Content

Additional Annex 1: D.A.R. - Connected Smart Cities Conference 2018

Project Acronym: **VICINITY**

Project Full Title: **Open virtual neighbourhood network to connect intelligent buildings and smart objects**

Grant Agreement: **688467**

Project Duration: **48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at
"Connected Smart Cities Conference 2018"
organised by OASC
on 11 January 2018, in Brussels, Belgium

Author(s): **CAL, ENERC, UPM**

Distribution: **All**

Date: **16 April 2018 (M28)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	Connected Smart Cities Conference 2018			
Date	11 January 2018 (M25)			
Place	Brussels, Belgium			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
	X	Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site	X	Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry		Investors
	X	Civil Society	X	Customers
		General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	CAL, ENERC, UPM			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

The Connected Smart Cities Conference organised by OASC (Open and Agile Smart Cities) has become a must-do annual event for anyone involved in Smart Cities enabled by IoT.

This year there were sessions on:

- Ecosystem Innovation: Joining Excellence and Capacity Building,
- IoT-Enabled Smart Cities Market Creation: Policy Issues and Open Calls,
- Energy: Interoperable Smart Homes and Grids,
- Platforms for IoT and Smart Cities & Communities: Towards Next Generation Internet,
- Data Protection: Securing Privacy while Enabling Innovation,
- Smart Mobility,
- Natural Resources: Digital Water and Beyond,
- Global Standards for IoT and Smart Cities & Communities.

Description of the participation

Keith Dickerson (CAL) organised and chaired the session on Energy: Interoperable Smart Homes and Grids:

- Keith Dickerson (ex-ETSI Board and ITU-T SG5 Vice Chair) provided the background and motivation for Smart Energy.
- Rolf Riemenschneider (DG CONNECT IoT Unit) presented the EU Vision for Smart Energy and the interoperability requirements.
- Natalie Samovich (ENERCOUTIM and VICINITY) presented on IoT as an enabler for the Energy Market.
- Nikolaos Kontinakis (EUROCITIES and a member of the H2020 ESPRESSO project) presented on the EUROCITIES partners/projects in the Smart Energy area.

Maria Poveda (UPM) also presented on Standards for Semantic Interoperability in the session on Global Standards for IoT and Smart Cities & Communities.

VICINITY was therefore mentioned in 3 different presentations at the conference.

Audience Reached

Over 150 people registered for the conference. The event was attended by a wide range of representatives from the IoT community including the standardization, industrial, and research communities and several vendors of IoT devices/gateways.

Feedback

Key Issues from the **Smart Energy** session:

1. The need to integrate a greater proportion of renewables into the power grid, especially renewable energy from distributed microgeneration from homes and businesses in Smart Cities.

2. The need to implement and deploy real consumer-driven demand-response mechanisms. There have been pilots but no wide-scale deployment ...and there is unlikely to be any due to the lack of end-to-end interoperability between the smart appliances and the power generators via the 'smart meter'. There is also doubt over who would benefit most from demand-response, probably not the consumer ;-(

3. The lack of flexibility for smaller players to enter the energy market. It's difficult for them (at least in many countries in Europe) to compete on a level playing field with the larger players and bring new innovative packages to market in the same way that Ecotricity, Good Energy and Ovo Energy have done in the UK. Clear regulatory instruments are needed to allow this.

VICINITY will help to enable all of these.

Privacy (GDPR): Silke Obst, Member of the Cabinet of Commissioner Bulc asked the question "How can we prevent the GDPR stifling innovation"? We don't want to prevent new players from using open data.

Some interesting quotes from the workshop:

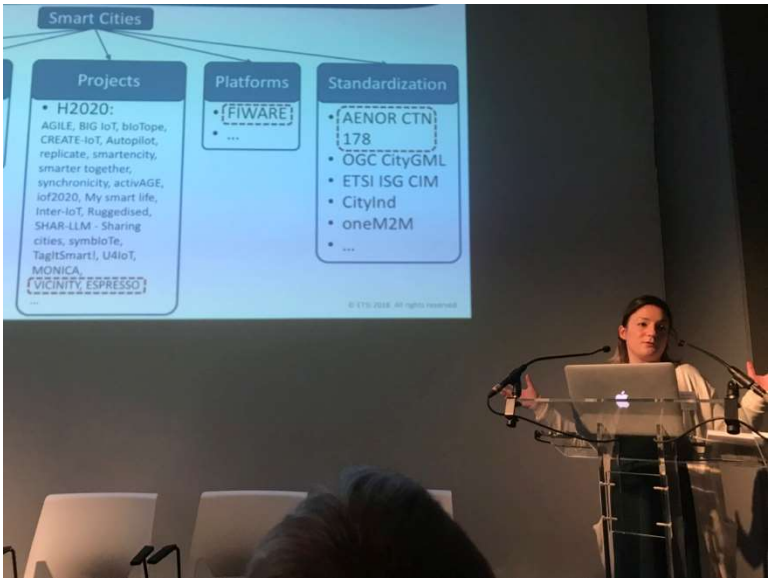
"Cities will be the drivers of the digital transformation".

Photos

Keith Dickerson presenting in the Energy session:

Natalie Samovich presenting in the Energy session:

Maria Poveda presenting in the session on Global Standards for IoT and Smart Cities & Communities:



Keith Dickerson presenting the results of the Energy session to the conference plenary (https://www.youtube.com/watch?v=x3xD1eDfBNE&feature=youtu.be&t=1198):

Useful Links

Workshop web page (including program and presentation slides):

http://oascities.org/connected-smart-cities-conference-2018-programme/

Video of the event:

https://youtu.be/DyrR4CBEdQQ

Additional Annex 2: D.A.R. - Regional Energy Strategy - Algarve 2030

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at
"Regional Energy Strategy - Algarve 2030"
organised by Energy Group of CIRA (Algarve Regional Innovation Council) on 30 January 2018, in AHETA Auditorium, Quinta da Bolota Lote 4A – Albufeira, Algarve, Portugal

Author(s):	**ENERC**
Distribution:	**All**
Date:	**09 February2018 (M26)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	2nd Vicinity Workshop – The Roadmap to Installation			
Date	29 November 2018 (M26)			
Place	Albufeira, Algarve, Portugal			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
	X	Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
	X	Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
		Industry		Investors
		Civil Society		Customers
		General Public		Other
		Policy makers		
Countries addressed	National (Portugal)			
Partners	ENERC			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

the scope of this event was to present the work developed by the Enercoutim in the VICINITY Project relating to the Use Cases and the VAS to the stakholdres.

Description of the participation

Enercoutim present to the stakeholder the evolution of the work which have been done for the Vicinity Platform and to explain how it works to have a feed back from the stakeholder envolved

Audience Reached

This event was open just for the managers responsible and technical responsible for the buildings where we are implemented our pilots.

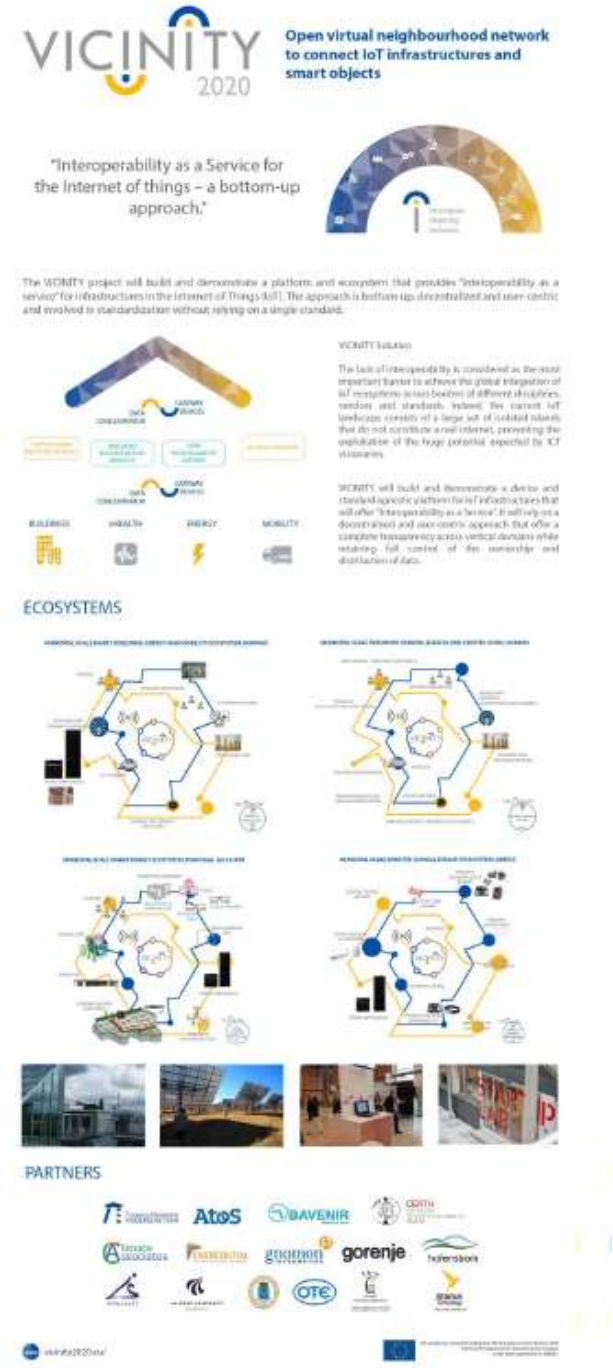
The number of attendees was 8 people which represented 4 different institutions.

Feedback

The workshop went well on institutional and application topics. was demonstrated the application as a prototype highlighting it's usability for monitoring and basic analytics and noted that we still have pending calibration issues. Also some questions raised security concerns on overall VICINITY.

The result of this workshop was very helpfully for us and also for the stakeholders had a better idea of what is the VICINITY project and how it could give them VAS in the futures.

Photos



Useful Links

https://www.portugal2020.pt/Portal2020/algarve-2030-estrategia-regional-de-energia-apresentada-em-albufeira

http://www.jornaldemonchique.pt/algarve-2030-estrategia-regional-de-energia-apresentado-em-albufeira/

http://www.sulinformacao.pt/2018/01/boas-praticas-energeticas-na-hotelaria-sao-apresentadas-em-albufeira/

https://regiao-sul.pt/2018/01/29/ambiente/boas-praticas-energeticas-na-hotelaria/426614

Additional Annex 3: D.A.R. - IoT EPI London

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"IoT EPI London"
organised by IoTEPI
on 5,6 February, in London, UK

Author(s):	**ATOS,UPM,CAL, ENERC, HITS**
Distribution:	**All**
Date:	**04 May 2018 (M29)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	IoT EPI Meeting			
Date	5,6 February 2018 (M26)			
Place	London, United Kingdom			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
	X	Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
		Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	ATOS,UPM,ENERC, CAL , HITS			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

The IoT EPI joint meeting brought together all IoT-EPI projects over a period of 2 days and sparked lively discussions on the way forward.

Description of the participation

Five VICINITY partners (ATOS, CAL, ENERC, HITS and UPM) participated in the final meeting of IoT-EPI hosted by Digital Catapult in London..

Audience Reached

70 people

Feedback

Key Issues:

Business Models and Internationalization Task Force:

At the core of innovation and business model creation lies a method of Value co-creation with its ramifications for stakeholder engagement in an ecosystem approach towards technology advancement. This approach was introduced by Digital Catapult and underwent adaptation and refinement over the past two years. The pros and cons of four models from IoT-EPI projects (VICINITY, BIG IoT, Biotope, Tagit smart and Inter IoT) were discussed. These were Freemium, Multisided market, Whatever as a Service and Reciprocity (a rebranded barter model). Posts on social media related to this discussion generated high level of engagement, indicating the relevance and interest in the topic. Some commonalities were identified among all of the models and there were no “winners or losers”, and the list of pros and cons was equally long for all four, although some are more convenient for a particular project than others.

The Internationalisation Task Force workshop focused on a lively discussion of IoT developments across the world and ongoing efforts with the joint research projects of EU in Japan and Brazil. These will result in the extension of internationalisation to other continents, more collaborations and working on additional joint efforts. The group identified gaps and proposed the creation of a spin off initiative to create test beds and closer collaboration with existing initiatives. The results of a survey to assess the maturity of value co-creation strategies within the IoT-EPI community were discussed. Value co-creation mechanisms have been evaluated from two points of view: technological (open data license, open source license, where the project source code is stored, etc.), and nontechnological (use of MOOC platforms, liaisons with educational/research bodies, external access to the platform, etc.). These were assessed for each project and the results will be shown in the value co-creation final deliverable. Significant knowledge and experience of Open Calls has now been accumulated by the IoT-EPI community. This is valuable for VICINITY and we will be leveraging this and we will incorporate lessons learnt into the organization and evaluation processes on our upcoming open calls.

Interoperability Task Force:

The Interoperability Task Force met for 2 hours on the final day under the chairmanship of Ovidiu Vermesan who is preparing a white paper on 'IoT Platforms Interoperability Approaches' which collects the interoperability approaches of all the IoT-EPI projects. A number of architecturally-different IoT platforms are being used in the different projects (e.g., Link Smart, Site Where, IoTivity, Gorenje, dSPACE, KURA and TinyMesh) and the whitepaper identifies how the different projects tackle the problem of semantic interoperability. Raúl García-Castro, Assistant Professor of Computer Science at Universidad Politécnica de Madrid (UPM), explained the VICINITY architecture and how it achieves semantic interoperability. Cross-domain interoperability in VICINITY relies on: • The VICINITY ontology as the common and abstract information model to be used, and which can be extended by VICINITY nodes; • The Semantic agent platform as the semantic repository. The W3C Web of Things Thing Description (TD) is the framework to be used for describing any IoT object integrated in VICINITY; • Gateway Adapter APIs that are 'semantic mediators' between the actual consumers, e.g., Adapters, and the repository of Thing Descriptions (TDs). These provide an interface for discovery requests and must also be able to specify discovery needs as semantic-based search criteria (SPARQL query). At the end of the meeting, every delegate was given the chance to speak about their impressions of the work. David Faulkner of CAL said that the white paper does not appear to be converging on a single interoperability scheme which is not good for the IoT industry which will be dependent on heavy investment in sensor layer networks by municipalities and other infrastructure providers who typically need a lifetime of 25 years to justify the investment. He cited a problem the UK is having with smart electricity meter deployment to homes and businesses. The government is keen to promote the switching of energy supplier to increase competition and prevent 'supplier lock-in'. However, the meters have not been standardised to allow portability between suppliers which can lead to the situation where a meter installed by supplier A will need to be replaced by a different meter if the consumer changes to supplier B. This raises costs for consumers as the suppliers need to recover around 250 Euros each time a meter is installed or replaced. In his summing up, Ovidiu said that this Task Force is likely to merge with the EU Large Scale Pilots in the future.

