# 2nd Newsletter

February 2015



Photo from FI-PPP and FIF National funding agencies workshop, Brussels, July, 2014. Read More at ... http://www.cefims.eu/2014/07/fif-funding-agencies/

In the 2nd ceFIMS-CONNECT Newsletter, focus is on important information regarding project developments, ongoing Future Internet and 5G related developments in Hungary, Ireland, Portugal and Spain. It summarizes the FIRE+ extension with new projects, FIWARE Phase 3 momentum and first call of 5G-PPP initiative, as well as a newly created joint Working Group of NEM and Networld2020. Finally, the newsletter highlights the upcoming Net Futures 2015 conference and other important events of relevance to the Future Internet Forum of Member States and Associated Countries (FIF), national Future Internet stakeholders, joint European FI initiatives (e.g. FIRE, FI-PPP and 5G-PPP) and the ceFIMS-CONNECT project.

A web version of the newsletter can be found at http://www.cefims.eu/newsletter-february-2015/.

# FIF AND CEFIMS-CONNECT ACTIVITIES

## FIF MEETINGS

The 12th FIF meeting was held on 21st October, 2014 in Berlin, Germany, co-located with the 5G Global Conference organized by project Mobile and wireless communications Enablers for the Twenty-twenty Information Society (METIS) discussing the FIWARE experiences and discussing the emerging 5G initiatives. More information is available at http://www.cefims.eu/2014/11/12th-fif-meeting/.
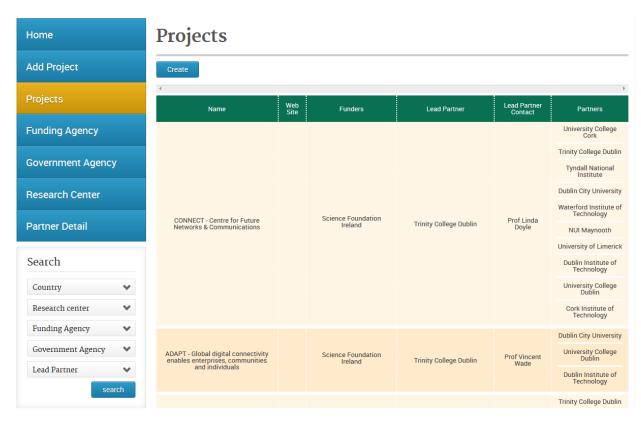
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The next meeting of the Future Internet Forum will be held in Brussels on 25-26 March 2015, in the context of "Net Futures 2015: born to scale".

## CEFIMS-CONNECT FIF REPOSITORY

Based on sample data from four FIF members Future Internet Research & Innovation (FI R&I) structures for Ireland, Poland, Portugal, and Spain, work has been completed on a draft version of a dedicated repository database (RDB) site for the FIF members with data entry and accompanying built-in search functionalities (shown below). The RDB will allow FIF members to securely upload information on their own in-country funding structures and linkages to national FI R&I initiatives and projects. The RDB will be located in the  FIF member's area on the ceFIMS-CONNECT website when the repository structure is agreed, up and running, at which time the other FIF members countries can begin the data entry process.



The preliminary RDB schema, as presented at the 12th FIF meeting in Berlin on 21st October, 2014,  is designed for storing data related to Gov't departments and agencies, funding bodies, research centres and projects, industry centres, and R&I stakeholders based in EU Countries of the FIF. The first prototype of new database will be demonstrated to the EC and reviewers at the project review on 24th March, 2015 and at the upcoming 13th FIF meeting being held during Net Futures 2015.

## CEFIMS-CONNECT LINKEDIN GROUP

Are you eager to connect with other Future Internet and 5G researchers, innovators, businesses? Join the ceFIMS-CONNECT LinkedIn group and @ceFIMS Twitter.

