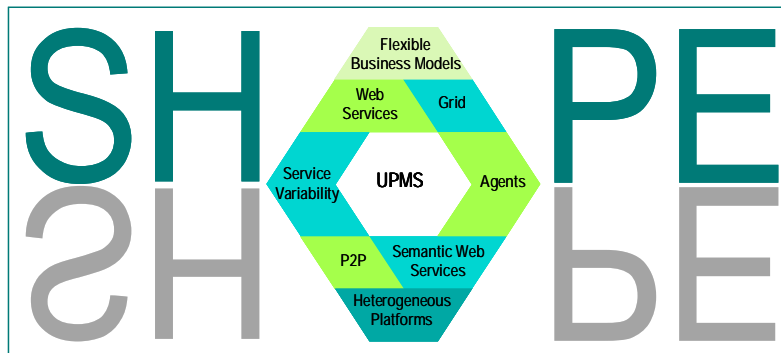


Service and Software Architectures, Infrastructures and Engineering
Small or Medium-scale Focused Research Project
Semantically-enabled Heterogeneous Service Architecture and Platforms Engineering
Acronym
SHAPE
Project No
216408



Deliverable D6.3

Plan for Collaboration with ICT SSAI&E Projects

Work Package 6

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Version	Description	Contributors
0.1	Initial outline.	Arne-Jørgen Berre (SINTEF)
0.2	Initial list of potential projects	Arne-Jørgen Berre (SINTEF)
1.0	Overview of collaboration events	Arne-Jørgen Berre (SINTEF)
1.1	Updated with NESSI NEXOF collaboration	Arne-Jørgen Berre (SINTEF)

Executive Summary

This report presents Deliverable 6.4 “Plan for collaboration with ICT SSAI&E projects” of the SHAPE project, including the results of tasks T6.2 and T6.3 as defined in the Description of Work.

This deliverable summarizes the potential SSAI&E collaboration projects for SHAPE activities. In this deliverable we mostly focus on baseline plans for year 1. The initial version after month 6 has now been update with the subsequent activities. We start by describing the relevant other SSAI&E projects with potential relationship to SHAPE, and the establishment of Collaboration Working Groups with the possible contributions from SHAPE. We then describe SHAPE in the context of the Future Internet Assembly (FIA) activities, and our ongoing participation in ongoing EU collaboration events, with reports from the first year of activities.

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1 Introduction

1.1 Objective of this report

The collaboration task covers the liaison and co-operation activities with other ICT projects under the WP2007/2008 Objective “Service and Software Architectures, Infrastructure and Engineering”. The cooperation aims at exploiting synergies between the projects and increasing the impact of the ICT initiative. The shorthand for ICT *Service and Software Architectures, Infrastructures and Engineering* is ICT SSAI&E projects.

1.2 Outline of this report

The report is structured as follows:

- Section 2 provides information on other projects with potential for collaboration with SHAPE
- Section 3 reports on the allocation of the SHAPE project within ICT Project clusters
- Section 4 outlines the possible contributions of SHAPE to EU Collaboration Working Groups
- Section 5 discusses the role of SHAPE within the Future Internet Assembly
- Section 6 positions the SHAPE project with the EC ICT objectives
- Section 7 reports on the participation in EU Collaboration Events
- Section 8 reports on actual project collaborations carried out in the 1st year of the SHAPE project.

2 Description of Potential collaboration projects and Liaisons

The collaboration task covers the liaison and co-operation activities with other ICT projects under the WP2007/2008 Objective.

A list with a short description of potential collaboration projects is given in the table below:

