Enterprise COllaboration & INteroperability

COIN Workshop: *COIN EI / EC Services for Collaborative networks: From lesson learnt to future implementation ideas*

COIN IT systems and EI / EC Services key elements

Aachen, June 22nd 2010
Sergio Gusmeroli
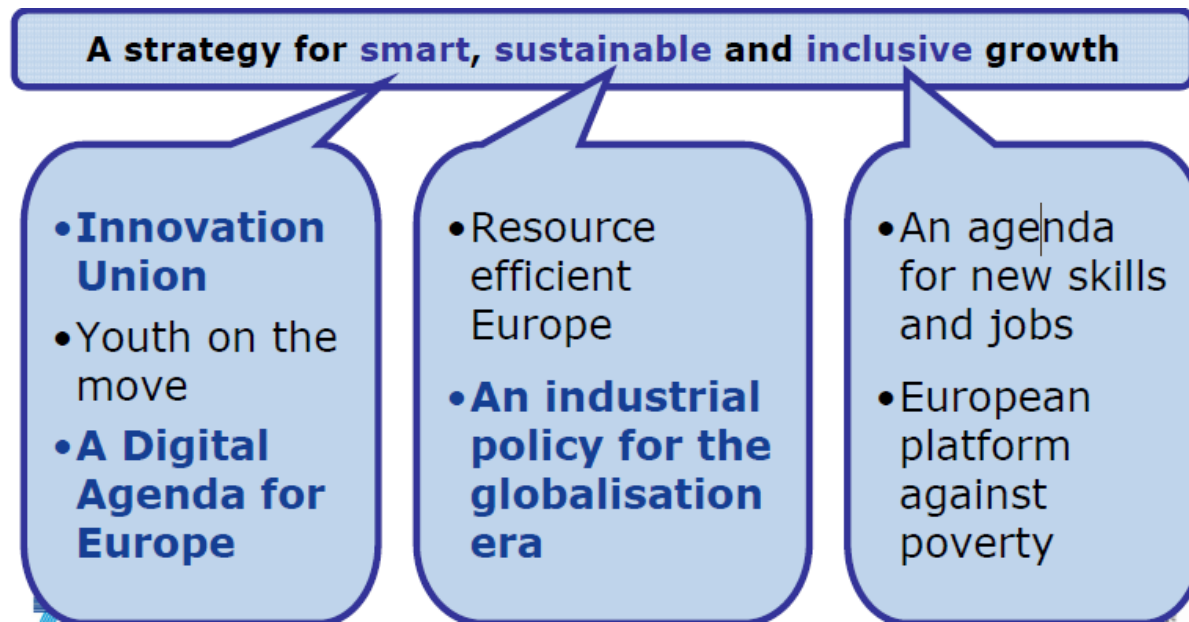**TXT e-solutions SPA, COIN Technical Coordinator**

EU 2020 Strategy priorities

1 **Innovation Union**

2 **Youth on the move**

3 **A digital agenda for Europe**

4 **Resource efficient Europe**

5 **An industrial policy for globalisation**

6 **An agenda for new skills and jobs**

7 **European platform against poverty**

Josè Manuel BARROSO (2010): EUROPE 2020, A European strategy for smart, sustainable, inclusive growth
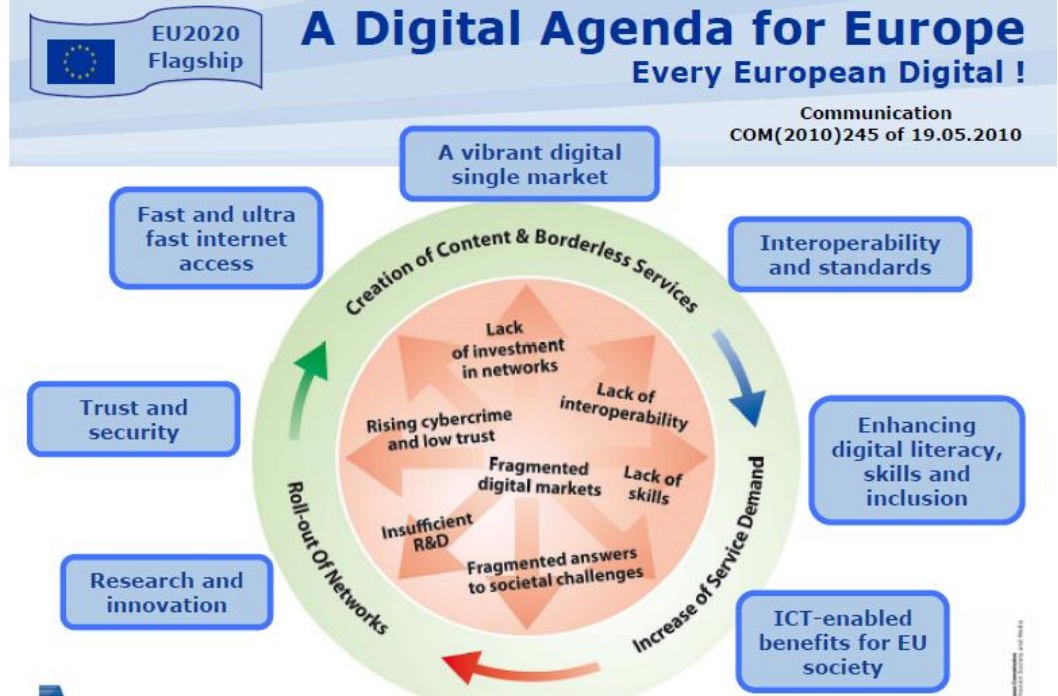
A strategy for smart, sustainable and inclusive growth

