup> ISI general assembly (end November 2010) and 3<sup>rd</sup> SatCom day, FISl members (TAS-F and AS) have been very much involved in

- The definition of the agenda and selection of speakers and panel participants
- the preparation of the steering council activity report
- the preparation of a data sheet summarizing the key messages from ISI to be presented at the general assembly
- the proposition of an ISI Working Groups re-structuring
- the contribution to the definition of different panels of the 3<sup>rd</sup> SatCom day.

Formal Kick-off of the WP2 and WP3 activity were held respectively on 23<sup>rd</sup> March 2011 and 20<sup>th</sup> of January 2011.

Actually, the activity of WP2 and WP3 had started already early January as planned, but due to unavailability of the WP leaders it hadn't been possible to hold the formal kick-off in due time.

### **2.3.1.3 Significant results**

The project summary and project presentation were prepared and disseminated to

- the Future Network FP7 ICT 6<sup>th</sup> concertation meeting
- the ISI technology platform

The grant agreement was approved on 7<sup>th</sup> of May 2010.

A consortium agreement has been signed by all partners.

The advance payment was distributed to all partners within September 2010.

Management of the deliverables due over the course of the first year

Progress on FISl project were disseminated at 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup> FP7 ICT concertation meeting.

FISl was instrumental to re define overall ISI objectives also presented at the same meetings.

### 2.3.2 Problems which have occurred and how they were solved or envisaged solutions;

No significant problems are to be reported apart from the deviation described in section 2.3.6.

### 2.3.3 Changes in the consortium

No change in the consortium

### 2.3.4 List of project meetings, dates and venues

The project organised regularly meetings mainly via conference call to prepare inputs to ISI steering Councils, organise ISI events, define content of deliverable and review their progress.

Project meetings	Dates	Location	Comments
Pre-kick-off meeting	2 <sup>nd</sup> of September	Conference call	Definition of project objectives for Q1.
Kick-off meeting	23 <sup>rd</sup> of September	Thales Alenia space premises	Kick-off of the WP1, 4 and 5 (partial) activity
2 <sup>nd</sup> FISI progress meeting	9 <sup>th</sup> of November	Conference call	
3 <sup>rd</sup> FISI progress meeting	20 <sup>th</sup> December 2010	Conference call	
4 <sup>th</sup> FISI progress meeting	20 <sup>th</sup> January 2011	Conference call	Kick-off of the WP3 and WP5 (partial) activity
5 <sup>th</sup> FISI progress meeting	15 <sup>th</sup> February 2011	Conference call	
6 <sup>th</sup> FISI progress meeting	23 <sup>rd</sup> March 2011	Conference call	Kick-off of the WP2 activity
7 <sup>th</sup> FISI progress meeting	19 <sup>th</sup> April 2011	Conference call	
8 <sup>th</sup> FISI progress meeting	17 <sup>th</sup> May 2011	Conference call	
9 <sup>th</sup> FISI progress meeting	21 <sup>st</sup> June 2011	Conference call	
10 <sup>th</sup> FISI progress meeting	19 <sup>th</sup> July 2011	Conference call	
11 <sup>th</sup> FISI progress meeting	30 <sup>th</sup> August 2011	Conference call	

### 2.3.5 Project planning and status

The overall time plan for the project is unchanged at the exception of the MS14 milestone as reported here after.

### 2.3.6 Overall use of resources

Here is the overall actual use of resources compared to the overall planned resources in the DoW per WP.

WP		TAS-F	DLR	UNIBO	SPH	ROSE	TPZ	AS	Total
1	Planned PM	2,85	0,3	1,1	7	0	0,6	1	12,85
	Actual PM	3,88	0,15	1,125	4,5		0	0,7	10,355
	%	136%	50%	102%	64%		0%	70%	81%
2	Planned PM	0,6	5,8	3,3	0	1,2	0	0	10,9
	Actual PM	1	2,53	2,22		1,2			6,95
	%	167%	44%	67%		100%			64%
3	Planned PM	0,5				1,2	4,6	2	8,3
	Actual PM	1				1,1	3,8	1,4	7,3
	%	200%				92%	83%	70%	88%
4	Planned PM	0		5,6			0,6		6,2
	Actual PM	0,5		7,505			0		8,005
	%			134%			0		129%
5	Planned PM	0				4			4
	Actual PM	0,5				3,84			4,34
	%	-				96%			109%
6	Planned PM	2,2							2,2
	Actual PM	0,67							0,67
	%	30%							30%
Total	Planned PM	6,15	6,1	10	7	6,4	5,8	3	44,45
	Actual PM	7,55	2,68	10,85	4,5	6,14	3,8	2,1	37,62
	%	123%	44%	109%	64%	96%	66%	70%	85%
Y2	Remaining P.M	0	3,42	0	2,5	0,26	2	0,9	9,08

**Tableau 2: Planned P.M over project duration (see FISI DoW) versus Actual P.M for each WPs**

In the proposal phase, the number of planned PM, for some partners, was estimated on the basis of an average PM cost, evaluated at the time of proposal elaboration. The actual cost rate (evolution of the cost structure for each organization) leads to a revision of the overall planned P.M effort over

the full project duration per WP. This is reflected in the table here under which compares the actual P.M with the revised remaining P.M budget to fulfill the project objectives.

WP		TAS-F	DLR	UNIBO	SPH	ROSE	TPZ	AS	Total
1	Planned PM	2,85	0,3	2	7	0	0,8	1	13,95
	Actual PM	3,88	0,15	1,125	4,5		0	0,7	10,355
	%	136%	50%	56%	64%		0%	70%	74%
2	Planned PM	0,6	5,8	6	0	2,2	0	0	14,6
	Actual PM	1	2,53	2,22		1,2			6,95
	%	167%	44%	37%		55%			48%
3	Planned PM	0,5				2,2	7,2	2	11,9
	Actual PM	1				1,1	3,8	1,4	7,3
	%	200%				50%	53%	70%	61%
4	Planned PM	0		10			0,8		10,8
	Actual PM	0,5		7,505			0		8,005
	%			75%			0		74%
5	Planned PM	0				7,64			7,64
	Actual PM	0,5				3,84			4,34
	%	-				50%			57%
6	Planned PM	2,2							2,2
	Actual PM	0,67							0,67
	%	30%							30%
Total	Planned PM	6,15	6,1	18	7	12,04	8,8	3	61,09
	Actual PM	7,55	2,68	10,85	4,5	6,14	3,8	2,1	37,62
	%	123%	44%	60%	64%	51%	43%	70%	62%
Y2	Remaining P.M	0	3,42	7,15	2,5	5,9	5	0,9	24,87

**Tableau 3: Planned P.M over project duration (revised according to new cost structure) versus Actual P.M for each WPs**

This second table highlights that sufficient P.M are remaining to continue the project.

Note 1: TAS doesn't have any planned P.M budget for the second year however TAS-F is committed to fulfill the project objectives.

