Future Internet Forum

IN ASSOCIATION WITH CEFIMS FP7 COORDINATION ACTION

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In this issue ...

From ceFIMS …

Welcome to the latest version of the ceFIMS newsletter.
One of the main goals of the Future Internet Forum and of the ceFIMS project is to share information on different projects around Europe. In this issue we bring news from around Europe on many different projects, new initiatives and recent conferences. In each case, information on how to contact these projects is given. I would encourage you to read the information on these projects and share information and ideas with the relevant contacts.

Also, please remember to submit information on projects and funding schemes from around Europe to the ceFIMS database. This is another way for us to keep ourselves informed on projects and funding processes for R&D around Europe. Please send in information to Kevin Quinn at kquinn@tssg.org.

Willie Donnelly.

Dr Willie Donnelly,
ceFIMS Project Coordinator

Latest news …

September is a very busy month for the Future Internet Forum. We have a meeting scheduled for Warsaw to coincide with the Proposers' Day. The FIF meeting will take place at the Institute of Mathematical Machines, ul. Ludwika Krzywickiego 34, 02-078 Warszawa.
More information on this location is available at http://www.imm.org.pl/64.institute-of-mathematical-machines.html

The FIF meeting is scheduled to run from 2pm on Wednesday until 12pm (midday) on Thursday. Jorge Pereira will send out the final agenda. In tandem with this meeting, ceFIMS (Coordination of the European Future Internet Forum of Member States) have organised a workshop on Sept 27th 2-5pm on a number of topics including, The Role of the Ambassador and the idea of national Future Internet offices/forums. How ceFIMS can be better used to help the workings of the FIF including the best methods to support the FIF beyond the end of ceFIMS, which is currently scheduled to finish at the end of Feb 2013

More information on the Proposers' Day is available http://ec.europa.eu/information_society/events/ictproposersday/2012/index_en.htm

And, as always, information on the FIF can be found at http://ec.europa.eu/information_society/activities/foi/lead/fif/index_en.htm

FuturICT - a European effort for a common goal

FuturICT (http://www.futurict.lu/) is a FET flagship project that opens up the possibility to combine our expertise across domains in order to work on new concepts, methods and platforms for predicting our future and to understand our complex world.

FuturICT is a European consortium committed to transparency, openness and ethical behavior. The project's aim is to lift our knowledge of social and economic systems to a new level of understanding, thereby enabling us to discover promising paths towards a sustainable future. More than 1000 researchers all over Europe have decided to work in the FuturICT project, a 10 years, 1 billion research programme and to make use of Big Data and available ICT.

Our vision is to create an eco-system of ideas, data, models and applications through a network of researchers and business people. What for? It will bring support for a better communication and decision making between policy-makers, business people and citizens around the world.

Our objective is basically to be in a position to foresee the co-evolution of ICT and society. What is essential when we want to lay a stronger foundation for generations which follow? The answer is to involve world's best scientific brains to develop a platform where data and models can be explored by everybody in real-time, where complex phenomena are visualized in comprehensible ways, and helps us to take essential decisions fast.

FuturICT Luxembourg - national hub

FuturICT Luxembourg has now a dedicated Website! You will be informed on the national on-going activities with the topics covered, partners involved, news, events and important documents. Luxembourg is proud to be part of the European consortium.

The national hub Luxembourg is led by the Public Research Centre Henri Tudor. We welcome you to browse this Website and find detailed information about how Luxembourg can contribute to this large challenge.

IPv6 – The Future of the Internet

First Hungarian IPv6 Conference

Budapest, Hungary, 3 May, 2012

The Hungarian IPv6 Forum organized its first annual conference in Budapest on the 3rd of May, 2012, with the motto: "IPv6 – The Future of the Internet". The meeting held under the auspices of Vilmos Valyi-Nagy, Deputy State Secretary of the Ministry of National Development responsible for governmental informatics, was attended by more than 150 professionals from the industry and the academia. The main sponsors and supporters of the conference were the Hungarian Telekom, Ericsson Hungary, and the Budapest University of Technology and Economics (BME). The primary goal of the conference was to review the experience of the IPv6 deployment in the country and to exchange information on IPv6 technology among the professionals.

The conference was opened by Sandor Imre, President of the Hungarian IPv6 Forum, who introduced the plans and activities of the organization. The keynote speaker of the conference was Latif Ladid, President of the global IPv6 Forum. In his lecture Mr. Ladid mentioned that more and more countries recognize that steps have to be taken urgently to change for the new world of IPv6. Many new pilot projects has been launched recently, the results of which went into practice. President Ladid emphasized the responsibility of the network experts. It is their task to convince the decision makers and the business leaders about the importance of the IPv6 technology. By far the most important thing is that the network service providers understand the necessity of the technological change and they will be followed by the business customers.