Table 1: Potential collaboration with FP7 projects

Project	Objective and scope	Potential results for SHAPE	Liaison partners
COIN	The mission of the COIN IP is to study, design, develop and prototype an open, self-adaptive, generic ICT integrated solution. In particular, a COIN business-pervasive open-source service platform will be able to expose, integrate, compose and mash-up in a secure and adaptive way existing and innovative to-be-developed Enterprise Interoperability and Enterprise Collaboration services, by applying intelligent maturity models, business rules and self-adaptive decision-support guidelines to guarantee the best combination of the needed services in dependence of the business context, as industrial sector and domain, size of the companies involved, openness and dynamics of collaboration.	One real innovation point of COIN will be to concretely implement in machine-processable knowledge, best practices and guidelines some networked enterprises Maturity Models and Collaborative Networks Reference Models, specifically devoted to include SMEs and their aggregation in the networked business revolution. Intelligent Multi-agent systems and Knowledge-based systems will be developed on top of it.	DFKI, SINTEF, STI, ESI
COMMIUS	For a solution to be taken up by SMEs it must offer both “zero costs of entry” and “zero time for set-up” to the SMEs; its initial interaction with the system should follow familiar interaction patterns based on existing tools such as email or a web browser. Commuis will build such a “zero costs of entry” interoperability solution for SMEs, allowing them to reuse existing and familiar applications for electronic communication.	The solution will be downloaded with an SME’s consent using automated self-installation routines. The solution will hook into their email infrastructure and collaboration systems such as Microsoft Exchange. It will then proceed to establish interoperability agreements with the peers of the SME at the levels of system, semantics and even process. Semantic analysis of actual enterprise data and documents used within and exchanged between pairs of SMEs will form a core part of this process.	DFKI

DIVA	<p>The goal of this project is to provide a new tool-supported methodology with an integrated framework for managing dynamic variability in adaptive systems. This goal will be addressed by combining aspect-oriented and model-driven techniques in an innovative way.</p>	<p>The main idea behind the DiVA project is to model variability dimensions as aspects and do dynamic aspect weaving as model transformations when an adaptation need occurs. DiVA will concentrate on the adaptation part of a system, the system itself being from the point of view of DiVA a kind of grey-box component consisting of services that may have well defined adaptation interfaces. Some of these ideas will provide valuable and relevant input to the research objectives of SHAPE.</p>	SINTEF
GRAPPLE	<p>The GRAPPLE project aims at delivering to learners a technology-enhanced learning (TEL) environment that guides them through a life-long learning experience, automatically adapting to personal preferences, prior knowledge, skills and competences, learning goals and the personal or social context in which the learning takes place. The same TEL environment can be used/accessed at home, school, work or on the move (using mobile/handheld devices).</p>	<p>GRAPPLE will include authoring tools that enable educators to provide adaptive learning material to the learners, including adaptive interactive components (visualizations, simulations, virtual reality). Authoring includes creating or importing content, assigning or extracting meaning from that content, designing learning activities and defining pedagogical properties of and adaptation strategies for the content and activities.</p>	DFKI
IRMOS	<p>The IRMOS vision is motivated by combining the benefits of SOAs with the ability to support real-time applications with stringent performance, reliability and temporal constraints.</p>	<p>IRMOS will design, develop, integrate and validate a Service Oriented Infrastructure that enables a broad range of interactive real-time applications. It will support the development and deployment of real time applications in a distributed, managed, secure and cost effective way.</p>	SINTEF
m:CIUDAD	<p>m:CIUDAD proposes a service architecture to create a huge collection of user-generated services on the mobile, on the move.</p>	<p>m:CIUDAD provides user-friendly creation tools in the mobile, an optimised execution environment, a model for knowledge warehouse, a proposed specific searching engine and a set of business models for users, for service providers and for third parties, mainly SMEs.</p>	DFKI

NEXOF	<p>The overall ambition of NESSI is to deliver NEXOF, a coherent and consistent open service framework leveraging research in the area of service-based systems to consolidate and trigger innovation in service-oriented economies.</p>	<p>NEXOF consist of three core elements: (1) NESSI Open Reference Model which defines the core elements that enable service-based ecosystems and their relationship as well as underlying rules, principles and policies which lead to interoperable implementations. (2) NESSI Open Reference Architecture addressing definition and selection of innovative architectural styles and patterns based on the reference model. (3) NESSI Open Reference Implementation taking the responsibility to deliver to the community at large with the implementation of the NEXOF concepts and approaches.</p>	SAP
ServFace	<p>ServFace aims at extending service-oriented architecture concepts with an integrated approach of user interface creation. By introducing the notion of a correspondent user interface for services and business processes, the project will significantly improve the development of service-oriented applications.</p>	<p>ServFace will develop a methodology for the development of corresponding user interfaces for services-oriented applications. Service definitions will be extended with annotations for user interface descriptions that can be used for easier user interface composition. An integrated tool environment will be created to support the development process. This comprises authoring tools for design-time support of service development and user interface definition.</p>	SAP
SLA@SOI	<p>The project aims at establishing a service-oriented utility infrastructure that allows on demand provisioning and delivery of business services in a flexible and dependable way so that specified service level agreements (SLAs) are met.</p>	<p>The project presents a cornerstone for implementing the NESSI vision of a service economy as dependability of business services is a prerequisite for making services an economic asset. By grounding SLAs to the infrastructure level the project ultimately enforces SLAs at the lowest possible level, namely the physical infrastructure. The project intends to leverage and enhance different virtualization technologies that allow for infrastructure management in the most flexible manner and thus support the dynamic requirements of business services.</p>	SAP