Note 2: Part of TAS actual P.M have been incurred to support action activity type instead of management activity type. This explains a lower spending level in WP6 during the 1<sup>st</sup> year. It will be rebalanced in the 2<sup>nd</sup> year report.

Note 3: UniBo PM limited allocation to WP 2 in Year 1 depends on the planning of the activities related to the SRA. Already in the first quarter of Y2 UniBo has raised its involvement in WP2 and that will continue because of the activities related to the prioritization of the SRA topics and the dissemination of the SRA contents that require a intense effort from UniBo. UniBo is committed to complete the planned work and to support ISI also beyond the reported planned effort, as it has been done by UniBo since the ISI inception.

Note 4: UniBo effort on WP4 in the first year has been larger because of the activities needed to set up several survey; no issues are foreseen for year 2, UniBo is committed to complete the planned work and to support ISI also beyond the reported planned effort as it has been done by UniBo since the ISI inception.

### **2.3.7 Deviations from the planned milestones and deliverables**

According to the Annex I, deliverable D.4.5.1 "Report on the 1st Year SatCom Event" was to be submitted at T0+12. It is actually expected to report about the **4<sup>th</sup> SatCom event** originally planned at T0+9 (See milestone MS14 "1st SatCom event").

However, the ISI steering council decided in late Q4 2010, to co locate the 4<sup>th</sup> SatCom event with the 14<sup>th</sup> ISI general assembly in Brussels mid October 2011 for the following reasons:

- The 13<sup>th</sup> ISI general assembly to be held during the 1<sup>st</sup> semester 2011 should focus on the preparation with networking sessions of the upcoming 8<sup>th</sup> call of FP7 ICT;
- DG Infso officials recommended that the 13<sup>th</sup> ISI GA be co located with the FUNEMS summit mid June to allow for joint networking with Net!works ETP members;
- Experience from previous SatCom events (especially the 3<sup>rd</sup> SatCom event) has shown that the audience is likely to be increased if it is organised in Brussels. It is also easier to have high level members of the parliament and European commission officials participate;
- The 4<sup>th</sup> SatCom event should be organised in Brussels during the second semester 2011, once the position of the ISI members towards the CSF has been harmonised.

Therefore, it is not possible to deliver the D4.5.1 at T0+12 but at T0+14.

### **2.3.8 Development of the Project website**

A web site has been developed by UNIBO and can be accessed at [www.f-isi.org](http://www.f-isi.org).

This is reported in the section dedicated to WP4 activity.

### **2.3.9 Co-operation with other projects/programmes etc.**

The FISI project supported ISI to joint effort with



- Net!Works and CELTIC Plus in organising a networking session in view of the 8<sup>th</sup> call of FP7 ICT
- all European Technology platforms specialising in ICT (Net!Works, NEM, NESSI, ISI and Photonics 21) to put forward a cross-ETP vision for an Innovative Digital Europe.

## 2.4 Deliverables and milestones tables

### 2.4.1 Deliverables

Here under are listed the deliverables due in this reporting period, as indicated in Annex I to the Grant Agreement:

Del. no.	Deliverable name	Version	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Actual / Forecast delivery date	Submitted Yes/no	Contractual Yes/No	Comments
1.1.1	Private telecommunication requirements for SatCom - draft		1	SPH	R	PU	12	12	Yes	Yes	
1.2.1	Analysis of emerging SatCom architectures - draft	1.0	1	TAS-F	R	PU	12	12	Yes	Yes	
1.3.1	SatCom position paper consolidation report - draft		1	TAS-F	R	PU	12	12	Yes	Yes	
2.1.1	Research roadmap for universal service and future internet - draft		2	DLR	R	PU	12	12	Yes	Yes	
2.2.1	Standardisation action plan for universal service and future internet - draft		2	DLR	R	PU	12	12	Yes	Yes	
3.1.1	ISICOM Mission requirements - draft		3	TPZ	R	PU	12	12	Yes	Yes	
3.2.1	ISICOM programmatic definition - draft		3	TPZ	R	PU	12	12	Yes	Yes	
4.1	Project web site		4	UNIBO	O	PU	3	3	Yes	Yes	

Del. no.	Deliverable name	Version	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Actual / Forecast delivery date	Submitted Yes/no	Contractual Yes/No	Comments
4.2.1	ISI member competence profile survey – draft		4	UNIBO	R	PU	12	12	Yes	Yes	
4.3.1	European SatCom training survey - draft		4	UNIBO	R	PU	12	12	Yes	Yes	
4.4.1	SatCom event concept – 1st year	0.4	4	UNIBO	R	PU	3	7	Yes	Yes	
4.4.1	SatCom event concept – 2 <sup>nd</sup> year		4	UNIBO	R	PU	15	15		Yes	
4.5.1	SatCom event report – 1 <sup>st</sup> year		4	UNIBO	R	PU	12	14	No	Yes	The SatCom event has been postponed to the 14 <sup>th</sup> GA at T0+13  A draft version was submitted indicating the reason of the delay and reporting all of the information already available.
5.1.1	Reporting on ISI governance management – 1 <sup>st</sup> year		5	ROSE	R	PU	12	12	Yes	Yes	
5.2.1	Reporting on ISI secretariat support activities – 1 <sup>st</sup> year		5	ROSE	R	PU	12	12	Yes	Yes	

Del. no.	Deliverable name	Version	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Actual / Forecast delivery date	Submitted Yes/no	Contractual Yes/No	Comments
5.3.1	Report on produced ISI newsletters – 1 <sup>st</sup> year		5	ROSE	R	PU	12	12	Yes	Yes	
5.4.1	FISI dissemination plan		5	ROSE	R	PU	3	3	Yes	Yes	
5.4.2 1	FISI dissemination report		5	ROSE	R	PU	12	12	Yes	Yes	
6.1.1	Quarterly management report – Q1		6	TAS-F	R	CO	3	3	Yes	Yes	
6.1.2	Quarterly management report – Q2		6	TAS-F	R	CO	6	6	Yes	Yes	
6.1.3	Quarterly management report – Q3		6	TAS-F	R	CO	9	9	Yes	Yes	
6.1.4	Quarterly management report – Q4		6	TAS-F	R	CO	12	12	Yes	Yes	
6.2.1	Periodic report – 1 <sup>st</sup> year		6	TAS-F	R	CO	12	14	Yes	Yes	

