NETWORKED EUROPEAN SOFTWARE & SERVICE INITIATIVE

NESSI – Software & Services European Technology Platform
Rennes, IRISA, 26th June 2007

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NESSI

NESSI ETP wishes to achieve the **Lisbon Summit** objective through a strong partnership.

NESSI ETP is a public-private partnership, led by industry -**ICT industry & Telco operator & IT services companies**

Juan Manuel Barroso, Lisbon Summit, March 2000

Together these companies represent **1.7 Million strong workforce**, 490 B€ in revenues and NESSI has presented an initial Strategic Research Agenda that it estimates require a private-public **investment of up to 2.5 B€**.

Today, up to **250 organisation members** have joined NESSI and are participating to its existing and upcoming **working groups (9)**.

- **A mission : to Guarantee growth, employment and competitiveness in Europe**

- **NESSI Partners have recognised that no single company can or should harness the power of such an environment**

- **NESSI Members will build new standards**

- **And develop**
  - **ICT innovation and open standards**
  - **NESSI Services oriented architectures (SOAs)**
  - **Seamless Access to Services through Internet**
  - **Technology transparent to Users**

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Transform the Internet to "service" your life

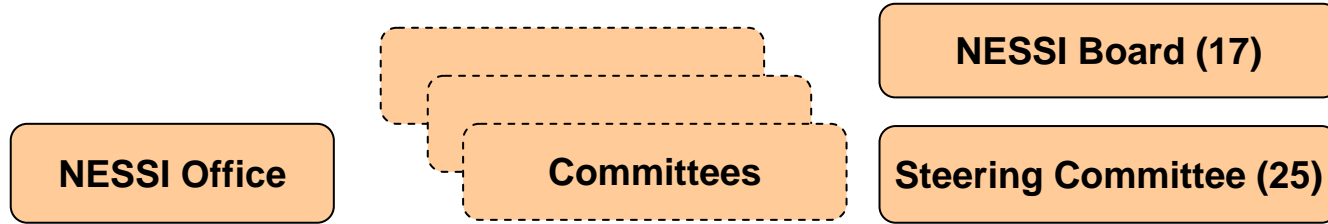…ensuring that services can be provided to all, citizens and businesses alike, in safe, secure, reliable, extensible, scalable environments

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"Vision without implementation is illusion"

- **Governance document**
  - NESSI, a platform **open** to new members
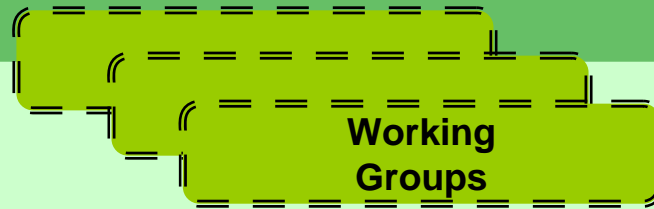 - Approve the rules and **share the vision**
  - Getting organized

- **Strategic Research Agenda (SRA)**
  - translate the NESSI **vision into action**
  - guide NESSI's implementations

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NESSI Partners

NESSI Office

Committees

NESSI Board (17)

Steering Committee (25)