It is the responsibility of the network experts to convince the business leaders about the importance of IPv6.

The Future Internet cannot be implemented without IPv6.

The introduction of IPv6 is essential part of the technological developments of the Hungarian Telekom (MT) – said Matthias Linder, CTO. MT has already started the preparations on IPv6 for a long time. By the end of 2012 it will make the network equipment IPv6 ready for 50% of its customers, and step by step all the devices will be switched to the new protocol. MT is still waiting for "killer applications" that would gear up the IPv6 deployment globally. Mr. Linder said that the ISPs were waiting for driving forces – e.g. mobile applications, content services, Internet of Things applications – which would give momentum to the IPv6 deployments. According to its plans, MT will start the commercial IPv6 service in 2013-2014.

In his presentation Vilmos Nemeth, the Hungarian delegate in the Future Internet Forum of the Member and Associated States (FIF) summarized the deficiencies of the current Internet technology and the advantages of IPv6, and reminded the professionals participated in the conference that the Future Internet cannot be implemented without IPv6.

EARTH (Energy Aware Radio and neTwork tecHnologies) was a highly ambitious and unique FP7 IP project, investigating the energy efficiency of mobile communication systems. A consortium of 15 leading telecommunications service providers, component and infrastructure vendors and academic institutions had as their common goal to achieve a 50% reduction in the energy consumption of 4th Generation (4G) mobile wireless communications networks enabling at the same time a strong and steady growth in mobile data traffic.

The award-winning consortium EARTH achieved several accomplishments during its short existence. The solutions developed include everything from more efficient components in radio base stations to solutions on the radio network level. The EARTH project found ways to incorporate its solutions efficiently into integrated solutions. The final evaluation of the EARTH integrated solutions demonstrated that they would allow operators to save up to 70% of energy consumed in their networks. This significantly exceeded the original target of 50%. Key components of the EARTH solutions have been implemented, validated and experimentally analysed, in some cases in an operator's testbed, under realistic operating conditions, which proved theoretical savings as well as practical ones.

After two and a half years, the EARTH research project, partially funded by the European Union's Seventh Framework Program (FP7), has reached a successful conclusion in June 2012

EARTH showed that with these savings it is possible to expand mobile networks to satisfy traffic demands that are doubling every year, without increasing their CO2 footprint. This will be effective until disruptive future solutions also identified by EARTH are matured. Thus EARTH results are pivotal for more energy efficient growth of mobile broadband, which is needed to meet the broader sustainability goals of bridging the digital divide and creating low carbon economies of the future.

The EARTH project succeeded as a flagship initiative in the area of energy efficient wireless access and is being widely referenced. The EARTH Energy Efficiency Evaluation Framework (E3F) to measure energy efficiency of wireless access networks laid foundations for objective and fair rating of wireless network energy efficiency. The importance of this contribution has been confirmed by major operators to be what has been long desired and now manifests in current standardisation activities in ETSI (European Telecommunications Standards Institute). Thus EARTH set an important global foundation for continued development of energy efficient wireless access networks.

Website: https://www.ict-earth.eu/

Contact: Dietrich Zeller, Alcatel-Lucent Bell Labs

StratAG
Strategic Research in Advanced Geotechnologies
Taighde Straitéiseach sna hArd-Gheoteicneolaíochtaí

