

Future Internet Research and Experimentation

**Issues for the Breakout Session
on Services and Software**

Anastasius Gavras
gavras@eurescom.eu

eMobility - NEM - NESSI - ePosss - ISI

- TRILOGY
- 4WARD
- EFIPSANS
- E3
- SENSEI
- CHIANTI
- PSIRP
- N-CRAVE
- MOBITHIN
- MOMENT
- AUTOI
- SMOOTH-IT
- SOCRATES
- ETNA
- SENDORA
- EURO-NF (NoE)
- sISI
- EIFFEL
- eMOBILITY
- MobileWeb2.0

- ONELAB2
- PII
- ANA
- HAGGLE
- ECODE
- FEDERICA
- NanoDataCenter
s
- OPNEX
- RESUME-NET
- VITAL++
- Wisebed
- FireWorks
- PARADISO

- ASPIRE
- COIN
- CuteLoop
- iSURF
- CASAGRAS

- P2P NEXT
- TA2
- 2020 3D Media
- NAPA-WINE
- SEA
- ADAMANTIUM
- SAPIR
- VICTORY
- PetaMedia
- CONTENT
- 4NEM

- IRMOS
- NEXOF-RA
- RESERVOIR
- SLA@SOI
- SOA4ALL
- OPEN
- SHAPE
- m CIUDAD
- PERSIST
- SERFFACE
- S-CUBE
- Service WEB 3.0
- NESSI 2010

- MASTER
- TAS3
- PRIMELIFE
- TECOM
- AVANTSSAR
- AWISSENET
- INTERSECTION
- WOMBAT
- PRISM
- SWIFT
- PICOS
- eCRYPT II
- FORWARD
- THINK-TRUST

Network
Architecture and
Mobility

Internet of "Things"

Content creation
and delivery

Services
Architectures

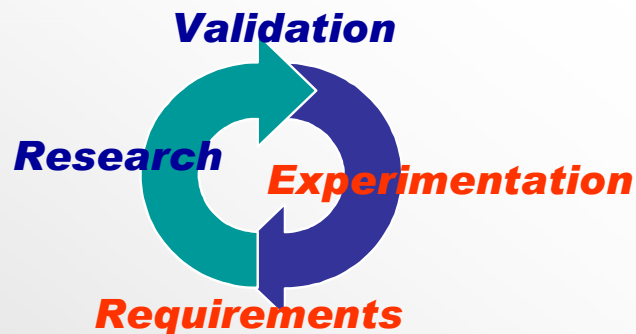
Security, Privacy and Trust

Experimental facilities and test beds

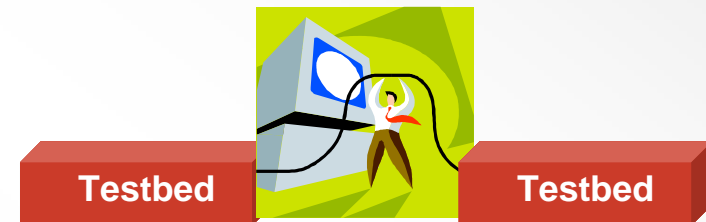
Future Internet Research and Experimentation – FIRE

Two related dimensions of FIRE

Experimentally driven
advanced research



Building a European
Experimental Facility



The Call 2 - Objective 1.6 "New Paradigms and Experimental Facilities" projects are the first steps under FP7 towards building FIRE

Characteristics

- ▶ Services and software are enablers for
 - building the Future Internet
 - supporting Experimental Facilities in their operations
- ▶ Experimental Facilities are facilitators that
 - support the trial and evaluation of service concepts, technologies, system solutions and business models
 - Help reducing the risks associated with launching these as commercial products
- ▶ Experimental facilities as well as services and software call for
 - Openness in access
 - Dynamicity (arising from a different need)
 - Governance, distributed control
 - Security and trust
 - Interoperability...
- ▶ End-user centric
 - Seek to incorporate user-driven innovation
 - Assess the usability and socio-economic impact

Issues

- ▶ How to effectively involve additional disciplines in the research?
 - Motivation of researchers, structural problems...?
- ▶ What is the time-span of the research?
 - Which are the needed and appropriate long-term instruments?
- ▶ Scope and expected value of concrete and visionary research
 - How to meet future requirements for experimentation by ongoing research?
 - What must be supported by a large-scale experimental facility?
 - How do we find out what would be of benefit for the area “Services and Software”?

Issues

- ▶ Design principles and characteristics of the experimental facility
 - How do Services and Software contribute to virtualisation, auto-configuration, modularisation, security and trust, etc.?
- ▶ How can the experimental facility effectively support the research cycle?
 - How to plan for future inclusion, integration, and use of maturing technologies from Services and Software that become relevant offerings by the Experimental Facility?
- ▶ Joint industry commitment and academic involvement
 - How to promote close collaboration?
 - How does this collaboration contribute to the sustainability of the facility?