<p>SENSORIA</p>	<p>IST project funded by the EU as Integrated Project (IP) in the 6th Framework Programme (FP6) as part of the Global Computing Initiative (GC)</p>	<p>The aim of SENSORIA is to develop a novel comprehensive approach to the engineering of software systems for service-oriented architectures where foundational theories, techniques and methods are fully integrated in a pragmatic software engineering approach. The SENSORIA approach is illustrated by several development scenarios like</p> <p>Model-driven performance, validation and orchestration</p> <p>Self-management, composition and service interactions</p> <p>Service orchestration for e-learning</p> <p>Formal analysis of synchronous/asynchronous service invocations on unstable networks</p>	<p>SINTEF</p>
<p>S-Cube</p>		<p>S-Cube, the Software Services and Systems Network, will establish an integrated, multidisciplinary, vibrant research community which will enable Europe to lead the software-services revolution, thereby helping shape the software-service based Internet which is the backbone of our future interactive society.</p>	<p>SINTEF</p>
<p>Romulus</p>	<p>In same group as SHAPE</p>	<p>Romulus is an industrial Open Source Project which will significantly improve the productivity, security and reliability of Java Web Development. The Romulus approach is based on a metaframework integrated with enterprise systems and IDEs.</p>	<p>SINTEF</p>
<p>OMP</p>		<p>The overall objective of the OMP project is to develop technologies and standards which facilitate dynamic composition of media-rich services for mobile devices and scale with device performance and network capability. This is a necessary step towards delivering YouTube, FaceBook and Bebo on the 1 Billion mobile devices anticipated by 2009!</p>	<p>SINTEF</p>

COMPAS	Compliance-driven Models, Languages, and Architectures for Services	The COMPAS project will design and implement novel models, languages, and an architectural framework to ensure compliance of services to design rules and regulations. COMPAS will use model-driven techniques, domain-specific languages, and service-oriented infrastructure software to enable organizations developing business compliance solutions easier and faster.	SINTEF
Q-ImPrESS	Quality Impact Prediction for Evolving Service-oriented Software	The Q-ImPrESS project is set to run for three years and aims to bring service orientation to critical application domains, such as industrial production control, telecommunication and critical enterprise applications, where guaranteed end-to-end quality of service is particularly important	SINTEF

The consortium members commit to provide contributions to the following activities:

- Exploitation of synergies / technical concertation: participation to workshops, contribution to some of the working groups.
- Joint activities for exchange, dissemination and training
- Production of dissemination material that can be used for communication towards the general public.
- Co-ordination of standardisation efforts
- Contribution to repositories of reference implementations (*to be determined according to the project results and exploitation strategy*)

The intention of SHAPE is to contribute to collaboration within SOA based modelling standards (specifically oriented to UPMSHA) and open-source SOA tools, which also would act as input to NESSI NEXOF.

This Task only covers the specific activities for collaboration with other projects. The other project work packages cover the individual project activities in some of these areas (e.g., dissemination, standardisation).

The specific plan for collaboration, including the specific working group this project will participate to will be detailed in the first deliverable "Collaboration Plan" due at M6, with a following updated based on events after M12. The further reporting of the collaboration task will be part of the periodic project reports (from WP7) with updated plans for the next period.

3 EU Project grouping

The SHAPE project has been allocated to the Software & Services working group on “Service Architectures”, as shown in the diagram.