Education Task Force

The Open Education Platform (OEP) proposes a comprehensive, coherent and standardized education offer on IoT. The user can provide or take a course, recommend a book, look for an event and much more. Furthermore, it is possible to use the search engine for exploring OEP database or browse among resource categories to sort contents. Once you have found what you are looking for, you can rate the resource and leave a comment. If you cannot find what you are looking for, you can ask for help on the OEP Marketplace. If you have a specific issue you want to share, you can launch an OEP Challenge and let the OEP community find the right solution with you. If you searched the platform but did not find the lesson you were looking for or you see any essential IoT-related topics which are not addressed, please let OEP know and they will identify the organisations, teachers and trainers who could provide you with adapted resources. If you are an entrepreneur exploring new areas and willing to improve your proof of concept, or if you developed a solution and want to assess its field of applications, you can put your innovation between the hands of the IoT community and reinforce its value through co-creation.

Links

https://education.open-platforms.eu

https://iot-epi.eu/

Additional Annex 4: D.A.R. - ETSI ISG CDP (City Digital Profile)

Project Acronym: **VICINITY**

Project Full Title: **Open virtual neighbourhood network to connect intelligent buildings and smart objects**

Grant Agreement: **688467**

Project Duration: **48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"ETSI ISG CDP (City Digital Profile)"
organised by ETSI
on 5-6 February 2018, in Greenwich, UK

Author(s): **CAL**
Distribution: **All**
Date: **16 April 2018 (M28)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	ETSI ISG CDP (City Digital Profile)			
Date	5-6 February 2018 (M26)			
Place	Greenwich, UK			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release	X	Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
		Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	CAL			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

This was the 2nd meeting on ETSI Industry Specification Group on City Digital Profile. ISG CDP was set up to provide tools to take smart city technologies that have been

successful in one city and replicate them in other cities, taking into account differences in city size, population, culture, etc.

The first deliverable being produced by ISG CDP is a White Paper entitled "The 4th Industrial Revolution and the Municipal CEO". This shows how to transform city solutions from vertical single purpose silos into horizontal service layers that enable interoperability between applications. Smart Energy will be one of the key focuses of this paper.

Description of the participation

Keith Dickerson (CAL) with the assistance of Natalie Samovich (ENERC) presented "Smart Energy as a Core Service for Cities" based on VICINITY ideas on Smart Energy enabled by IoT.

Audience Reached

15 people were registered for the meeting including Future Cities Catapult (UK).

Feedback

Key Issues from Smart Energy presentation:

- Will Smart Grids and Smart Buildings be interoperable?
- Are Smart Energy devices interoperable between suppliers?
- How to deploy demand-response mechanisms effectively.
- What standards exist and are needed?
- How to involve consumers in Smart Energy solutions.
- How to combine (e.g. EV charging and parking) in the value chain when there are different stakeholders?
- Do regulatory barriers exist and how could these be addressed?
- How to integrate more renewables into the grid?
- How to enable small players to compete in Energy supply?

Some quotes from the meeting:

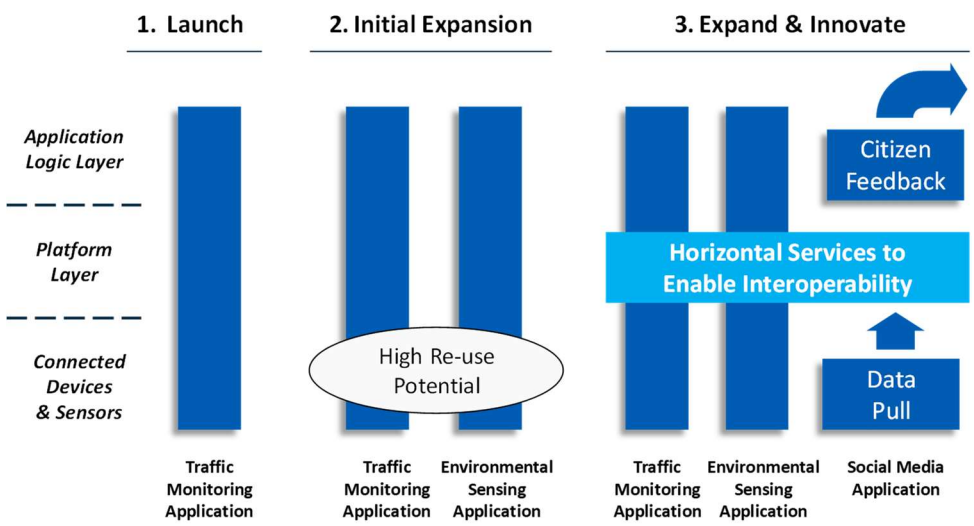
"Now is the time for city leaders and structural investors around the world to embrace a new wave of infrastructure – the municipal 4th Industrial Revolution - and deliver smarter, cheaper, citizen-focused, services with a solid return on investment".

"If we get the horizontal thinking right, we can avoid next generation silos and pull through fully interoperable, standards-based, replicable, scalable solutions".

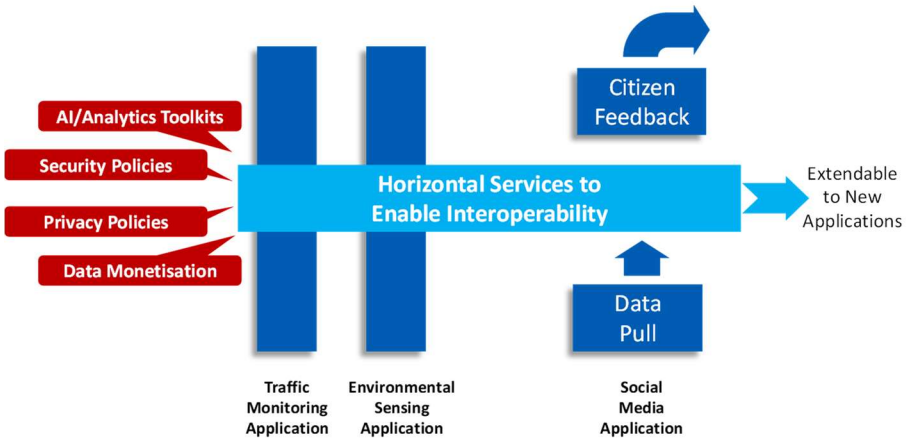
"Think horizontal' to minimize orphan investments".

Figures

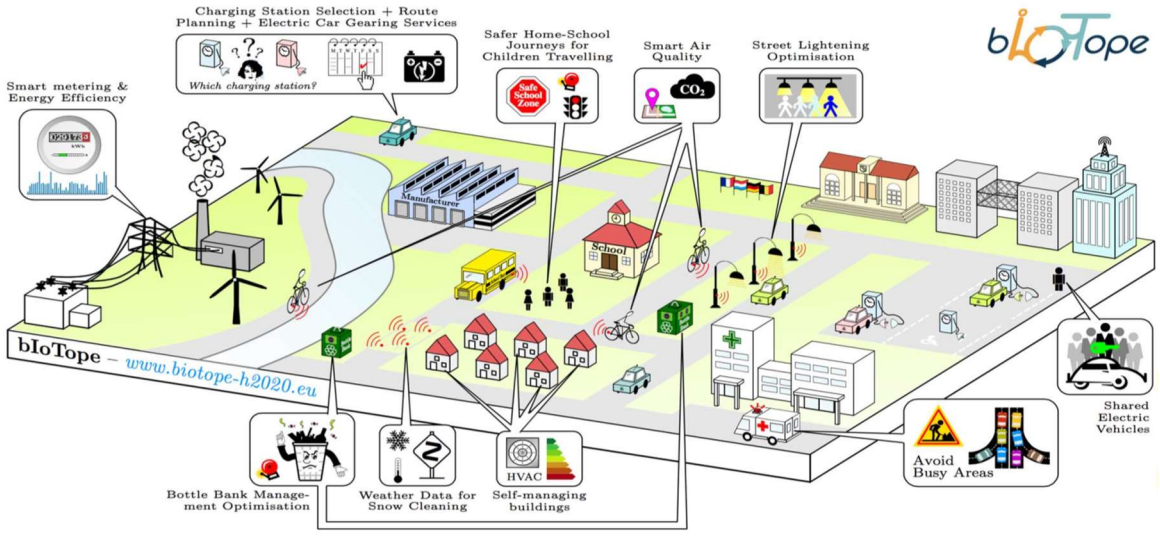
Phased evolution of Smart City initiatives:



Adding Common Services via a Horizontal Platform:



Smart City cross-domain pilots (from BIoTope):



Useful Links

ISG CDP Open Area: http://docbox.etsi.org/ISG/CDP/Open/

List of ISG CDP Members:
https://portal.etsi.org/TBSiteMap/CDP/ListofCDPMembers.aspx

Klaus Schwab, World Economic Forum:

https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond

Additional Annex 5: D.A.R. - ABC for Smart cities

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

VICINITY presentation at
ABC for Smart cities / Fablab Lyngen
Organised by Troms county / Arctic Alps
on February 14/15, Tromsø, (NO)

Author:	HITS
Distribution:	All
Date:	June 24, 2018 (M30)
File Name:	**VICINITY_dissemination_report_Tromso2018.pdf**

Event details

Key figures				
Name of event	ABC for Smart Cities & Fablab Lyngen			
Date	14 to 15 February, 2018			
Place	NTNU, Gjøvik, NO			
Type of Activity [1]		Organisation of a conference – paper reviews, poster presentation		Participation to a conference
	X	Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training	X	Pitch event
		Social media		Trade fair
		Web-site https://www.forskningsradet.no/no/Arrangement/Tromso_ABC_for_Smarte_byer_og_regioner__hvordan_skal_vi_gjore_det/1254032569755		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience[2]	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
	X	Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	Norway, Sweden, Finland			
Partners	HITS, Research Council Norway, Innovation Norway			

Table 1: key figures

[1] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

[2] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the event

Tromsø: ABC for Smart Cities and Regions - How should we do it?
Place: LINKEN, SIVA Innovation Center, Tromsø, Norway
started: 15.02.2018 10:30 CET
Finishes: 15.02.2018 16:30 CET
A practical workshop to help to know the Smart Cities concept and how to get started with an innovation project in the public sector.
The workshop is organized in a collaboration between Troms county municipality and Norway's Research Council. committed to developing our cities / regions to become even more modern, green and urban-friendly - you are in the target audience for this workshop.
The main objective of the workshop is to bring you some steps closer to an innovation project in the public sector.
We focus on Smart Cities thinking in an EU context. We will inform and inspire, but we will also spend time working on real issues that may be the basis for an application. We will find examples from current fields: Energy, ICT, Transport and Infrastructure. We will bring together researchers and the public sector to define and solve key challenges for the region.
We will guide you through the possibilities contained in various programs and funding schemes for projects.
A smaller event was held in neighbouring municipality Lyngen the day before focusing on VICINITY and the expected Open Call to be announced in March 2018.

Description of the participation

Target audience: If you work in the public sector or in a R & D environment and are interested in project developments. Participants from Universities, county and city administrations, industry, investors and funding schemes.

Audience reached

The workshop reached all relevant stakeholders in Troms county and the two cities Tromsø and Harstad. Opening speech with County leader Willy Ørnebakk, Troms fylkeskommune. Program and framework with Elisabeth Blix Bakkelund, Research Council and Julia Seljeseth, Troms fylkeskommune. Step by step how do we start and where are we now by Coordinator Gerd Seehuus, Horizon 2020 Smart City project Triangulum Stavanger. Project examples within Transport, infrastructures, Energy and ICT. In this section VICINITY presented by Truls Staer, Tromsø Health service and Asbjørn Hovstø, HITS. After lunch Research Council organised how to develop ideas into project proposals. Funding mechanisms; New possibilities in EU and Horizon 2020 by NCP Public Sector Idun Lyngstad, Research Council; National possibilities by program coordinator Janike Harsheim, Research Council. Regional possibilities by secretariat leader Steffen Ahlquist and programkoordinator Ian Jawahir. All participants were divided into 6 groups to develop their ideas using astructured template.

Feedback

Participants reported their interests in a response form after the workshop.

Key figures

30 persons joined the all-day workshop.

Useful links

https://www.forskningsradet.no/no/Arrangement/Tromso_ABC_for_Smarte_byer_og_regioner__hvordan_skal_vi_gjore_det/1254032569755

Additional Annex 6: D.A.R. - 1st ITU Workshop on Data Processing and Management for IoT and Smart Cities & Communities

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at the
"1st ITU Workshop on Data Processing and Management for IoT and Smart Cities & Communities"
19 February 2018, Brussels, Belgium

Author(s):	Dave Faulkner **(CAL)**, María Poveda **(UPM)**, Keith Dickerson **(CAL)**, (Reviewed)
Distribution:	**All**
Date:	**30 March 2018**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Events	"1st ITU Workshop on Data Processing and Management for IoT and Smart Cities & Communities"			
Date	19 February 2018 (M26)			
Place	Avenue de Beaulieu 25, 1160 Auderghem, Brussels, Belgium			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
	X	Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	All			
Partners	CAL			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Summary/Headlines

The 1st ITU Workshop on Data Processing and Management for IoT and Smart Cities & Communities" was co-hosted by the European Commission and Open & Agile Smart

Cities (OASC). The Workshop took place at the European Commission in Brussels. It encouraged wide participation from those involved in smart cities and data management to provide a suitable forum for collaboration. This one day event was followed by the third UN/ITU-T Focus Group on Data Processing and Management (FG-DPM) with approximately 40 participants.