**Tableau 4: Deliverables**

## 2.4.2 Deliverables brief description

Del. No.	Deliverable name	Description
D1.1	Private telecommunication requirements for SatCom	It identifies the main requirements associated to Universal Service in terms of performances features, operational and potential deployment constraints. It also identifies the main requirements associated to Future Internet services from a SatCom perspective and proposes a relevant SatCom role in this context. . Focus is on private communication requirements.
D1.2	Analysis of emerging SatCom architectures	It identifies and analyzes various architecture options and undertakes high level techno-economical analysis to highlight the benefits of these architectures in support of the Universal Service requirements identified in D1.1. It also identifies and analyzes various techniques enabling to overcome key issues inherent to SatCom as well as integration scenarios of SatCom with terrestrial networks in the context of Future Internet and in support of relevant requirements identified in D1.1
D1.3	Report on consolidation of SatCom position papers	It provides a cumulative report of the position papers produced in relation to Universal Service and Future Internet addressing various targeted stakeholders in support of the analysis included in D1.2. It also reports about the feedback collected from the various targeted stakeholders on these produced position papers as well as its impact on SatCom positioning for Universal Service and Future Internet.
D2.1	ISI Research Roadmap for universal service and Future Internet	It will identify and prioritize the necessary research topics for Universal Service and Future Internet based on technical gap analysis. It will also map this research activities onto FP7 and FP8 high level objectives as well as possibly in ESA TLTP and national space agencies work program
D2.2	ISI Standardisation Action Plan for universal service and Future Internet	It will identify the required standardization activity associated to the research priorities and identify the standardization Organizations where these can be carried out.
D3.1	ISICOM mission requirements	It will identify the key ISICOM assets and capabilities to meet the addressed EU policies and global satellite telecommunication requirements the mission requirements including key system functions, performances as well as operational and spectrum requirements in relation to the main user categories representatives, responsible Institutions and other stakeholders. the regulatory and spectrum issues and ways to address them
D3.2	ISICOM programmatic definition	It will identify the key characteristics of the reference SatCom architecture, the related research priorities and necessary standardization activities, the role model and the planned roadmap for its definition, development, implementation and operation.
D3.3	ISICOM mapping and governance	It will map the ISICOM program in the European Framework (EC DGs, ESA, National Space agencies, other research funding bodies) by promoting with the targeted bodies.
O4.1	Project Web site	A web site will be set-up for the FISi project
D4.2	ISI member competence profile survey	A database will be set-up and populated with ISI members profile. It will be used for gap analysis purposes as well as promotion activities. The aggregate data resulting from the database analysis will be made public. The detailed information of each Participant to the survey will be made public conditioned to the approval of the Participant to disclose such information.

Del. No.	Deliverable name	Description
D4.3	European SatCom training survey	A database will be set-up and populated with ISI members's training and educational courses. It will be used for gap analysis purposes as well as promotion activities. The aggregate data resulting from the database analysis will be made public. The detailed information of each Participant to the survey will be made public conditioned to the approval of the Participant to disclose such information.
D4.4	SatCom event concept	It will define the SatCom events: objective, scope, invited external stakeholders, funding scheme
D4.5	SatCom event report	It will report about the SatCom events in terms of main outcomes and lessons learnt with the aim of improving subsequent SatCom event but also collecting valuable comments to be taken into account in other deliverables such as the ones produced in the other work packages
D5.1	Reporting on ISI governance management	It will report about the changes made in the governance of ISI and their rationale.
D5.2	Reporting on ISI secretariat	It will report about the organization of all ISI working meetings and the discussions held and decisions taken during 1 <sup>st</sup> and 2 <sup>nd</sup> year. It will also report about the implementation of the procedure "quality control of documents"
D5.3	ISI Newsletters	It will report about the News letter published including information about the progress of the ISI ETP and definition of future ISI related R&D challenges, links to new relevant documents, conferences, and workshops, information on standardization and regulatory issues as well as EU policies and relevant business-oriented information and international R&D aspects. In addition, press releases will be prepared to follow any relevant ISI progress of event.
D5.4.1	FISI dissemination plan	It will define the FISI communication strategy in terms of targeted bodies, expected impacts and how to proceed.
D5.4.2	FISI dissemination report	It will report about the implementation of the FISI communication strategy throughout the project.
D6.1.N	Quarterly management reports with N from 1 to 8	It will report about Financial resources status, Human resources status, Summary of main achievements and concrete key outcomes of the reporting period (technical progress and achievements of the project, project status, Work started/completed/delayed, Status of deliverables, Remedial actions required, if applicable)
D6.2	Periodic report	It will report about Project activity carried out during the elapsed period following the guidelines of the EC
D6.3	Final report	It will report about the full Project activity following the guidelines of the EC. Final report comprising, a) a final publishable summary report covering results, conclusions and socioeconomic impact of the project.; b) a report covering the wider societal implications of the project, including gender equality actions, ethical issues, efforts to involve other actors and spread awareness as well as the plan for the use and dissemination of foreground.

## 2.4.3 Milestones

Milestone no.	Milestone name	Work package no	Lead beneficiary	Planned delivery date	Achieved Yes/No	Actual / Forecast achievement date	Comments
MS1	Requirement analysis for Universal Service and Future Internet	1	1	12	Yes	12	See D1.1.1

Milestone no.	Milestone name	Work package no	Lead beneficiary	Planned delivery date	Achieved Yes/No	Actual / Forecast achievement date	Comments
MS2	Analysis of the added value of Emerging SatCom architectures for Universal Service	1	1	12	Yes	12	See D1.2.1
MS7	ISICOM Mission requirements draft	3	6	12	Yes	12	See D3.1.1
MS10	Access via ISI portal to data base on ISI members competence profile and SatCom training course	4	3	12	Yes	12	See <a href="http://www.isi-initiative.org">www.isi-initiative.org</a> at <sup>2</sup>
MS12	1 <sup>st</sup> SatCom event concept	4	3	3	Yes	7	
MS13	2 <sup>nd</sup> SatCom event concept	4	3	15	No	16	
MS14	1 <sup>st</sup> SatCom event	4	3	9	Yes	13	Upon ISI decision, the SatCom event has been postponed to the 14 <sup>th</sup> GA
MS15	2 <sup>nd</sup> SatCom event	4	3	21	No	20	Upon ISI decision, the 15 <sup>th</sup> GA is planned mid April 2012
MS30	Elections for ISI SC, Chairmanship and WG leaders	5	5	17	Yes (partially)	10	Election of WG leaders in June. However the election of chairmanship is planned at T0+20
MS31	ISI general assembly	5	5	9	Yes	10	
MS34	ISI newsletter	5	5	7	Yes	7	
MS35	ISI newsletter	5	5	10	Yes	10	
MS40	Dissemination plan	5	5	3	Yes	3	

**Tableau 5: Milestones**

<sup>2</sup> Membership survey: <http://www.isi-initiative.org/isi-membership-survey-results>  
Training survey: <http://www.isi-initiative.org/isi-training-survey-results>