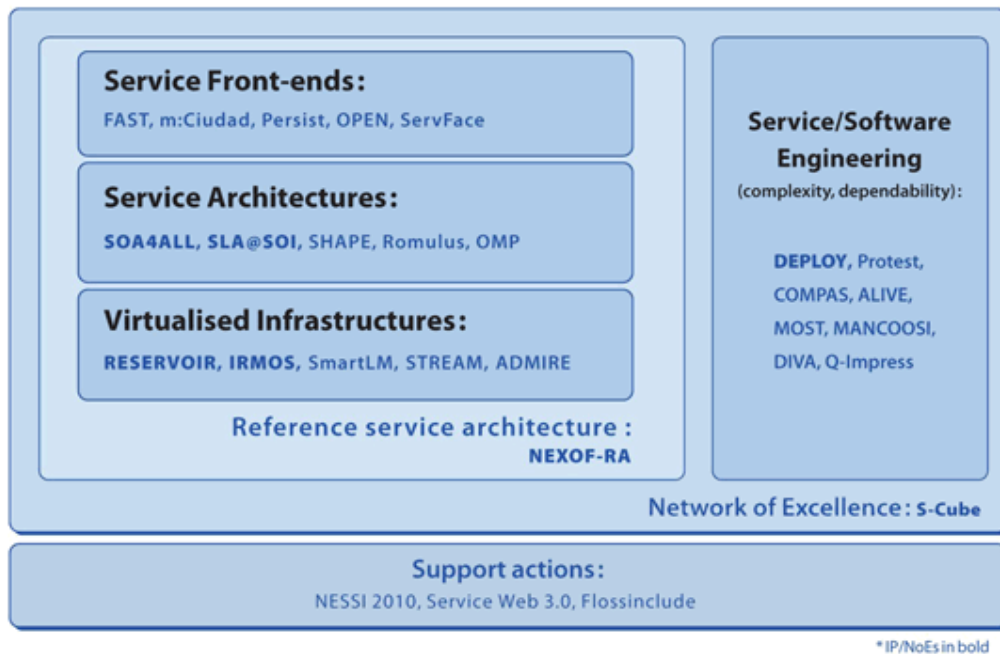


Figure 1 ICT SSAI&E Project clusters

The first set of Seventh Framework Programme (FP7) projects of Objective 1.2 'Services and Software Architectures, Infrastructures and Engineering' have been grouped as shown in the figure above.

4 EU Collaboration Working Groups

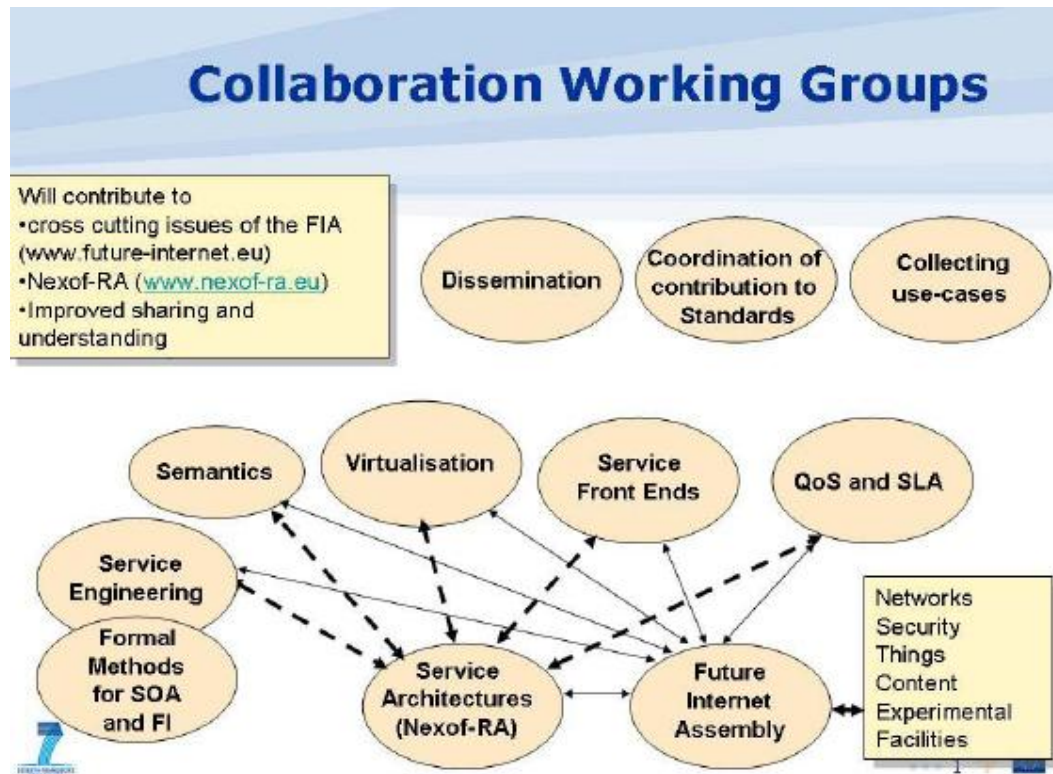
Within Objective 1.2, projects are collaborating through Collaboration Working Groups. An initial overview of all Collaboration Working Groups is given below.

