FInES
Future Internet Enterprise Systems
Research Roadmap - Preliminary results
Michele Missikoff (CNR)

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Future Internet Enterprise Systems

- Report goal: to draw the main lines for future research in the domain of FInES
- Such research lines are positioned in a long-term, highly innovative vision, with 2025 as time horizon.
- The work is carried out by the EC DG-INFSO, D4 “FInES Cluster”, including more than 600 participants, and a Task Force of 7 Editors.
- Preliminary results released on the 11 November. A Full Draft is expected mid December. Final Report early next year.
## Content organization

<table>
<thead>
<tr>
<th><strong>Societal Vision and Values</strong></th>
<th>What will be the socio-economic context in which the future enterprises will operate?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Future Enterprises Grand Objectives</strong></td>
<td>What will be the desirable qualities that will characterise future enterprises?</td>
</tr>
<tr>
<td><strong>FInES Research Challenges</strong></td>
<td>Having identified a set of desirable qualities, what will be the research lines aimed at developing <em>future enterprise systems</em> able to support them?</td>
</tr>
<tr>
<td><strong>Future Enabling Technologies</strong></td>
<td>What are the best ICT solutions, and the ICT research lines, to be developed to support the above FInES?</td>
</tr>
</tbody>
</table>
Chapter 1 - Vision and Values

THE BIG CHANGE

• Emergence of Virtual Individualism vs Social Networking
• Control and Ownership in the Information Society
• Infrastructure Models
• The Socio-Economics of the Disconnected Network
• When the Users Join the Team: the Case of Second Life
• New Value Systems
  • New Localisms (zero km logistics)
  • New Energy Forms
Chapter 2 – Future Enterprises: Grand Objectives

THE GRAND OBJECTIVES AS ENTERPRISE QUALITIES

– **Cloud** Enterprise (who actually produces?)
– **Sensible** Enterprise (beyond knowledge)
– **FEDS** Enterprise (stability w/out equilibrium)
– **Green** Enterprise (... Reverse logistics 4 the Planet)
– **White** Enterprise (transparency, accountability, ...)
– **Blue** Enterprise (fantasy, innovation, ...)
– **Glocal** Enterprise (... Think globally, act locally)
Chapter 3 - FInES Research Challenges
(under construction)

- Business process modeling and enactment
- Competency & Skill Management
- Project and team management
- Enterprise Interoperability / Collaboration
- Knowledge workers collaboration spaces
- Knowledge & Sense Management
- Business Innovation support and impact assessment
- Trust and Security
- Learning Enterprise Systems
- Continuous IT/ Business Alignment
- Social Business Networks
- Customers Community management
- Financial, operational transparency and accountability
- Reverse logistics and Environment impact management
- Enterprise sustainability management
- eSourcing / eProcurement
Chapter 4 - Future Enabling Technologies (under construction)

- FI: IoS, IoT, IoK, IoP
- SaaS, PaaS, IaaS
- ISU (Interoperability Service Utility), SaaS-U (SaaS-Utility)
- FOT platforms
- Cloud Technologies
- Universal Mobile Computing
- Mashup and System synthesis
- Dynamic Service discovery and composition
- Execution & monitoring
- Ontologies & Semantic Technologies
- New visualization and interaction (from multitouch to Olographic)
- Semantic Search and retrieval
- Knowledge Mining
- Semantic interoperability
- Model building, checking, sharing
- Social and System Simulation
- Measurement methods and tools
Conclusions and Validation

Vision & Values

FUTURE ENTERPRISES

FUTURE ENTERPRISE SYSTEMS

Future Internet and ICT Solutions