### 3 Budget figures

#### 3.1 Explanation of the use of the resources

##### 3.1.1 Thales Alenia Space – France

<b>TABLE 3.1 PERSONNEL, SUBCONTRACTING AND OTHER MAJOR COST ITEMS FOR TAS-F FOR THE PERIOD</b>			
Work Package	Item description	Amount in € with 2 decimals	Explanations
1, 2, 3, 4, 5	Personnel direct costs	75 052 €	Salary cost for TAS-F staff member: N. Chuberre + support in WP1 from E. Barritault, P. Gaudemet and P. Jung
1, 2, 3, 4, 5	Sub-contracting	0 €	
1, 2, 3, 4, 5	Other direct costs: Travels	17 910 €	See list of travels below (1 <sup>st</sup> travel by E. Barritault, all others by N. Chuberre)
	Indirect costs	45 905 €	Overheads
6	Personnel direct costs	7 523 €	Salary cost for TAS-F staff member: N. Chuberre
6	Sub-contracting	0 €	
6	Other direct costs: Travels	0 €	
	Remaining direct costs	0 €	
	Indirect costs	4601 €	Overheads
<b>TOTAL COSTS</b>		<b>150 991 €</b>	

Travel	Reason for trip	Number of persons
Brussels, 26th September 2010	TAS Participation to the ICT 2010 conference to promote emerging SatCom architectures for broadband	1
Brussels, 11th October 2010	ISI vision promotion to "3rd annual next generation telecoms conference	1
Brussels 17-20 <sup>th</sup> October 2010	Participation to Future Networks 6th FP7 Concertation Meeting	1
Sophia Antipolis, 26th October 2010	Participation to ETSI/TC SES meeting, Liaison between ISI and ETSI	1
Brussels, 26th September 2010	TAS Participation to the ICT 2010 conference to promote emerging SatCom architectures for broadband	1
Brussels, 11th October 2010	ISI vision promotion to "3rd annual next generation telecoms conference	1
Brussels 17-20 <sup>th</sup> October 2010	Participation to Future Networks 6th FP7 Concertation Meeting	1



Sophia Antipolis, 26th October 2010	Participation to ETSI/TC SES meeting, Liaison between ISI and ETSI	1
Brussels, 16-17th December 2010	TAS Participation to the FIA conference (ceFIMS workshop + xETP meeting)	1
Brussels, 10-11th February 2011	7 <sup>th</sup> Future Networks FP7 concertation meeting	1
Brussels 18 <sup>th</sup> February 2011	ETP Sherpa workshop	1
Brussels, 3th March 2010	TAS Participation to the workshop European Forward Looking Activities: Insights for building the future of Innovation Union and ERA	1
Brussels, 21 <sup>st</sup> March 2011	ISI vision promotion to DG ENTR and DG INFSO	1
Sophia Antipolis, 26 <sup>th</sup> March 2011	Participation to ETSI/TC SES meeting, Liaison between ISI and ETSI	1
Brussels, 11 <sup>th</sup> May 2011	ISI coordination with DG Infso	1
Budapest, 17 <sup>th</sup> to 20 <sup>th</sup> May 2011	ISI networking session, ICT proposers day, meeting with Net!Works	1
Nordwijk, 30 <sup>th</sup> May to 1 <sup>st</sup> June 2011	Participation to ETSI/TC SES meeting, Liaison between ISI and ETSI	1
Nordwijk, 30 <sup>th</sup> May to 1 <sup>st</sup> June 2011	Participation to ETSI/TC SES meeting, Liaison between ISI and ETSI	1
Warsaw, 13th – 17th June 2011	TAS Participation to ISI networking session, Steering Council, general Assembly and FUNEMS 2011	1

### 3.1.2 Deutsches Zentrum für Luft und Raumfahrt EV

<b>TABLE 3.2 PERSONNEL, SUBCONTRACTING AND OTHER MAJOR COST ITEMS FOR DLR FOR THE PERIOD</b>			
Work Package	Item description	Amount in € with 2 decimals	Explanations
2	Personnel direct costs	20277.02 €	Salary of DLR staff members Dr. Sandro Scalise and Mr. Anton Donner
	Subcontracting	0.00 €	
	Travel costs	3583.06 €	ICT proposers' Days in Brussels in May 2011, ISI General Assembly in Warsaw in June 2011, Future Network and Mobile Summit in Warsaw in June 2011, Invitation to a consultation on future research challenges in Brussels in June 2011
	Remaining direct costs	625.00 €	Registration Fee Future Network and Mobile Summit
	Indirect costs	13491.70 €	Overheads of Institute and Administration
	<b>TOTAL COSTS</b>	<b>37976.78 €</b>	

### 3.1.3 Alma mater studiorum – Università di Bologna

TABLE 3.3 PERSONNEL, SUBCONTRACTING AND OTHER MAJOR COST ITEMS FOR UNIBO FOR THE PERIOD			
Work Package	Item description	Amount in € with 2 decimals	Explanations
WP1, WP2, WP4	Personnel direct costs	33038.23 €	10.85 PM dedicated to the activities related to WP1, WP2 and WP4. In particular, SatCom event organization, Web Site management, surveys elaboration, SRA development, participation to FISl meetings, ISI meetings and other meetings of interest of ISI.
	Subcontracting		None
	HW purchase	733.85 €	Computers for document elaboration and web site maintenance, etc.
	Travel	6811.36 €	Participation to ISI meetings (ISI networking sessions and ISI General Assembly) and to meetings related to the promotion of SatCom in Europe.
	Remaining direct costs	280.04 €	
	Indirect costs	8172.70 €	
	TOTAL COSTS	49036.18 €	

### 3.1.4 Space Hellas S.A.

<b>TABLE 3.4 PERSONNEL, SUBCONTRACTING AND OTHER MAJOR COST ITEMS FOR SPH FOR THE PERIOD</b>			
Work Package	Item description	Amount in €	Explanations
WP1	Personnel direct costs	34,393 €	Overall 4.50 PMs devoted to the FISl project corresponding to the salaries of Mr. Konstantinos Liolis (R&D Project Manager - Leader of ISI FI WG), Dr. Ilias Andrikopoulos (R&D Manager) and Dr. Ioannis Mertzanis (General Commercial Director), for their work particularly as part of WP1 during FISl Project Year 1.
WP1	Other direct costs / Travel Costs	1,036 €	Travel Costs for Mr. K. Liolis travelling to Warsaw, Poland, on 14-15 June 2011 in order to participate to the following events: <ul style="list-style-type: none"> <li>• Proposers' Networking Day - FP7-ICT Call 8 &amp; Celtic-Plus Call 2 (14 June 2011)</li> <li>• ISI SC Meeting (15 June 2011)</li> <li>• 13<sup>th</sup> ISI GA (15 June 2011)</li> </ul>
WP1	Indirect costs	33,911 €	Overhead for personnel costs.
WP1	Maximum reimbursement indirect costs	2,480 €	
<b>TOTAL COSTS</b>		<b>69,340 €</b>	In line with the costs claimed in Form C.

