



FUTURE INTERNET ASSEMBLY

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1. FUTURE INTERNET ASSEMBLY (FIA)

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. New layers and technologies continue to be added that have vastly expanded the scope of what we think now as “The Internet”. 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.

The European Future Internet Assembly also known as FIA, is a collaboration between projects that have recognised the need to strengthen European activities on the Future Internet to maintain European competitiveness in the global marketplace.

Currently FIA brings together around 150 research projects that are part of Challenge 1 of the ICT programme of FP7. These projects are advancing the state of the art in:

- The network of the future
- Cloud Computing, Internet of Services and Advanced Software Engineering
- Internet-connected objects
- Trustworthy ICT
- Networked Media and Search Systems
- Socio-economic considerations for the Future Internet
- Application domains for the Future Internet
- Future Internet Research and Experimentation (FIRE)

The Assembly is structured to permit open interactions and cross-fertilization across technical domains, reaching out to whoever has talent in Europe's Future Internet research community.

It works towards:

- Vision, challenges, scenarios and roadmaps for FI research.
- The development of pre-normative principles, concepts, design, architectures, recommendations and functional specifications of key FI system components and their interfaces
- The development and maintenance of a consolidated calendar of events
- Steering the FIA community towards a higher degree of coordination and integration of the FI research actions by improving communication and collaboration between participating communities and improving the visibility of research results.

2. PARTICIPATION IN FIA

FIA is open to all researchers engaged in Future Internet research (be they at EU or not) to contribute and participate towards FIA's goals.

The FIA started in May 2008 with a conference in Bled (Slovenia), where all projects that wanted to contribute to the Future Internet signed the Bled declaration, see ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/ch1-future-internet-manifesto_en.pdf.

FIA continues to expand and encompasses many projects from Challenge 1 of the ICT research programme and a number of other projects. For a complete list of projects see <http://www.future-internet.eu/activities/fp7-projects.html> or http://ec.europa.eu/information_society/activities/foi/research/fiaprojects/index_en.htm¹.

3. ACTIVITIES OF THE FUTURE INTERNET ASSEMBLY

- Bi-annual FIA Conferences,
- Developing Future Internet systems, technologies and architectures through working groups and projects, possibly leading to contributions to standards.
- (International) Collaborations with similar initiatives in Japan, Korea, USA and other countries, and also with related initiatives such as the Future Internet PPP and the Future Internet Forum of European member states.
- High quality publications, such as the FIA Book.
- Maintenance of the future-internet.eu webportal.
- The setup and maintenance of an open repository of possible FI solutions and experiments for wide scale use.

4. ORGANISATION OF THE FIA

The organisation of the FIA is supported by several organisations, projects and individuals:

- European Commission, as overall coordinator
- “Caretakers”, these are representatives coming from the different research domains that select the topics for the FIA conference and organise parallel sessions
- The local host of the FIA Conference, quite often an institution from the country that holds the European Presidency for that half year
- Coordination and support action (CSA) projects that are committed in their DoW to support the FIA. These are called FISA projects (Future Internet Support Actions). See Annex 1 for an overview.

¹ Both these webpages will be updated soon with the Call 4 and Call 5 projects

- Research projects that support the FIA goals

In order to clarify how all these actors work together the following organisation is envisioned:

