

Future Internet Forum



IN ASSOCIATION WITH ceFIMS FP7 COORDINATION ACTION

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Welcome to the ceFIMS newsletter. This new publication will bring you updates on the Future Internet Forum (FIF) of Member States, as well as information on new initiatives and achievements in the European Future Internet.

The latest meeting of the FIF took place in Ghent, on 17 December, 2010, during the Ghent

Future Internet Week. Representatives from Slovenia, The Netherlands, Barcelona, Ghent, and Linz presented their latest Future Internet activities and details of these can be found on pp. 3-5 of the newsletter.

The inaugural winners of the Future Internet Award were also announced in Ghent. Two projects were recognised

for providing an exemplar for innovate products and/or services and for demonstrating the greatest potential to advance the Future Internet. A report on the Award can be seen below and continues on the backpage.

Finally, this newsletter provides information on some upcoming events that may be of interest to the Future Internet community, including Budapest's Future Internet Week which takes place on 16-19 May. Hosted by the Hungarian Presidency, the **next meeting of the Future Internet Forum of Member States takes place during this event, on Wednesday, May 18.**



Pictured at the Future Internet Award ceremony in Ghent: (l-r) Willie Donnelly (WIT), Anastasius Gavras (Panlab), Joan Batlle (Judging Panel), Petronela Burceag (EC), James Carswell (StratAG), Mario Campolargo (EC)

Dr. Willie Donnelly,
ceFIMS Project Coordinator.

Future Internet Award Winners

The winners of the inaugural [Future Internet Award](#) were announced recently at Ghent's Future Internet Week. Joan Batlle from the Award's Judging Panel presented crystal vases to the [Panlab](#) and [StratAG](#) projects during Ghent's closing ceremony.

Panlab received their Award for providing the best exemplar for

innovate products and/or services. The Panlab project offers heterogeneous testbed resources to enable large-scale testing and experimentation. The facility comprises a number of testbeds which form a testbed federation among regional innovation clusters.

Continued on back page...



Waterford Crystal Vase
presented to
Award winners

ceFIMS Consultation Workshops

The ceFIMS workshops play an important role in the project's engagement with a wide range of stakeholders. These workshops are part of the project's data-gathering and roadmapping activities. The first European-level workshop takes place in Budapest, in May, as part of the Future Internet Week. Further details of Budapest's Future Internet Week can be found on the page 6 of this newsletter. Two thematic workshops have recently taken place:

The ceFIMS-EX-FI workshop focused on how Future Internet initiatives from Member States & the Regions can engage with PPP

Thematic workshop with EX-FI

THE EX-FI project (Expanding the European Future Internet Community) is charged with establishing a community that supports a coordinated approach to funding for European R&D activities on the

Future Internet. In particular, EX-FI is concerned with this community having an influence on the scope and objectives of a European PPP (Public Private Partnership) on Future Internet.

The primary objective of the ceFIMS-EX-FI workshop was to use the discussions as input towards the development of a position paper on closer cooperation between Member State and PPPs – and to promote the engagement of Member States in the PPP process.

Thematic workshop with ETPs

FIVE European Technology Platforms (ETPs) attended this joint ceFIMS-ETP workshop: Photonics21, ISI, NESSI, Net!Works and NEM. Each ETP presented (1) details about themselves, (2) their R&D capabilities



Presentations at ceFIMS-ETP workshop

and priorities, (3) their recommendations for future funding instruments.

This workshop opened a communication channel between the Future Internet Forum of Member States (via ceFIMS) and the European Technology Platforms (ETPs) related to the Future Internet.

[Presentations](#) from both workshops are available on the ceFIMS website.

Future Internet Database Launched

A [database](#) containing information on Future Internet activities across Europe is now in place on the ceFIMS website. The information is categorised by Member State, under four headings: (1) Title & overall scope of the initiative(s); (2) R&D Scope; (3) Expected Impact; (4) Involved

Constituency.

Each Member State has its own page on the portal, thereby allowing a search 'by Member State' function.

To better organise and categorise the information, each Member State page is tagged with its own keywords (e.g. security, users, services, etc.) and

these are displayed in a tag cloud on the site. This allows visitors to the site to search the database 'by topic'.