### 3.1.5 Rose Vision SL

<b>TABLE 3.5 PERSONNEL, SUBCONTRACTING AND OTHER MAJOR COST ITEMS FOR ROSE FOR THE PERIOD</b>			
Work Package	Item description	Amount in € with 2 decimals	Explanations
Wp2	Personnel direct costs	10 046,94 €	1,201 Person-Month
Wp3	Personnel direct costs	9 586,28 €	1,1275 Person-Month
Wp5	Personnel direct costs	21 062,93 €	3,8121 Person-Month
Travels	Mr Julián Seseña Navarro	1 806,77 €	22-23 September 2010 (Toulouse)
	Mr Julián Seseña Navarro	357,12 €	14 February 2011 (Barcelona) Mobile World Congress 2011
	Mr Julián Seseña Navarro	892,65 €	16-20 May 2011 (Budapest) ISI networking session, ICT Proposers day
	Mr Julián Seseña Navarro	1 516,83 €	13-15 June 2011 (Warsaw) ISI General Assembly and FUNEMS Conference, CELTIC and FP7 info day
Subcontracting		0	
Other direct costs	Newsletter printing	1 380,60 €	Printing newsletters
Indirect costs		3 265 €	Printing newsletters
TOTAL COSTS		55 980 €	

The total cost of 55980,14 €, which represents 47,5 % of the overall budget of ROSE in the whole duration of the project.

### 3.1.6 Telespazio SPA

<b>TABLE 3.6 PERSONNEL, SUBCONTRACTING AND OTHER MAJOR COST ITEMS FOR TPZ FOR THE PERIOD</b>			
Work Package	Item description	Amount in € with 2 decimals	Explanations
WP3	Personnel direct costs	€12.891	<i>Overall 3.8 PMs for: Mr. Vincenzo Fogliati (R&amp;D Project Manager) and Ms. Antonella Catucci (R&amp;D Project Scientist) related to the WP3 during FISI Project First Year.</i>
WP3	Other direct cost/Travel	€1.106	<i>Travel Costs for Mr.V. Fogliati travelling to Warsaw, Poland, on 14-15 June 2011 in order to participate to the following events:</i> <ul style="list-style-type: none"> <li>• ISI SC Meeting (15 June 2011)</li> <li>• 13<sup>th</sup> ISI GA (15 June 2011)</li> </ul>
WP3	Indirect cost	€14.210	Overhead for personnel costs.
<b>TOTAL COSTS</b>		<b>€28.207</b>	In line with the costs claimed in Form C.

### 3.1.7 Astrium S.A.S.

<b>TABLE 3.7 PERSONNEL, SUBCONTRACTING AND OTHER MAJOR COST ITEMS FOR AS FOR THE PERIOD</b>			
Work Package	Item description	Amount in € with 2 decimals	Explanations
WP 1 and 3	Personnel direct costs	20 132 €	<i>Salary cost for Astrium staff members</i>
WP 1 and 3	Travels	03 517 €	<i>ETP workshop (Brussels –Feb 11), ISI networking session (Budapest – May 11), ISI SC and GA (Warsaw – june 11)</i>
WP 1 and 3	Indirect cost	21 355 €	<i>Overhead</i>
TOTAL COSTS		45 004 €	

## 3.2 Financial statements – Form C and Summary financial report

### 3.2.1 Thales Alenia Space – France

Form C - Financial Statement (to be filled in by each beneficiary)			
Project Number	257118	Funding scheme	Coordination and support action
Project Acronym	FISI		
Period from	01/09/2010	Is this an adjustment to a previous statement ?	No
To	31/08/2011		
Legal Name	THALES ALENIA SPACE FRANCE	Participant Identity Code	999908205
Organisation Short Name	TAS-F	Beneficiary nr	1
Funding % for RTD activities	NA	If flat rate for indirect costs, specify %	N/A

**1. Declaration of eligible costs/lump sum/flat-rate/scale of unit (in €)**

	Type of Activity			Total (A+B+C)
	Coordination / Support (A)	Management (B)	Other (C)	
Personnel costs	75,052	7,523	0	82,575
Subcontracting	0	0	0	0
Other direct costs	17,910	0	0	17,910
Indirect costs	45,905	4,601	0	50,506
Maximum reimbursement indirect costs	6,507	526	0	7,033
Total costs	138,867	12,124	0	150,991
Maximum EU contribution	99,469	8,049	0	107,518
Requested EU contribution				107,518

**2. Declaration of receipts**

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II. 17 of the grant agreement ?

If yes, please mention the amount (in €)

No

**3. Declaration of interest yielded by the pre-financing (to be completed only by the coordinator)**

Did the pre-financing you received generate any interest according to Art.II.19 ?

If yes, please mention the amount (in €)

Yes

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**4. Certificate on the methodology**

Do you declare average personnel costs according to Art.II.14.1 ?

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4 ?

No

No

Name of the auditor	Cost of the certificate (in €), if charged under this project	
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**5. Certificate on the financial statements**

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4 ?

No

Name of the auditor	Cost of the certificate (in €)	
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**6. Beneficiary's declaration on its honour**

**We declare on our honour that:**

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and Article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Frank WARNAU
	Date & signature



### 3.2.2 Deutsches Zentrum für Luft und Raumfahrt EV

Form C - Financial Statement (to be filled in by each beneficiary)			
Project Number	257118	Funding scheme	Coordination and support action
Project Acronym	FISI		
Period from	01/09/2010	Is this an adjustment to a previous statement ?	No
To	31/08/2011		
Legal Name	DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV		Participant Identity Code
Organisation Short Name	DLR		Beneficiary nr
			999981731
			2
Funding % for RTD activities	NA	If flat rate for indirect costs, specify %	N/A

#### 1. Declaration of eligible costs/lump sum/flat-rate/scale of unit (in €)

	Type of Activity			
	Coordination / Support (A)	Management (B)	Other (C)	Total (A+B+C)
Personnel costs	20,277	0	0	20,277
Subcontracting	0	0	0	0
Other direct costs	4,208	0	0	4,208
Indirect costs	13,492	0	0	13,492
Maximum reimbursement indirect costs	1,713	0	0	1,713
Total costs	37,977	0	0	37,977
Maximum EU contribution	26,198	0	0	26,198
Requested EU contribution				26,198

#### 2. Declaration of receipts

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II. 17 of the grant agreement ?  
If yes, please mention the amount (in €)

No
----

#### 4. Certificate on the methodology

Do you declare average personnel costs according to Art.II.14.1 ?

No
----

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4 ?

No
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Name of the auditor		Cost of the certificate (in €), if charged under this project	
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#### 5. Certificate on the financial statements

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4 ?

No
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Name of the auditor		Cost of the certificate (in €)	
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#### 6. Beneficiary's declaration on its honour

We declare on our honour that:

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and Article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Alexander Haidt / Dr. Sandro Scalise
	Date & signature

### 3.2.3 Alma mater studiorum – Università di Bologna

Form C - Financial Statement (to be filled in by each beneficiary)			
Project Number	257118	Funding scheme	Coordination and support action
Project Acronym	FISI		
Period from	01/09/2010	Is this an adjustment to a previous statement ?	No
To	31/08/2011		
Legal Name	ALMA MATER STUDIORUM-UNIVERSITA DI BOLOGNA	Participant Identity Code	999993953
Organisation Short Name	UNIBO	Beneficiary nr	3
Funding % for RTD activities	NA	If flat rate for indirect costs, specify %	20

#### 1. Declaration of eligible costs/lump sum/flat-rate/scale of unit (in €)

	Type of Activity			
	Coordination / Support (A)	Management (B)	Other (C)	Total (A+B+C)
Personnel costs	33,038	0	0	33,038
Subcontracting	0	0	0	0
Other direct costs	7,825	0	0	7,825
Indirect costs	8,172	0	0	8,172
Maximum reimbursement indirect costs	2,860	0	0	2,860
Total costs	49,035	0	0	49,035
Maximum EU contribution	43,723	0	0	43,723
Requested EU contribution				43,723

#### 2. Declaration of receipts

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II. 17 of the grant agreement ?  
If yes, please mention the amount (in €)

No

#### 4. Certificate on the methodology

Do you declare average personnel costs according to Art.II.14.1 ?