The Workshop was recorded and may be viewed at the webcast archive.

The event involved presentations by a number of key stakeholders for VICINITY including: the European Commission, DG Connect; OASC and the Digital Catapult (UK).

"How to achieve interoperability" came up in several presentations including SynchroniCity (started 2017), one of the EU Large Scale Pilots, which is taking a lead on this. Presentations discussed how interoperability is achieved though having the right architecture and standards. Without these there is a risk of stranded assets becoming a maintenance burden in the city and lost markets when the supplier wants to sell the same solution to other cities.

María Poveda, VICINITY made the presentation "Towards a common semantic data model for smart cities". The City of Madrid was cited as example of how requirements are being gathered. This started last year seeking stakeholders for requirements, including those from: Public administration, Associations, Projects (e.g. VICINITY), Platforms (e.g. FIWARE) and standardisation.

Marco CARUGI, (NEC) and ITU-T/FG-DPM activity presented on "Use Case Analysis and General Requirements for DPM".

The template will classify use cases aiming to be as cross-domain as possible to facilitate interoperability and allow new services to be created at little extra cost. It is drawn from standards: ITU-T SG20, NIST and ISO. 21704 plus input from Prof Xiaomi from China on terminology. He noted that David Faulkner VICINITY, introduced the concept of value-added services which can be added to existing infrastructure with little extra cost and that this may require a modification to the template [DF Note. The existing template in the FG is currently better suited towards capturing requirements for new infrastructure along a more traditional single domain, silo, approach].

"Prof. Gyu Myoung LEE, Chair, ITU-T Focus Group on Data Processing and Management for IoT and Smart Cities & Communities said data is new oil, the world's most valuable resource (The Economist)"

"Martin Brynskov, Chair, Open & Agile Smart Cities (OASC) spoke on 'Minimal Interoperability Mechanisms'. On shortcomings, he said we have so many standards but are lacking agreement on what are the fundamentals. So far they are all specific to silos. Increasingly local administrators are challenging the conventional way of organising themselves, even in the Commission.

Andrea Gaglione, IoT Technologist, Digital Catapult, UK presented "Overcoming barriers in the emerging smart city market: the SynchroniCity approach",

He gave a critique of the ITU-T IoT reference model cited in ITU-T Recommendation Y.20160/2012.

The problem with this model is homogeneity of hardware which leads complexity for interoperability and vendor lock-in. Developing new hardware for specific use-cases in a city leads to inflexibility for replication and scalability which also leads to city lock-in. The problem is not just for the city but also for the developers. They cannot replicate their solution in other cities.

There is also a barrier when it comes to data sharing. Those who hold the data are not incentivised in the right manner. [DF Note. There is a to challenge to VICINITY here. VICINITY could provide a solution to these problems and provide the basis for a new standard to replace Y.20160].

Franck Boissière, Policy Officer, IoT Unit, DG CONNECT, European Commission presented on "The challenge of smart cities R&D and standardization convergence". Challenges include: interoperability; matching supply and demand side; Innovation; non-technical aspects, including policy, legislation and acceptance. Clustered RIA projects are addressed via IOT-EPI. The large scale pilots (LSPs) are domain-focused and are currently having their standards coordinated separately from the RIAs. The most important steering group is the Big data value association (BDVA).

Scope of the Event

The Scope of the event was IOT and Smart Sustainable Cities.

The International Telecommunications Union (ITU) is part of the United Nations organisation. It has a membership of approximately 700 organisations including the ministries of communication from most countries.

The scope of FG-DPM (see Terms of Reference) which promoted and followed on from this meeting in Brussels fits well with VICINITY activities.

Participation from VICINITY

David Faulkner (author of this report) participated (also in the following days at the FG-DPM) and **María Poveda**, Ontology Engineering Group (OEG), Universidad Politécnica de Madrid made a presentation entitled "Towards a common semantic data model for smart cities".

Other Participants and Audience Reached

Approximately 70 registered as participants, mainly from Europe, Republic of Korea, China, Japan and Africa.

Feedback to VICINITY on Highlights of the Meeting

Franck Boissière, Policy Officer, IoT Unit, DG CONNECT, European Commission (See photo) chaired the opening session of the workshop. In his opening remarks he said the objective of the meeting was to provide an opportunity for collaboration with the aim of ensuring work in various domains is going in the same direction.

Prof. Gyu Myoung LEE, Chair, ITU-T Focus Group on Data Processing and Management for IoT and Smart Cities & Communities (See photo) provided an overview of this group which is parented by SG20 which is primarily responsible for producing Recommendations for IoT and Smart Sustainable Cities and Communities. The emphasis is on how to create value taking account of the disparate data sources and how to support higher volume and higher velocity data. From the raw data analysis to through data analytics go to actionable knowledge.

Martin Brynskov, Chair, Open & Agile Smart Cities (OASC) spoke on **'Minimal Interoperability Mechanisms'.**

He said data is the new economy but we must still clean up the last one. The goldrush makes people fight over who will get the most of the cake. With IoT we have a problem. We have standards and communities but somehow it is not all coming together. This economy should work at the city and citizen level. You need to find the front runners. OASC includes 117 cities in 24 countries. A diverse group of actors all aiming to make this work.

On shortcomings, he said we have so many standards. So far they are all specific to silos. Increasingly local administrators are challenging the conventional way of organising themselves, even the Commission. Access to data and semantics are key issues.. Experiment and operations need to be done together. The old way is not fast enough. Large scale pilots in Synchronicity aim to create a market for services and a harmonised ecosystem. He summarised the workplan of SynchroniCity including Open Calls which will be discussed in Bilbao June 6/7 during IOT week. 'Internet of things for smart cities and communities'.

María POVEDA, Ontology Engineering Group (OEG), Universidad Politécnica de Madrid presented **"Towards a common semantic data model for smart cities"**

María presented an overview of the Smart Appliances REFerence (SAREF) ontology. This started with the Commission and ETSI SmartM2M with focus on semantics for smart appliances. 40 actors have agreed semantics for smart appliances. This started with the 2013 SAREF study [see Useful Links below]. This was extended to include the following in 2015: SAREF4ENVI (environment), SAREF4BDLG (buildings) and SAREF4ENER (energy) and in 2017 extensions started for SAREF4CITY, SAREF4INMA (manufacture), SAREF4AGRI (agriculture).

These last three are scheduled to be published in 2019. These will include semantic objects in each domain.

The City of Madrid was cited as an example of how requirements are being gathered. This started last year seeking stakeholders for requirements, including those from: Public administration, Associations, Projects (e.g. VICINITY), Platforms (e.g. FIWARE) and standardisation.

Next, sub-categories were identified in relation to city IOT requirements such as: business, transport and traffic, etc.

Next, resources were explored looking for ontologies, data models and standards. The OASC Conference 2018 revealed sources: for example-Vocabularies from the ISA2 programme.

The next step will be to validate the requirements with projects such as VICINITY and SynchroniCity, also in the IOT workshop in Bilbao in June.

Implementation will reuse stable models. Then relations with other approaches will be examined such as the Web of Things ontology. We will incorporate stakeholders feedback

The take home message is we are still able to include your for input on use cases and models

Omar ELLOUMI (Nokia and chair of AIOTI WG8 Smart Cities) presented "Trends and opportunities for data-rich smart cities". He introduced the AIOTI. It is not a standards body but aims to promote SME and academia to participate in widescale deployment. He said nobody buys IOT', cities buy an outcome-based solution for a specific problem. No single IoT platform will dominate. Diversity is already there and must be dealt with. Cross-domain application use cases will raise awareness and drive the need for horizontalization (not a single platform) and DPM. He noted that Keith Dickerson (**VICINITY)** is leading this activity in AIOTI. Open source is key in DPM. Cities need guidelines for security and privacy protection.

At the end of the day **Martin Brynskov** shared a slideset giving the Outcomes of the Workshop (see photos at end) and may be downloaded in the file DPM-I-144 from https://extranet.itu.int/sites/itu-t/focusgroups/dpm/SitePages/Home.aspx

The full agenda and other presentations may be chosen by referring to the programme
https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180219/Pages/Programme.aspx

Future Meetings and Outlook

Workshops with support by the Commission aimed at coordinating standards:

Brussels (same room) on **26-27 April hosted by AIOTI**.

Bilbao IOT week on 4-7 June.

ITU FG-DPM future meetings will be in

- May 2018 before SG20 meets in Cairo;
- Sept 2018 with ITU Telecom World (Durban S. Africa); and
- Dec 2018 in China with SG20.

Attending or remote participation in this FG will give VICINITY a good opportunity to ensure our results are incorporated in international standards. It is identified in the VICINITY standards roadmap.

Photos

Fig. 1 Marco Carugi (of FG-DPM and NEC) reporting alongside the other presenters

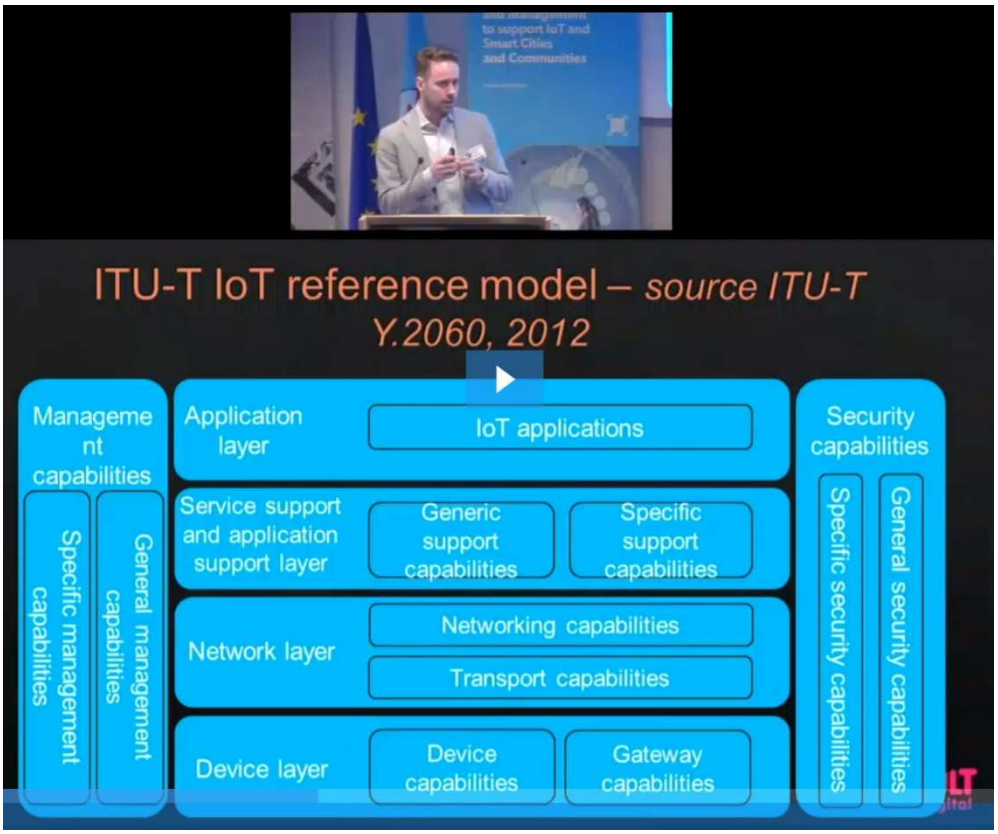


Fig. 2 Screen shot showing Andrea Gaglione presenting ITU-T IoT reference model cited is from ITU-T Recommendation Y.20160/2012

