



⇒ **NESSI – Software & Services
European Technology Platform**



NESSI - mid 2004: The Birth ↩

Software & Services: A very significant European market

- More than 215 B€ revenue – 4.4% growth in 2005, more than 6% expected in the 5 coming years
- More than one million specialists

An engine for growth in Europe

- Software and Services have become a **strategic capability**

Technological changes

- A shift from Software products to Services
- Increasing complexity and connectivity
- A Need for large distributed and increasingly transparent systems

13 Industrial founders and the EC estimate that we need to foster the ability of European industry to master IT for innovation and growth



NESSI - September 2005: The Launch

NESSI was **launched as a Technology Platform** on the 7th of September 2005 in the Presence of Commissioner Viviane Reding

NESSI ambition is to

- develop a **visionary unified European strategy**
- implement technologies for
 - services architectures
 - software and grid infrastructures
 - trustworthy systems and services
- **For industry**
- **For governments and administrations**
- **For citizens**



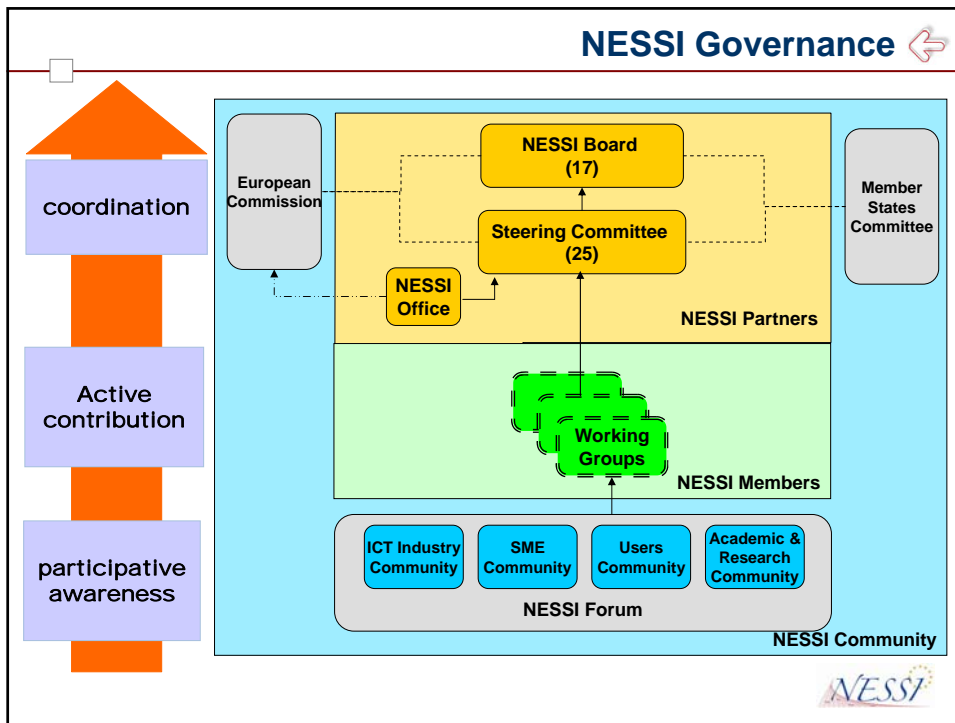
NESSI: The Mission

*To develop a visionary strategy for software and services driven by a **common European Research Agenda**, where **innovation and business strength** are reinforced by:*

- providing European Industry and the Public Sector with efficient **services and software infrastructures** to improve flexibility, interoperability and quality;
- mastering **complex software systems** and their provision as service oriented utilities;
- establishing the technological basis, the strategies and deployment policies to speed up the dynamics of the **services eco-system** ;
- 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**;
- 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 - Today