No
----

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4 ?

No
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Name of the auditor		Cost of the certificate (in €), if charged under this project	
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#### 5. Certificate on the financial statements

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4 ?

No
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Name of the auditor		Cost of the certificate (in €)	
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#### 6. Beneficiary's declaration on its honour

We declare on our honour that:

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and Article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Giovanni Emanuele Corazza
	Date & signature

### 3.2.4 Space Hellas S.A.

Form C - Financial Statement (to be filled in by each beneficiary)			
Project Number	257118	Funding scheme	Coordination and support action
Project Acronym	FISI		
Period from	01/09/2010	Is this an adjustment to a previous statement ?	No
To	31/08/2011		
Legal Name	SPACE HELLAS S.A.	Participant Identity Code	999778322
Organisation Short Name	SPH	Beneficiary nr	4
Funding % for RTD activities	NA	If flat rate for indirect costs, specify %	N/A

**1. Declaration of eligible costs/lump sum/flat-rate/scale of unit (in €)**

	Type of Activity			
	Coordination / Support (A)	Management (B)	Other (C)	Total (A+B+C)
Personnel costs	34,393	0	0	34,393
Subcontracting	0	0	0	0
Other direct costs	1,036	0	0	1,036
Indirect costs	33,911	0	0	33,911
Maximum reimbursement indirect costs	2,480	0	0	2,480
Total costs	69,340	0	0	69,340
Maximum EU contribution	37,909	0	0	37,909
Requested EU contribution				37,909

**2. Declaration of receipts**

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II. 17 of the grant agreement ?  
If yes, please mention the amount (in €)

No

**4. Certificate on the methodology**

Do you declare average personnel costs according to Art.II.14.1 ?

No

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4 ?

No

Name of the auditor		Cost of the certificate (in €), if charged under this project	
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**5. Certificate on the financial statements**

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4 ?

No

Name of the auditor		Cost of the certificate (in €)	
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**6. Beneficiary's declaration on its honour**

**We declare on our honour that:**

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and Article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Mr Ioannis Doulaveris
	Date & signature

### 3.2.5 Rose Vision SL

Form C - Financial Statement (to be filled in by each beneficiary)			
Project Number	257118	Funding scheme	Coordination and support action
Project Acronym	FISI		
Period from	01/09/2010	Is this an adjustment to a previous statement ?	No
To	31/08/2011		
Legal Name	ROSE VISION SL.	Participant Identity Code	999772696
Organisation Short Name	ROSE	Beneficiary nr	5
Funding % for RTD activities	NA	If flat rate for indirect costs, specify %	20

#### 1. Declaration of eligible costs/lump sum/flat-rate/scale of unit (in €)

	Type of Activity			
	Coordination / Support (A)	Management (B)	Other (C)	Total (A+B+C)
Personnel costs	40,696	0	0	40,696
Subcontracting	0	0	0	0
Other direct costs	5,954	0	0	5,954
Indirect costs	9,330	0	0	9,330
Maximum reimbursement indirect costs	3,265	0	0	3,265
Total costs	55,980	0	0	55,980
Maximum EU contribution	49,915	0	0	49,915
Requested EU contribution				49,915

#### 2. Declaration of receipts

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II. 17 of the grant agreement ?  
If yes, please mention the amount (in €)

No

#### 4. Certificate on the methodology

Do you declare average personnel costs according to Art.II.14.1 ?

No
----

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4 ?

No
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Name of the auditor		Cost of the certificate (in €), if charged under this project	
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#### 5. Certificate on the financial statements

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4 ?

No
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Name of the auditor		Cost of the certificate (in €)	
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#### 6. Beneficiary's declaration on its honour

We declare on our honour that:

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and Article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Dr. Julián Seseña
	Date & signature

### 3.2.6 Telespazio SPA

Form C - Financial Statement (to be filled in by each beneficiary)			
Project Number	257118	Funding scheme	Coordination and support action
Project Acronym	FISI		
Period from	01/09/2010	Is this an adjustment to a previous statement ?	No
To	31/08/2011		
Legal Name	TELESPAZIO SPA	Participant Identity Code	999939051
Organisation Short Name	TPZ	Beneficiary nr	6
Funding % for RTD activities	NA	If flat rate for indirect costs, specify %	N/A

#### 1. Declaration of eligible costs/lump sum/flat-rate/scale of unit (in €)

	Type of Activity			
	Coordination / Support (A)	Management (B)	Other (C)	Total (A+B+C)
Personnel costs	12,891	0	0	12,891
Subcontracting	0	0	0	0
Other direct costs	1,106	0	0	1,106
Indirect costs	14,210	0	0	14,210
Maximum reimbursement indirect costs	979	0	0	979
Total costs	28,207	0	0	28,207
Maximum EU contribution	14,976	0	0	14,976
Requested EU contribution				14,976

#### 2. Declaration of receipts

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II. 17 of the grant agreement ?  
If yes, please mention the amount (in €)

No

#### 4. Certificate on the methodology

Do you declare average personnel costs according to Art.II.14.1 ?

No

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4 ?

No

Name of the auditor		Cost of the certificate (in €), if charged under this project	
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#### 5. Certificate on the financial statements

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4 ?

No

Name of the auditor		Cost of the certificate (in €)	
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#### 6. Beneficiary's declaration on its honour

We declare on our honour that:

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and Article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Giuseppe Mitola
	Date & signature

### 3.2.7 Astrium S.A.S.

Form C - Financial Statement (to be filled in by each beneficiary)			
Project Number	257118	Funding scheme	Coordination and support action
Project Acronym	FISI		
Period from	01/09/2010	Is this an adjustment to a previous statement ?	No
To	31/08/2011		
Legal Name	ASTRIUM S.A.S.	Participant Identity Code	999809265
Organisation Short Name	AS	Beneficiary nr	7
Funding % for RTD activities	NA	If flat rate for indirect costs, specify %	N/A

#### 1. Declaration of eligible costs/lump sum/flat-rate/scale of unit (in €)

	Type of Activity			
	Coordination / Support (A)	Management (B)	Other (C)	Total (A+B+C)
Personnel costs	0	0	20,132	20,132
Subcontracting	0	0	0	0
Other direct costs	0	0	3,517	3,517
Indirect costs	0	0	21,355	21,355
Maximum reimbursement indirect costs	0	0	1,655	1,655
Total costs	0	0	45,004	45,004
Maximum EU contribution	0	0	25,304	25,304
Requested EU contribution				25,304

#### 2. Declaration of receipts

Did you receive any financial transfers or contributions in kind, free of charge from third parties or did the project generate any income which could be considered a receipt according to Art.II. 17 of the grant agreement ?  
If yes, please mention the amount (in €)

No

#### 4. Certificate on the methodology

Do you declare average personnel costs according to Art.II.14.1 ?