Most active Future Internet stakeholders, including many Future Internet Forum members, are already members of the LinkedIn group. The social media channels are meant to be an active discussion forum for Future Internet and 5G developments on national and European level, sharing information and events among all interested parties.

## FIWARE NATIONAL WORKSHOPS RECOMMENDATIONS

Extensive experience of ceFIMS-CONNECT partners extracted from (co-)organizing and running different events and actions related to FIWARE programme promotion have been compiled into a recommendations report available at http://www.cefims.eu/2014/11/fiware-accelerator-recommendations/.

## MONITOR SERVICE

In December, 2014, ceFIMS-CONNECT launched a Monitor service, which is an ongoing tool for Member States and Associated Countries to publish and share their national best practices, success stories and developments in the area of Future Internet and 5G , as well for European initiatives to share their news with national stakeholders, on a regular basis.  The received contributions will be published via ceFIMS-CONNECT channels under different categories of Monitors. Currently, three types of Monitor contributions are distinguished:

- **FIF Monitor**  - As presented at the 12th FIF meeting in Berlin in October, 2014, the FIF Monitor enables contributions from FIF members summarizing national FI and 5G developments, best practices, success stories on a regular basis;
- **FI Monitor** – contributions from projects or initiatives (national and European) with special interest in the Future Internet domain;
- **5G Monitor** – contributions from projects or initiatives (national and European) with special interest in the 5th generation mobile networks.

If you would like to publish an item via the ceFIMS-CONNECT Monitor service, please email to the contacts given at the end of the newsletter.

# NEWS FROM NATIONAL INITIATIVES

## FIF MONITOR: DEVELOPMENTS IN HUNGARY

In December 2014, the project published the first **FIF Monitor**, in which Hungarian FIF member, Vilmos Németh from the National Innovation Office highlights events and initiatives related to Future Internet

activities in Hungary. One of the key initiatives was the set-up of an Agriculture and Food Industry Chapter of the Hungarian (FI NTP) with the aim to outline strategies and advantages of using Future Internet technologies in the agribusiness and to help build the synergy within the sector. The Monitor highlights the Hungarian project FIRST, which published the FIRCC 2014 report summarizing results of 83 research themes selected from the Future Internet National Research Programme. The Monitor has been published at: http://www.cefims.eu/2014/12/fif-monitor-hungary-1/.

## SPAIN: FIWARE PARTICIPATION AND FI MONITOR FOR SPAIN PUBLISHED

The Spanish Future Internet ecosystem is very strong and active in participation to FIWARE programme. According to information collected by the FI-Impact project summarizing how the efforts of the accelerators are spread throughout Europe, summarized in an infographic at (http://www.fiware.org/2015/02/13/fiware-accelerator-programme-first-call-in-figures/), Spain is the most active country in the FIWARE programme, submitting 25% of all proposals received until January 30th.

In response to our first public open call of ceFIMS-CONNECT Monitor, we are also pleased to announce the release of a first FI Monitor for Spain. In this first release,  Ignacio Gurría, Javier Gurría, Daniel Menchaca presents the SmartAppCity project developed in Spain under a framework of public-private partnership.  The SmartAppCity was created with an integrated vision to show and map massive amount of data (Big Data) generated by their residents, services and infrastructure, in real time, and to provide value information for citizens, improving their quality of life and wealth.

## PORTUGAL

Portugal, thought the FCT – Fundação para a Ciência e a Tecnologia, participates in the ERA-NET COFUND Smart Cities and Communities (ENSCC) which recently launched  a joint transnational call for European research projects in the area of Smart Cities and Communities.  This call is open for proposals (until 17 March 2015) which bring together partners ranging from strategic research to innovation. ENSCC targets smaller scale projects (in contrast to Horizon 2020 Lighthouse projects) addressing smaller cities and small scale testing. Moreover, ENSCC asks for an integration of different technologies and a human-centred approach (for more information, please visit: http://www.fct.pt/apoios/cooptrans/eranets/cofund/index.phtml.en).