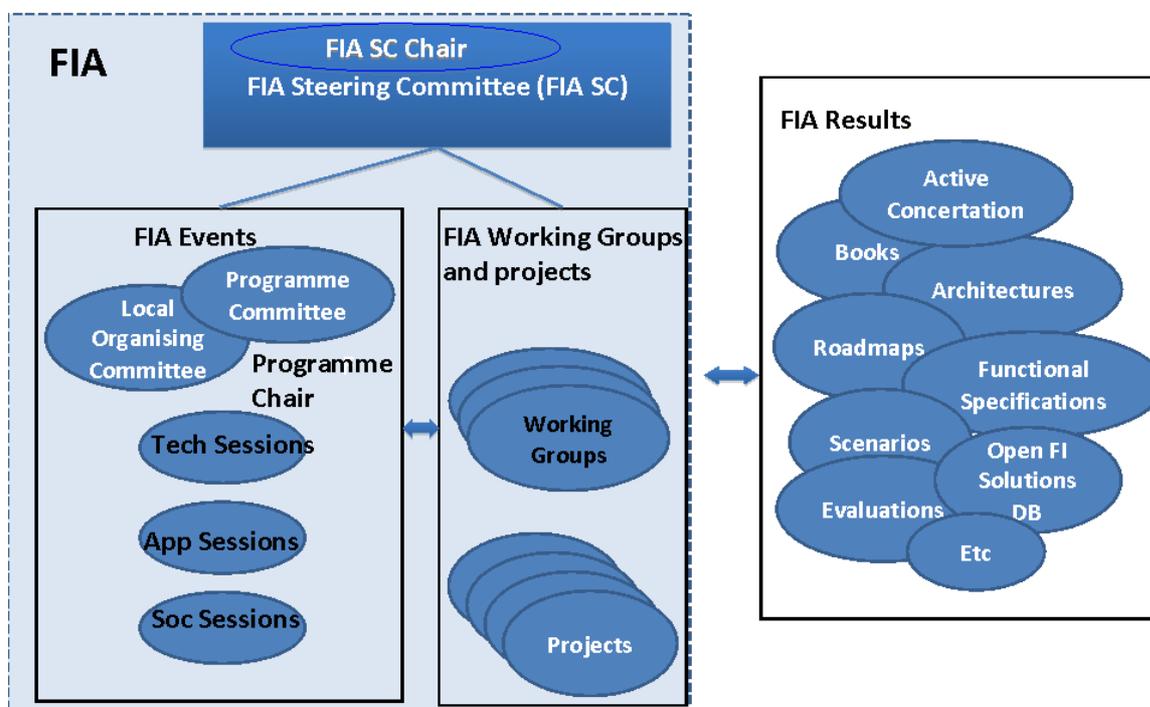


Figure 1: Organisation of the FIA

4.1. FIA Steering Committee (FIA SC)

FIA SC is an advisory group of experts and EC officials that will guide the overall direction of the FIA.

Responsibilities:

- Ensuring that all FIA objectives are met in a systemic and coordinated way
- Organisation of the series of FIA events, selecting themes and session topics for each FIA event based on input from the FI research community and feedback from previous FIA events. In particular, this body will:
 - Organise a call for ideas for sessions within a FIA event coming from the FI community
 - Select members of the Programme Committee organising the FIA sessions and
 - Work with the Local Organising Committee (incorporating the local host) to coordinate the overall FIA programme with the activities organised locally alongside each FIA.

- Enlist, register, monitor the work progress of FIA Working Groups and close them when they have completed their work.
- Establishing a consolidated calendar of events and activities aiming at higher impact and avoiding fragmentation of research efforts in Europe.
- Evolve and adapt the European FIA constituency over time to ensure FIA remains relevant and impactful.
- Ensuring visibility, transparency and impact of FIA results.
- Promote both EU and the international uptake of results.

FIA SC membership

- The chair is appointed by the EC
- The FIA SC should consist of around 10-12 persons, representing the different research areas of the FIA
- Members can come from FISA support actions, leaders of FIA working groups, current FIA caretakers and representatives of FIA research projects.
- Membership can be refreshed on an annual basis.
- Volunteers for the steering committee can send an email to info-future-internet@ec.europa.eu with a short explanation why they would like to be part of the FIA SC, also outlining any relevant experience and/or knowledge.

Decision making

Decisions will be made by consensus. If consensus is not possible, the FIA SC Chair will take a decision.

4.2. FIA Events

FIA events will be organised twice a year as a conference where people from the different research domains described in Section 1 meet each other and discuss cross cutting research results and trends in an interactive manner.

FIA conferences are organised by a Program Committee and a Local Organising Committee.

4.2.1. Programme Committee:

- Is responsible for delivering the content of the sessions which have been decided by the Steering Committee. Each session should have clear objectives that are in line with the

overall objectives of the FIA. The results of the session should be clearly documented on the website and in the FIA report.

- When developing the agenda for each breakout session, the Program Committee is strongly encouraged to seek contributions from the FIA Community.
- This group is responsible for delivering session content to the FIA Web site and writing conclusions in the FIA report.
- This group is responsible for the disciplined running of the conference sessions.
- The PC will consist of people that submitted ideas to the call for ideas and that have been selected by the Steering Committee. Anybody from the FI Community as described above can submit ideas.
- The Programme Committee will be chaired by a Programme Chair. The chair is appointed by the Steering Committee, and works closely with them. The Programme Chair will be responsible of the overall content of the FIA event.

4.2.2. Local Organising Committee:

The host of the FIA Conference will play an important role on choosing the venue, selecting key messages to be given during the conference, suggesting speakers and sessions, and organising the logistics.

