

Future Internet Forum



IN ASSOCIATION WITH ceFIMS FP7 COORDINATION ACTION

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In this issue...

Hello and welcome to the Spring edition of the 'Future Internet Forum'.

This newsletter brings you updates and information on new initiatives and achievements in the European Future Internet.

In this edition we bring you news of the latest

Future Internet Award and ceFIMS Interim Roadmap, as well as details on the upcoming Aalborg workshop and the launch of FIF 2.0.

There's also sample entries from the newly formatted database and news of a recently announced eGovernment

project.

In the Upcoming Events section, there's details of the 3rd European Summit on the Future Internet, which takes place in Finland on 31 May - 1 June. This event will focus on international collaboration and will host a high-level roundtable on EU-China collaboration on the second day of its programme.

Finally, the next FIF meeting takes place in Aalborg in May during the Danish Future Internet Week. Dates & times will be confirmed soon.

Willie Donnelly

Dr. Willie Donnelly,
ceFIMS Project Coordinator.



Award Competition Opens

The fourth Future Internet Award competition is now open.

This Award recognises excellence in innovation among Future Internet projects and initiatives from across Europe, with the winning entry having an opportunity to promote their work to a Europe-wide audience of industry, academic and public

agency bodies.

The winners will also receive a specially engraved Waterford crystal vase for their efforts!

The two-page entry forms can be downloaded [here](#) with more information on the criteria and judging process available on the website.

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Interim Roadmap Delivered

CeFIMS has now completed its first [interim roadmap](#) towards an ERA-NET+ on the Future Internet.

This document draws on all the work carried out by the project in its first 12 months of operation.

The roadmap presents a preliminary analysis of the current landscape in European Future Internet research, and sets out a vision of a future involving enhanced cooperation among key Future Internet stakeholders.

The roadmap looks at:

Current landscape

- State-of-the-art in Future Internet research



- Stakeholders involved
- Existing collaboration instruments
- Relevant activity levels of Member States
- Policy context

Vision of the Future

- Modalities of an ERA-NET+
- Barriers and challenges

- Potential thematic content and approaches that Member States and the EC may have in common.

The roadmap also outlines the next steps required to advance an ERA-NET+ on the Future Internet.

“preliminary analysis of the current landscape in European Future Internet research, and ... a vision of a future involving enhanced cooperation”

Aalborg Workshop

The next ceFIMS workshop takes place in Aalborg, during Denmark's [Future Internet Week](#) in May.

Attendees will discuss how best to advance collaboration between Member States on Future Internet research. A Working Group has been put in place and a position paper is currently being drafted.

This position paper will focus on two main

elements which Member States may have in common:

(1) Future Internet research themes

Based on feedback from FIF members, the following research themes have been identified as those with the most potential for collaboration between Member States:

- Infrastructure
- Services & smart applications (*incl. smart cities, green tech, smart*

grid, etc.)

- Mobility & IoT
- Security

(2) Collaboration & funding mechanisms

The position paper will also cover collaboration structures such as ERA-NET+, joint programming, joint technology initiative, etc.

The workshop date and time will fit around the FIF meeting in Aalborg - the logistics of which will be confirmed soon.

NOTE: The research themes and collaboration/funding mechanisms will ultimately be chosen by Member States who wish to get involved in this initiative.

Database Updates

As ceFIMS continues to make its gathered data more accessible, the project is now updating the layout of and information in its online database.

The new format will

contain two main sections:

(1) SUMMARY: a 10-line summary of the project/initiative;

(2) KEY RESULTS: bullet points of the main project/initiative outputs.

There will also be a link "for further info".

Contact has now been made with each entry in the database, inviting them to forward their key results & outputs. A 10-line summary of each is already in place.

The entry form for the Future Internet Award has also been updated to reflect this new layout.

A number of entries have already returned their key results & outputs and samples of these can be seen on p. 4 of this newsletter.

This new layout will not affect the *tag cloud* which provides a novel means to search the database. And in this regard, a new semantic search facility is also currently being examined.

"True genius resides in the capacity for evaluation of uncertain, hazardous, and conflicting information."

Winston Churchill
(1874-1965)

Project Name	
Executive Summary	Short overall summary. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci....
Key Result(s)	<ul style="list-style-type: none"> • Key result goes here (incl. link if possible) • Key result goes here (incl. link if possible) • Key result goes here (incl. link if possible)
Link	Main project link goes here

FIF 2.0 Launched

The Future Internet Forum (FIF) was launched in Prague in 2009, and had the following initial objectives:

- Share knowledge, experience & best practice;
- Identify national actors, activities & complementarities between frameworks;
- Devise common approaches for maximising synergies.

Since then, there have been a number of FIF advances, including increased networking,

support/advice on launching EU initiatives, emerging national programmes, and the growing realisation that the Future Internet can add real value.

Shifting Gears

"However," said Mario Campolargo at the FIF meeting in Poznan, "the FIF has reached the limit of the current process – the time for observing has ended and it is time to shift gears."