Among several actions and initiatives under the scope of Future Internet, includes an Information Day for stakeholders on the EU-Brazil Research and Development Cooperation in Advanced Cyber Infrastructure call, held in Lisbon in November 2014, and the Smart Travel 2014 (http://www.smartravel.pt/2014/), a whole week international event focused on ICT concepts like Innovation, Smart and Tourism. This event was held in several cities in the North West of Portugal. More recently another event focused on the Internet of Everything was held in Estoril, the Cisco Connect Portugal 2015.

## IRELAND

Two National projects/initiatives have recently been awarded in Ireland in areas related to FIRE and 5G.

CONNECT: National Communications Centre funded by Science Foundation Ireland has been announced in late 2014. CONNECT is a 50MEuro Academic/ Industry / State project creating a National Centre of Excellence in Future Networks and Communications. There are 30 Industry players involved, including Intel, Alcatel Lucent, IBM Lucent, Google, Analogue Devices, Cisco, EMC, and others.  Academic Leadership is provided by the Director, Professor Linda Doyle of Trinity College Dublin (TCD) and Co-Directors, Prof. Willie Donnelly of Waterford Institute of Technology, TSSG and Prof. Cian O Mathuna of the Tyndall National Institute at University College Cork. Additional information can be found at http://www.knowledgetransferireland.com/Research_in_Ireland/Research-Map-of-Ireland/HEI-Profiles/The-Centre-for-Future-Networks-and-Communications-CONNECT.html with a web portal available shortly at http://www.connectcentre.ie/.

Internet of Things global centre: Sponsored by Dept. of Jobs, Enterprise and Innovation. The strategy of this initiative is to leverage Ireland's ICT leadership to create a global centre related to the Internet of Things. FIF Member Prof. Willie Donnelly was recently interviewed about this initiative – see http://www.tssg.org/2014/11/innovation-ireland-forum-people-will-be-at-heart-of-iot-says-prof-willie-donnelly-video-2/.

# NEWS FROM JOINT EUROPEAN INITIATIVES

## FIRE

The FIRE initiative (Future Internet Research and Experimentation) creates an open research environment which facilitates strategic research and development of new Future Internet concepts, giving researchers the tools they need to conduct large-scale experiments on new paradigms. FIRE provides cutting edge facilities that cannot be inexpensively reproduced and offers them to the Net Futures research communities (researchers in cloud, cyber physical systems, big data) and for Horizon 2020 as a whole (e.g. Smart Cities, Manufacturing, eHealth).

On 16th December, 2014,  the 18th FIRE newsletter was published summarizing ongoing developments such as Open Calls, news from the FIRE projects and upcoming events. Also take a look at SmartFIRE and FORGE newsletters for more details on these projects. Five new FIRE projects of the CALL 1 / ICT11-H2020 are about to start early this year: FIESTA, MONROE, ORGANICITY, RAWFIE, WISHFUL. The FIRE Brochure describing the all the FIRE projects has been updated and will be published in coming weeks. Several funding opportunities will be also available. The FORGE project is planning to release an Open Call in March 2015 to extend the use of the project's methodologies and tools to external learners, educators and researchers. Two additional Open Calls for SME experimenters can be also expected in the upcoming period from the Fed4FIRE project. Finally, EVARILOS consortium is pleased to announce a continuous opportunity or evaluating RF - based indoor localisation algorithms and solutions.

More FIRE news at: http://www.ict-fire.eu/news.html.

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## FIWARE

The Phase 3 of FIWARE open initiative aiming to create a sustainable ecosystem to grasp the opportunities that will emerge with the new wave of digitalization caused by the integration of recent Internet technologies is now getting momentum.