Collaboration working groups can work on a topic of common interest that leads to an improved sharing and understanding and ultimately to an improved impact of the results of the participating projects.

14 of the projects are also collaborating in the Future Internet Assembly.

SSAI projects: Collaboration Activities

Description of Working Groups



Group	Chair	Project	E-Mail	Project Officer (fn.ln@ec.europa.eu)
Service Architectures	Stefano De Panfilis / Klaus Pohl	NEXOF-RA / S-CUBE	stefano.depanfilis@NO SPAMeng.it / klaus.pohl@NOSPAMsse.uni-due.de	Arian Zwegers, Anne-Marie Sassen

Service Engineering	Schahram Dustdar /	S-CUBE&COMPAS/	dustdar@NOSPAMinfosys.tuwien.ac.at	Michel Lacroix, Paolo Bresciani
Formal Methods for SOA	Alexander Romanovsky	DEPLOY	alexander.romanovsky@NOSPAMncl.ac.uk	Paolo Bresciani

Semantics	John Domingue	SOA4ALL	j.b.domingue@NOSPAMopen.ac.uk	Paolo Bresciani Michel Lacroix
Virtualised Service Platforms	Eliot Salant/ Eddie Townsend	RESERVOIR / IRMOS	salant@NOSPAMil.ibm.com / eddie_townsend@NOSPAMxyratex.com	Maria Tsakali, Annalisa Bogliolo
Service Front Ends	Juanjo Hierro	FAST	jhierro@NOSPAMtid.es	Lars Pedersen, Anne-Marie Sassen
QoS and SLA	Eddie Townsend / Wolfgang Theilmann	IRMOS / SLA@SOI	eddie_townsend@NOSPAMxyratex.com / wolfgang.theilmann@NOSPAMsap.com	Annalisa Bogliolo, Lars Pedersen
Collecting use-cases	Elisabetta di Nitto	S-CUBE	dinitto@NOSPAMelet.polimi.it	Anne-Marie Sassen
Coordination of contribution to Standards	Philipp Wieder / Franz Kudorfer	COREGrid / SLA@SOI / NEXOF-RA	philipp.wieder@NOSPAMudo.edu / Franz.Kudorfer@NOSPAMsiemens.com	Charles Macmillan

4.1 Working group contributions from SHAPE

For the established working groups, the SHAPE project will have a focus in the working group for Service Architectures, but will also provide input to some of the other groups. The most relevant working groups are shown below, and described shortly in the next sections.

- Service Architectures
- Standards
- Service Engineering
- Collecting use cases
- Summer schools and training
- QoS and SLA

4.2 Service Engineering

SHAPE participated on the initial service engineering group meeting on 29 August, 2008, at the TU Vienna, through SINTEF, which also represented the DIVA project. It was substantial interest in the group for the SoaML standardization activities. The Service Engineering group will further also discuss various dissemination strategies, like book writing and other promotion of this area.

4.3 Collecting use cases:

Within various projects there has been identified a need to collect industrial use cases. The SHAPE project will consider to contribute to this, and also consider to related to agreed reference cases – such as the Enterprise SOA reference case from the Q-ImPreSS project.