He continued, "The current economic crisis represents a call to arms and Europe must become

more innovative and productive – the Future Internet is part of Europe's toolbox to achieve this."

Hence, FIF 2.0, which is captured in the R3 challenge:

- **Reinforced** Membership
 - **Renewed** Commitment
 - **Revamped** Role
- FIF meetings will have a number of new agenda points, such as: progress on open action points; selected themes; focussed discussions; operational conclusions.



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NOBEL	
Executive Summary	The NOBEL project builds an energy brokerage system by which individual energy consumers can communicate their energy needs directly with both large-scale and small-scale energy providers, making energy use more efficient. The brokerage system uses a middleware system to communicate energy consumption data and use IPv6 technology to interconnect the middleware with energy meters on individual devices.
Key Result(s)	<ul style="list-style-type: none"> • A Neighbourhood Oriented Energy Monitor: This application will provide several functions for the administrator of the new infrastructure. • A Brokerage Agent Front-End: This system will allow the end-user to perform various energy management tasks on a meter basis. • A Neighbourhood Oriented Public Lighting System: This is the application developed to monitor and control the consumption of energy and adapt the settings of a public lighting system.
	http://www.isi-nobel.org/

✂

UMA	
Executive Summary	User-Managed Access (UMA) is a protocol that enables individuals to use a unified control point for authorizing who and what can get access to their online personal data (such as identity attributes), content (such as photos), and services (such as viewing and creating status updates), no matter where these things live on the web. At this control point, a user can set policy that ensures that only requesters meeting criteria such as having a certain identity, being over a certain age, or being willing to agree to non-disclosure terms can succeed in gaining access. UMA can apply to a wide variety of sharing scenarios, such as sharing social data and calendars with friends, sharing health data securely with medical professionals, giving contract bookkeepers access to small-business financial data, and offering photos for sale. An international team of computer industry professionals, web service providers, and researchers has been involved in designing and implementing the draft UMA specifications.
Key Result(s)	<ul style="list-style-type: none"> • Web protocol specification drafted, with initial version and updates submitted to the Internet Engineering Task Force (IETF) for consideration • Four known implementations, with interoperability testing scheduled to begin shortly and with Java and Python implementations to be open-sourced shortly

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IRMOS	
Executive Summary	The main objective of IRMOS was to enable collaboration between people, using distributed applications running on top of a cloud infrastructure, where networking are delivered with guaranteed level of service. The IRMOS approach has been successfully achieved. The IRMOS approach constitutes a new generation of Service Oriented Architecture environment, which is available as four major building blocks and more than fifty software components.
Key Result(s)	<ul style="list-style-type: none"> • IRMOS Software as a Service (SaaS), providing a specific methodology for the creation and deployment of interactive applications for virtualized real-time infrastructures: http://irmossaas.sourceforge.net/ • IRMOS Service Engineering Tools, part of the Platform as a Service (PaaS) cloud service model, supporting the application development and performance estimation: http://irmoserviceeng.sourceforge.net/ • IRMOS Service Management Tools, part of the Platform as a Service (PaaS) cloud service model, supporting the deployment and management of applications at runtime: http://irmoserviceemg.sourceforge.net/ • IRMOS Infrastructure as a Service (IaaS), provided by the Intelligent Service Oriented Network Infrastructure (ISONI)

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G-Lab_Ener-G	
Executive Summary	The mission of G-Lab_Ener-G is to develop a comprehensive approach to the Future Internet architecture that includes energy efficiency as a fundamental principle. Key enablers for reaching this goal are virtualization and consolidation of communicational and computational resources and the exploitation of energy-saving features of hardware. The energy consumption of different components of the infrastructure is predicted by power consumption models. These models serve as a basis for an energy- and performance-aware, autonomous and self-organizing monitoring and management of physical and virtual resources. The envisioned management of physical and virtual resources aims at minimizing infrastructure energy consumption while assuring the provision of an application-tailored performance. Furthermore, communication and application layer protocols are analyzed regarding their support of an energy-efficient operation of Future Internet architectures.
Key Result(s)	<ul style="list-style-type: none"> • Load-based power consumption models of servers: Knowing the power consumption of servers allows for finding an energy-optimal allocation of virtual services to physical servers. • Performance degradation model for service consolidation: Knowing the impact of consolidation on the performance of services allows for minimizing infrastructure energy consumption while complying with service level agreements on service performance.

GEN6 - new eGov project

A democratic Europe, with a strong and productive economy, requires service-oriented, secure, reliable and innovative government. This is necessary at all levels, regardless of size and location, and it must be used by all groups of citizens (elderly, those with disabilities, youngsters, immigrants, etc.)

The successful implementation of eGovernment can improve services, strengthen societies, increase productivity and welfare, and reinforce democracy. Such success will only be achieved,

however, by pursuing a long-term vision, with clear and sustainable objectives. Naturally, this requires the participation of all stakeholders: government, citizens and industry.

