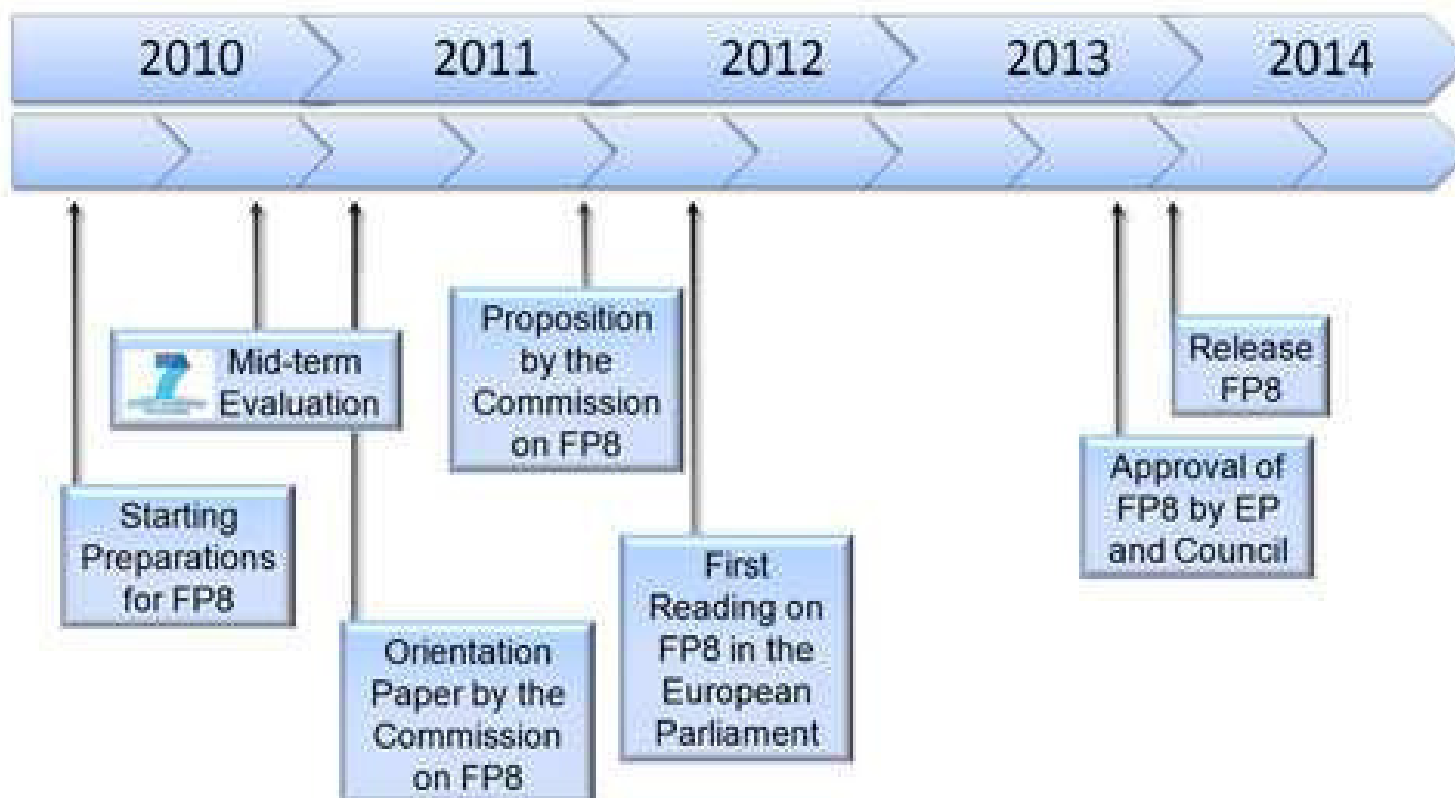


# EU FP8 - Future Internet Research Roadmap

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## Planning FP8 – an Outlook (2010-2014)



- A European Assembly of researchers in future internet technologies
- Cross domain, multi-disciplinary approach
- Founded Bled, 2008
- Meeting twice yearly
- Technical, application, socio-economic tracks