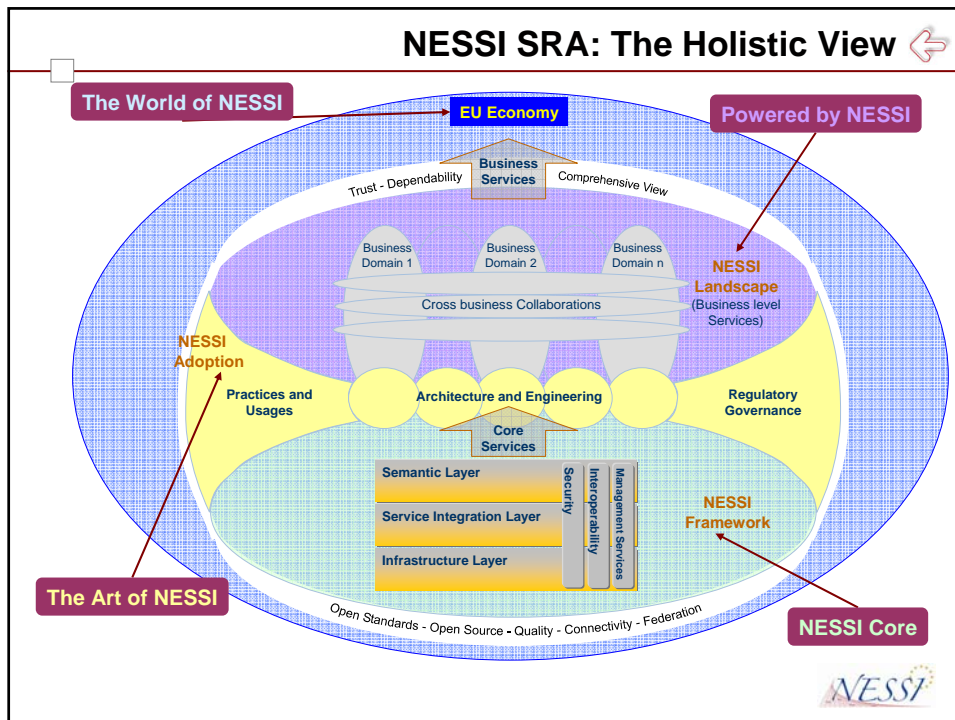
Strategic Research Agenda

- SRA Volume 1: available
- SRA Volumes 2 (Strategy) and 3 (Roadmap): November 2006
- NESSI Input for FP7: Issued to the EC

Setting up of Working Groups
1st General Assembly on June 8th: Enlargement to 22 Partners

The slide displays 22 partner logos arranged in four rows. The logos include: Atos Origin, BT, ENGINEERING INGEGNERIA INFORMATICA, hp invent, IBM, NOKIA CONNECTING PEOPLE, ObjectWeb, SAP, SIEMENS, SOFTWARE AG THE XML COMPANY, TELECOM ITALIA, Telefonica, THALES, ALCATEL, logicaCMG, RODAN SYSTEMS S.A. ZARZADZANIE INFORMACJA, TIE, lero, Sun Microsystems, MOMA software e ricerca, and Fraunhofer Institute Algorithms and Scientific Computing.

And more than 200 NESSI Members (ICT, SME, and Academics)



- ## NESSI SRA: FP7 Research Areas Recommendations
- **Software and Service Engineering**
 - Because evolving business process is too long and costly to exploit new opportunities
 - **Service oriented utility infrastructure**
 - Because dealing with IT resources is an unnecessary burden
 - **Trust, Security and Dependability**
 - Because mechanisms are not in place to build trust between users and providers
 - **Open Source, Open Standards**
 - Because we need strong interoperability and to avoid Market evolution be locked-in by vendors
 - **Legal, social and cultural and scientific issues**
 - Because old habits are always in the way
 - **Knowledge and behaviour representation**
 - Because computers allow the input of data but not the expression of needs and users are not in control of systems behaviour
 - **Business Processes collaboration**
 - Because business processes are isolated and fragmented (private to organisation, discipline, ...) forcing individual solutions
-