The first wave of **FIWARE Open Calls of** FIWARE accelerator programme has been summarized in an infographic prepared by FI-Impact showing how the selected teams and how the efforts of the accelerators will spread all throughout Europe. In January, 2,431 projects were received, with Spain (23.6 %), Germany (10%) and Italy (9,3 %) being the most active countries. The upcoming Net Futures 2015 conference is an important milestone on the FIWARE roadmap, where all the SMEs and startups will meet. A total € 75,000 to be awarded to SMEs, web-entrepreneurs and start-ups that use FIWARE technologies is planned in the scope of the Net Futures 2015 FIWARE Challenge. http:/www.fiware.org/event/net-futures-2015-fiware-challenge-2/.

FIWARE will be also present at CeBit 2015, where it will announce its global bet to develop Smart Cities (http://www.fiware.org/news/fiware-will-announce-in-cebit-its-proposal-to-develop-smart-cities-globally/) and publish the great results of the Accelerator Programme's first open call.

Finally, FIWARE Ops has produced a number of information sharing and training You Tube videos explaining the benefits of using the FIWARE Labs. For example, one has been produced explaining the benefits of using FIWARE Labs specifically for start-up companies.  These videos can be found at https://www.fi-xifi.eu/news/eventview/article/fiware-ops-showcase-videos.html.

In addition, there is an FIWARE Ops Training Portal focused specifically on education and training facilities available at http://edu.fiware.org/course/category.php?id=10.

To learn more about recent FIWARE news, please visit: http://www.fiware.org/news/.

## 5G-PPP

The 5G Infrastructure Public Private Partnership (5G-PPP) initiative is focused mainly on infrastructure and with a real strategic dimension given the fact that it covers the aspects of both research and policy. It is a program with € 700M for funding R&D&I and where most part of the funding come from the private sector.

The 5G-PPP initiative was foreseen in four phases:

- the 'ignition' phase (2012 - December 2013) was based on European projects 5G;
- 'Phase I' (2014-2015) is focused on the research and construction of a common vision for technology;
- 'Phase II' (2016-2017) aims to reach systems optimization and the beginning of the preparation stage for standards definition;
- and 'Phase III' (2017-2018) focusing on large scale trials, where a wide range of tests and full standards definition will be achieved.

This initiative is currently in 'Phase I' moving towards 'Phase II' having already launched one call (ended on 25 November, 2014).

In regard to the role of Member States and Associated Countries (MS/ACs) in relation to the 5G-PPP, there is a need for MS/ACs to develop initiatives aiming the awareness raising and discussions on this topic. The ceFIMS-CONNECT project could assist in this activity by creating a coordination stream in MS/ACs synergies on 5G via their repository database, where the MS/ACs can upload their information. The milestones establishment for vision discussions and initiatives on 5G-PPP is expected to be in the middle of 2015. These actions will contribute to a common vision on 5G as well as to improve and take every possible advantage of the 5G-PPP programme and provide all possible information to be used in its 'Phase II' and 'Phase III'.

The 5G-PPP will have a very active participation across a number of activities at the upcoming Mobile World Congress 2015 in Barcelona, during 2-5th March, 2015, including the delivery of a '5G' White Paper. For details on the 5G-PPP activities at the Congress, please visit http://5g-ppp.eu/5g-ppp-mwc/. Additional discussions can also be found on Twitter at @5GPPP and use #5GPPPMWC!

Also in relation to EU's big push on 5G, through a community focused approach, the Research*eu magazine seeks to broaden understanding on the EU's initiatives and research investments in 5G as well as showcasing related work of internet researchers, innovators and entrepreneurs. More information can be found at https://ec.europa.eu/digital-agenda/en/news/why-eu-betting-big-5g-researcheu-focus-magazine.

In November 2014, 5-Alive support action project was launched under the the Horizon 2020 Programme. Its objective is to build up momentum within and beyond the European networking community and related application areas for driving the 2020 infrastructure evolution towards holistic 5G networks.  5-Alive, coordinated by Eurescom and involving other partners involved in the 5G Infrastructure Association, is supporting a number of activities in relation with network technologies, in particular, with respect to the NetWorld2020 ETP and the 5G-PPP.

