

Future Internet Cluster

9 June 2009

Santander



- EC -
European Future Internet

**Science
&
Scientific
Approach**

EIFFEL
(with links
to FIRE,
FIND/GENI,...)

**Projects
Based
Approach**

FI Cluster

FIA

**Industrial
&
Commercial
Relevance**

ETPs

Science based approach
Peer-review and peer-discussion
Long-Term, High-Risk, Exploratory
Advice & Challenge

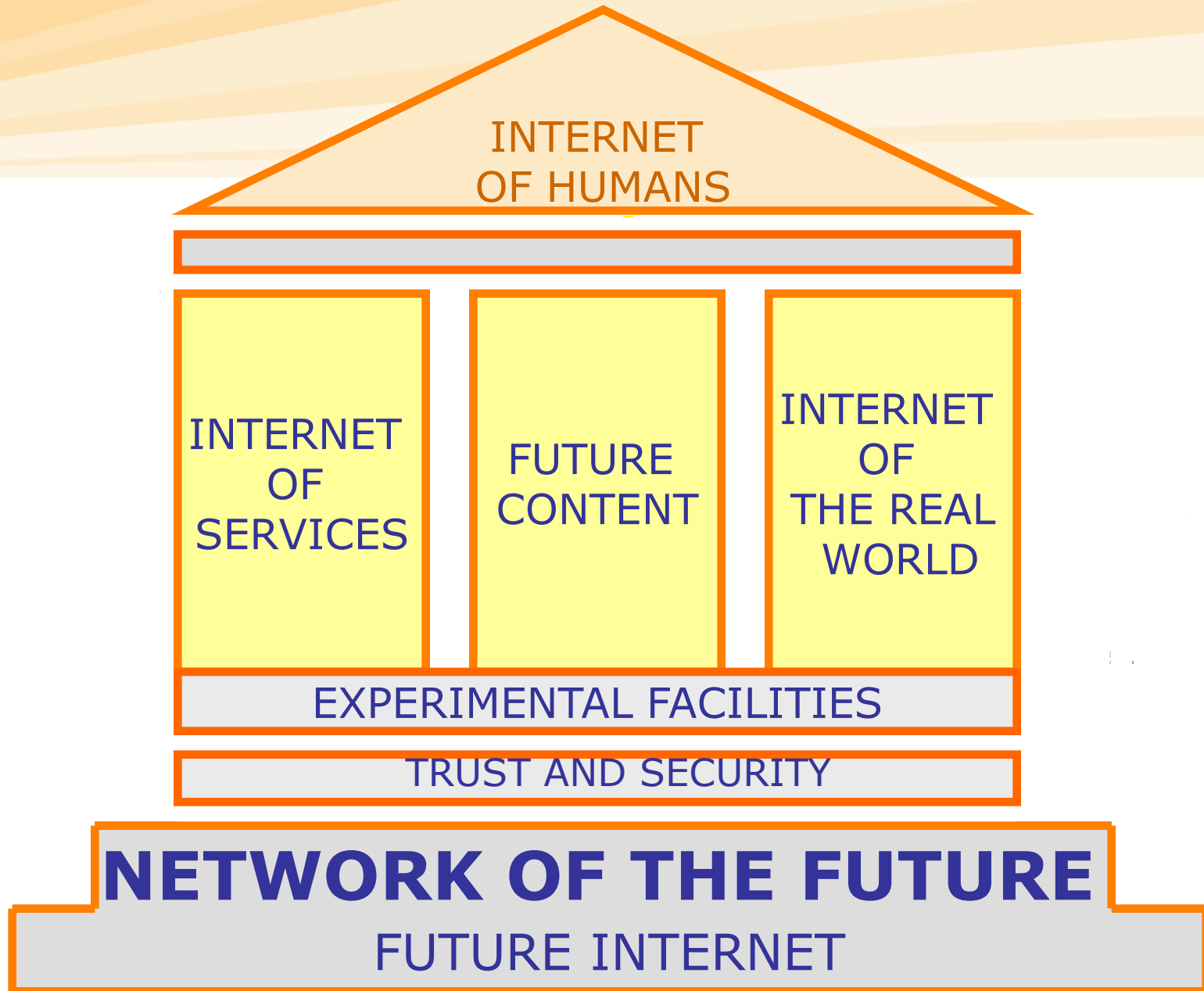
Gather Projects Together,
Exchange Ideas, Voluntary
Coordination on Message
and Cooperation, Disseminate
Project centric