NESSI: The Grand Challenge ↩

Transform the Internet to service your life

By making the Internet

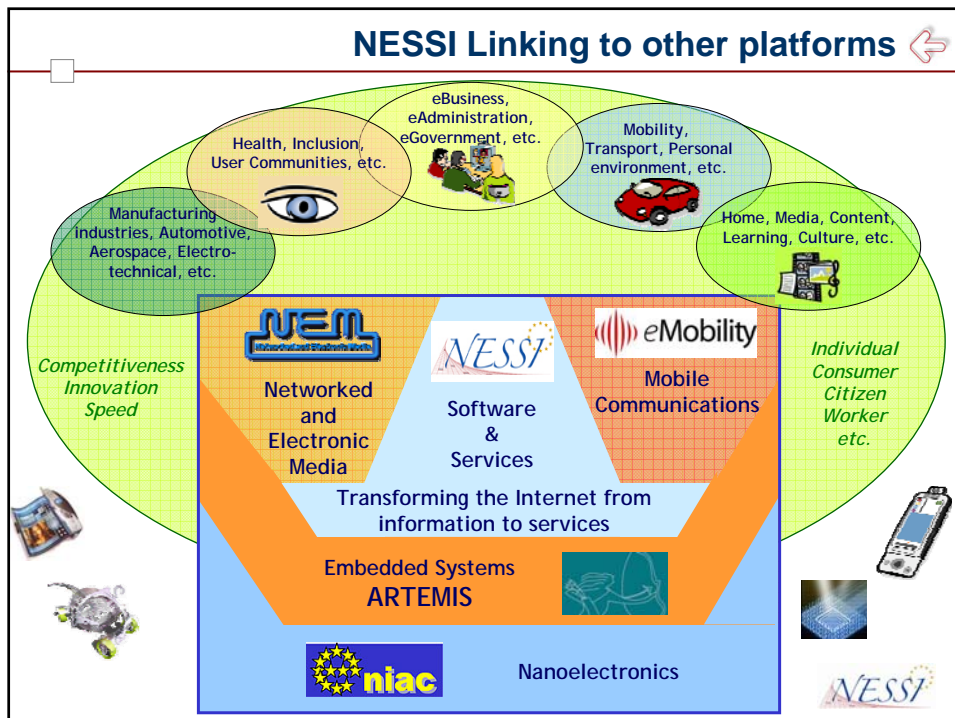
- **Alive**
 - Allowing new dynamic and user friendly Services
- **Pervasive**
 - From pervasiveness of ICT to pervasiveness of Trust
- **Rich**
 - Through knowledge
- **Invisible**
 - Thanks to ICT and middleware infrastructure

Web 3.0 for the 2010's...

....replacing the "Net economy"
by the "Service economy"



NESSI Linking to other platforms ↩



Complementarity between platforms

The purposes of the platforms are very complementary

- NEM feeds content and services for multimedia
- ARTEMIS provides platforms for embedded systems
- ISI deals with satellite communications
- eMobility transports services and defines communication standards.

And NESSI provides the overall software infrastructure,
NESSI doesn't intend to provide services!

But there are "normal overlaps"!



Overlaps between platforms

NESSI wants to define and provide a kind of backbone for European Services....
Transforming the Internet to service your life...

- But eMobility wants to define Intelligent services, novel services and service platform end to end (Device as well as Network side)
making service creation and delivering as easy as constructing and delivering web pages
- One of the five challenges of NEM is to create interoperable network infrastructures that enable seamless multimedia networking



A need for a structured interlinking coordination

Complementarities and overlaps must be optimised

- Through a coordination body
- at management and technical levels (SRAs, WG)

- Through common test beds

- A “European full scale Demonstration Center” is part of the NESSI SRA
 - Both physically and virtually in one or several connected locations in Europe
 - To demonstrate the potential of NESSI resulting technology
 - To be the place where scenarios spanning the interests of other ETPs can be explored