Finally, in the first **5G Monitor,** Alicia Jiménez González provides a short description of the ICIRRUS project funded under objective H2020-ICT-2014-1, whose central aim is to examine the advantages and challenges of bringing an Ethernet-based optical fibre fronthaul to fifth-generation (5G) mobile networks, considering the benefits of such an architecture and its effects on performance on key 5G service aims such as device-to-device (D2D) communications and mobile cloud networking. Read more about the project in the first 5G Monitor.

## NEM – NETWORLD2020 WORKING GROUP

Two of the official EU Technology Platforms (ETP) for Horizon 2020, NEM and Networld2020, have joined forces together to form a joint Working Group to better understand the terms of reference of each other

in order to setup consistent common goals and synergies in relation towards their research agendas. Working group members will work together on identifying the taxonomies, requirements and skill sets of the stakeholders in both of the platforms together in order to better understand each other and enabling more fruitful synergies. More …

# UPCOMING EVENTS

A number of Future Internet related events are being held in the coming weeks:

**GREEN BUSINESS WEEK – NATIONAL WEEK FOR GREEN GROWTH**

The Green Business Week – National Week for Green Growth, to be held in Lisbon, from 3 to 5 March in CCL – Lisboa Congress Centre, with the support of MAOTE - Environmental Ministry, Territory Planning and Energy and several partners, is a booster event of economic growth, skilled and sustainable employment, science and research, technology, innovation and entrepreneurship, leveraged by the growth in the world of the Green Economy.

**FUTURE INTERNET OPPORTUNITIES FOR INNOVATIVE EUROPEAN BUSINESSES**

The workshop will be held on 9 March 2015, London, UK, with the aim to give the opportunity to innovative SME ICT Businesses and Startups to discover and understand how the Future Internet Research and Experimentation (FIRE) can help boosting their innovation efforts and reduce time to market. The workshop will be held on 9 March 2015, London, UK.

More FIRE events at: http://www.ict-fire.eu/events.html

**CEBIT**

CeBIT (16 - 20 March 2015) covers all the relevant issues in IT business. d!conomy, the keynote theme at CeBIT 2015, symbolizes the rapid expansion of information technology into all areas of the economy and society. It will focus on global market trends such as Internet of Things, Mobile, Social, Big Data, Cloud and Security.

**NET FUTURES 2015**

The Net Futures conference replaces the Future Internet Assembly (FIA) as we knew it for 11 years. It will take place in Brussels on 25-26 March 2015. The event will be structured around three pillars that represent stages in the life-cycle of an idea: research and innovation, technological validation, and final delivery to market. **Note for FIF members only: The next FIF meeting is being held during Net Futures 2015.**

Also, the FIRE Community Workshop and 2nd CI-FIRE Industry Workshop will be co-located with this event and will take place on 24 March 2015, Brussels, Belgium.

See more FIWARE events at: http://www.fiware.org/events/.

**EUROPEAN CONFERENCE ON NETWORKS AND COMMUNICATIONS**

EuCNC'2015 (29 Jun – 2 Jul) is the 24th edition of a successful series of a technical and scientific conference open to the world research community in the area of Telecommunications, communication networks and systems, and reaching services and applications. This year's conference motto is "**5G, Shaping the Vision**".

## AFIN 2015 - ADVANCES IN FUTURE INTERNET

The Seventh International Conference on Advances in Future Internet will be hosted on August 23 - 28, 2015 in Venice, Italy.

*More information on Future Internet related events at http://www.cefims.eu/events/*

*If you would like to add events to the ceFIMS-CONNECT portal, please email to the contacts below.*

**ceFIMS-CONNECT contacts:**

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**ceFIMS-CONNECT web portal:  http://www.cefims.eu/**

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**ceFIMS-CONNECT @ Twitter:  https://twitter.com/ceFIMS**