

## I. GENERAL BACKGROUND

### General

Name	Networked European Software and Services Initiative (NESSI)
Starting date	2005
Chairing organisation 2008	Board Chairman Jean-Paul Lepeyre THALES Steering Committee Chairman Dario Avallone EII
Contact person	FRANÇOIS-MARSAL Bruno
EC contact person	GASOS Jorge

Strategic Vision Document	Yes	Updated?	Yes	First version: 2005, add-ons were made in 2007 by working groups and committees. For example last year the SME strategy was updated with a vision section.										
Strategic Research Agenda	Yes	Updated?	Yes	<table border="1"> <tr> <td>Vol.1</td> <td>03/2006</td> </tr> <tr> <td>Vol.3</td> <td>07/2006</td> </tr> <tr> <td>Vol.2a</td> <td>03/2008</td> </tr> <tr> <td>Vol.2b</td> <td>03/2008</td> </tr> <tr> <td>Vol.3</td> <td>02/2008</td> </tr> </table>	Vol.1	03/2006	Vol.3	07/2006	Vol.2a	03/2008	Vol.2b	03/2008	Vol.3	02/2008
Vol.1	03/2006													
Vol.3	07/2006													
Vol.2a	03/2008													
Vol.2b	03/2008													
Vol.3	02/2008													
Implementation plan	Yes see 2007 general assembly documentation and interactive DVD <sup>1</sup>	Updated?	Yes	Date of last version: 12 December 2007										
Deployment strategy	Yes see 2007 general assembly documentation and interactive DVD	Updated?	Yes	Date of last version: 12 December 2007										

### Mission

(Please provide a short description of the mission of your ETP)

<p>The NESSI mission is to develop a visionary strategy for software and services driven by a common European Research Agenda, where innovation and business strengths are reinforced by:</p> <ul style="list-style-type: none"> <li>- providing European Industry and the Public Sector with efficient services and software infrastructures to improve flexibility, interoperability and quality;</li> <li>- mastering complex software systems and their provision as service oriented utilities;</li> <li>- establishing the technological basis, the strategies and deployment policies to speed up the dynamics of the services eco-system;</li> <li>- developing novel technologies, strategies and deployment policies that foster openness, through the increased adoption of open standards and open source software as well as the provision of open services;</li> <li>- fostering safety, security and the well-being of citizens by means of new societal applications, enhanced efficiency of industry and administrations, and competitive jobs; hence transforming the European economy into a knowledge based economy and enabling the European software and IT services industry to attain a stronger global position. NESSI operates in the context of a</li> </ul>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<sup>1</sup> Slides are available on the NESSI Web site. The Interactive DVD is available on request to Bruno.francois-marsal@thalesgroup.com

wide continuum of information and communication technologies, and envisages close collaboration with other global research initiatives.

### Technology areas

(Please provide the 3 most important technology areas your ETP is focusing on)

The most important focus of NESSI is the delivery of NEXOF, the NESSI Open Service Framework. The framework includes many different areas, which are defined in the successive volumes of the SRA. The framework is built through an open contribution model, managed for the years 2008 and 2009 by NEXOF-RA, an FP7 IP project. Contributions come from many sources, including the NESSI Strategic Projects which deliver key elements of NEXOF. In this context, the 3 most important technology areas are :

1.Trustworthy software & services : Trust Security Dependability
2. Service Oriented Infrastructure and SLA management framework
3.Semantic web Services, Context management, Front end access, service composition

### Organisational Structure

High level governing body? (e.g. board, committee, ...)	NESSI is driven by the NESSI Board, which is the highest committee level and which meets twice a year. Platform operations are driven by the NESSI Steering Committee which meets every 4 to 6 weeks. In addition, specific committees (SRA, Standardisation, Strategy & Communication) focus on specific topics in close collaboration with the NESSI Steering Committee.		
Number of meetings of governing body	2005	2006	2007
	6	12	16
Secretariat (support group)	Since 2006, NESSI is supported by the NESSI Office under the management of an Office Director.		
How is the Secretariat funded?	The Office is mainly funded by the NESSI industrial partners with partial funding for the period 1/4/2006 to 31/3/2010 from EU SSAs NESSI-Soft and NESSI-2010.		
Use of horizontal task groups?	Yes 8 Working Groups and Committees have been created in 2006, 1 SME working group in 2007, 1 Open source working group in 2008		
Legislation	<input type="checkbox"/>		
Markets	<input type="checkbox"/>		
Sustainable development	<input type="checkbox"/>		
Environment	<input type="checkbox"/>		
Communication	<input checked="" type="checkbox"/> Strategy & Communication Committee		
Training	<input type="checkbox"/>		
Other	<input checked="" type="checkbox"/> <i>Committees:</i> SRA, Future Internet, Standardisation <i>Working Groups:</i> Business Process Management, Open Source, Semantic Technology, Service Engineering, Service Oriented Infrastructure, Services Sciences, SME, Software Engineering, Trust Security & Dependability, User Services Interactions		
Number of meetings of horizontal task groups	2005	2006	2007
	0	12	>25
Use of vertical expert working groups?	Yes Ehealth, IGovernment, (and energy and transport under analysis)		
Number of meetings of vertical expert groups	2005	2006	2007
	0	2	2