4.4 Service Architectures:

Initially the collaboration in this working group follows the activities of the NEXOF-RA project.

SHAPE has responded to the NEXOF-RA first invitation to contribute to building the NESSI Open Service Framework Reference Architecture!, and is contributing in particular to the Service Description group.

Core Service Framework Area

- Service Description
- Design Time Service Composition
- Service Discovery
- Interoperability of Message-Based Service Interaction

For further information, see the NEXOF RA website,
http://www.nexofra.eu/open_construction_process

4.5 Summer schools and Training

SHAPE will consider contributions of SoaML tutorials and training, as well as the various SHAPE extensions, as future contributions to joint European summer schools and training activities.

- Establish a Europe-wide self-sustainable Center for Training on SSAIE.
- Technical areas of interest:
 - Topics on Service Architectures
 - Topics on Service Engineering
- Topics on service architectures:
 - The NEXOF/NESSI Services Architecture (Stefano de Panfilis, Engineering, NEXOFRA)
 - SOA architectural principles and technologies (OU, UIBK, SOA4ALL and also IRMOS)
 - Designing service networks through abstract business processes (M. Papazoglou, W. de Heuvel, U. of Tilburg, S-Cube)
 - Mapping business processes to orchestrations and choreographies (Frank Leymann, U. of Stuttgart, S-Cube)
 - Potential contributions on SoaML (SHAPE)

4.6 STANDARDS

Technical Group: “Coordination of Contribution to Standards”, co-lead by NESSI (Franz Kudorfer) and SLA@SOI (Philipp Wieder)

Objectives of the Coordination of Contribution to Standards Group

The majority of the ICT *Service and Software Architectures, Infrastructures and Engineering* (SSA) projects has a strong interest in taking forward its results into standardisation and in producing results which comply with existing and evolving standards. But with so many different and potentially parallel standardisation activities, which are mostly driven by globally operating standardisation bodies, it is vital to co-ordinate the projects’ efforts to strengthen collaboration, exploit synergies and increase the impact of European standardisation activities on the world stage.

To achieve the aforementioned goals, the *Coordination of Contribution to Standards* Technical Group (TG) has been brought into being. The mission of this group is to “Support and foster the collaboration, co-ordination and dissemination of standardisation efforts for ICT Service and Software Architecture, Infrastructures and Engineering projects within the Framework Programme 7”.

Networking. In addition to create a good network among the people within the Software and Services Architecture, Infrastructure and Engineering area, it is essential to establish a network including pan-European and global players in the area of standardisation. Regarding the Challenge 1.2 this includes:

- *ETPs*
 - NESSI
 - eMobility
 - ...
- *Standardization Bodies*
 - OGF
 - W3C
 - IETF
 - OASIS
 - TMF

- ACF

Within these organisations, people have to be identified as liaisons to provide information about their organisations, answer questions and promote the results of this TG. It is interesting to note that OMG and Open Group is not among the initial selected organizations.

The SHAPE project can have a potential role as a link to OMG for these activities. See the separate SHAPE Dissemination and standardization report.

5 SHAPE in the Future Internet Assembly

5.1 Projects in Future Internet Assembly

The following 15 projects from Challenge 1.2 are participating in the Future Internet Assembly:

- IP: IRMOS , NEXOF-RA , RESERVOIR , SLA@SOI , SOA4ALL
- STREP: COMPAS, FAST, m:CIUDAD, OPEN, PERSIST, SERVFACE, SHAPE
- NoE: S-CUBE
- Support Actions : NESSI 2010, SERVICE WEB 3.0

5.2 The Future Internet Bled Declaration

SHAPE has endorsed the Future Internet Bled Declaration, which is shortly described below:

Future Internet: Addressing the Challenges through EU Collaboration & Cooperation

EU member states have already committed, through the renewed Lisbon Agenda and the i2010 initiative, €9.1 billion of funding, as part of a public-private partnership, for ICT research over the duration of FP7. However, we must ensure that, within this, continuous and long term support is given to the design of the Future Internet as a key element of the future networked society. It is of strategic importance for Europe to fully engage in the conception, development and innovation of a Future Internet ensuring the long term growth of the ICT sector, full support to an ICT based economy, and the elimination of the digital divide for all citizens.