The GEN6 project will contribute to these broad objectives, in the area of communications and the transition to IPv6 in governmental areas.

National Pilots

Comprising 19 partners from nine different countries, GEN6 will have four different national pilots. Some of these will be replicated in complementary ways in different countries,

considering different existing approaches with IPv4:

1. Germany, Spain, Netherlands and Turkey:

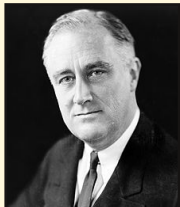
IPv6 upgrade of eGovernment Network Infrastructures, e-Identification, Services and Applications

2. Luxembourg: IPv6 upgrade of Secure Cloud Services

3. Greece: IPv6 upgrade of Energy Efficiency in School Networks

4. Slovenia: IPv6 upgrade of Emergency Response Environments

For more information see www.gen6.eu or email info@gen6.com



"Competition has been shown to be useful up to a certain point and no further, but cooperation, which is the thing we must strive for today, begins where competition leaves off."

Franklin D. Roosevelt (1882 – 1945)

Upcoming Events

3rd EU Summit on Future Internet

On **31 MAY - 1 JUNE**, TIVIT and SnT (Interdisciplinary Centre for Security, Reliability & Trust - University of Luxembourg) will jointly organise the 3rd EU Summit on Future Internet in Espoo, Finland.

The event will focus on international collaboration, and while this is at an early stage for Internet-based solutions, the high-level roundtable on EU-China Future Internet collaboration on Day Two will be one of the highlights of the 2012 Summit.

For more information visit:

<http://is.gd/eusumfi>

Future Network & Mobile Summit

The 21st Future Network and Mobile Summit takes place in the Estrel Berlin, Germany, on **4-6 JULY**.

This Annual Conferences is supported by the European Commission, and regularly attracts over 500 delegates.

In the context of convergence & innovation, the 21st Future Network and MobileSummit will address the challenges of building the Future Internet Infrastructures, based on mobile, wireless and fixed broadband communications technologies.

For more information, visit:

<http://is.gd/netmob>

...address the challenges of building the Future Internet Infrastructures, based on mobile, wireless and fixed broadband communications technologies

Conference on Optical Networking Design & Modelling

The 16th International Conference on Optical Networking Design and Modelling (ONDM 2012) will be held at University of Essex, Colchester, UK, on **17-20 APRIL**.

The event will focus on state-of-the-art research in optical networking and newly emerging areas.

ONDM also welcomes submissions of research papers on other optical networking areas and disciplines, such as the integration of optical and wireless networks or the role of optical network for Future Internet design. Controversial ideas and approaches, and their open discussion are strongly encouraged.

More information: <http://ondm2012.essex.ac.uk/>

Food for Future – Future of Food

Under the aegis of the Hungarian EUREKA Chairmanship a conference and matchmaking event will take place in Budapest on **2-3 APRIL**, in line with the Hungarian Chairmanship Initiative: promoting RTD driven project generation focusing on grand challenges related to the food technologies.

This conference is a stocktaking event, based on multidisciplinary dialogue between different technological areas, with a goal of generating business cases/opportunities for industry.

For more information visit:

<http://is.gd/futurefood>

Wireless Comms & Networking Conference

WCNC brings together industry professionals, academics, and individuals from government agencies and other institutions to exchange information and ideas on advancing wireless communications and networking technology. The 2012 conference will be held in Paris, France, on **1-4 APRIL**.

A high-quality programme is in place, featuring technical sessions to disseminate the latest research in wireless communications and networking, business and applications.

For more information, visit:

www.ieee-wcnc.org



Food for Future
- Future of Food,
2-3 APRIL

Future Internet Forum



For more
information,
please visit:

www.cefims.eu

Or e-mail:

ksullivan@tssg.org

Award Competition Opens...*continued from front page*

...The closing date for receipt of entries is Friday 6th April, 2012.

The winning entry will be announced at the closing ceremony of Aalborg's Future Internet Week, 7-11 May, 2012.

The 'Future Internet Award', supported and organised by the ceFIMS Coordination Action, is an opportunity for European national and regional Future Internet initiatives to promote their work. Initiatives can take the

form of innovative products and services that will shape the Future Internet. The Award is presented every six months to the initiative that is adjudged to have the greatest potential to advance the Future Internet and which provides an exemplar for innovate products and services.

The winning FI initiative will be able to use the Award for promotional purposes.

The Award will be a crystal glass vase with the inscription Future Internet Award and the location where the presentation is made.

[Click here](#) to see past winners of the Award.



About ceFIMS

ceFIMS is the 'Coordination of the European Future Internet Forum of Member States'. The project supports the Future Internet Forum (FIF) by providing a Secretariat and support structure for its activities. ceFIMS is analysing Future Internet research initiatives at national, regional and trans-national levels. The project aims to create synergies, and reduce duplication and fragmentation in European Future Internet research.