Is there a mirror group?	yes
--------------------------	-----

Number of meetings of Mirror Group	2005	2006	2007
	3	3	2
Number of countries represented in the Mirror Group	2005	2006	2007
	Not constituted yet	14	16
Do any national technology platforms exist?	Yes		
In which countries	Spain, Slovenia, Norway, Belgium, Turkey, Bulgaria, Hungary, The Netherlands.		

## II. KEY INDICATORS

*Remark: if data is not available on annual basis, please fill in the cumulative or actual total (i.e. the total of the last available year)*

### Membership

	2005	2006	2007
Total number of registered members			286 members
Number of large companies (>250 employees)			
Number of SMEs (< 250 employees)			63
Number of Research Institutes			147
Number of sector federations, associations			
Number of NGOs			
Number of governmental bodies			
Other			12 (users) + 63 (ICT)
Number of "core" members (e.g. steering group members)	15	22	22 partners <sup>2</sup>

### Human resources

	2005	2006	2007
Number employees in the ETP secretariat (in FTE)	1	1,5	2,1
Number of FTE representing the core members	15	20	25

### SRA and implementation

Number of revisions of the developed SRA	<p>The NESSI Strategic Research Agenda is issued in 3 volumes.</p> <p>Volume 1 – framing the context of the service economy. This volume introduces the NESSI holistic model and was released in 2006.</p> <p>Volume 2 – a strategy to build NESSI. This volume introduces NEXOF and the open contribution model. It was released as a draft in December 2007 and in a public version in March</p>
------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<sup>2</sup> Total -members plus partners – was 298 end of 2007

	<p>2008.</p> <p>Volume 3 – issued in multiple issues, this volume focuses on short, mid and long term roadmaps. Two issues have been released: the first one, released in July 2006, focuses on contribution to the FP7 work programme for 2007-2008. The second one, released in February 2008, focuses on contribution to the FP7 work programme for 2009-2010.</p>			
<p>Number of launched R&amp;D projects (FP or otherwise)</p>	<ul style="list-style-type: none"> <li>• 6 NESSI Strategic Projects: EzWeb, Master, NEXOF-RA, Reservoir, SOA4ALL, SLA@SOI.</li> <li>• 3 NESSI Compliant Projects: TAS<sup>3</sup>, Compas, PrimeLife2.</li> <li>• 3 Support Actions: NESSI-Soft, NESSI-Grid, NESSI-2010</li> <li>• 1 NoE: S-Cube (outside of NESSI but has established close cooperation)</li> </ul>			
<p>Projects/actions related to improving the context for R&amp;D and innovation (regulation, standards, ...)</p>	<ul style="list-style-type: none"> <li>• NEXOF-RA: management of an open contribution model improving the impact of R&amp;D in delivering a service framework</li> <li>• NEXOF-RA: contribution to interoperability and standardisation in the area of services</li> <li>• NESSI-2010: contribution to the dissemination of research on services and the promotion of active participation</li> <li>• NESSI-Grid: setting up of a community and contribution model towards the entire Grid community to contribute to the NESSI SRA (effective since 06/2007)</li> <li>• NEXOF-RA: contribution to adoption mechanisms of new services infrastructures</li> <li>• NESSI Open Source Working Group</li> <li>• NESSI Standardisation Committee</li> <li>• Inter-ETP collaborations: eMobility, EPoSS, ISI, NEM and NESSI actively collaborating on common vision and research towards Future Internet</li> </ul>			
<p>Projects/actions related to networking and information</p>	<ul style="list-style-type: none"> <li>• NEXOF-RA: creation of a NEXOF Interactive dissemination and information tool</li> <li>• NESSI-Soft, NESSI-Grid, NESSI-2010: creation, management and participation to NESSI events and external events</li> <li>• NESSI-Soft, NESSI-2010: creation of NESSI related information tools (newsletters, Web site)</li> <li>• NEXOF-RA: contribution to interoperability and standardisation in the area of services</li> <li>• Inter-ETP collaborations: eMobility, EPoSS, ISI, NEM and NESSI actively collaborating on common dissemination towards Future Internet. For instance, common booth proposed at ICT 2008.</li> </ul>			
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">2005</td> <td style="width: 33%; text-align: center;">2006</td> <td style="width: 33%; text-align: center;">2007</td> </tr> </table>	2005	2006	2007
2005	2006	2007		