4.3. FIA Working Groups

In between conferences, collaboration among projects and individuals is encouraged through FIA Working Groups. Each project is expected to contribute to at least one technical WG.

A number of technical FIA WG are/will be set-up in accordance with the FIA objectives, expected technical results and based on an open call for WGs.

- Each WGs' membership would be from multiple FP7 project teams and multiple domains.
- Each WG will register its ToR (e.g. rational, scope, activities, results, etc.) with the FIA SC and will maintain an open Web presence (i.e. membership, scope, work plan and results).
- The WGs will produce some of the FIA deliverables as identified in Section 5 under the steering of FIA SC.
- The WG ToR and work progress will be periodically reviewed and monitored by FIA SC on an annual basis.
- If a WG is not longer delivering to FIA objectives the group will be closed by the FIA SC.

The FIA WG's which exist at the moment are:

- Roadmapping
http://fisa.future-internet.eu/index.php/FIA_Research_Roadmap
- (Pre-)Standardisation
http://fisa.future-internet.eu/index.php/FIA_Standardisation_Support
- International Collaboration
http://fisa.future-internet.eu/index.php/FIA_International_Cooperation
- FI Architectures
http://ec.europa.eu/information_society/activities/foi/research/fiarch/index_en.htm
- Management and Service-aware Networking Architectures
http://reservoir.cs.ucl.ac.uk/twiki/bin/view/FIA_MANA_Members/WebHome
email: fia-mana@ee.ucl.ac.uk
- Linked Open Data
<http://linkeddata.future-internet.eu>
- Enterprises
<http://services.future-internet.eu/index.php/Enterprises>
- Real World Internet
http://rwi.future-internet.eu/index.php/Main_Page
- Trust and Security
http://security.future-internet.eu/index.php/Main_Page
- Future Content Networks
<http://www.gatv.ssr.upm.es/nextmedia/index.php/nextmediagroups/fcn>
- FIA Book
http://services.future-internet.eu/index.php?title=FIA_Book_3
- FI Portal
www.future-internet.eu

5. FIA RESULTS

The following results are envisioned:

- FIA Books
- A critical assessment of the user/service capabilities of possible architectural models addressed by the Community
- Functional specifications of components

- Open source solutions
- Evaluations of existing solutions
- Roadmaps
- White papers
- Scenarios
- Etc.

Results can be produced by working groups or by individual projects. In order to improve the visibility of research results the FIA community is encouraged to make the editorial team of the Future Internet Portal (www.future-internet.eu) aware of the results. They can then make the result available on the Portal in a coherent manner, improving reuse of results. The editorial team is listed in Annex 2.

6. ACKNOWLEDGEMENT

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7. ANNEX 1: FUTURE INTERNET SUPPORT ACTIONS

Topic	Acronym	Unit	PO	Coordinator
Socio-economics	Seserv	D1	Paulo de Sousa	Burkhard Stiller
Future Content Networks	NextMedia	D2	Isidro Laso	Guillermo Cisneros/Federico Alvarez
Services	Sofi	D3	Anne-Marie Sassen	Lyndon Nixon
Real World Internet	IOT-I	D4	Peter Friess	Prof. Rahim Tafazolli
FIRE	FIRESTATION	F4	Manuel Monteiro	Timo Lahnalampi
Security and Trust	EFFECTS+	F5	Cristian Olimid	Frances Cleary assisted by Keith Howker
Future Internet	EIFFEL	D1	Remy Bayou	Petri Mähönen
Political/socioeconomic conference	PARADISO 2	F4	Fabrizio Sestini	Roger Torrenti
Living labs towards Smart Cities	FIREBALL	F4	Jean-Pierre Euzen	Michael Nilsson
Create environment for standardisation of testbeds	MyFire	F4	Jacques Babot	Franck Le Gall
RFID-related Activities and Standardisation	CASAGRAS 2	D4	Peter Friess	Ian Smith
Reduce mobile internet applications fragmentation through standardisation	MOSQUITO	D3	Lars Pedersen	Franck Le Gall
Search	CHORUS +	D2	Loretta Anania	Jean-Charles Point
Enterprise Interoperability	ENSEMBLE	D4	Cristina Martinez	John Psarras

8. ANNEX 2: FUTURE INTERNET PORTAL EDITORIAL BOARD

www.future-internet.eu will support the FIA projects and working groups at its best as a tool for dissemination activities, and supporting engagement and collaboration in the Future Internet Assembly.

Contact

You can always contact us via info@future-internet.eu. Feel free anytime to contact us and express your suggestions, concerns or for sending us your contributions.

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