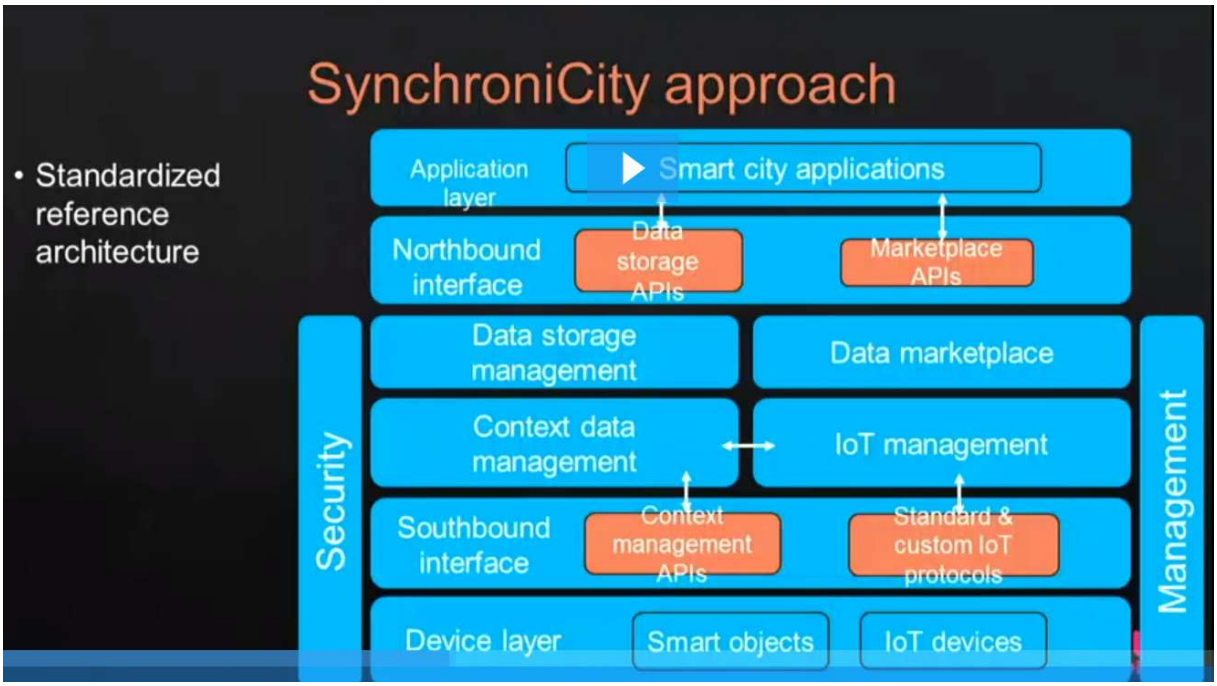
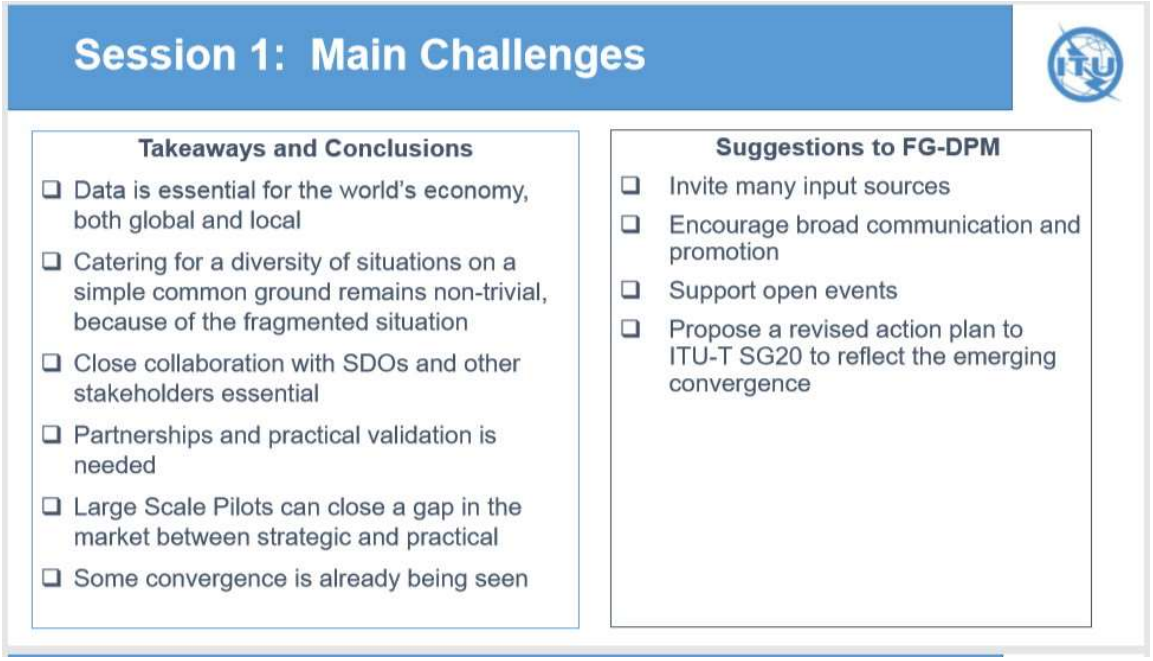


Fig. 3 Screen shot of Andrea Gaglione's slide showing the modified reference model adopted in SynchroniCity highlighting key interfaces for interoperability (with small white arrows)

Figs. 4 -7 Slides follow showing the Workshop Outcomes at the end of the day from Martin Brynskov (OASC)



Session 2: Beyond state of the art

Takeaways and Conclusions

- ❑ Cities are finely calibrated over many years, so do not change over night. *Transition management* is essential
- ❑ In order to have a marketplace, interoperability needs to be complemented by *licensing, governance and legislation*
- ❑ Requirements should come from existing sources, informing existing solutions
- ❑ IoT proposes fundamental new legal questions, including how to treat non-use (passive use), non-subjects (objects) and protecy (data protection + privacy)

Suggestions to FG-DPM

- ❑ Ensure rapport with cities and communities when establishing requirements
- ❑ Ensure linking technical aspects with governance aspects in the framework development
- ❑ Remain open and proactively inclusive towards existing work, within ITU and other SDOs as well as research and innovation projects, when establishing the FG-DPM baselines
- ❑ Recognize the legal complexities surrounding IoT for Smart Cities and Communities
- ❑ Ensure use cases from big date value chain

Session 3: Joint steps towards a common ground

Takeaways and Conclusions

- ❑ A need to conduct real standards-based procurement
- ❑ Rationate. Collaborate
- ❑ Map relevant organizations and specifications
- ❑ Alignment reduces risk
- ❑ Not just technical issues to be addressed but also societal and ethical

Suggestions to FG-DPM

- ❑ Provide practical guides for procurement
- ❑ Contribute to the mapping of organizations and specifications
- ❑ Link with other pre-standardization orgs
- ❑ Keep the framework simple
- ❑ Join the efforts to align efforts

Takeaways and Conclusions

1. There are important standardization issues to be addressed:
   - interoperability: pivotal points, minimal mechanism
   - governance: data protection, licensing, market mechanisms
2. Identification of and close collaboration with related entities is essential
3. Concrete steps to achieve practical results:
   - events
   - concrete implementation, pilots and procurement
   - joint fora, joint documents

Useful Links

Programme of this meeting
https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180219/Pages/Programme.aspx

Webcast of this meeting
https://webcast.ec.europa.eu/workshop-on-data-processing-and-management-for-iot-and-smart-cities#

Smart Appliances (SAREF)

SAREF ontology: https://w3id.org/saref

SAREF family of ontologies: http://saref.linkeddata.es/

https://sites.google.com/site/smartappliancesproject/home

Focus Group on Data Processing and Management to support IoT and Smart Cities & Communities

The first Forum on Data Management

ITU-T Study Group 20 on Internet of things (IoT) and smart cities and communities (SC&C)

Joint Coordination Activity on Internet of Things and Smart Cities and Communities

Additional Annex 7: D.A.R. - Internet of Food and Farming (IoF2020)

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

VICINITY presentation at
Internet of Food and Farming (IoF2020)
Organised by University Almeria
on March 1/2, Almeria, (ES)

Author:	HITS
Distribution:	All
Date:	April 25, 2018 (M28)
File Name:	**VICINITY_dissemination_report_IoF2020_Almeria.pdf**

Event details

Key figures				
Name of event	Stakeholder event 2018			
Date	1 to 2 March, 2018			
Place	University Almeria, Almeria, Spain (ES)			
Type of Activity [3]		Organisation of a conference – paper reviews, poster presentation		Participation to a conference
		Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
	X	Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training	X	Pitch event
		Social media		Trade fair
		Web-site https://www.iof2020.eu/stakeholder-event-2018		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience[4]	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
		Civil Society	X	Customers
		General Public		Other
	X	Policy makers		
Countries addressed	Europe, America, Asia			
Partners	HITS			

Table 1: key figures

[3] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

[4] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the event

Stakeholder event for Horizon 2020 Large Scale Project Internet of Food and Farming started 01.03.2018 09:30 CET and finished: 02.03.2018 17:30 CET
A workshop and exhibition to present the 19 use cases of the funded project.

Description of the participation

Target audience: Stakeholders and project partners and EU Commission.

Audience reached

The event reached all relevant stakeholders in the IoT domain interested in Food and Farming. The event was organised by University Almeria.

The IoF2020 consortium had the pleasure to welcome more than 250 participants from all over Europe to its Stakeholder Event om 1-2 March 2018 in Almeria, Spain! We had most interesting discussions and exchange of views on the application of IoT solutions in the agri-food sector.

UNIVERSIDAD DE ALMERÍA

Celebrating the first year of the IoF2020 project, the 19 use-cases presented their achievements and learning points through the pitch session. Furthermore, IoF2020 partners and stakeholders from the agri-food chain, including farmers, technology providers, policy-makers and researchers discussed recommendations for the preparation of the IoF2020 Open Call during parallel workshops.

View the photo's from the event

19 use-cases presentations

https://www.slideshare.net/Iof2020/withinfield-management-zoning

Indeed, the event also set the stage for an initial discussion of the €5 million IoF2020 Open Call. It will be launched in the second half of 2018 and is open to everybody with a sincere interest in pushing

the boundaries of digital farming applications. More information on the Open Call will be published soon.

Last but not least, participants visited one of the IoF2020 experimental farms: chain-integrated tomato greenhouse in the vicinity.

Feedback

Participants reported their interests in a response form after the workshop.

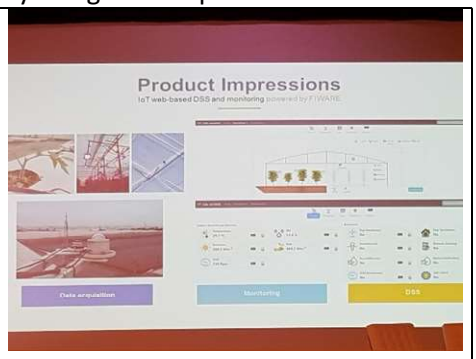
Key figures

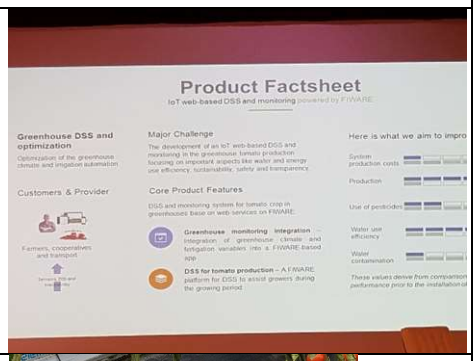
250 participants from all over Europe.

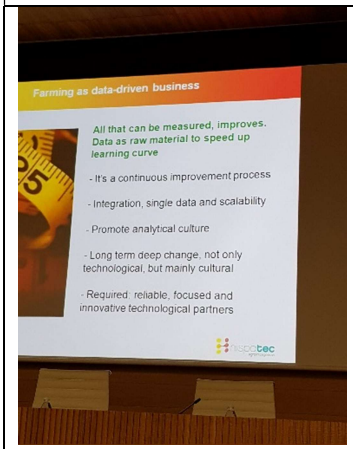
Useful links

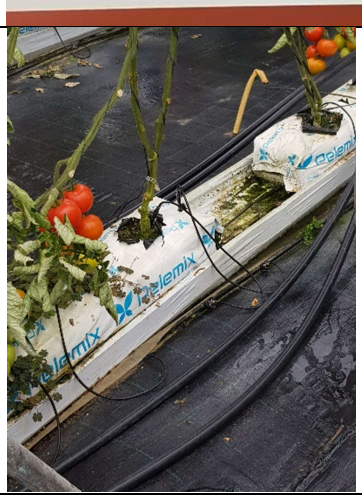
https://www.iof2020.eu/

Some of the photos below is from the greenhouses at University using several platforms of IoT.









Additional Annex 8: D.A.R. - 6th Smart cities conference + EXPO

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Presentation of VICINITY project by GNOMON at
"6th Smart cities conference + EXPO"
organised by Net Week (netweek.gr) & Boussias Communications
on 9 March 2018, in Athens, Greece

Author(s):	**GNOMON**
Distribution:	**All**
Date:	**15 March 2018 (M27)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	6th Smart Cities Conference + EXPO			
Date	9 March 2018 (M27)			
Place	DAIS, Cultural & Sports Centre			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
	X	Civil Society		Customers
		General Public		Other
		Policy makers		
Countries addressed	National (Greece)			
Partners	CERTH			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

The main scope of the event was to inform the participating audience on the latest IoT development and trends, to bring expertise by renowned speakers coming from different sectors (i.e. government, municipalities, regions, industry, academia) and to trigger the brainstorming and relevant discussions on how to face the challenges of our times and achieve higher quality of life in the cities, economic development, reduction of current functional costs, job creation and sustainability via a so called "Smart Urban Development".

As smart grids could be spread over a wide range that contains public transport, water management systems, waste management systems, trade, social services, etc, the event tried to cover this range by splitting the agenda in four major topics, specifically,

I. **Smart Governance - Smart Policies**

II. **Health & Social Care e-Services**

III. **Mobility**

IV. **Sustainability**

The basis for the latter is of course the proper exploitation of the capabilities offered by Cloud Computing, as well as the relevant services of data handling and analyzing, with respect to the security and privacy of the citizens.
As mentioned above, the ultimate goal of the event was to motivate the involved audience, especially the ones coming from government background, to achieve the "Smart Urban Development".

Description of the participation

Gnomon Informatics S.A. participated in the event mainly with the actual presence of its COO, meaning Mr Kostis Kangelides, who also made a VICINITY-related presentation under the name "VICINITY - Autonomous living solutions for the elderly in the IoT era", but also with other company members. Invitations for the event were also sent to collaborating partners coming mostly from the local government sector (e.g. municipalities, regions, etc) on behalf of Gnomon Informatics S.A.

The presentation was held during the second part of the conference which focused on the "Health & Social Care e-Services" and, specifically, on the way technology could be used to improve citizens' health and quality of life in general.

The presentation contained information for the current status of the project, the consortium and also the vision of the project to provide "interoperability as a service" and to create a platform for domain-crossing, value-added services. The relevant use cases and pilots were presented as well via the use of some simple visual scenarios to assist the ease of understanding.

A Q&A session followed by the end of the presentation.

Audience Reached

The event was mainly attended by high-ranking officials at government level (e.g. Ministry of Administrative Reconstruction) as well as local government level (i.e. various Municipalities and Regions), along with representatives coming from the industry sector and the scientific community, interested in the ongoing developments on IoT.

Feedback

VICINITY project raised the interest in a positive way for the proposed "VICINITY virtual Neighbourhood" concept for allowing IoT interoperability in cross-domains. Increased interest was mainly shown by the participating Municipalities and Regions on how VICINITY, and especially the envisioned value-added services, could efficiently contribute to the major improvement services they currently offer or plan to offer to their citizens. Even though the discussion was mainly focused on the e-health direction, as GNOMON's orientation is towards this sector, open discussion and relevant brainstorming followed for all VICINITY use cases.