Number of proposals <b>submitted</b> by ETP or members of ETP in order to implement SRA	NA	NA	9 NSP <sup>3</sup> + (1SSA + 1NOE) <sup>4</sup>
Under FP			All but 1
Under Structural Funds			0
Under other programmes schemes			1
Number of proposals <b>approved</b> by ETP or members of ETP in order to implement SRA		2 SSA	6 NSP 1 SSA 1NOE <sup>5</sup>
Under FP		2SSA	5 NSP 1 SSA 1 NOE
Under Structural Funds			
Under other programmes schemes			1 NSP

#### Financial resources

Total operational budget (in 1000 EUR) (= budget for the functioning of the secretariat) <sup>6</sup>	2005	2006	2007
Private resources		146 k€	175 k€
Resources from FP6/FP7		285 k€	371 k€
Other EU funding (e.g. structural funds)			
Other governmental funding (national, regional, local)			

R&D budget granted for implementation of SRA	2005	2006	2007 <sup>7</sup>
Private resources	TBD	3000 k€	2000 k€ <sup>8</sup>
Resources from FP6/FP7	0	250k€ /122k€	330k€/122k€ <sup>9</sup>
Other EU funding (e.g. structural funds)		0	0
Other governmental funding (national, regional, local)		0	0
Number of proposals submitted/ approved			7/11 <sup>10</sup>

#### Identifying training needs and/or organising training

	2005	2006	2007
Number of training sessions organised	N/A	N/A	N/A
Number of participants in training programmes organised by ETPs	N/A	N/A	N/A

#### Sharing knowledge, communication and awareness raising

<sup>3</sup> NSP NESSI Strategic Project

<sup>4</sup> + 5 NCP Compliant project

<sup>5</sup> + 2 NCP

<sup>6</sup> Figures displayed are those of NESSI Office Budget . Consequently they don't cover SRA elaboration or Interlinking activities.

<sup>7</sup> We understand this question as related to the cost of manpower to elaborate the SRA and identify research topics

<sup>8</sup> Gross estimate most probably under the real costs

<sup>9</sup> NESSI SOFT + NESSI GRID

<sup>10</sup> FP7 call 1

	2005	2006	2007
Number of publications (articles, brochures ...)	<ul style="list-style-type: none"> <li>• 1 press release</li> <li>• 1 vision brochure</li> <li>• 1 vision flyer</li> </ul>	<ul style="list-style-type: none"> <li>• 1 press release</li> <li>• 4 newsletters</li> <li>• 4 flyers</li> <li>• 1 advertisement</li> <li>• 2 SRA volumes</li> </ul>	<ul style="list-style-type: none"> <li>• 3 newsletters</li> <li>• 4 flyers</li> <li>• 1 movie</li> <li>• 2 SRA volumes</li> <li>• 1 Grid SRA volume</li> <li>• 1 chapter – ETP book</li> </ul>
Number of website pages developed	15	45	83 <sup>11</sup>
Number of ETP events (congress, conferences, information sessions, lectures, other activities...)	1	1	2
Participation of ETP in network events (e.g. presence at exhibitions, participation in workshops, conferences, giving presentations)	7	77	93
Number of plenary members meetings	1	1	1

### Major achievements in 2007-first quarter of 2008

(Please provide a short description, where appropriate)