NESSI Members

Contributing to NESSI through **Working Groups**

Working Groups

IST Projects

Contributing to NESSI

Interested in NESSI

NESSI Forum

ICT Industry Community

SME Community
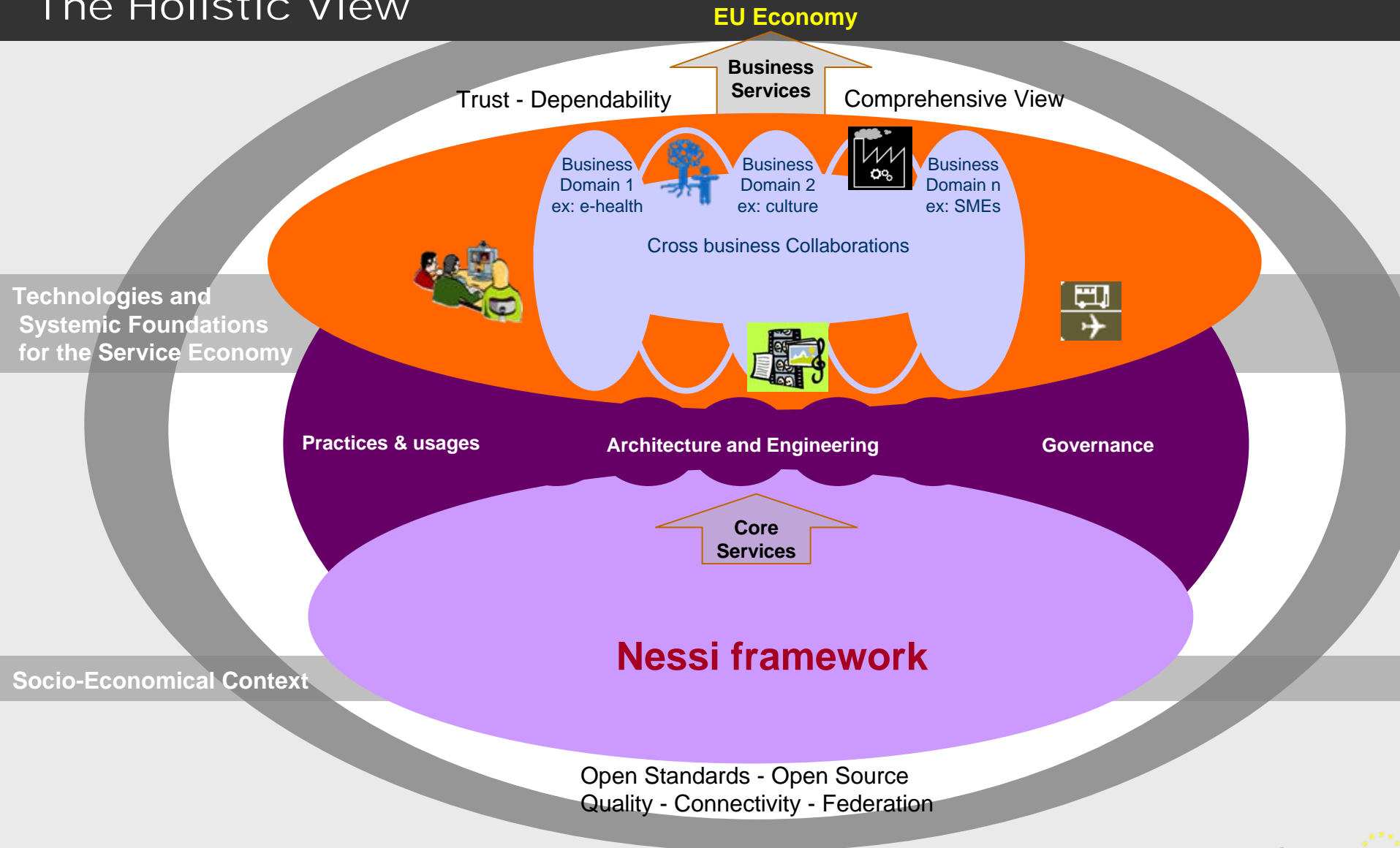
User Community

Academic & Research Community

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Three main steps:

- **The why (context, reasons why):**
  Framing the future of the service oriented economy

- **The what (what we need to advance):**
  The Strategy to build NESSI

- **The how:**
  The NESSI Roadmap

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Through co-operation with the other **ETPs** and EU research framework programmes (**FP7**), industry, academics and research partners are organized to transform the vision into reality.