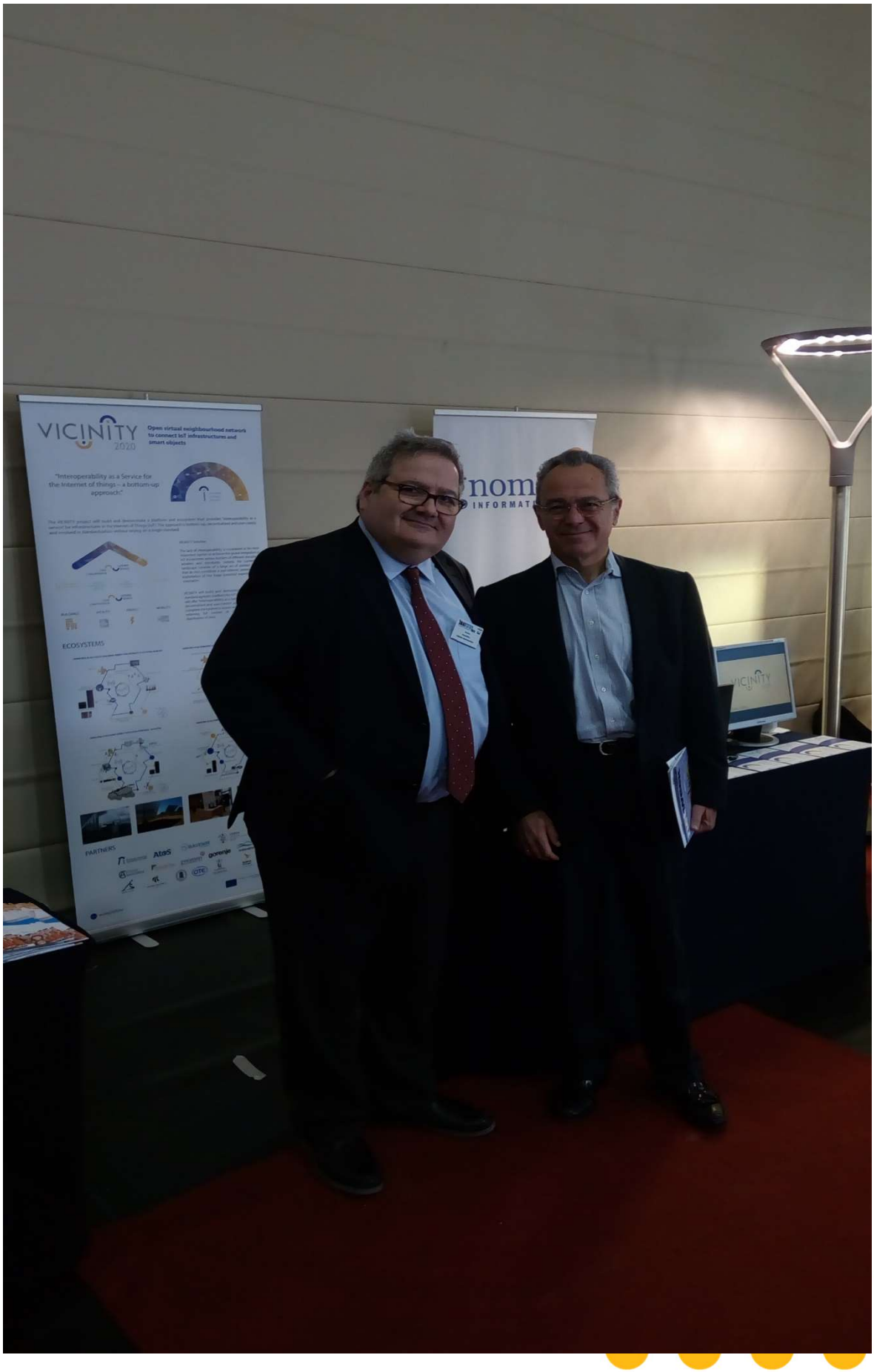
Photos


VICINITY 2020
Open virtual neighborhood network to connect IoT infrastructures and smart objects
gnomon
INFORMATICS S.A.
GNOMON


GNOMON
VICINITY
2020


SMART CITIES
CONFERENCE +EXPO
VICINITY Global Activity Limitation Index
COSMOTE
CISCO
vodafone


6th
SMART CITIES
CONFERENCE +EXPO
European Commission


VICINITY
2020
Open virtual neighbourhood network to connect IoT infrastructures and smart objects
"Interoperability as a Service for the Internet of things – a bottom-up approach"
ECOSYSTEMS
PARTNERS
Atos

Event Program/Invitation

AGENDA

08:00-08:30	Εγγραφές - Πρωινός καφές
08:35-08:40	**Εισαγωγή: Κατερίνα Δρόσου,** Δ/νση Σύνταξης Plant, Boussias Communications
08:40-11:15	**Smart Governance - Smart Policies: Εναρμόνιση των Τεχνικο - Διοικητικών Ενεργειών των Πόλεων με την Ψηφιακή Διακυβέρνηση**
	• **Δρ. Νίκος Μιχαλόπουλος,** Προϊστάμενος, Γενική Διεύθυνση Μεταρρυθμιστικής Πολιτικής & Ηλεκτρονικής Διακυβέρνησης, Υπουργείο Διοικητικής Ανασυγκρότησης ''From Bureaucratic Burdens to Digital Public Organizations''
	• **Κωνσταντίνος Χαμπίδης,** Chief Digital Officer, Δήμος Αθηναίων «Διακυβέρνηση Δεδομένων - Διακυβέρνηση Πολιτών»
	• **Χαράλαμπος Χατζής,** Προϊστάμενος Τμήματος Ηλεκτρονικής Διακυβέρνησης, Δήμος Θεσσαλονίκης «Πλατφόρμα Ηλεκτρονικών Διαβουλεύσεων Δήμου Θεσσαλονίκης»
Κεντρικός Ομιλητής	• **Κωνσταντίνος Μπακογιάννης,** Περιφερειάρχης Στερεάς Ελλάδας «Έξυπνη Περιφέρεια είναι..»
	• **Δρ. Γιώργος Αποστολόπουλος,** Business Development, OTS ''Secure Document Exchange with e-Delivery in Greece''
Keynote Speaker	• **Nele Leosk,** Senior Expert e-Governance Academy, Estonia "Digital Transformation of Public Sector: the Present and the Future"
	• **Ιωάννα Ιωαννίδου,** Διευθύντρια Μονάδας Ανάπτυξης Λογισμικού & Συμβουλευτικής, Cosmos Business Systems "Digital Municipality"
	• **Δημήτρης Παπαστεργίου,** Πρόεδρος Επιτροπής Καινοτομίας Ανάπτυξης και Υποστήριξης της Επιχειρηματικότητας ΚΕΔΕ, Δήμαρχος Τρικκαίων «Μετρώντας το... IQ των Έξυπνων Πόλεων!»
	• **Samu Szemerey,** Architect, Urbanist working with cities, culture and technology, KÉK Hungarian Contemporary Architecture Center "Smart governance in Hungarian cities''
	• **Αλέξανδρος Μπρέγιαννης,** ICT Sales Manager, Όμιλος ΟΤΕ "Smart City Solutions. Making Your City Smart. Together"
	Q&A
11:15-11:45	Διάλειμμα για καφέ - σνακ και networking
11:45-13:15	**Health & Social Care e-Services: Αξιοποίηση των Τεχνολογιών της Πληροφορίας και των Τηλεπικοινωνιών για την Υγεία και τη Βελτίωση της Ζωής των Πολιτών**
Έρευνα	• **Σιάνα Κυριάκου,** Γενική Διευθύντρια & COO, KPMG «Συγκριτική Αξιολόγηση Δημοτικών Υπηρεσιών: Βρίσκοντας το Θάρρος για Βελτίωση»
Keynote Speaker	• **Θεόδωρος Αρβανίτης,** Professor of e-Health Innovation and Head of Research at The Institute of Digital Healthcare WMG, University of Warwick "Smart Cities and Digital Healthcare: Transforming Health and Wellness of Citizens and Communities"
	• **Κωνσταντίνος Στασινόπουλος,** Εμπορικός Διευθυντής - Διαχειριστής IntelliSoft «Ενιαίο Μητρώο Ωφελούμενων Δήμου (Κοινωνική Υπηρεσία, Αθλητισμός, Πολιτισμός, Παιδικοί Σταθμοί)»
	• **Ιγνάτιος Καϊτεζίδης,** Δήμαρχος Πυλαίας-Χορτιάτη, Αντιπρόεδρος Επιτροπής Θεσμών, ΚΕΔΕ «Smart Τεχνολογίες για Έξυπνες και Ποιοτικές Δημοτικές Υπηρεσίες»
	• **Ανδριάνα Αλεβίζου,** Δημοτική Σύμβουλος Ιλίου, π. Αντιδήμαρχος Κοινωνικής Προστασίας & Υγείας «Ψηφιακός Μετασχηματισμός της Κοινωνικής Υπηρεσίας ενός Δήμου. Το Παράδειγμα του Δήμου Ιλίου»
	• **Κωστής Καγγελίδης,** Ιδρυτής & Γενικός Διευθυντής, Γνώμων Πληροφορική ''Vicinity – Λύσεις Αυτόνομης Διαβίωσης Ηλικιωμένων στην Εποχή του IoT''
	• **Χριστίνα Καραμπέρη,** Τμήμα Έρευνας και Επικοινωνίας E-TRIKALA «ACTIVAGE Project: Υπερνικώντας τα Εμπόδια για Ένα Ισορροπημένο, Ενεργό και Υγιές Περιβάλλον Διαβίωσης για την Τρίτη Ηλικία»
	Q&A
13.15-14.00	**Sustainability A': Ορθολογική Διαχείριση Ενέργειας σε Ευφυείς - Βιώσιμες Πόλεις**
	• **Damian Gale,** Technical Sales EMEA at OSRAM, representing SIELIGHT "Light Makes Cities Smart"
	• **Ηλίας Σαββάκης,** Γενικός Γραμματέας, Δήμος Αγ. Δημητρίου «Έξυπνα Έργα Εξοικονόμησης Ενέργειας για μια Βιώσιμη πόλη»
	• **Διαμαντής Ξυδάς,** Τομεάρχης Ανάπτυξης Συστημάτων Μετρήσεων στη Διεύθυνση Δικτύου, ΔΕΔΔΗΕ «Εφαρμογή Έξυπνων Συστημάτων Μέτρησης Ηλεκτρικής Ενέργειας στον ΔΕΔΔΗΕ»
	• **Dr. Tareq Al Jizawi,** Πρόεδρος και Διευθύνων Σύμβουλος, GlobiLED «Η Σημασία Έξυπνου Οδοφωτισμού και GlobiLED Case Studies Οδοφωτισμού σε Δήμους»
	Q&A
14:00-15:00	Διάλειμμα για φαγητό και networking
15.00-14.00	**Sustainability B': Πολιτικές και Συστήματα για Βιώσιμο και Ευφυή Αστικό Σχεδιασμό**
Keynote Speaker	• **Laurent Renat,** Directeur de la Direction Economie Regulation, Gaz Réseau Distribution France "French Gas Smart Meter Roll-Out Project: First Step Towards Smart Gas Grids and Smart Cities"
	• **Αναστάσιος Τόσιος,** Επιχειρησιακός Διευθυντής Διανομής, Εταιρεία Διανομής Αερίου Αττικής «Εφαρμογές Ευφυών Συστημάτων στη Διαχείριση Υποδομών & Καταναλωτών Ενέργειας»
	• **Άκης Τσαρούχης,** Product &Business Development Manager, Vodafone «Ο Τηλεπικοινωνιακός Πάροχος στον Πυρήνα των Έξυπνων Πόλεων»
	• **Μάνθος Παπαματθαίου,** Senior Product Marketing Engineer, Intracom Telecom «Ολιστική Προσέγγιση στην Εφαρμογή Βιώσιμων Έξυπνων Εφαρμογών»
	• **Κωνσταντίνος Βαρλαμίτης,** Πρόεδρος, Ταμείο Παρακαταθηκών και Δανείων «Χρηματοδοτικά Εργαλεία για τη Διενέργεια Επενδύσεων Αναβάθμισης Υποδομών & Εξοικονόμησης Πόρων στην Αυτοδιοίκηση»
	• **Antulio Richetta,** Director IBI Group "The water optimizer"

	• **Ευάγγελος Τσομπανόπουλος,** Δήμαρχος Νέστου «Γεωθερμικό Πεδίο Ερατεινού και Καινοτόμος Αγροτική Εκμετάλλευση»
	Q&A
16.30- 17.30	Mobility: Η Τεχνολογία Αρωγός στη Διευκόλυνση της Μετακίνησης και τη Βελτίωση της Καθημερινότητας του Πολίτη
	• **Ιωάννης Κοπανάκης,** Γενικός Διευθυντής Εταιρικής Ανάπτυξης, ΔΕΗ • **Θοδωρής Χατζηπαναγιώτου,** Sales & After Sales Director, Solaris Hellas «Μέσα Μαζικής Μεταφοράς: Ένας στρατηγικός κλάδος ανάπτυξης της Ηλεκτροκίνησης»
	• **Ξενοφών Μανιατογιάννης,** Δήμαρχος Βριλησσίων «Σχεδιασμός Δήμου Βριλησσίων για Περιβαλλοντικά Φιλικές και Ενεργειακά Αποδοτικές Μεταφορές»
	• **Γιώργος Διδασκάλου,** Γενικός Γραμματέας, Δήμος Αμαρουσίου «Ενοποιημένη Πλατφόρμα Λειτουργίας Εφαρμογών Smart City»
	• **Ανδρέας Κονδύλης,** Δήμαρχος Αλίμου «Εφαρμογές Βιώσιμης Αστικής Κινητικότητας - Η Περίπτωση του Δήμου Αλίμου»
	• **Δρ. Γιώργος Αγερίδης,** Διευθυντής Ενεργειακής Αποδοτικότητας, ΚΑΠΕ «Ηλεκτροκίνηση στους Δήμους - Προοπτικές και Τάσεις στην Ελλάδα»
	Q&A
17:30-17:40	Κλείσιμο Εργασιών Συνεδρίου

Workshops στο 6ο Smart Cities Conference

1ο WORKSHOP | 14.20-15:00
«OSRAM Street Light Control RF makes cities smart»
Εισηγητής: Mr. Damian Gale, Lighting Control Systems Expert, Technical Sales EMEA at OSRAM.
Συμμετοχή: Αλεξάνδρα Παπαντωνοπούλου, Ηλεκτρολόγος Μηχανικός, Διεύθυνση Πωλήσεων Sielight και Εκπρόσωπος της Ελλάδας στο τμήμα 4 (Transportation & Exterior Applications) της Διεθνούς Επιτροπής φωτισμού (CIE)

2ο WORKSHOP | 17:40-18:15
«Εξυπνος φωτισμός & χρηματοδότηση»
Εισηγητής: Γιώργος Καναβάκης, Υπεύθυνος Τμήματος Βιομηχανίας και Μετρήσεων ΕΞΕ ΚΑΠΕ

Χρυσοί Χορηγοί

COSMOTE

CISCO

Μεγάλος Χορηγός

vodafone

Χορηγοί

Business Grove ALX GREECE

COSMOS BUSINESS SYSTEMS S.A.

gnomon INFORMATICS S.A.