Provide larger view on
the stakeholders view,
Gather larger view,
Commercial reality, Industrial
Opportunities and Requirements

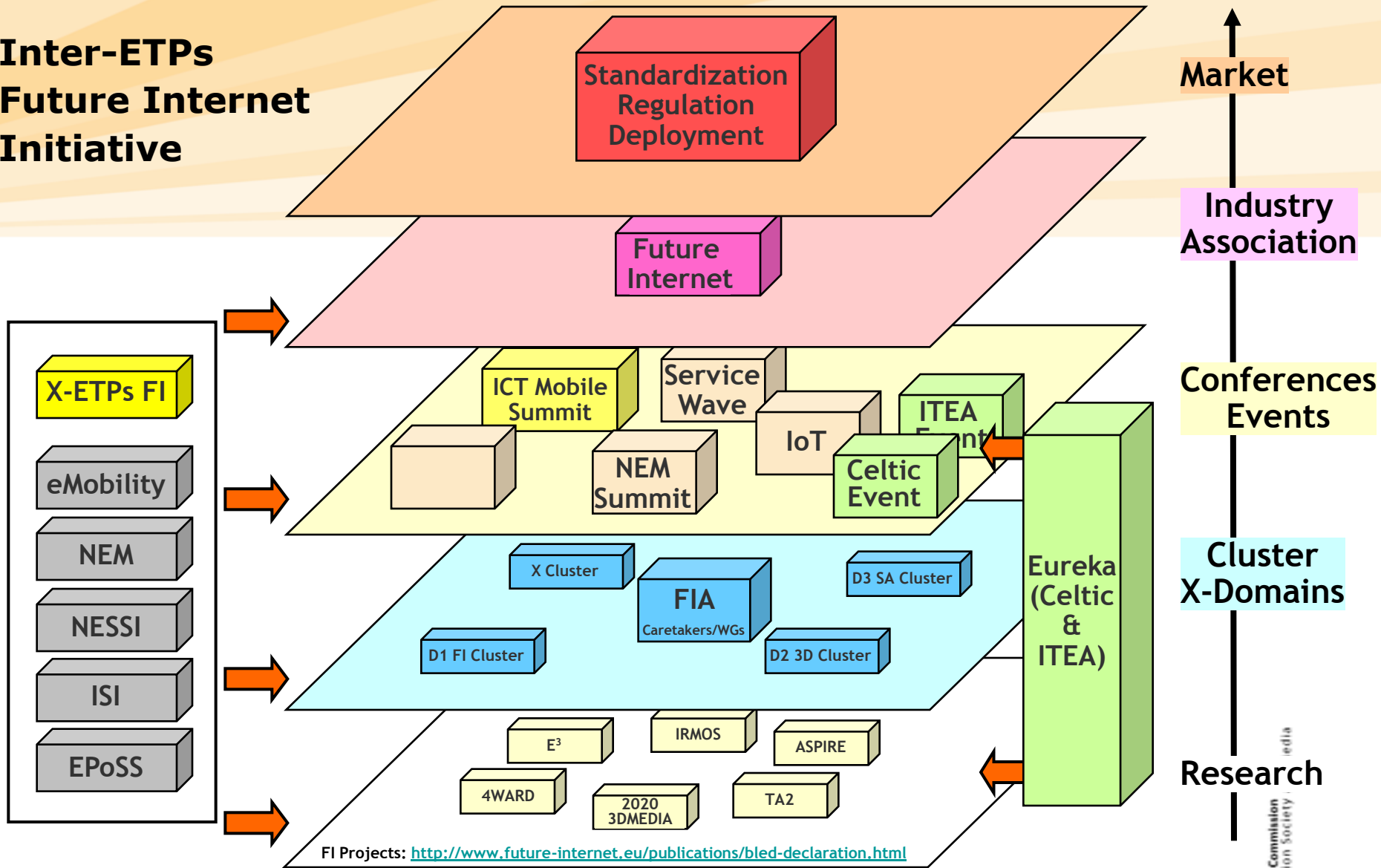
Horizontal Interaction: data delivery, opinion delivery