The next stage in developing the database is to format and add the information obtained via the Future Internet Award to the ceFIMS site - this work is currently under way.

ceFIMS presents to Spanish Technology Platforms

A presentation on ceFIMS was made to the eNEM and es.INTERNET Spanish Technology Platforms in November, 2010, in Madrid.

ceFIMS was presented at the 'asambleas2010' International session during the 2010 International Forum for Digital Content. asambleas2010 was co-organised by project partner AETIC.

During the session, AETIC and ceFIMS (represented by Kieran Sullivan, WIT) stressed the importance of using

the information being gathered by ceFIMS, as well as the opportunity to contribute to the project's roadmap. ceFIMS partner UL also spoke during this session.



Julián Seseña (AETIC) & Kieran Sullivan (WIT) at asambleas2010

Concertation & Cluster Meetings

A presentation on ceFIMS was also made at the Future Networks 6th FP7 Concertation Meeting & Future Internet Cluster Meeting in Brussels, in October 2010. The Concertation meeting facilitated the kick-off of the Future Networks Call 5 projects and their integration with current projects in the community.

The 21 projects that started in July/September 2010 were invited to present their aims and achievements. Brian Foley (WIT) represented ceFIMS at these meetings.

21 new Future Networks projects started in July-September, 2010

Member State Initiatives

Slovenia

The mission of the Slovenian Future Internet Initiative (FI.SI) is to "contribute to the EU Future Internet leadership initiative by involving Slovenia's world class competences of industrial and research partners in order to set up one of the first smart countries in the world."

53 projects

There are a number of Slovenian Future Internet R&D activities, including Centres of Excellence and Competence Centres

(e.g. EuroCloud), eContent and eService projects, and National Technology Platforms. 56 Slovenian partners have been involved in 53 FP7/ICT projects in all EC Calls and FETs.

ehealth and smart energy

There is much research being carried out in Slovenia in the ehealth (ehealth 4.0: biomedicine, telemedicine) and 'smart energy' (virtual power

plant) domains. In parallel, all new projects must now incorporate a business schema.

Slovenia is also aiming to develop a national federated testing infrastructure for Future Internet Technologies and Services with the SINTESIO test laboratory as the core networking infrastructure and demonstration facility along with FIRE.

More information is available in this [presentation](#).



The Netherlands

A number of the Netherlands's Future Internet initiatives were presented by Mr. Joost van der Vleuten at the December meeting of the Future Internet Forum of Member States. Mr. van der Vleuten presented an overview of the Netherlands Future Internet policy, local and regional activities, 'smart' infrastructures and applications, and the Internet as a platform.

Broadband goals

While the Netherlands has almost reached the EU Digital Agenda broadband goals for 2020, they are continually examining a number of related aspects, including:

freeing up spectrum for mobile-data/internet; decentralising broadband stimulation (opening up cable for analogue TV competitors); and, stimulating (subsidising, launching customership, etc.) relevant public services in sectors such as education, health-care, security, and energy, amongst others.

They are also addressing the facilitation of roll-out and of 'aggregation of demand' via fibre initiatives. There are a number of current Dutch 'smart' projects: Smart Grids (National policy and Taskforce, Municipal Initiatives), Hoogkerk (power-matching, local energy

balancing), Regionaal zorgportaal (Regional Personal Healthcare file for Cancer Patients), G32 (Network of 32 cities cooperating on economic and social issues).

NWO

The Netherlands Organisation for Scientific Research (NWO) also has a program called 'Connecting Sustainable Cities'. Amongst other goals, this program has identified some barriers to progress in the Future Internet domain: (a) Trust and Security, (b) Single digital market; (c) Access for service providers to their customers. Click here to see Mr. van der Vleuten's [presentation](#).

"To promote the optimum availability and use of broadband facilities for socio-economic purposes..."
Digitale Agenda Grote Steden 2010 - 2015

Linz, Austria

LinzAG is an initiative addressing infrastructure services for Upper Austria. It has a wide remit, covering administration and finance, waste disposal and water supply, public traffic, and gas supply and district heating.

It also covers power generation, transmission and distribution, and telecommunications. LinzAG incorporates approximately 400,000 citizens and has several partnerships with regional, national, business and industry actors.

Smart Functions

LinzAG has invested optical fibre, IP networks and human resources in telecommunications infrastructures. This has resulted in the operation of the following 'smart functions': metering electricity (50,000 meters running); metering district heating (2,500 meters running); switching (4,000 load management modules running); processing (15,600 tele-control items connected); customer information (energy information system); security (550 video

surveillance cameras).