IBI

{is} INTELLISOFT

INTRACOM TELECOM

OTS Smart technology • Better world

sielight

Υποστηρικτές

GlobiLED LED LIGHTING

SOLARIS

ΔΕΔΔΗΕ

ΔΕΗ Πάντα δίπλα σας

Χορηγοί Επικοινωνίας

ΕΡΤ

ΠΡΩΤΟ ΠΡΟΓΡΑΜΜΑ 91,6 • 105,8

ΕΡΑσπορ 101,8

STAR

ΚΡΗΤΗ TV

IONIAN

B2Green

energypress

energyworld

Χορηγός Διερμηνείας

interpretit

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Conference

Useful Links

VICINITY Presentation:

http://smartcitiesconference.gr/default.asp?pid=23&la=1&pwID=683

, *under the name* ***„Vicinity - Λύσεις Αυτόνομης Διαβίωσης Ηλικιωμένων στην Εποχή του IoT“***

Netweek:

http://www.netweek.gr/

Smart Cities Conference:

http://smartcitiesconference.gr/

DAIS Centre:

http://www.daiscenter.gr/

Additional Annex 9: D.A.R. - 2018 Workshop on Modelling and Simulation of Cyber-Physical Energy Systems

“

Project Acronym: **VICINITY**

Project Full Title: **Open virtual neighbourhood network to connect intelligent buildings and smart objects**

Grant Agreement: **688467**

Project Duration: **48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in

“2018 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems”

At CPS Week 2018

on 10.-14. April 2018, in Porto, Portugal

Author(s): UNIKL

Distribution: **All**

Date: **29 June 2018 (M30)**

This project has received funding from the European Union’s Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	2018 Workshop on Modeling and Simulation of Cyber-Physical Energy Systems			
Date	10.-14. April 2018			
Place	Porto, Portugal			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
		Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
		Civil Society		Customers
		General Public		Other
		Policy makers		
Countries addressed	World			
Partners	UNIKL			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

Modern energy systems combine information technology with electrical and thermal infrastructure. They also interact with other systems like markets and are subject to

many regulations. Existing modeling and simulation tools are not capable to cover such systems in all of their aspects, hence new languages, methods and tools are necessary. A combination of universal modeling languages and established, domain-specific tools (like grid simulators and telecommunication simulators) is necessary. This leads to hybrid energy systems models, where for instance a multi-agent framework and an electric grid simulator are combined to investigate smart electric vehicle charging algorithms. Also the potential size of such systems poses a challenge for modeling and simulation. And implementing these future cyber-physical systems is another substantial challenge. The designed algorithms need to be compact, computationally inexpensive, potentially self-organizing and intrinsically stable if applied to real energy systems.

Audience Reached

Academic community

Industrial Partners

Business and Academic opportunities identified

Several companies and the academic community were informed about the VICINITY project and the Open Call.

A scientific paper with the title **"Hardware-in-the-loop Simulation for Internet of Things Scenarios"** is published and was presented at the Workshop. The paper will be available on IEEEXplore.

Conference paper

(Link to IEEEXplore, when publication is finished)

Links

http://www.palensky.org/mscpes/2018/

https://cister.isep.ipp.pt/cpsweek2018/

Additional Annex 10: D.A.R. - SC27 Working Group meeting

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at the
SC27 Working Group meeting
Organised by ISO/IEC
on April 16/20, 2018, Wuhan, (CN)

Author:	HITS
Distribution:	All
Date:	April 22, 2018 (M28)
File Name:	**VICINITY_dissemination_report_SC27_april2018.pdf**

Author(s): **HITS**
Distribution: **All**
Date: **22 April 2017 (M28)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event details

Key figures				
Name of event	SC27 WG-meeting #30, 2018			
Date	14 May to 16 May, 2017			
Place	Eastlake Conference Centre, Wuhan			
Type of Activity [5]		Organisation of a conference – paper reviews, poster presentation	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site https://www.iso.org/committee/45306.html		Participation in activities organised jointly with other H2020 project(s)
	X	Communication campaign (e.g. radio, TV), by regional Chinese TV and press media	X	Other (global standardisation)
Type of Audience[6]		Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
	X	Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	Europe, America, Asia, Africa, Oceania			
Partners	HITS [owner Portahead is partipating member of SC27 through Standard Norway]			

Table 1: key figures

[5] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

[6] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the event

SC27 has the responsibility for development of standards for the protection of information and ICT. This includes generic methods, techniques and guidelines to address both security and privacy aspects, such as:

- Security requirements capture methodology;
- Management of information and ICT security; in particular information security management systems, security processes, and security controls and services;
- Cryptographic and other security mechanisms, including but not limited to mechanisms for protecting the accountability, availability, integrity and confidentiality of information;
- Security management support documentation including terminology, guidelines as well as procedures for the registration of security components;
- Security aspects of identity management, biometrics and privacy;
- Conformance assessment, accreditation and auditing requirements in the area of information security management systems;
- Security evaluation criteria and methodology.

SC 27 engages in active liaison and collaboration with appropriate bodies to ensure the proper development and application of SC 27 standards and technical reports in relevant areas

Description of the participation

Main organisers ISO/IEC JTC1/SC27 and participants from Malaysia, Korea, Japan, Belgium, Poland, United States, Spain, Germany, Sweden, Norway, France, United Kingdom, Australia, New Zealand, Mexico, Austria, China, Italy, Luxembourg, Canada, Singapore, India, Ireland, Argentina, Finland, South Africa, Switzerland

Liaison organisations were ISF, Cloud Security Alliance, ISC2, OECD, ISACA, ITU, ISF

Audience reached

The audience for SC27 is the 77 participating and observing member countries and 30 liaison organisations

Feedback

At the final plenary meeting of SC27 the following Resolutions were given by consent (to be published). The Recommendations numbers will be available when the SC27 meeting report is published by ISO/IEC JTC1/SC27.

The consented Recommendations were:

<to be included from Plenary Report>

This meeting (SC27) was larger than we had expected before. Security, privacy and IoT are generating much interest from governments and industries. Security management is a key topic for governments. Experts from governments were present to steer the course of discussions in this area.

Norway will be hosting next meeting in Gjøvik, Norway from 30th September, 2018. For VICINITY, a future measure of success is “Will the project have any influence on the future of IoT in communities throughout the world?”.

IoT was previously covered by JTC1 committee WG10. In JTC1 Plenary in November, 2016, it was decided to establish a new SC 41 to cover IoT and related technologies. Later, it was decided to move the secretariat to IEC. Most of ISO members have no access to IEC committees. Therefore, it is even

more important to participate in the IoT related activities in SC27 addressing Trustworthiness (Security, Privacy and more).

We represented VICINITY to core members of WG4 Security controls and Services in this mwwting in Wuhan, China. VICINITY partners will make contributions to Trustworthiness of IoT and also the New Work Item Security Reference Model for Interoperable Internet Platforms (IIP). Also, it was proposed to establish a Study Period for Smart Home Security. During the meeting, it was decided to rename the title to Security & Privacy for Domotics. Terms of Reference and proposal for a New Work Item was proposed during the meeting, initiated from China, having millions of Smart Home installations already. VICINITY should make a proposal to address the IIP based on best practices from their pilots and from the dissemination of results.

Photos to be included

Key figures

The ISO/IEC is the global standardisation organisation for ICT and equipment. Most of the worlds' countries are member of the ISO/IEC. SC27 has 52 participating national members and 25 observing national members. SC27 has published 174 ISO standards and are currently working on 68 new standards

Useful links

Useful links to be included

Additional Annex 11: D.A.R. - Hannover Messe 2018

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Presentation of VICINITY project by UNIKL at
"Hannover Messe 2018"
organised by Deutsche Messe
on 23rd to 27th Apr 2018 at Hannover Messe.

Author(s):	**UNIKL**
Distribution:	**All**
Date:	**23rd to 27th Apr 2018**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event details

Event	Hannover Messe 2018			
Date	23rd to 27th Apr 2018			
Place	Hannover Messe			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop		Participation to a workshop
	X	Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media	X	Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
		Civil Society	X	Customers
	X	General Public		Other
		Policy makers		
Countries addressed	Mainly Germany			
Partners	UNIKL			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

The “Hannover Messe” is one of the largest trade fairs in the world. It is held on the Hanover Fairground in Hanover, Germany. Typically, there are about 6,500 exhibitors and 250,000 visitors.
In Contrast to “CeBit”, which is also held on the Hanover Fairground, “Hanover Messe” has a strong focus on industry as target audience. Exhibitions on “Hannover Messe 2018” were categorized as follows:

- Integrated Automation, Motion & Drives
- Digital Factory
- Energy
- Industrial Supply
- Research & Technology

VICINITY was given the opportunity to present its ideas and visions in the “Research & Technology” sector of the fair.

Description of the participation

Belonging to Rhineland-Palatinate, University of Kaiserslautern was given the opportunity to present its research to a broad audience during “Hannover Messe” in the Research and Technology sector.

UNIKL took this opportunity to present the VICINITY project. An electronic poster (Slideshow) was created as well as a printout giving a broad overview on VICINITYs ideas and visions. Additionally, a live demo of Lightbulbs, controlled via either a twitter VAS, or voice control was presented. A strong emphasis was given to the upcoming Open Call.

Furthermore, coordinator Christoph Grimm gave two introductory presentations on VICINITY during the “Science Square” Event, which took place in small sessions throughout the fair.

Audience Reached

Hannover Messe is strongly focused on visitors from all industrial domains. VICINITY was presented in Hall 2, which was set under the topic of “Research and Technology”. The main audience was hence mostly visitors with an industrial background, interested in latest research and innovation, such as VICINITY.

VICINITY’s exhibition was featured in many press articles (see ANNEX I). Most importantly, it was presented in the local newspaper and on screen at the daily television news, during the visit of secretary of state Rhineland-Palatinate, Ms. Daniela Schmitt.

Visitors came from various application domains such as e.g. smart grid/smart energy or building automation. Most audience approved the idea of not implementing “yet another standard”, but enabling existing ecosystems to join in a virtual neighbourhood and expressed their interest in doing so.

Finally, VICINITY was visited by

- Secretary of State Rhineland-Palatinate, Ms. Daniela Schmitt
- CEO AMT-Advanced Manufacturing Technology, Mr. Arul C.T.
- Marketing and Sales at Parquery AG, Mr. Aleksandar Kostić

- Emerging Business Manager at Analog Devices, Mr. Patrick Delmer

Feedback & follow up

Many visitors were interested in the virtual neighborhood concept of VICINITY and were eager to participate in the first open call.

The upcoming Open Call Evaluation will show their actual participation and interest, though.

ANNEX I – Press coverage

German:

Softwarelösung vernetzt technische Geräte im Internet der Dinge sicher

Vorstellung des Projekts auf der Hannover Messe

TUK. Ob Kühlschrank, Spülmaschine oder Auto – immer mehr Geräte, die wir täglich nutzen, sind über das Internet der Dinge vernetzt und können Daten austauschen. An der Technischen Universität Kaiserslautern (TUK) arbeiten Informatiker daran, Geräte unterschiedlicher Hersteller einfacher zu vernetzen. Ihr System ist derart gestaltet, dass Nutzer Kontrolle darüber behalten, wer die Geräte ansteuern und verwenden kann. Zum Einsatz kommt dabei unter anderem ein Mikrocomputer, der ähnlich wie ein Adapter die Geräte miteinander verbindet.

Johannes Kölsch (li.) und Christopher Heinz arbeiten daran, Geräte unterschiedlicher Hersteller einfacher zu vernetzen.

FOTO: TUK/THOMAS KOZIEL / PS

Auf der Hannover Messe vom 23. bis 27. April stellten die Wissenschaftler ihr System am Forschungsstand des Landes Rheinland-Pfalz vor.

Das Internet der Dinge, auf Englisch Internet of Things (IoT), wächst rasant: In einer Präsentation der US-amerikanischen Design-Agentur „Infografic Design Team" heißt es etwa, dass die Ausgaben für diese Technik im Medizinsektor bis zum Jahr 2020 um 15 Prozent auf 117 Milliarden Dollar ansteigen. Bei vernetzten Mobilgeräten sollen sie sich bis dahin auf 25 Milliarden Dollar verfünffachen.

Auch an der TUK beschäftigen sich Forscher um Christopher Heinz und Johannes Kölsch im Fachbereich Informatik am Lehrstuhl für Entwicklung Cyber-Physikalischer Systeme bei Professor Dr. Christoph Grimm mit dieser Technologie. Das Besondere: Mit Kollegen aus ganz Europa arbeiten sie an einem Softwaresystem, das Geräte und Maschinen verschiedener Produzenten vernetzt. In diesem Zusammenhang sprechen Experten auch von Interoperabilität. „Sie bezeichnet die Fähigkeit, dass technische Systeme unterschiedlicher Hersteller miteinander kommunizieren und beispielsweise verschiedene Signale erkennen", erläutert Doktorand Heinz.

