SEVENTH FRAMEWORK PROGRAMME

Coordination of the European Future Internet Forum of Member States

D5.5(e) – Future Internet Award 2013

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1. Introduction

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 awarded every six months (in line with the FIA) to the initiative that is adjudged to have the greatest potential to advance the Future Internet and which provides an exemplar for innovate products/services.

Member States and individual projects were invited to submit entries by means of an on-line entry application form (Announcement attached in Appendix A)

This report gives details on the 2013 running of the Award

2. Judging Process

Entries were adjudicated on the basis of the following criteria:

- Implementations in place
- Involvement and contacts with industry & SMEs
- Innovate use of technologies
- Inclusion of local entities, citizens, communities
- Universal usability and access
- Contribution towards reducing the Digital Divide
- Societal impacts
- Environmentally friendly
- Excellence in themed areas and/or cross-domain
- Cross-regional and/or cross-national

2.1. Judging Panel

An independent Judging Panel scored the entries in a two-round process. The members of the Judging Panel were:

- Mr. **Joan Batlle i Montserrat**, Barcelona City Council, Municipal Institute of Information Technology
- Mr. **Marnix Botte**, Alcatel-Lucent Bell Labs Benelux
- Mr. **Martin Przewloka**, Head of Future Applications & Services Practice, SAP
- Mr. **Robert Szabo**, Budapest University of Technology and Economics
- Mr.**Adam Grzech**, Faculty of Informatics and Management, Wroclaw University of Technology

The judges were asked to judge each entry using a scoring card which was provided by the ceFIMS Secretariat (Appendix B)

3. Entries

22 entries were received as follows:

1. MEVICO/CELTIC – Customer Edge Switching
2. Collaborative Society
3. SRT-15
4. Nobel. Neighbourhood Oriented Brokerage Electricity and monitoring system
5. Reservoir – Resources and Services Virtualization without Barriers
6. Creative World
7. Swiss IPv6 Council
8. GEN6
9. eCOUSIN
10. NetworkMonitor: Mobile and Desktop Solution for Network Monitoring
11. MEDIEVAL (MultimEDia transport for mobIlE Video AppLications)
12. Drungli
13. ANIKETOS-ENSURING TRUSTWORTHINESS AND SECURITY IN SERVICE COMPOSITION
14. SPARC

15. Coollab
16. UNIVERSELF
17. Playnify
18. Pervasive Tourism
19. Publish-Subscribe Internet Technology (PURSUIT)
20. uTRUSTit – Usable Trust in the Internet of Things
21. Inclusive Future-Internet Web Services – i2web
22. MOBILE CLOUD NETWORKING (MCN)

4. The Winner

The winner of the Award was **Publish-Subscribe Internet Technology (PURSUIT)**

Starting from the premise that information exchange is at the heart of today's and the future Internet, the PURSUIT STREP has defined, implemented, and validated a publish/subscribe-based internetworking architecture that ultimately replaces the current IP-based architecture with the objectives to (i) expose information as a first class citizen, (ii) build security and privacy of information into the foundations of the architecture and (iii) better support a wide range of networking environments from wireless over DTN-like to all-optical high-performance networks. This will lead to the establishment of new business models, the more efficient operation of transport networks and the simplification of development cycles by providing application developers with an information-centric abstraction at a very low level of the architecture, while allowing for backward compatibility through an efficient socket emulation approach. Although disruptive in its ambition, PURSUIT also provides insight into migration strategies for deploying the new architecture over existing IP-based infrastructures, the socio-economic impacts for existing market players as well as the opportunities for future ones. PURSUIT has demonstrated many of these objectives and benefits in an international test bed as well as in unparalleled high-speed deployments at GBit/s speed, together with a range of demonstration applications that showcase the opportunities to come.

Project's Outputs and Results include:

Architectural definition of a secure, scalable Information-Centric Future Internet based on the publish/subscribe paradigm, natively supporting content distribution and fetching from multiple sources, as well as via multiple paths (incl. multi-homing), thus enhancing content distribution performance and reliability and transparently exploiting both on-path and off-path caching (either opportunistic or planed replication), via disentangling content location from content identification, which also effectively supports mobility.

Open-source implementation of the architecture, supporting all major desktop systems, the mobile Android OS, and the ns-3 environment for large-scale evaluation and validation of the design and its scalability through simulation, socio-economics, and deployment in an international (10 site) test bed with 45 network nodes.

Performance and scalability results demonstrating, e.g., that PURSUIT'S DHT-based name resolution service, hPastry, scales better than hierarchical solutions, offers 47% to 55% less stretch and 36% to 56% fewer policy violations compared to other designs, its iBF multicast reduces the number of stateful nodes by 99,6% (compared to IP multicast for a 2000 nodes multicast group) and its access control delegation mechanism includes zero user intervention (which is the root of numerous attacks to existing OAuth-based solutions).

Project impacts include:

In addition to specific designs, prototypes, and performance and scalability results, PURSUIT's impact on the international research and academic scene has been felt through significant publications, but also through contributions to defining Information-Centric Networking (ICN) as a research area, the establishment of the ICN workshop series at ACM SIGCOMM (in collaboration with other EU & US researchers, to be spun into an independent ACM conference), contributions to the ICNRG @ IERTF, multiple model ICN academic courses etc.