## The BLED Declaration: Towards a European approach to the Future Internet

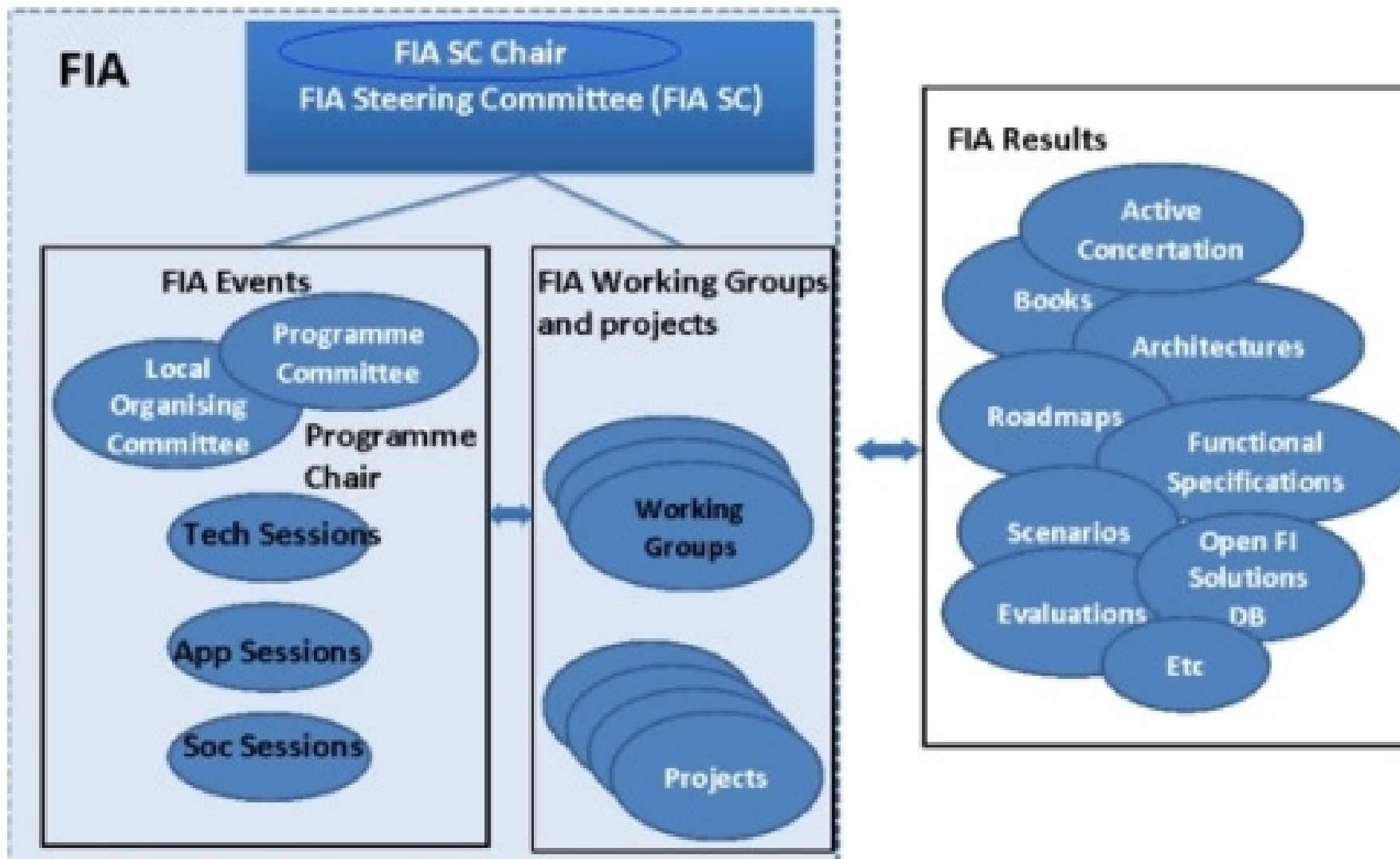
### Current Internet: Success & Challenges

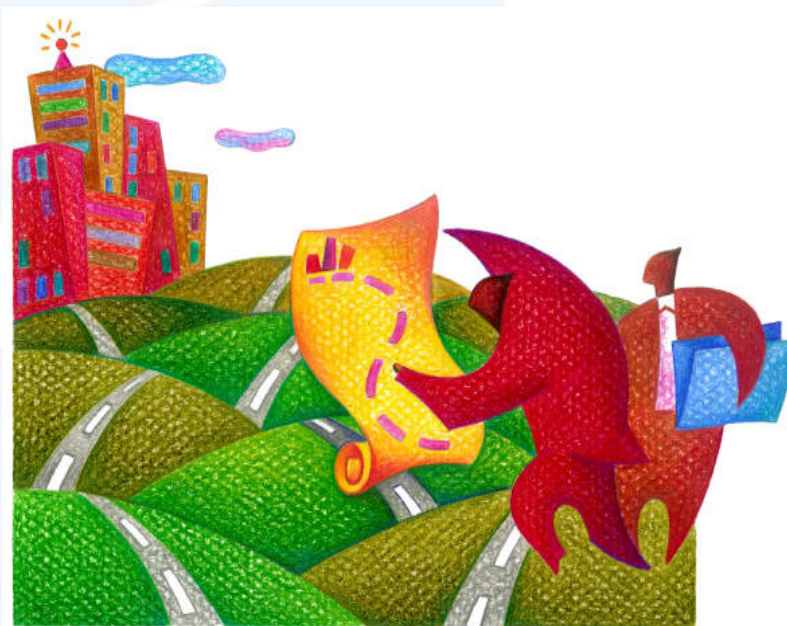
With over a billion users world-wide, the current Internet is a great success – a global integrated communications infrastructure and service platform underpinning the fabric of the European economy and European society in general. However, today's Internet was designed in the 1970s for purposes that bear little resemblance to current and foreseen usage scenarios. Mismatches between original design goals and current utilisation are now beginning to hamper the Internet's potential. A large number of challenges in the realms of technology, business, society and governance have to be overcome if the future development of the Internet is to sustain the networked society of tomorrow.