- **Innovation Union**
- Youth on the move
- **A Digital Agenda for Europe**

- Resource efficient Europe
- **An industrial policy for the globalisation era**

- An agenda for new skills and jobs
- European platform against poverty

EUROPE 2020: EU Digital Agenda

Make no mistake – the rest of the world is working hard for their growth and making these plans. People in China and Brazil and Mexico and Australia are not assuming anything. Instead they are reforming and innovating and pushing their limits.
We have to do the same*.*

Neelie KROES, Commissioner for the Digital Agenda (2010): Economic Growth in EUROPE (Maastricht, The Netherlands, March 12° 2010)

Digital Agenda will consist of 7 key themes, which will have an impact on your daily life – both as businesspeople and as citizens:

5. **Interoperability and Standards**: a digital society can only take off if its different parts and applications are interoperable and based on open platforms and standards

EU2020 Flagship

A Digital Agenda for Europe
Every European Digital !

Communication
COM(2010)245 of 19.05.2010

A vibrant digital single market

Fast and ultra fast internet access

Interoperability and standards

Creation of Content & Borderless Services

Lack of investment in networks

Lack of interoperability

Rising cybercrime and low trust

Fragmented digital markets

Lack of skills

Insufficient R&D

Fragmented answers to societal challenges

Trust and security

Enhancing digital literacy, skills and inclusion

Research and innovation

Roll-out Of Networks

Increase of Service Demand

ICT-enabled benefits for EU society

5 years Priorities for a Digital Europe

1 Access to Digital Content

2 European m-payment Space

3 Open Digital Economy to SMEs

4 ICT for a low-carbon economy

VIVIANE READING 2009 Ludwig Erhard lecture on Digital Europe, July 9th 2009

3. **Europe's digital economy should be opened up to small businesses.** In Europe, we have 23 million small and medium sized enterprises (SMEs) which make up 99% of all firms. Accounting for over 100 million jobs, SMEs can be the mainspring of Europe's economic resurgence. But in the use of productivity-boosting ICT tools, SMEs lag substantially behind big firms: only 9% of SMEs use electronic invoices, and only 11% of them have technology-based human resource management. If SMEs could access computing power over the web, they would no longer need to buy and maintain technologies or IT applications and services. Such web based services – called "cloud computing" – are the medicine needed for our credit squeezed economy: they can make businesses more productive by shifting from fixed costs (i.e. hiring staff or buying PCs) to variable costs (i.e. you only pay for what you use). However, today these new services are nearly all US-owned and US-based. Once again, the US has started to exploit a business model before Europe has managed to do so. We cannot let this continue. In my view, we need a major effort to set up Europe-hosted "clouds" to give European SMEs access to fast, open and productivity enhancing services. A recent study estimated that online business services could add 0.2% to annual GDP growth, create a million new jobs and allow hundreds of thousand of new SMEs to take off in Europe over the next five years.

So what are we waiting for?