Next Phase development underway with Local Scale Demonstrator

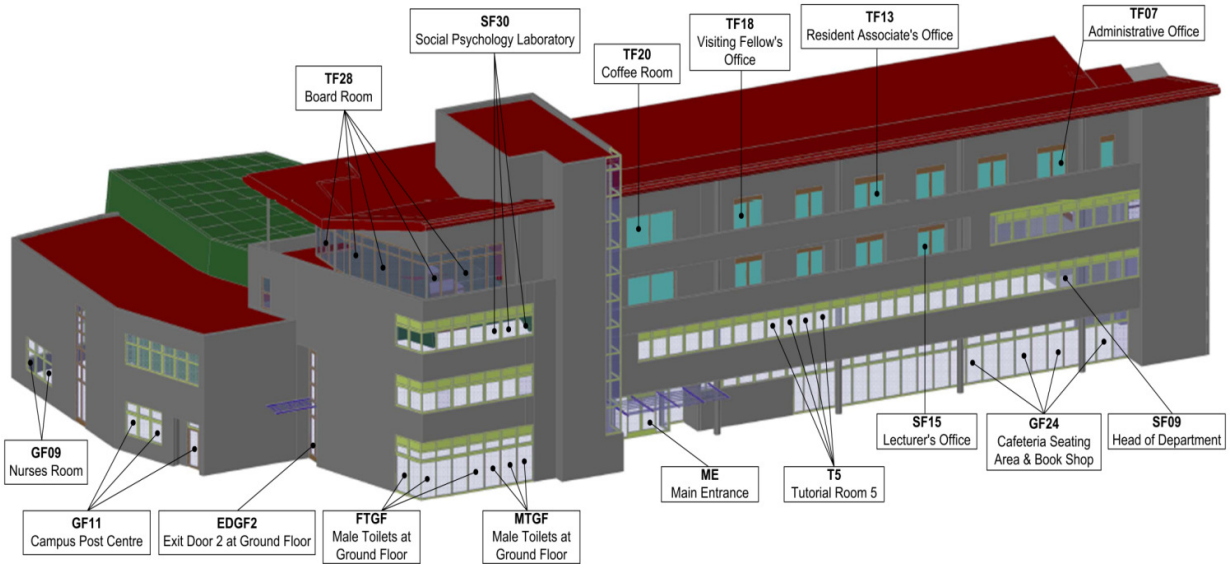
The objective of StratAG is to develop a technology demonstrator to showcase spatially empowered functionality that assists the users in exploring and analyzing their surroundings in a detailed data environment in support of spatial decision making. The Local Scale Demonstrator will integrate research conducted within a number of StratAG partner projects into a test-bed environment to showcase personalised spatially enabled technologies in dynamic local environments. To do this, the demonstrator requires input from a number of StratAG research activities in all three layers of the SOA:

Local scale within the StratAG project refers to a scale at which there is high availability of detailed local data (e.g. room numbers, class schedules, office/lab locations/times, etc.) readily accessible to users within a controlled environment. Examples of localities could be: a financial district, a university campus, a shopping centre. Within our local scale demonstrator we plan to illustrate a use-case tailored specifically to a university campus setting, see the figure below.

A 2 year extension of SFI (Science Foundation Ireland) funding has enabled DIT (Dublin Institute of Technology) to further develop 3DQ (Three Dimensional Query) into a mobile sensor web data mining tool for analyzing a variety of Future Internet data feeds - e.g. sensor observations for CO, CO_2, NO_2, noise, radiation, and a host of other iThings.

In recognition of their recent work in the StratAG project, Junjun Yin and James D. Carswell were awarded "Best Paper" at the 11th International Symposium on Web & Wireless GIS (2012) hosted at the University of Naples Federico II (Italy) in April. Their paper "Effects of Variations in 3D Spatial Search Techniques on Mobile Query Speed vs Accuracy" is published in Springer-Verlag Lecture Notes in Computer Science, Volume 7236, pp. 1-16. This work has subsequently been invited for special publication in the Journal of Spatial Information Science.

Website: http://www.stratag.ie/ **Contact**: stratag@nuim.ie



New FI Project in the Health Sector Supported by EUREKA

The PISCES project was launched in the Celtic-Plus cluster of the inter-governmental EUREKA network in June 2012. The project consortium is composed of leading industrial companies, as well as research institutions with technological excellence, knowledge and technical innovations:

- Atos Origin Turkey (TR) (project coordinator)
- Atos Origin (ES)
- Turk Telekom (TR)
- Corvinno Technologia (HU)
- Playence Spain SL (ES)
- CTIC (ES)
- Disy Informationssysteme GmbH (DE)
- InQmon (HU)
- Forschungszentrum Informatik Karlsruhe (DE)
- 3DIGITS, Serveis d'Enginyeria Informàtica, S.L. (ES)

The PISCES project will prove the concept of the Future Internet Paradigm in the Health domain, a broad and demanding field significantly affecting every individual and society as a whole in a multitude of ways. In order to tackle this challenge, two carefully-chosen test cases have been designed, based mainly on Internet of the Things (IoT), and Internet of Contents and Knowledge.

The PISCES project copes with the idea of covering some of the most important issues in current conception of healthcare (prevention, information related, and patient management and patient empowerment) by providing two selected test case scenarios. In case of the scenarios the emphasis is put on the identification of appropriate technologies and their usage in providing services and applications for the health care through Future of Internet platforms.

PISCES will demonstrate how the Future Internet and Semantics can be utilised to move far beyond traditional care, overcoming current obstacles in the provision of personalised high-quality health services, improving prevention and management (patient in the centre of the healthcare loop) in Healthcare services.

Website: www.celtic-initiative.org/Projects/Celtic-Plus-Projects/2011/PISCES/pisces-default.asp

Contact: Sinan Yurtsever, Atos Origin, Turkey

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.