The research projects assembled here in Bled represent the first phase of this public-private partnership, a joint investment of over €400 million, that recognises the challenges above and emphasises a concerted and comprehensive process of redesign, based upon novel network, service, trust, security and content technologies together with strong initiatives towards new innovations in societal, governance and service domains, in order to ensure that the Future Internet fulfils its potential.

More specifically, building upon the obligations of our individual project contracts and the goals of the Strategic Agendas of the European Technology Platforms

This declaration is endorsed by the following European Technology Platforms and European Research Projects*:

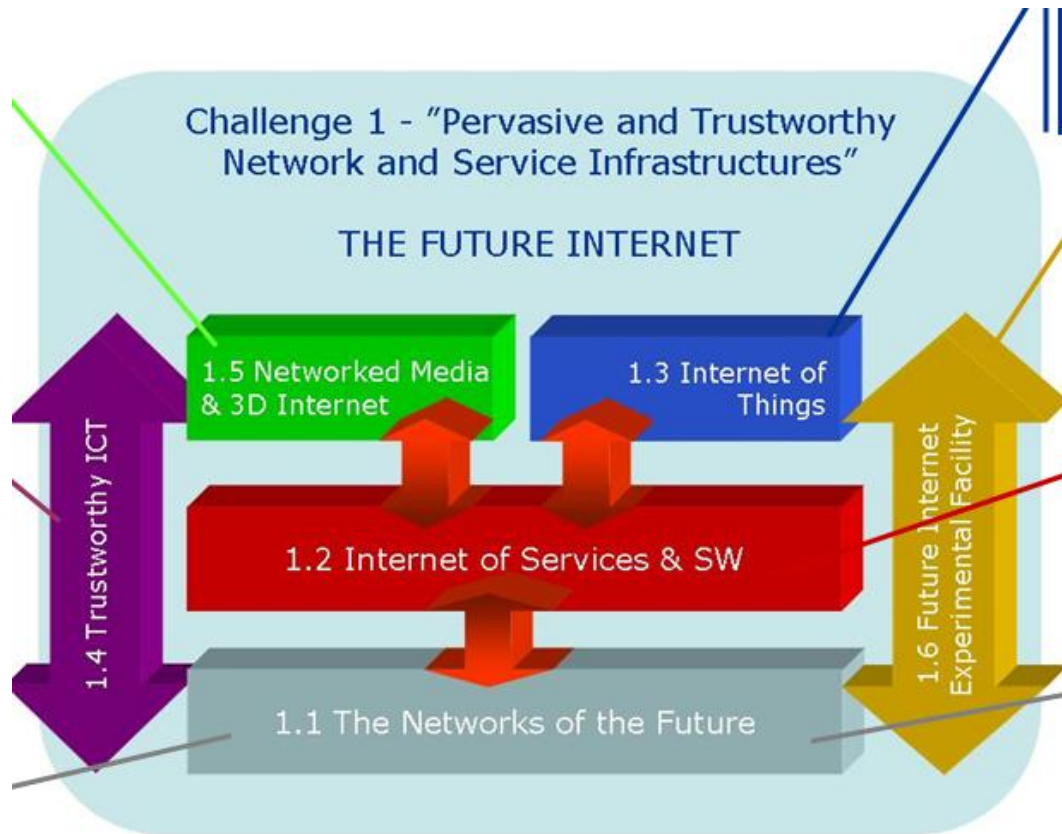
eMobility, NEM, NESSI, ISI and EPOSS

2020 3D Media	CHORUS	FAST	N-CRAVE	SAPIR	SOCRATES
4NEM	COIN	FORWARD	NESSI 2010	S-CUBE	SWIFT
4WARD	CONTENT	INTERSECTION	OPEN	SEA	TA2