No

Is there a certificate on the methodology provided by an independent auditor and accepted by the Commission according to Art.II.4.4 ?

No

Name of the auditor	Cost of the certificate (in €), if charged under this project
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#### 5. Certificate on the financial statements

Is there a certificate on the financial statements provided by an independent auditor attached to this financial statement according to Art.II.4.4 ?

No

Name of the auditor	Cost of the certificate (in €)
---------------------	--------------------------------

#### 6. Beneficiary's declaration on its honour

We declare on our honour that:

- the costs declared above are directly related to the resources used to attain the objectives of the project and fall within the definition of eligible costs specified in Articles II.14 and II.15 of the grant agreement, and, if relevant, Annex III and Article 7 (special clauses) of the grant agreement;
- the receipts declared above are the only financial transfers or contributions in kind, free of charge, from third parties and the only income generated by the project which could be considered as receipts according to Art.II.17 of the grant agreement;
- the interest declared above is the only interest yielded by the pre-financing which falls within the definition of Art.II.19 of the grant agreement;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Beneficiary's Stamp	Name of the Person(s) Authorised to sign this Financial Statement
	Charlie Page
	Date & signature

### **3.2.8 IMPORTANT:**

Form C varies with the funding scheme used. Please make sure that you use the correct form corresponding to your project (Templates for Form C are provided in Annex VI to the Grant Agreement). An example for collaborative projects is enclosed hereafter.

A Web-based online tool for completing and submitting forms C is accessible via the Participant Portal: <http://ec.europa.eu/research/participants/portal>, (except for projects managed by DG MOVE and ENER).

If some beneficiaries in security research have two different rates of funding (part of the funding may reach 75%<sup>3</sup>) then two separate financial statements should be filled by the concerned beneficiaries and two lines should be entered for these beneficiaries in the summary financial report.

### **3.3 *Certificates on financial statement***

In the seventh Framework Programme, the need for having Audit certificates on an annual basis has been reduced and removed entirely for cumulative funding requests less than 375,000 euros. Due to the amount of funding requested in this support action, there are no need for any certificate during the whole project duration.

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<sup>3</sup> Article 33.1 of the EC FP7 rules for participation - REGULATION (EC) No 1906/2006.

### 3.4 Summary of financial report

Summary Financial report - Coordination and support action																			
Project acronym		FISI		Project nr		257118		Reporting period from		01/09/2010		to		31/08/2011		Page		1/1	
Funding scheme		CSA		Type of activity						Total									
				Coordination / Support (A)		Management (B)		Other (C)		Total (A+B+C)									
Benef. nr	If 3rd Party, linked to benef.	Adjustment (Yes/No)	Organisation Short Name	Total	Max EC Contrib.	Total	Max EC Contrib.	Total	Max EC Contrib.	Total	Max EC Contrib.	Req. EC Contrib.	Receipts	Interest					
1		No	TAS-F	138,867	99,469	12,124	8,049	0	0	150,991	107,518	107,518	0	206					
2		No	DLR	37,977	26,198	0	0	0	0	37,977	26,198	26,198	0						
3		No	UNIBO	49,035	43,723	0	0	0	0	49,035	43,723	43,723	0						
4		No	SPH	69,340	37,909	0	0	0	0	69,340	37,909	37,909	0						
5		No	ROSE	55,980	49,915	0	0	0	0	55,980	49,915	49,915	0						
6		No	TPZ	28,207	14,976	0	0	0	0	28,207	14,976	14,976	0						
7		No	AS	0	0	0	0	45,004	25,304	45,004	25,304	25,304	0						
Total				379,406	272,190	12,124	8,049	45,004	25,304	436,534	305,543	305,543	0						



#### 4 List of other FISl contributions during the 1<sup>st</sup> year period

#	Context	Date & location	Title	Description	Reference Persons	Filename
1	EC data base	Early September 2010	FISl project summary	-	N. Chuberre (TAS-F)	ICT FP7 FISl project summary_vfinal.doc
2	FISl contribution to ASMS/SPSC2010 Conference	13-15 September 2010, Cagliari	SatCom Systems in the Context of Future Internet enabled	The presented paper aimed at forecasting the role of Satellite Communications (SatCom) in the context of Future Internet and particularly of the future Internet-enabled smart infrastructures in support of some European Societal Grand Challenges. It also aimed at identifying the necessary technological enablers which need to be developed by the European SatCom industry for the emerging SatCom solutions.	Nicolas Chuberre (TAS-F) Konstantinos Liolis (SPH)	Chuberre-Liolis_et-al_FI_ASMS2010_Sep2010.pdf

#	Context	Date & location	Title	Description	Reference Persons	Filename
3	EC draft communication « European Broadband : investing in digitally driven growth », Brussels, COM(2010) 472	30th September 2010	ISI Comments to the EC Draft communication	-	N. Chuberre (TAS-F)	ISI comments to the EU broadband strategy_vfinal.pdf
4	e-ISI general assembly	7th October 2010, Madrid	ISI overview	Raise awareness to this national ETP about ISI constituency, objectives and on going activities	P. Boutry (AST), N. Chuberre (TAS-F)	101007_Presentation ISI_GA eISI.pdf
5	European Telecommunications Standards Institute, TC Satellite Earth Stations & Systems (TC-SES), MSS Working Group; Meeting #9	5th –8th October 2010, Wessling	TC SES restructuring proposal	FISI Contribution to the TC SES restructuring	N. Chuberre (TAS-F)	SESMSS(10)0086r1_TC_SES_restructuring_proposal.doc
6	3rd Next generation telecommunications conference, « Delivering an EU Broadband strategy »	12th October 2010, Brussels	What can SatCom deliver in future converged networks ?	Highlights about selected emerging SatCom architecture added value in the future ICT context	N. Chuberre (TAS-F)	101012_ISI Speech - 3rd next gen telecom_vfinal2.ppt
7	6th concertation meeting of FP7 ICT Future networks	18th October 2010, Brussels	FISI Future Integral SatCom Initiative - Support Action	Project presentation	N. Chuberre (TAS-F)	101018_FISI project presentation.ppt