### Future Internet: Vital to continued economic Growth in Europe

In the future, even more users, objects, services and critical information infrastructures will be networked through the Future Internet which will underpin an ever larger share of our modern and global economies. It is therefore time to strengthen and focus European activities on the Future Internet to maintain Europe's competitiveness in the global marketplace.

**A significant change is required and the European Internet scientific and economic actors, researchers, industrialists, SMEs, users, service and content providers, now assert the urgent necessity to redesign the Internet, taking a broad multidisciplinary approach, to meet Europe's societal and commercial ambitions.**





- Vision for Internet 2020 and beyond
  - How the Internet will address societies' big challenges
  - The high value, big payoff technologies and approaches needed to win
  - The significant technical challenges we'll face getting there
- Providing input to the Framework Eight research programme

## Future Internet

The physical world... managed, connected, and intelligent  
 Even more data, information and services  
 Scale – from micro to local to global  
 Smart and intelligent systems  
 Energy, power at device and platform level  
 An expectation of good stewardship  
 Everything as a service (a.k.a. cloud)  
 Virtual everything (also a.k.a. cloud)  
 Immersive digital lifestyle  
 ...

## Challenges of the future

- Environmental challenges
- Healthcare challenges
- Urban living challenges
- Energy challenges
- Lifestyle challenges
- Economic challenges
- Resource challenges
- Social challenges
- 

**Novel, High Impact, technologies & approaches**

## Barriers to FI

- ... and business models
- Insufficient infrastructure deployment
- Critical mass of users and applications
- Standardisation and adoption of standards
- Cybercrime and cyber terrorism
- Fragmented markets for services
- Capacity for new service innovation

## EU Future Internet – Holistic approach

- What are the significant changes between now and 2020+ in a given topic area? What are the drivers of this change?
- What is our vision for 2020+ in this topic/area?
- What are the hard challenges, big gaps, what will be difficult, significant barriers to achieving this vision?
- What radical approaches, disruptive technologies, new ideas might be solutions to these challenges?

- SeServ – FI Socio-Economics
- NextMedia – Future Content Networks
- IOT-I – Real World Internet
- FIRESTATION - FI research and experimentation
- FIREBALL - Smart Cities
- SOFI - Internet of Services
- **EFFECTSPLUS** - Trust and Security
- Paradiso2 – Political/Socio-economic
- Fireball – Living Labs/Smart Cities
- MyFire – Testbeds
- ENSEMBLE - Enterprise
- **ceFIMS - Future Internet Forum, FI PPP**

- **Call for Contributions:** Future Internet WS on Research Roadmap for EU Framework Programme 8
- **Contributions** (short position papers), max. 3 pages
- **Deadline: 20th March, 2011**
- The contributions will be synthesised and published as part of the research roadmap.
- Contributors will present their ideas and discuss them at the Open Day in Brussels.
- **Open Workshop on 31st March, 2011, Brussels**

Content of the position paper:

- **Research area**
- **What challenges will occur?** Describe the broader societal and other changes that research into the FI will need to take account. Indicate the timescale of these changes.
- **Which positive outcomes can be brought by the use of the technology?** Discuss how you imagine the world will be as a result of the changes and advances that will have occurred. What impact will be able to have? When will we have that impact?

Content of the position paper:

- **Discuss the difficult problems that have to be addressed satisfactorily in order to handle the changes and realise the vision.**
- **What is the answer?** Which new approaches/technologies/... will likely be most useful in addressing the gaps and challenges? What research needs will emerge as we try to build such solutions? What are the steps to develop the solutions?

- Coordinated by EFFECTS+
- Bringing together contributions from each of the Future Internet Support Actions, though their work and through FIA
- Looking way beyond the current research to significant, high impact, new research challenges
- Conducted publicly online at <http://fisa.future-internet.eu> wiki site
- Reviewed at Future Internet Assembly events twice yearly
- Providing input on research topics to be addressed in Framework 8

# Köszönöm a figyelmet!

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