Smart Energy

A recent 'smart energy' initiative saw interfaces installed in consumers' homes, which allows them to monitor and manage their own energy consumption. From their experience, LinzAG state that the Future Internet will comprise a quantity of 'smart functions'; its core task will be utilities; there will be a lot of market participants; and, security will be a big challenge.

More information on Linz is available in this [presentation](#).

Barcelona, Spain

Barcelona is using a three-pillar model involving ubiquitous infrastructures, human capital, and rich information

For Barcelona, being a ‘smart city’ means: a technology-intensive and advanced city that connects people, information and city infrastructure.

The Barcelona ‘smart city’ initiative aims to: increase quality of life; support more competitive and innovative business; make management and maintenance easier and cheaper; and, have a more sustainable and greener city. To achieve this, Barcelona is using a three-pillar model involving “ubiquitous

infrastructures”, “human capital”, and “rich information”. This operates on an open-market basis and will lead to ‘smart services’ for citizens.

150,000 commuters

Already, the Municipality of Barcelona has several infrastructures underway, including a new commuter mobility plan (involving 150,000 commuters) and new energy networks.

There are a number of these infrastructures and a number of pilot initiatives. Barcelona is

also promoting entrepreneurs and innovation in companies as part of this ‘smart city’ initiative.

300,000 citizens

While it does not have a ‘bottom-up’ process in place, there are, nonetheless, 300,000 citizens involved. The project also has strong connections with the Catalan Government and is involved with several other ‘smart city’ activities across Europe.

Please see this [presentation](#) for more information.

Ghent, Belgium

Ghent is a “smart city with ambition” and has five main strategic goals: (1) Knowledge and Innovation; (2) Social dimension of sustainable development: equal opportunities and social cohesion; (3) Economic dimension of sustainable development: diversification of the Ghent economy; (4) Ecological dimension of sustainable development; (5) Citizen involvement and Communication.

To facilitate ‘smart citizens’, the city has launched a number of initiatives, including e-government (e.g. e-

recruitment, e-services), e-participation (e.g. community-based planning, participatory budgeting), and e-inclusion (via ‘Digitaal.Talent@Gent’).

EUROCITIES

It also participates in the EUROCITIES Knowledge Society Forum, which provides



Ghent University

cities and business partners with a platform for exchanges of good practice and for cooperation on relevant policy issues in a European framework. A number of pilot projects are currently running in Ghent, including SMARTiP (citizen-centric Internet-enabled services), IBBT TERRAIN (future access infrastructure), CARROT (carbon-efficient remote working), and GREENPOL (based on Ghent’s ‘Green Digital Charter’).

More information is available in this [presentation](#).

Upcoming Events

Budapest Future Internet Week

Future Internet research is a high priority for the Hungarian EU Presidency. Together with the European Commission's DG INFSO, it is organising a Future Internet Week on **16-19 May**.

This event in Budapest will investigate the policy, technological, and socio-economic aspects of the Future Internet. It will be attended by participants from industry and academia, as well as stakeholders from the European Commission and from the Member States.

For more information visit:
www.fi-budapest.eu/

Workshop on Digital Government

For years we have debated various aspects around the provision of online services from government entities - in particular, business processes, e-democracy, the role of ICT as an enabler and governance, etc.

The Workshop on Digital Government takes place on **6-7 June** and will focus on how the Internet can promote the quality, accessibility, credibility and usefulness of on-line services offered by public authorities. ceFIMS will moderate a Working Session.

For more information, visit:
www.future-internet.uni.lu/



Budapest Future Internet Week,
16-19 May

All for Broadband - Broadband for all

The 'All for Broadband - Broadband for all' conference takes place in Budapest, Hungary on **3rd March**. It will focus on one of the Digital Agenda's main action areas: *enhancing fast and ultra fast Internet access*.

"Broadband for All" is a universal objective of the European Union, to create a truly digital single market and contribute to social inclusion. The tools to achieve it, however, are still under discussion. Obviously, decision makers, stakeholders and consumers are "All for Broadband", but there remains a need to discuss whether and how public financing and intervention can help in achieving this objective.