The Holistic View

EU Economy

Business Services

Trust - Dependability

Comprehensive View

Business Domain 1 ex: e-health

Business Domain 2 ex: culture

Business Domain n ex: SMEs

Cross business Collaborations

Technologies and Systemic Foundations for the Service Economy

Practices & usages

Architecture and Engineering

Governance

Core Services

Nessi framework

Socio-Economical Context

Open Standards - Open Source
Quality - Connectivity - Federation

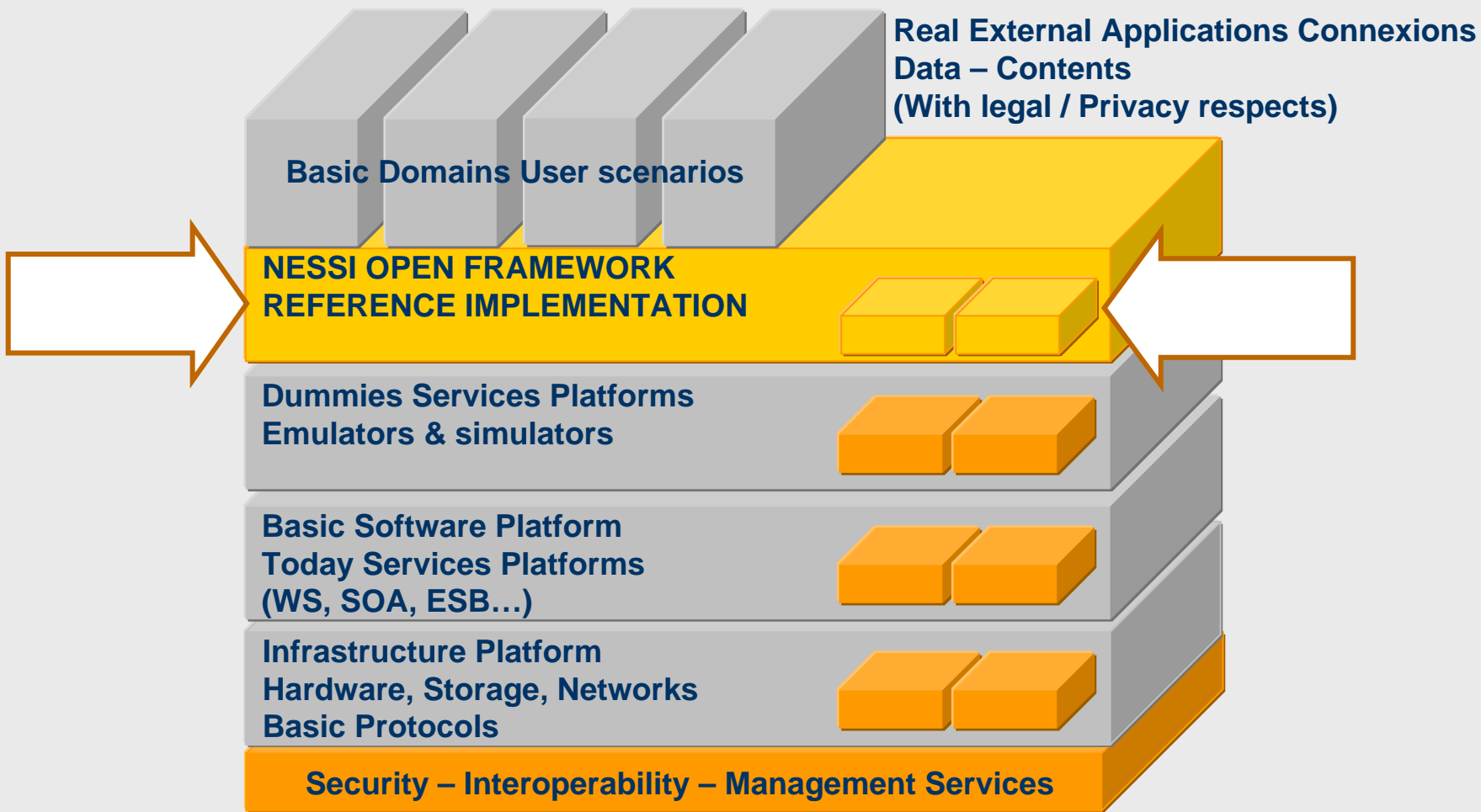NESSI

Develop and implement the **Nessi open framework**

→ **Open standard model**

→ One **Open Source** implementation of the NESSI open framework

Implement the Nessi testbeds Network: "**European Nessi full scale demonstrator**" on the basis of existing projects

→ E-Health: European Personal Medical Record

→ Pan-European e-procurement (Manchester initiative)

→ European Digital Library

→ Galileo infrastructures services

→ Etc.

- **A "European Full scale demonstrator" will be set up in several connected locations in Europe in order to run different test-beds, proofs of concepts, demonstrators and pilots based on NESSI Framework**

- NESSI Testbeds (network of) will be able to host industrial partners, academics and other users (e.g. EC, members states….) and will provide all the facilities in terms of:

    - Engineering capabilities
      (Modeling, Simulation, Architecture, Human factors, Operational analysis)

    - Integration & Interoperability platforms (e.g. Plug test)

    - Benchmark & tests platforms (e.g. Scenarios and Profiles)

    - Demonstrations and Visualizations capabilities

    - Compatibility & Compliance in all sense (technical, standards, legal…)

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Real External Applications Connexions
Data – Contents
(With legal / Privacy respects)

Basic Domains User scenarios

NESSI OPEN FRAMEWORK
REFERENCE IMPLEMENTATION

Dummies Services Platforms
Emulators & simulators

Basic Software Platform
Today Services Platforms
(WS, SOA, ESB…)

Infrastructure Platform
Hardware, Storage, Networks
Basic Protocols

Security – Interoperability – Management Services

Provide a connected (Infrastructure + Contents) network of test-beds that allows

- To develop NESSI infrastructure and framework
- To provide interoperability for services and service environments
- To enable interoperability facilities with others platforms
- To prepare standardization

- **To provide a software environment that serves NESSI research projects for Proof of Concept to validate their approaches**

- To identify and develop the adequate provisions, architecture, algorithms, and parameterization for services and infrastructure
- …

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Actively participate to the Call1 and 2 of the IST

Finalize the Nessi's Strategic Resarch Agenda (SRA) roadmap

Increase SMEs and users participation and involvement

Expand beyond IST (National initiatives, FP7)

Next General Assembly in October 2007

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"**