Die Technik funktioniert ähnlich wie ein Adapter, mit dem man Stecker im Ausland an die andersförmigen Steckdosen anschließen kann. Die Forscher nutzen dazu einen im Handel erhältlichen Mikrocomputer, der unscheinbar in einer Pappschachtel daherkommt. „Es handelt sich dabei um ein sogenanntes Voice Kit", sagt Kölsch, der ebenfalls am Lehrstuhl promoviert. „Es besteht aus einem Einplatinenrechner und einer Künstlichen Intelligenz, die mit einer Sprachsteuerung ausgestattet ist und noch andere Sensoren enthält, die etwa Lichtstärke und Temperaturen messen und erkennen."

Über die drahtlose Netzwerkverbindung „ZigBee", die ähnlich funktioniert wie das gängige WLAN, ist der Minicomputer mit einem Gerät verbunden, zum Beispiel einer Lampe oder einer Kaffeemaschine. Der kleine Rechner ist wiederum mit einer Cloud, einem Online-Speicher, vernetzt. Hier sind alle wichtigen Daten und Funktionen der Geräte hinterlegt. „Darüber sind wir mit unseren Projektpartnern verbunden, deren Geräte auch mit ähnlichen Techniken von der Cloud aus angesteuert werden können", so Heinz weiter. Per Sprachbefehl sei es damit beispielsweise möglich, dass die Forscherkollegen in Griechenland die Lampe auf dem Kaiserslauterer Campus an- und ausschalten können.

Der Nutzer behält bei diesem System die Kontrolle darüber, wer die Geräte ansteuern und verwenden kann. „Er entscheidet, wer Zugang erhält. Dabei erfolgt die Datenübermittlung verschlüsselt nach aktuellsten Sicherheitsstandards zwischen Sender und Empfänger", sagt Kölsch.

Die Technik ist nicht nur für private Haushalte interessant. Damit ist es etwa für Energieversorger möglich, die Stromverteilung einfach zu kontrollieren. „Dies kann sinnvoll sein, wenn am frühen Abend der Energieverbrauch plötzlich ansteigt und die Netze überlastet sind", so Kölsch. Über einen Regler ließe sich der Verbrauch steuern und bei Bedarf in bestimmten Bereichen senken. Stromkonzerne haben ähnliche Verträge heutzutage zum Beispiel schon mit Supermärkten. Diese erhalten günstigeren Strom, wenn sie bereit sind, bei hohem Verbrauch in den Netzen etwa die Beleuchtung im Laden um zehn Prozent zu reduzieren.

Zudem könnten Unternehmen damit Maschinen in ihren Fabriken vernetzen, Verkehrsbetriebe Anzeigetafeln an Haltestellen mit Bussen und Bahnen oder Krankenhäuser wichtige medizinische Geräte. Auch die Versorgung großer Gebäudekomplexe ließe sich damit einfacher regeln, etwa Heizungs-, Lüftungs-, Klima- und Lichtanlagen.

Die Arbeiten finden im Rahmen des Projektes „VICINITY" statt, das von der Europäischen Union mit 7,5 Millionen Euro gefördert wird. Es wird von Professor Grimm in Kaiserslautern koordiniert. Insgesamt sind 16 Partner aus Europa an dem Vorhaben beteiligt. Auf der Hannover Messe stellen die Forscher das Projekt vor. |ps

Source: Wochenblatt Kaiserslautern, 03.05.2018 (local Newspaper)

Hannover Messe 2018: Softwaresystem vernetzt technische Geräte im Internet der Dinge sicher
https://idw-online.de/de/news692064

Hannover Messe 2018: Softwaresystem vernetzt technische Geräte im Internet der Dinge sicher
https://www.uni-kl.de/aktuelles/news/news/detail/News/hannover-messe-2018-softwareloesung-vernetzt-technische-geraete-im-internet-der-dinge-sicher/

Hannover Messe 2018: Softwarelösung vernetzt technische Geräte im Internet der Dinge sicher
https://www.focus.de/regional/rheinland-pfalz/technische-universitaet-kaiserslautern-hannover-messe-2018-softwareloesung-vernetzt-technische-geraete-im-internet-der-dinge-sicher_id_8732320.html

Hannover Messe 2018: Softwarelösung vernetzt technische Geräte im Internet der Dinge sicher
http://www.innovations-report.de/html/berichte/hannover-messe/hannover-messe-2018-softwareloesung-vernetzt-technische-geraete-im-internet-der-dinge-sicher.html

Vicinity: „Der Benutzer bestimmt, welchen anderen Teilnehmern dieses Netzes er vertraut.“
https://upthinx.de/2018/04/vicinity-der-benutzer-bestimmt-welchen-anderen-teilnehmern-dieses-netzes-er-vertraut/

Geräte verschiedener Hersteller vernetzen
https://medizin-und-technik.industrie.de/technik/forschung/geraete-verschiedener-hersteller-vernetzt/

English:

Hannover Messe 2018: Software solution safely connects technical device in the Internet-of-Things
https://idw-online.de/en/news692066

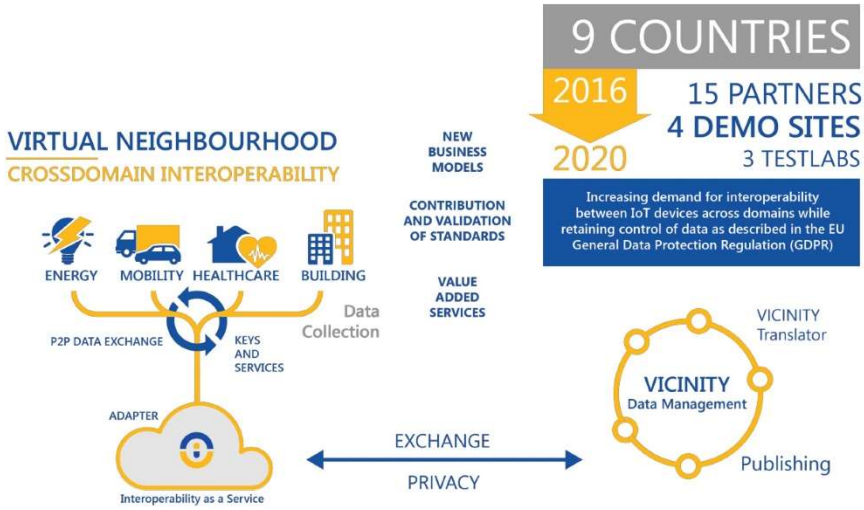
ANNEX II – Info Handout given out during the Event (two-sided)

TECHNISCHE UNIVERSITÄT KAISERSLAUTERN

VICINITY 2020

Interoperabilität für das Internet der Dinge

Über die Entstehung einer virtuellen Nachbarschaft



Die aktuelle Situation im Internet der Dinge ist bestimmt durch isolierte, abgeschlossene Systeme, oft auch als „Silos" bezeichnet. Eine Verbindung zwischen diesen ist oft gar nicht oder nur sehr bedingt vorgesehen oder überhaupt möglich.

Eine mögliche Lösung für dieses Problem ist das Formen einer virtuellen Nachbarschaft, in der Geräte unterschiedlicher Silos durch einen IoT Gateway miteinander vernetzt werden. Zentral ist dabei auch, dass der Eigentümer der „Dinge" und damit der Benutzer die volle Kontrolle darüber behält, welche Daten ausgetauscht werden und wer darauf zugreifen darf.

Anwendung kann dieser Ansatz in den unterschiedlichsten Bereichen wie beispielsweise E-Health, Energiemanagement, Gebäudeautomatisierung, bis hin zu Industrie 4.0 finden.

Prof. Dr. Christoph Grimm
TU Kaiserslautern
Arbeitsgruppe Entwicklung Cyber-Physikalischer Systeme
Gottlieb-Daimler-Str. 49
D-67663 Kaiserslautern
Tel: +49 (0)631 205-3283
Mail: grimm@cs.uni-kl.de

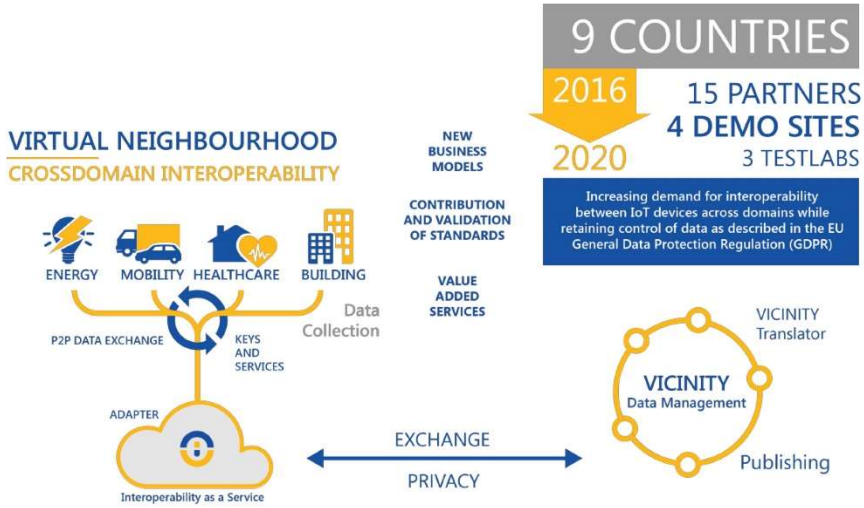
http://vicinity2020.eu

TECHNISCHE UNIVERSITÄT KAISERSLAUTERN

VICINITY 2020

Interoperability for the Internet of Things

Towards a virtual neighborhood



The current landscape in the Internet of Things is dominated by isolated, closed Systems, often also referred to as "Silos". A connection between these Systems is only very limited or not even possible at all.

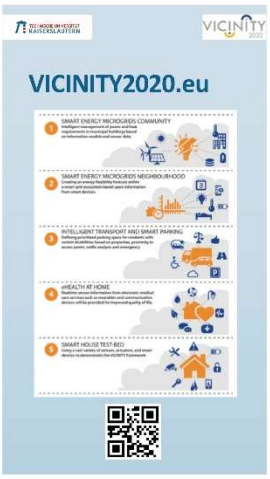
One possible solution involves forming virtual neighborhoods, connecting various devices from different silos via an IoT Gateway. One key aspect: the "Thing" owners, hence the users remain in complete control over their devices, their data and can decide individually who has access to which part of their system.

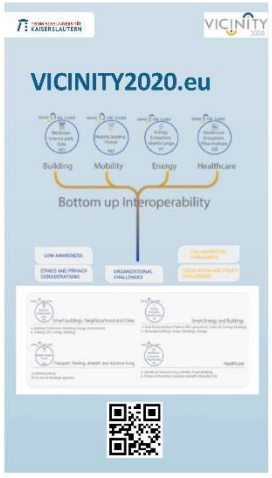
This approach is applicable to various domains, such as E-Health, energy management, building automation or even Industry 4.0.

Prof. Dr. Christoph Grimm
TU Kaiserslautern
Arbeitsgruppe Entwicklung Cyber-Physikalischer Systeme
Gottlieb-Daimler-Str. 49
D-67663 Kaiserslautern
Tel: +49 (0)631 205-3283
Mail: grimm@cs.uni-kl.de

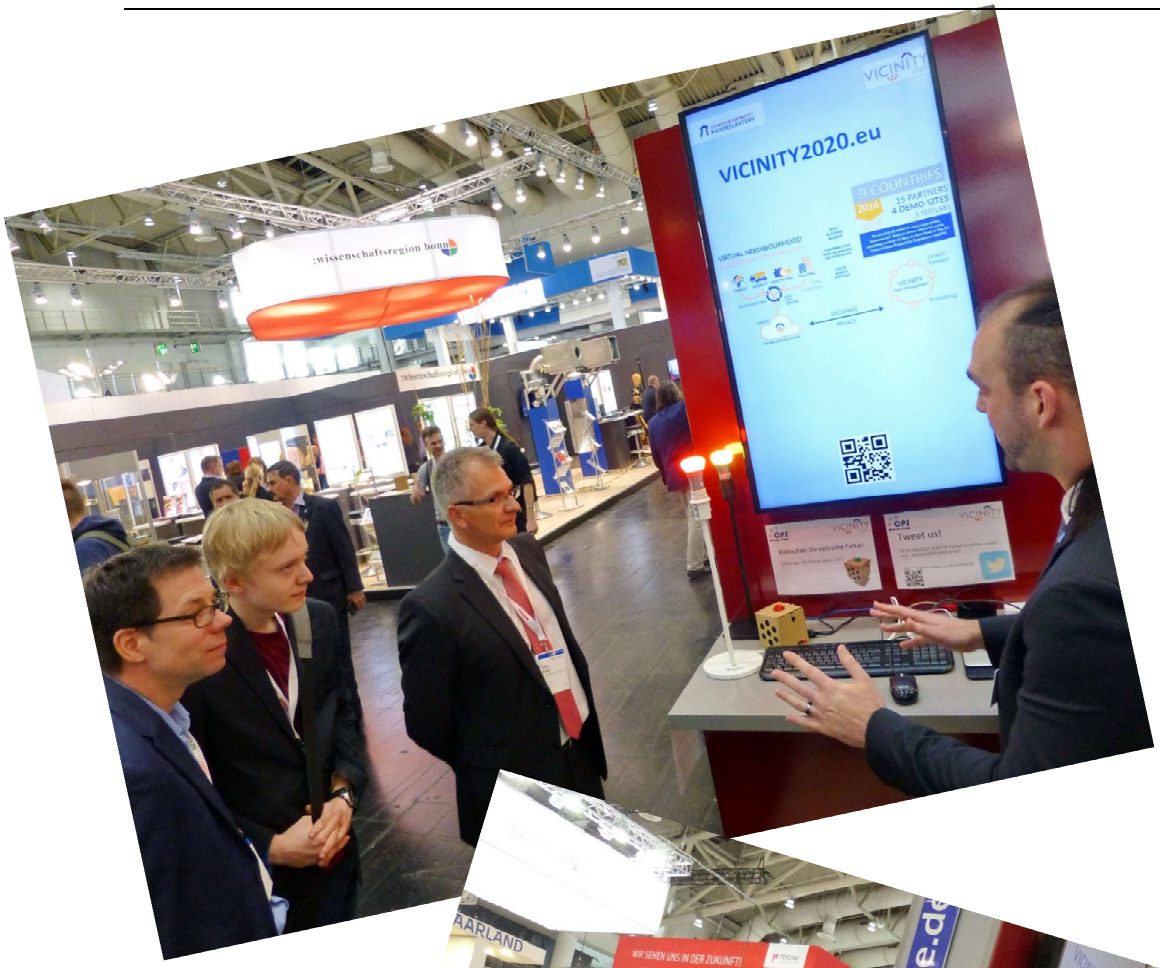
http://vicinity2020.eu

ANNEX III – E-Poster presented during the Event





ANNEX IV – Impressions of the fair




VICINITY2020.eu
SAARLAND
BAM


Can we Trust the Internet?
facebook
Do we have alternatives???
Forschung &
Rheinlar

Additional Annex 12: D.A.R. - IoT Forum 2018 Madrid

Project Acronym: **VICINITY**

Project Full Title: **Open virtual neighbourhood network to connect intelligent buildings and smart objects**

Grant Agreement: **688467**

Project Duration: **48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"IoT Forum 2018 Madrid
organised by Executive Forum
on 25 April 2018, in Madrid, Spain

Author(s): **ATOS**
Distribution: **All**
Date: **04 May 2018 (M29)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	Madrid IoT Forum			
Date	25 April 2018 (M28)			
Place	Madrid, Spain			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training		Pitch event
	X	Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	ATOS			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

Madrid hosted for the third consecutive year the IoT Forum event, held at the Capitol Cinema. Approximately 300 professionals of the sector gathered in this edition, in which 17 organizations also shared their experiences and presented their products

and services. In May, the fourth edition of this meeting will be launched, which, year after year, aims to place Spain at the heart of the European and international IoT market. Matooma, HPE, IoT Projects, Atos, Advantech, Intersystems and Matrix were some of the participants of this edition.