PURSUIT's story-delivery network case study in the area of personalised media delivery was developed with an SME, CTVC, and could be spun for simplifying such cases for smaller companies. In part as an outcome of PURSUIT's ICN work, an SME was launched, TecVis LP, a UK-based partnership with goal to commercialise solutions in the space of information-centric architectures and solutions, specifically around lifestyle management. At the moment, TecVis has two applications live in the Google Playstore. AIRS (https://play.google.com/store/apps/details?id=com.airs) allows for recording various aspects of one's daily life. The second application, Storica (https://play.google.com/store/apps/details?id=com.storica) processes and visualises the recording on one's mobile device with engaging multimedia stories, fly-over maps and context-enriched media galleries

PURSUIT according to the judging panel, was an information-centric networking, publish-subscribe architecture, clean slate design for the Future Internet. The project according to the judges has demonstrated very impressive results with measurable impact and has already resulted in real commercial deployment and exploitation. Further details on the project at http://www.fp7-pursuit.eu/PursuitWeb/

5. Award at FIA, Dublin

The Award was presented during the closing ceremony of the FIA in Dublin, Ireland on 10th May. The Award ceremony was introduced by Mr. Mario Campolargo and the Award presented to **Dr. Dmitrij Lagutin of Aalto University / HIIT** representing PURSUIT by a representative of the Judging Panel, Mr. **Robert Szabo** from the Budapest University of Technology and Economics. Photographs taken during the Award presentation are included in Appendix D.

Appendix A. Award Announcement

The Call for the Fifth Future Internet Award is Now Open!

Applications are now being accepted for the fifth FI Award. The details of the Award are given below. The winner will be announced at the end of the Future Internet Assembly to be held in Dublin in May 8-10

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 2013*** and the location where the presentation was made.

More information and link to application form at: http://www.fi-dublin.eu/fi-award/

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The Future Internet Award will recognise in the 10th FIA conference excellence in Innovation translating research to economic impact, i.e., real exploitation, including from start-ups, building upon results from Future Internet projects that deliver systems or solutions that are commercially used/deployed.

The winning entry will be announced at the closing ceremony of the Future Internet Assembly Dublin, May 10. **This ceremony is attended by renowned industry and academic experts, high-level members of the European Commission, and members of the local and international press.**

Travel and related costs to attend the ceremony will be at the charge of the winning entry representatives.

CLOSING DATE IS 1st April, 2013

Appendix B. Scoring Card

Future Internet Award

Scoring Card

Judges are asked to score applications under three main categories: **Scientific & Technological excellence; Impact; Overall**. These categories reflect the published criterion for the Award. Each criterion is scored to a maximum of 5.0, according to the scale shown below. *Note that half-point (0.5) scores may be given.*

Score	Comment	Explanation
0	*Very poor*	Fails to address criterion
1	*Poor*	Criterion addressed weakly
2	*Fair*	Addresses criterion, but there are significant weakness
3	*Good*	Addresses criterion, but improvements are necessary
4	*Very good*	Criterion addressed very well, but improvements still possible
5	*Excellent*	Addresses all criterion – any shortcomings are minor

Please return completed Scoring Card to:

bfoley@tssg.org

PROJECT NAME

Acronym	

EVALUATION

1. SCIENTIFIC & TECHNOLOGICAL EXCELLENCE Consider the following: (A) What is the project doing and is this work innovative? (B) Is the issue which the project addresses relevant? (C) Is it a regional, national or EU-wide issue? i.e. is the project transnational and/or scalable?	**Mark** **(max. 5.0)**
Comments:	

2. IMPACT Consider the following: (A) What are the results (new knowledge, standards, new/improved products/services, etc.) and do they match to the project summary? (B) Are there pilot implementations in place (if applicable)? (C) Are there direct social benefits arising from the project? (e.g. reduce Digital Divide, etc.) (D) Has the project translated research to economic impact i.e. real exploitation?	**Mark** **(max. 5.0)**
Comments:	

3. OVERALL Consider the following: (A) Are the project and its results described in concrete, specific terms? (B) Is there an industry/SME connection? Has there been commercial deployment? (C) Has the project clearly identified who will benefit from its results?	**Mark** **(max. 5.0)**
Comments:	

4. ADDITIONAL REMARKS	**CUMULATIVE SCORE** *(Sum total from above)*
Overall Comments:	

Appendix C. Photographs from Award Ceremony

Photograph 1: The Future Internet Award (alongside other Awards at the closing ceremony)

Photograph 2: (l-r) Kevin Doolin CEO, (TSSG), Dmitrij Lagutin (PURSUIT), Martin Reed (PURSUIT), Mario Campolargo (European Commission) Robert Szabo (Award Judging Panel) and Kevin Quinn (ceFIMS)

Photograph 3: (l-r) Kevin Doolin CEO, (TSSG), Martin Reed (PURSUIT) and Dmitrij Lagutin (PURSUIT)