#	Context	Date & location	Title	Description	Reference Persons	Filename
8	6th concertation meeting of FP7 ICT Future networks	18th October 2010, Brussels	Smart Infrastructures	The presentation highlights the ISI European Technology platform constituency, objectives and on going activities	N. Chuberre (TAS-F)	2010-10-18_ISI overview.ppt
9	European Telecommunications Standards Institute, TC Satellite Earth Stations & Systems (TC-SES), 78th meeting	26th –28th October 2010, Sophia Antipolis	TC SES restructuring proposal	FISI Contribution to the TC SES restructuring	N. Chuberre (TAS-F)	SES(10)0046_TC_SES_re-organisation.doc
10	12th ISI General assembly	30 November - 1st December 2010, Brussels	7th ISI news letter	-	J. Sesena (Rose)	ISI INFORMS 7 v2.0.pdf
11	12th ISI General assembly	30 November - 1st December 2010, Brussels	ISI SRA executive summary	Highlights on the revised ISI Strategic Research Agenda	S. Scalise (DLR) and A. Vanelli (UNIBO)	ISI_SRA_Executive_Summary_V2.1.pdf
12	12th ISI General assembly	30 November - 1st December 2010, Brussels	ISICOM executive summary	Clarifications to the ISICOM initiative	V. Fogliati (TPZ), N. Chuberre (TAS-F), P. Boutry (AS)	ISICOM executive summary_final_15122010.pdf
13	12th ISI General assembly	30 November - 1st December 2010, Brussels	The Integral SatCom Initiative: 12th General Assembly and 3rd “SatCom Day” outcomes	Press release about the main outcomes of the event	N. Chuberre (TAS-F)	ISI Press release_v101213.pdf

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14	12th ISI General assembly	30 November - 1st December 2010, Brussels	ISI – Integral SatCom Initiative: The European Technology Platform specialized on research and innovation in the Satellite Communication technologies	ISI data sheet	N. Chuberre (TAS-F), JF Charrier (AS)	ISI data sheet_v101125.pdf
15	“ETPs & MS/Regional FI Initiatives” workshop organized by ceFIMS Support Action as part of the FIA Ghent Event	16 December 2010, Ghent	ISI contribution	The presentation addressed the opportunities ISI ETP foresees for making a meaningful contribution to the EU policy objectives for smart, sustainable and inclusive growth in Europe by 2020	Nicolas Chuberre (TAS-F) Konstantinos Liolis (SPH)	101216_ISI workshop CEFIMS_v2.pdf
16	-	January 2011	Cross ETP draft position paper on ICT industry contribution to the EC Grand Societal Challenges (incl. ISI part)	Contribution to ISI part	Nicolas Chuberre (TAS-F) Konstantinos Liolis (SPH)	X-ETP-DOC-GSC_31012011.doc
17	European Telecommunications Standards Institute, TC Satellite Earth Stations & Systems (TC-SES), MSS Working Group; Meeting #10	8th – 9th February 2011, Toulouse	Strategy discussion document	FISI Contribution to the TC SES strategy definition	N. Chuberre (TAS-F)	SESMSS(11)0029_TC_SES_startegy_brainstorming.doc

#	Context	Date & location	Title	Description	Reference Persons	Filename
18	European Telecommunications Standards Institute, TC Satellite Earth Stations & Systems (TC-SES), MSS Working Group; Meeting #10	8th – 9th February 2011, Toulouse	ISICOM executive summary	Raise awareness to MSS WG of ETSI about the ISI SRA	S. Scalise (DLR) and A. Vanelli (UNIBO)	SESMSS(11)0026_ISI_Strategic_Research_agenda_-_executive_summary.pdf
19	7th concertation meeting of FP7 ICT Future networks	11th February 2011, Brussels	ISI status	The presentation highlights the ISI European Technology platform constituency, objectives and on going activities	N. Chuberre (TAS-F)	2011-02-10_ETP ISI status.ppt
20	7th concertation meeting of FP7 ICT Future networks	11th February 2011, Brussels	ISI Strategic Research Agenda	Presentation of the executive summary of the revised ISI Strategic Research Agenda	N. Chuberre (TAS-F)	2011-02-11_ETP ISI SRA.ppt
21	European Technology Platforms (ETP) sherpas meeting organised by DG Infso	18th February 2011, Brussels	ETP Sherpa Workshop outcomes	Reporting about ISI contribution to this meeting	N. Chuberre (TAS-F)	ISI participation ETP sherpa workshop Press release_vfinal.pdf
22	European Forward Looking Activities: Insights for building the future of Innovation Union and ERA	3rd March 2011, Brussels	Press release about ISI involvement in this workshop	Reporting about ISI participation to this workshop	N. Chuberre (TAS-F)	110303_European Forward Looking Activities workshop meetin.....pdf

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23	European Telecommunications Standards Institute, TC Satellite Earth Stations & Systems (TC-SES), 79th meeting	26th –29th April 2011, Sophia Antipolis	MSS Input elements for the future TC SES strategy	FISI Contribution to the TC SES strategy definition	N. Chuberre (TAS-F)	SES(11)0010_MSS inputs to TC_SES_strategy.doc
24	EC consultation on the Green paper about the future Common Strategic framework	20th May 2011, Budapest	ISI response to the Online questionnaire for the Green Paper on a common strategic framework for EU research and innovation funding	-	N. Chuberre (TAS-F)	EC_CSF_greenpaper_ISI responses_v110520.pdf
25	EC consultation on the Green paper about the future Common Strategic framework	20th May 2011, Budapest	ISI key messages	-	N. Chuberre (TAS-F)	ISI key messages to EC.pdf
26	European Telecommunications Standards Institute, TC Satellite Earth Stations & Systems (TC-SES), MSS Working Group; Meeting #11	30th May-1st June 2011, Nordwijk	ETSI's TC SES strategy	Presentation to DVB forum with the objective to stimulate cooperation between ETSI and DVB on the definition of future SatCom access networks	N. Chuberre (TAS-F)	SESBSM(11)0017_SES_Strategy.ppt
27	13th ISI General assembly	15th June 2011, Warsaw	8th ISI news letter	-	J. Sesena (Rose)	ISI INFORMS 8_5.pdf
28	-	July 2011	A Cross-ETP Vision for an Innovative Digital Europe	Contribution to SatCom related topics	N. Chuberre (TAS-F)	xETP Innovation Agenda-v20.doc

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29	-	July 2011	'Towards a stronger European disaster response: the role of civil protection and humanitarian assistance' (2011/2023 INI), The case for an EU-funded communication capacity in response to disasters	Highlights the role of SatCom in crisis reponse	Although none of FISl representatives are mentioned in this letter, at least AS (P. Boutry) and TAS-F (N. Chuberre) have taken part in the drafting of this letter. It was decided that SES should sign it.	Position Paper - towards a stronger European disaster response - ESA, ISI.pdf
30	EC consultation on state aid for broadband deployment	August 2011	ISI comments to the Revision of the Community Guidelines for the application of State aid rules in relation to rapid deployment of broadband networks	Highlights ISI views on state aid for broadband deployment	Chuberre (TAS-F) + AS	Position Paper: ISI comments to BB state aid revisions v110830.doc

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