FUTURE INTERNET ECOSYSTEM

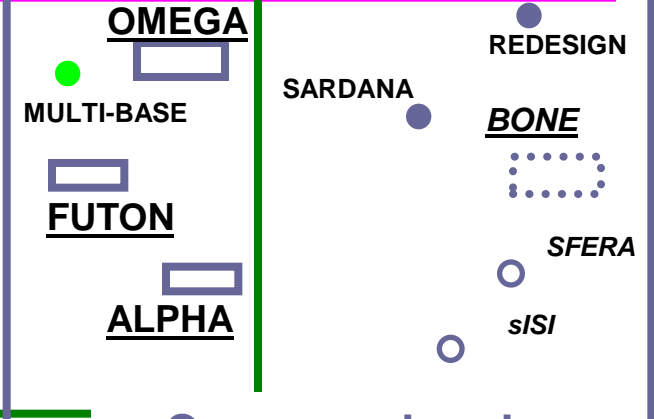
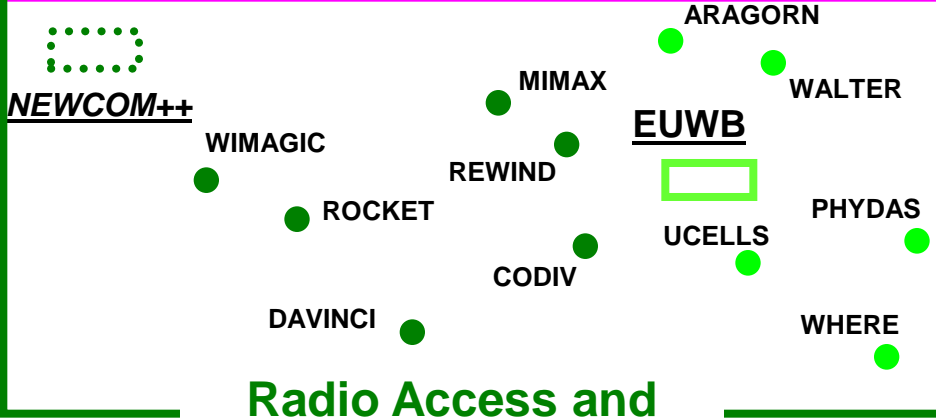
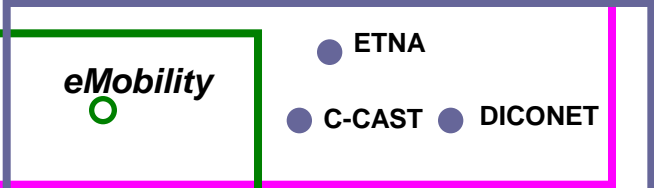
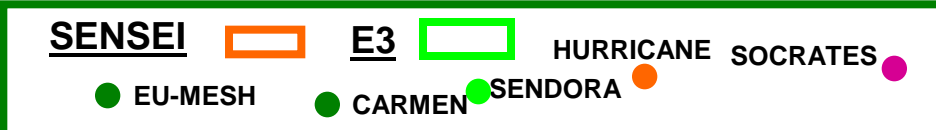
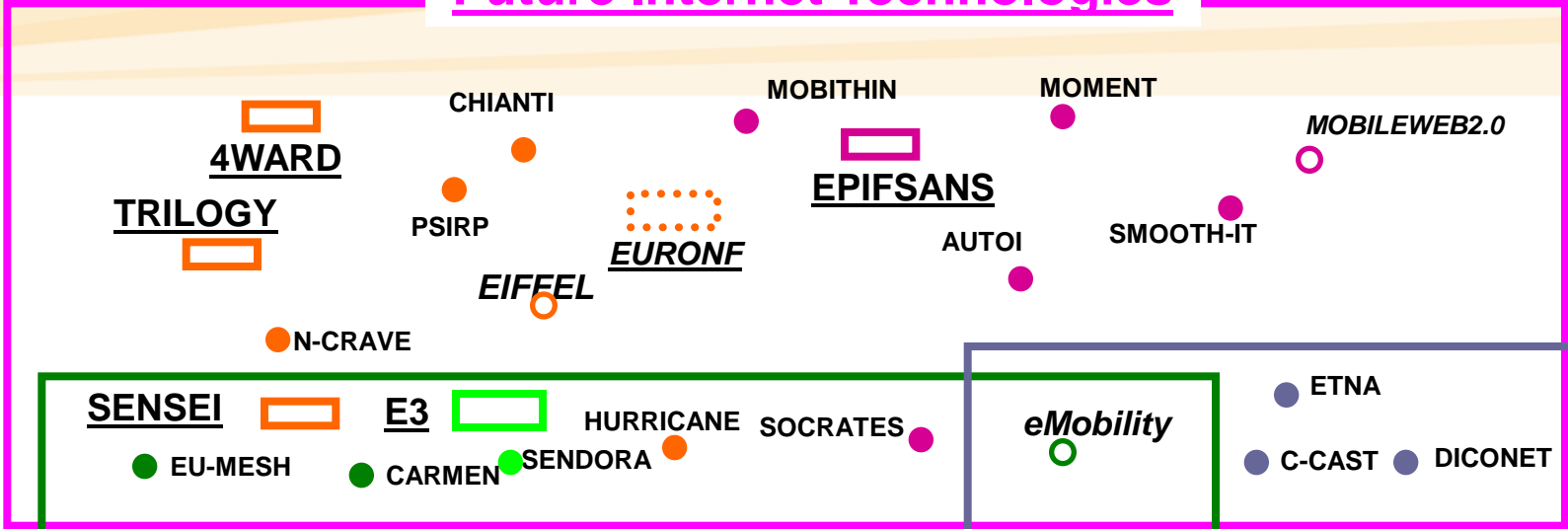


Inter-ETPs Future Internet Initiative



Future Networks Project Portfolio & Clusters

Future Internet Technologies



Radio Access and Spectrum

Converged and Optical Networks

FP7 Research Approaches: Disruptive Paradigms

- Leverage Network Coding in architecting and controlling wireless networks in performance-challenged and resource-constrained environments (N-CRAVE)
- Implement an internetworked Publish-Subscribe Internet Routing architecture that restores balance of *network economics incentives* between sender and receiver (PSIRP)
- Integrate wireless sensor and actuator networks (physical world) efficiently into the future internet (digital world) (SENSEI, SENDORA)



FP7 Research Approaches: Compatible with existing Internet infrastructure

- Develop disruption-tolerant architectures that enable seamless service perception in challenging mobile scenarios (CHIANTI, MobiThin)
- Create a communication resource overlay with autonomic characteristics for the purposes of fast and guaranteed service delivery (EFIPSANS, AUTOI, SOCRATES)
- Develop efficient and fair resource control techniques allowing behavioural flexibility for different technical, social and economic outcomes (TRILOGY, Euro-NF)