More information: <http://is.gd/broadband>

ICT Proposers Day 2011

The ICT Proposers Day takes place on **19-20 May** in Budapest, immediately after their Future Internet Week. Proposers Day offers a networking platform to build partnerships and participate in ICT Calls 8 and 9 of the 7th Framework Programme for R&D.

Thematic sessions with presentations of proposal ideas, information stands and meeting points will be proposed. Registration is free of charge and is open now.

For more information visit:
http://is.gd/proposers_2011

Future Network & Mobile Summit

The Future Network and Mobile Summit conference takes place in Warsaw, Poland on **15-17 June**. It will address all the challenges of building the Future Internet, which will be based on mobile, wireless and fixed broadband communications infrastructures.

The Summit showcases European research, in particular from the EU Future Networks projects, and positions it within the multiplicity of related initiatives from outside the EU.

For more information, visit:
http://is.gd/future_network

The European Commission is consulting on radical changes to create more growth and jobs - Deadline for contributions - 20 May 2011
Click here for more information:

http://is.gd/ec_consult

Cars that Talk

The Future of Intelligent Transportation Systems

*Portugal has the
Largest
Vehicular
Networks
Testbed in
Europe*

Imagine a not so distant future when almost all vehicles are equipped with GPS navigation devices and wireless communication capabilities. Vehicles are able to exchange information in real time and use it to ensure the most efficient use of the road network, while providing drivers and passengers with the best possible travelling experience.

In Porto, Portugal, a large-scale vehicular ad-hoc network of 500 taxi cabs is currently ramping up, offering practical examples of the economic and social benefits of intelligent transportation systems. The 500 taxis are equipped with a prototype that helps researchers to collect and test data for improving security and efficiency of vehicular transportation.

This initiative is being developed within the scope of the research project DRIVE-IN – Distributed Routing and Infotainment through Vehicular Inter-Networking, carried out under the Carnegie Mellon – Portugal Program, funded by the Portuguese Science and Technology Foundation (FCT).

Equipped with a myriad of sensors these communicating vehicles shall further operate simultaneously as a

massive urban scanner, providing real-time information about the city's metabolism, including pavement conditions, concentration of certain chemicals, noise levels and other variables that affect our quality of life. Cars and buses can warn each other and also the authorities on traffic accidents and serious hazards they encounter.

DRIVE-IN exploits the interplay between real-time navigation and wireless communication applications, correlated with road characteristics and traffic patterns, in order to achieve stable and efficient traffic and information flows. It addresses both

foundations and applications of inter-vehicle communication and involves horizontal activities covering realistic large-scale simulation and massive real-life experiments in urban environments.

This project involves researchers from Portuguese universities (Porto and Aveiro), research institutions (Institute of Telecommunications), public administration (Land Mobility and Transports Institute), companies (NDrive, Geolink, RadiTaxis) and Carnegie Mellon University.

For more information: <http://drive-in.cmuportugal.org>



Future Internet Forum



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Future Internet Award Winners...continued

...According to the Judging Panel, Panlab was “innovative and an exemplar” and would have a “high impact”.

The second Award went to the project which demonstrated the greatest potential to advance the



Anastasius Gavras from the Panlab project accepting the Award

Future Internet. The winner of this Award was StratAG.

StratAG uses a novel mobile spatial interaction prototype called 3DQ (Three Dimensional Query) for data mining and analysing today’s location- and orientation-aware “smartphones” within 3D sensor web environments.

The Judging Panel said StratAG has the potential to “unlock possibilities for citizens and governments” and that “application areas can be easily found”.

The next [Future Internet Award](#)

competition opens in early 2011, with the winner to be announced at Budapest's Future Internet Week in May.

Updates on how to enter this competition will be announced in the coming weeks.



James Carswell from the StratAG project accepts his Award

Links

News

Future Internet Award:

http://is.gd/cefims_award

Panlab:

<http://www.panlab.net/>

StratAG:

<http://www.stratag.ie/>

Workshop presentations:

http://is.gd/cefims_workshops

Future Internet database:

http://is.gd/cefims_database

ceFIMS in Spain:

http://is.gd/cefims_dissemination

Member State Initiatives

Slovenia:

http://is.gd/cefims_slovenia

The Netherlands:

http://is.gd/cefims_netherlands

Linz, Austria:

http://is.gd/cefims_linz

Barcelona, Spain:

http://is.gd/cefims_barcelona

Ghent, Belgium:

http://is.gd/cefims_ghent

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.