<b>1. What changes have you made to your SRA?</b>
Elaboration of SRA Volumes 2 and 3 Definition of NESSI delivery as NEXOF Elaboration of NESSI Scenarios
<b>2. How have you changed your structure?</b>
Creation and management of NESSI Research structure, fostering NESSI Strategic and Compliant projects Launch of 3 new Working Groups (iGovernment, SME, Open Source) Launch of 1 Committee ( Future Internet)
<b>3. How have you changed your legal status?</b>
Not yet, this subject is under analysis
<b>4. How have you changed the way the Platform is financed?</b>
The Platform is funded by industrial partners and supported by support actions. a) Industrial Partners finance their participation on a shared basis, with a flat fee for 2006 and 2007. b) For 2008, the financial model is still being analysed c) For 2006 to 2010, 4 of the NESSI partners are in addition actively investing human resources for common activities such as operation of NESSI Office, dissemination activities( events, flyers, IT infrastructure, newsletters etc), interlinking (national platforms) etc. These partners receive funding from the NESSI SSAs (NESSI-Soft, NESSI-Grid and NESSI-2010). d) No membership fee is requested
<b>5. What cooperation have you developed with other platforms?</b>
- Meetings in 2006 and 2007 with eMobility, EPoSS, ISI and NEM - Currently participating to two Working Groups: one WG defining a common vision for Future Internet, one WG analysing the possibility of creating a common JTI on the topic of Future Internet - Common proposal to set up a joint information booth at ICT 2008 - Future Internet session during ServiceWave 2008 organised by all ETPs (December 2008) - Collaborating in participation to Future Internet Assembly activities - Initial plan to define common research proposals for Call 4 and Call 5 under FP7
<b>6. How have you collaborated with national platforms?</b>

<sup>11</sup> Including private page of the web site for members/partners/working group and committees

National NESSI platforms have been created with similar structure and vision to NESSI. Many of the national actors participating in those national platforms are also part of NESSI, facilitating the exchange of information. NESSI documents are being distributed to all those national platforms and adopted as reference documents for them. For example, the program Jacquard is the national pendant of NESSI. In the Netherlands a structure of ICT Innovation Platforms has been formed, modelled to the ETP set-up. There is a dedicated one on software as a service. NESSI GA 2007 incorporated a session on national and international collaborations where national platforms presented their latest advances.

**7. How have you cooperated with national/regional governments?**

NESSI is linked with the national and regional governments through the national representatives of the Member States Committee. But the most relevant cooperation has been implemented through the national technology platforms. Due to their close contact with their national and regional governments, they are disseminating NESSI framework and achievements.

**8. Have you carried out any activities in the area of international research cooperation?**

The activities so far have been focused on raising awareness on NESSI at international level. This task has comprised contacting several projects focused on boosting international collaboration, namely FASSBINDER, Ni-Hao, ECHO-GRID and QUALIPSO; and attending events of international relevance such as the ones organised around ICSOC, EGEE and collaboration with China and Japan.

**9. How has your deployment strategy developed?**

The deployment strategy has evolved with

- a) The creation of the delivery of NESSI as NEXOF, the NESSI Open Service Framework
- b) The setting up and the advertisement of a NESSI research structure designed to ensure open contribution from many different sources towards the creation of NEXOF
- c) The launch of the first 6 NESSI Strategic Projects
- d) The enlargement of the NESSI General Assembly to move from an "information" event to an extended information and working event. In 2008, this event will evolve in a 4 day event, ServiceWave 2008, which will include a scientific track, industrial panels, common ETP sessions on Future Internet and working meetings

Overall, the deployment strategy which was initially driven by the vision of services is now expanded to move towards a delivery phase, including a coherent and consistent management of research.

**10. Have you developed any new research infrastructure?**

We are proposing to set up a pan European infrastructure network linking different laboratories, enabling the testing and validation of compliance to NEXOF on the one hand and the deployment and validation of NEXOF through scenarios.

This proposal is not currently implemented but will be worked on in the coming 2 years.

**11. What are the next steps of your ETP?**

The major steps are

- a) the elaboration of NEXOF and the management of the open contribution model.
- b) the investigation of the adoption barriers in terms of services, at the legal, infrastructure and systemic levels
- c) the creation of additional scenarios to validate NEXOF through real-life approaches
- d) the effective linkage towards user communities, specifically in the areas of iGovernment and health, with additional areas under analysis such as energy, transport, skills and learning
- e) the collaboration with the other ICT ETPs to define a common vision on the Future Internet and the role of services in this vision

In parallel, through the collaboration with the other ETPs active in the ICT area, NESSI is also analysing the pros and cons of creating a joint JTI focused on the Future Internet topic.