Adaptable Enterprise Challenges

1 Inventive Enterprise

2 Cloud Enterprise

3 Cognizant Enterprise

4 Community-oriented Enterprise

5 Green Enterprise

6 Glocal Enterprise

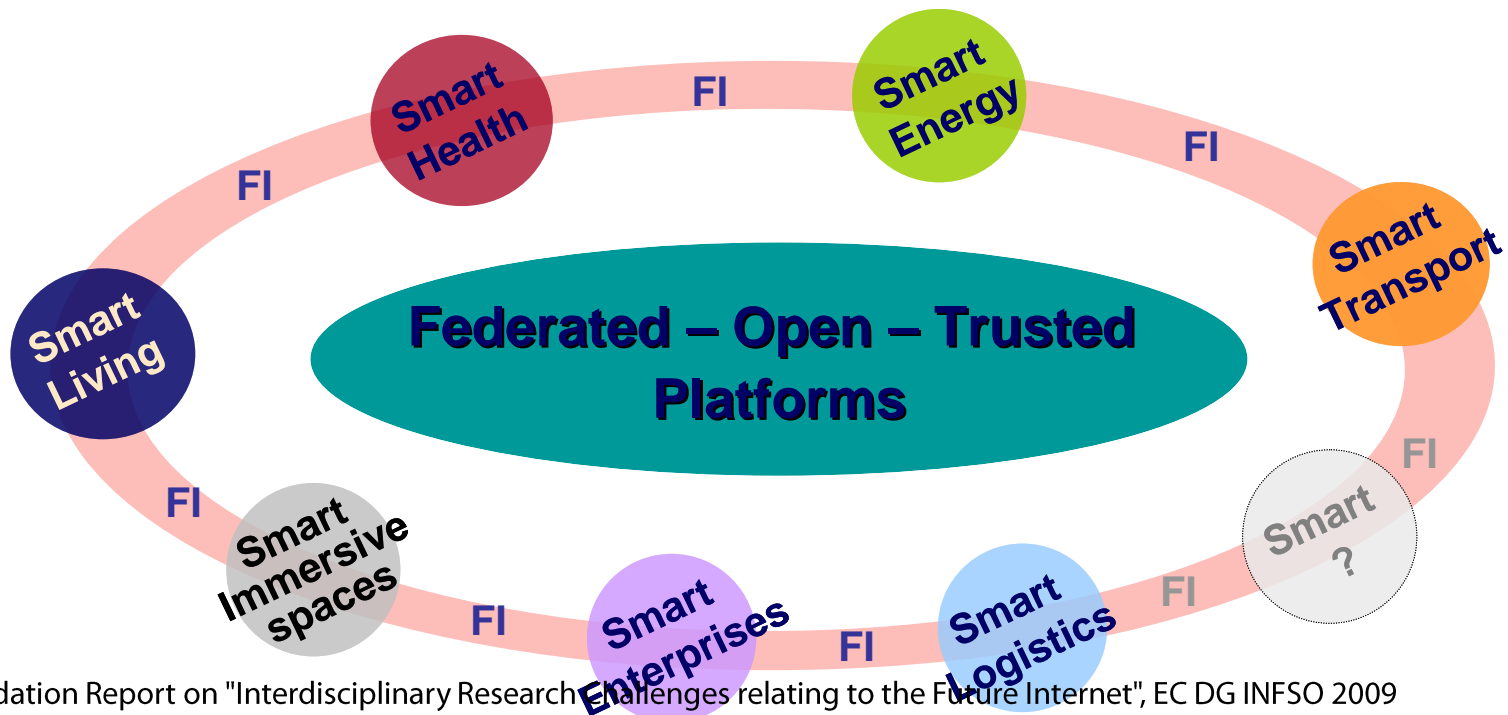Cristina Martinez (FInES Cluster Chair) and Gerald Santucci (DG INFSO D4 Head of Unit)

The shift from management-centric to **innovation-centric enterprise systems** will represent a major discontinuity in current ICT solutions and will pose key research problems. This research will be successful only if, in parallel, Future Internet, and the supporting technologies (from **Internet of Things to Software as a Service, from Social Networking to Semantic Knowledge Management**) will be consolidated and openly available. In particular, the paradigm of the Cloud Technologies appears able to provide the necessary flexibility and agility that today's enterprise systems are far from exhibiting.

How to make next generation Enterprise Systems compliant not just to FI architecture and philosophy but also at the service of the Enterprise new Qualities of Being? What about an Enterprise Innovation Management System?

The FI Solar System of IT Innovation

*To position Europe as a leader in the Future Internet, we suggest that initiatives in Europe should be centred on the development of **Future Internet Federated, Open, and Trusted** (shortly, F-O-T) **Platforms**. A multitude of such F-O-T platforms could constitute the fundamental enablers and the ecosystems of the Future Internet on which existing and new "smart" applications could be built upon. Many different types of F-O-T platforms will be available, allowing specific applications to use the capabilities of one or more platforms depending on their needs*[1]

[1] Recommendation Report on "Interdisciplinary Research Challenges relating to the Future Internet", EC DG INFSO 2009

The COIN Vision & Motto

COIN VISION: *"By 2020 enterprise collaboration and interoperability services will become an invisible, pervasive and self-adaptive knowledge and business utility at disposal of the European networked enterprises from any industrial sector and domain in order to rapidly set-up, efficiently manage and effectively operate different forms of business collaborations, from the most traditional supply chains to the most advanced and dynamic business ecosystems."*

COIN MOTTO: *"Enterprise Interoperability and Enterprise Collaboration are the two sides of the same COIN"*