ADAMANTIUM	CuteLoop	IRMOS	P2P NEXT	SENDORA	TAS3
AGAVE	DICONET	iSURF	PanLab / PII	SENSEI	TECOM
ASPIRE	E3	m CIUDAD	PERSIST	SERVFACE	THINK-TRUST
AUTOI	eCRYPT II	MASTER	PetaMedia	Service WEB 3.0	VICTORY
AVANTSSAR	EFIPSANS	MobileWeb2.0	PICOS	SHAPE	WOMBAT
AWISSENET	EIFFEL	MOBITHIN	PRIMELIFE	sISI	
CASAGRAS	eMOBILITY	MOMENT	PRISM	SMOOTH-IT	
CHIANTI	EURO-NF	NAPA-WINE	RESERVOIR	SOA4ALL	

*Accession to this declaration is open to existing and future EU Projects that wish to actively contribute

6 The Future Internet and challenge 1.2



The SHAPE project belongs to objective 1.2 in the FP7 program. We see that this area is in the core of "The Future Internet" grouping of objectives within challenge 1.

7 EU Collaboration Events

The collaboration task covers the liaison and co-operation activities with other ICT projects under the WP2007/2008 Objective

SHAPE representatives took part to the following EC organized events, where interaction with representative from other projects took place:

- SSAI&E European projects launch event, March 5th, 2008
- Future Internet Assembly, FIA, Bled, 31 March – 2 April, 2008 – SHAPE project supporting the Future Internet Bled declaration
- Internet of Services 2008. Collaboration Meeting for FP6 & FP7 projects, Brussels, 22-23 September 2008
- NESSI NEXOF RA, 20-21 October 2008, SoaML input to the Service Declaration group, and further contribution and participation to this group
- ICT 2008, Lyon, 25-27 November 2008, Presentation of SHAPE results in Software & Services NESSI session
- Future Internet Assembly, FIA, Madrid, 9-10 December and ServiceWave'2008, 10-12 December, – Presentation of SHAPE results in Software & Services session
- January 13th-14th, 2009, Brussels, SSOKU09 - 1st European Conference on Software Services and SOKU technologies <http://www.eu-ecss.eu/conference>

8 Actual Project Collaboration

The collaboration task covers the liaison and co-operation activities with other ICT projects under the WP2007/2008 Objective

A Liaison was successfully established with COIN EU project (<http://www.coin-ip.eu>) thanks to the involvement of common partners (SINTEF, DKFI, UIBK, ESI) in the two projects. In particular SHAPE vision and expected results have been presented to the COIN consortium. The purpose is to enable COIN to reuse and build upon SHAPE results.

The following EU funded projects are relevant to the SHAPE project, and a cooperation/dissemination with these projects is planned during the SHAPE project:

- COIN (COllaboration and INteroperability for networked enterprises)¹
 - o ESI will work in the introduction of innovative services in the platform that will make use of the UPMS approach as a way to improve the interoperability of enterprise systems. In this sense, we plan to integrate the transformations developed in SHAPE in the COIN platform. First steps toward collaboration are already being undertaken.
- Service Web 3.0²
- SOA4All: A Web of billions of Services³

The interactions with the above projects will take the form of face to face discussions, mailing lists discussions, phone conferences, meetings, etc.

NESSI NEXOF RA – Group on Service Description. Here we have in particular established a discussion around the definition of the service concepts, with a goal of impacting the FTF version of the related definitions in the SoaML standard work in OMG, and to harmonise this with OASIS and the Open Group. The SHAPE project has established a Google map document with related definitions for this discussion, that can be found here:

<http://spreadsheets.google.com/ccc?key=pNjvoHQKEfa9YhK1eu5oACQ&hl=en>

During the EDOC'2009 conference in Munich, the SHAPE project by SINTEF (Arne J. Berre) and STI (Dumitru Roman) arranged the MDA4SOA workshop on 13. September 2008. During the workshop we also met with representatives for the SENSORIA project, and we arranged a separate meeting related to their work on UML4SOA, to discuss the relationship with SoaML. We agreed to follow up on the dialogue, in particular related to the modelling of behavioural aspects and service composition.

See MDA4SOA workshop here: <http://events.deri.at/mda4soa2008/>

Further plans for 2009 will focus on promoting the use of SoaML to other relevant SSAI&E projects and on interactions with other projects for feedback and enhancements to the evolution of the work around this.

¹ <http://www.coin-ip.eu>

² <http://www.serviceweb30.eu/>

³ <http://www.soa4all.org/>