Description of the participation

Lydia Montadon (ATOS) presented the VICINITY open call to the Auditorium around 300 people.

In the ATOS stand a rollup of the VICINITY open call and information were shown.

Audience Reached

300 people were registered for the Forum

Figure 1 Twitter Impression

Figure 2 Twitter impressions Lydia Montandon Presentation

Feedback

Key Issues:

The VICINITY open call was presented during the event by Lydia Montandon

Awareness raising campaign for the modernization of Europe´s industry

12:50

Lydia Montandon – Business Development Director, *Atos* ***Research and Innovation WATIFY***

During the coffe Break , information about the Open Call was provided by Carmen Perea to different companies interested in it.

Leaflets and a roll up were shown in the ATOS stand

Figures

Figure 3 Slide 1 VICINITY Open Call

Figure 4 Slide 2 VICINITY Open Call

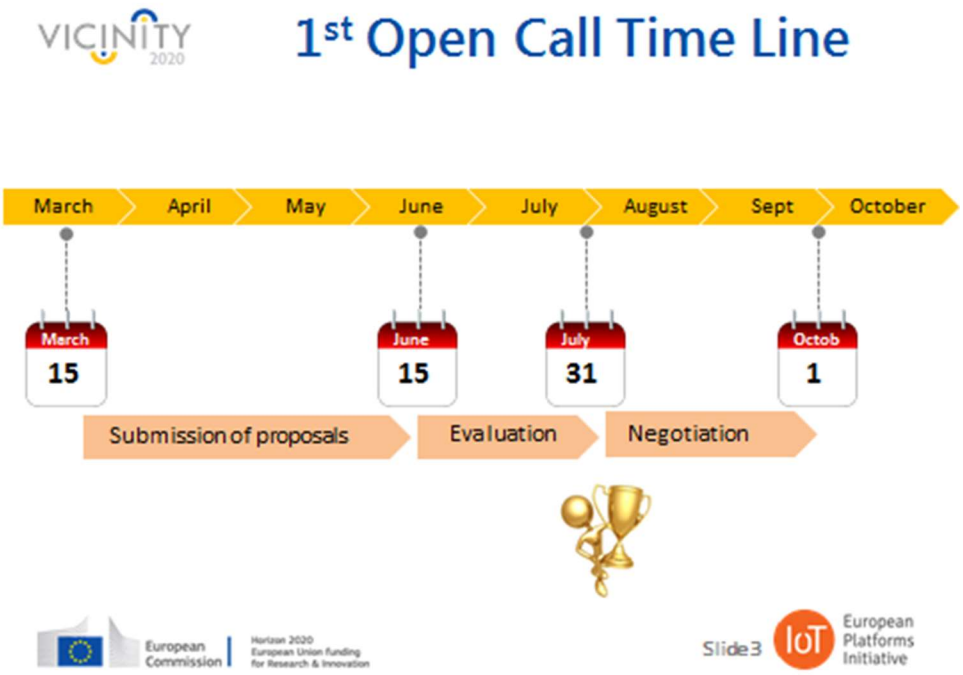


Figure 5 Slide 3 VICINITY Open Call

Business opportunities identified

Several companies were informed about the Open Call (e.g: IECISA, Barbara IoT ,etc.). It seems that they could be potential participants in the VICINITY Open Call.

It is highlighted that contacts with MioTI were established. This organization is very interesting for VICINITY, because they are looking for an Open source IoT platform to be provided to the Students. This fact should be analysed deeply. https://www.mioti.es/en/

Links

http://iotmadridforum.com/

https://twitter.com/infoiot?lang=e

s

Additional Annex 13: D.A.R. - The ENSO newsletters

Project Acronym: **VICINITY**

Project Full Title: **Open virtual neighbourhood network to connect intelligent buildings and smart objects**

Grant Agreement: **688467**

Project Duration: **48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
The ENSO newsletters
organised by Enso Project
on 27 April 2018,

Author(s): **ATOS**
Distribution: **All**
Date: **04 May 2018 (M29)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	ENSO Project Newsletters			
Date	27 April 2018 (M28)			
Place	http://enso-ecsel.eu/			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop		Participation to a workshop
	X	Press release		Participation to an event other than a conference or workshop
	X	Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	ATOS			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

ENSO newsletters are the periodical newsletters of the ENSO project, ENSO is an ECSEL project, VICINITY and ENSO project are collaborating.

Description of the participation

A piece of news about VICINITY has been included in the issue n3 of VICINITY, the piece of new is entitled "It's better together" and it is about the collaboration established between the two projects VICINITY and ENSO

Audience Reached

ENSO audience, ECSEL participants.

Figures

Figure 3 VICINITY piece of news

Links

http://www.enso-ecsel.eu/fileadmin/user_upload/EnSO_Newsletter__3_VF.pdf

Additional Annex 14: D.A.R. - 2nd Internet of Things platforms and standardisation workshop

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at the
"2nd Internet of Things platforms and standardisation workshop"
27 April 2018, Brussels, Belgium

Author(s): María Poveda-Villalón **(UPM)**
Distribution: **All**
Date: **2 July 2018**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Events	"2nd Internet of Things platforms and standardisation workshop"			
Date	27 April 2018 (M28)			
Place	Avenue de Beaulieu 25, 1160 Auderghem, Brussels, Belgium			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
	X	Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	All			
Partners	UPM			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Summary/Headlines

The 2nd Internet of Things platforms and standardisation workshop co-hosted by the European Commission and the Alliance for Internet of Things Innovation (AIOTI) took place at the European Commission premises in Brussels. The workshop encouraged

the participation of numerous stakeholders in the IoT scene involved in Large-scale Pilots, existing PPPs, on-going initiatives for IoT, etc.

The Workshop was recorded and may be viewed at the webcast archive.

The event involved presentations by a number of key stakeholders for VICINITY including: the European Commission, DG Connect; AIOTI, W3C, etc.

Scope of the Event

The Scope of the event was IoT platforms and standardisation.

The goal was to put in common the major achievements of the IoT LSPs in particular their effort to define robust reference architectures and uses cases, as well as the AIOTI WG03 and other PPPs standardisation actions, and map the SDOs activities onto the reference architecture and interoperability mechanisms.

Participation from VICINITY

María Poveda, Ontology Engineering Group (OEG), Universidad Politécnica de Madrid made a presentation entitled "VICINITY standardization landscape WoT ontology & SAREF" during the parallel session "Smart Cities/Smart Homes".

Other Participants and Audience Reached

Approximately 30 registered as participants, mainly from Europe, China, Japan and Africa.

Feedback to VICINITY on Highlights of the Meeting

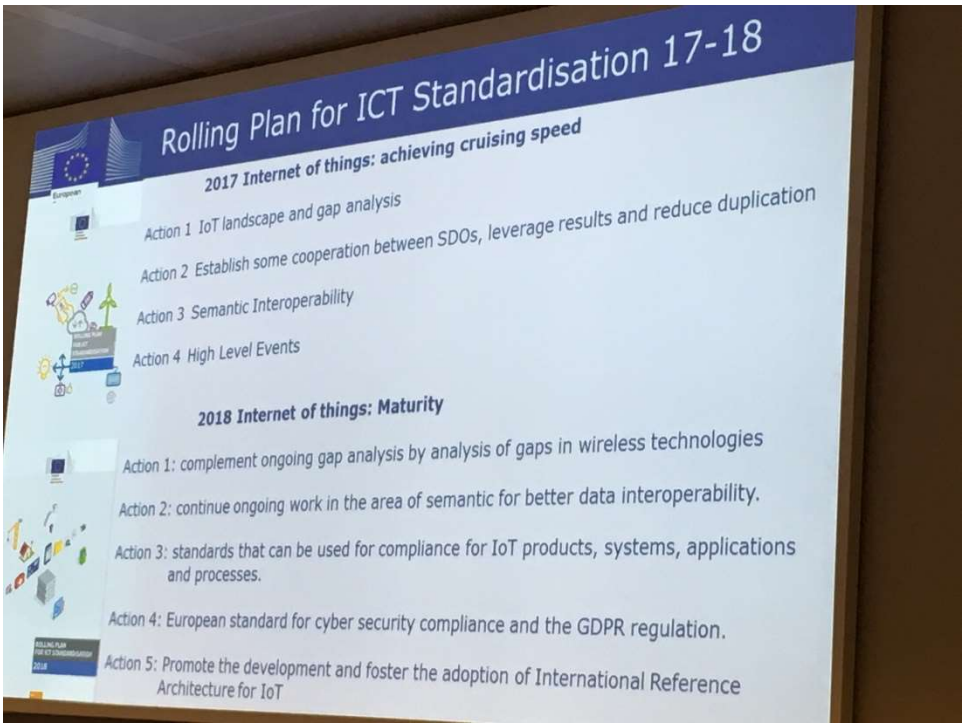
Franck Boissière, Policy Officer, IoT Unit, DG CONNECT, European Commission (See photo) chaired the opening session of the workshop. He provided the results of the analysis over the last year and highlighted the following challenges:

- Interoperability: essential for a Digital Single Market, with seamless flow of data across sectors and value chains.
- Chicken and egg: supply and demand side are both struggling to define standards at appropriate level
- Innovation
- Non-technical aspects: solutions should be more than technical solutions, existing standards should be refined
- Policy & Legislation: security and privacy are still a limiting factor
- Acceptance: communities are sceptical, and often with a good reason

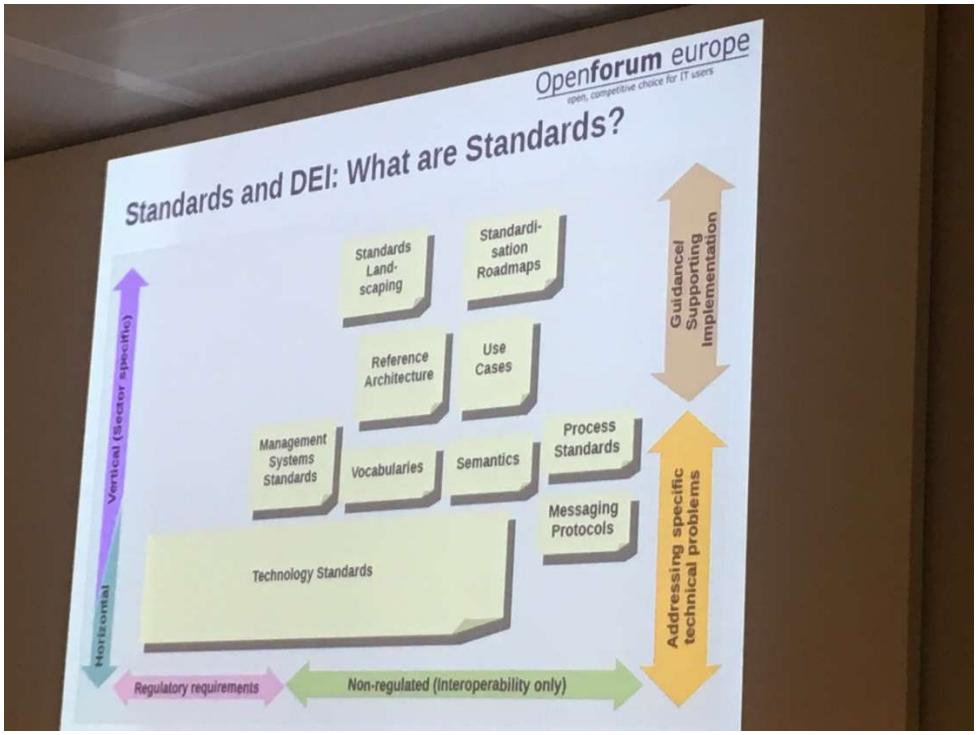
Dave Raggett, W3C Web of Things working group. During his presentation Dave presented the plans for W3C workshop late in 2018 in Europe and ideas to analyse the proposal for extending RDF to embrace property graphs, address scalability for communities with different requirements, blending ideas from cognitive science, sociology, dealing with incomplete, uncertain and inconsistent knowledge.

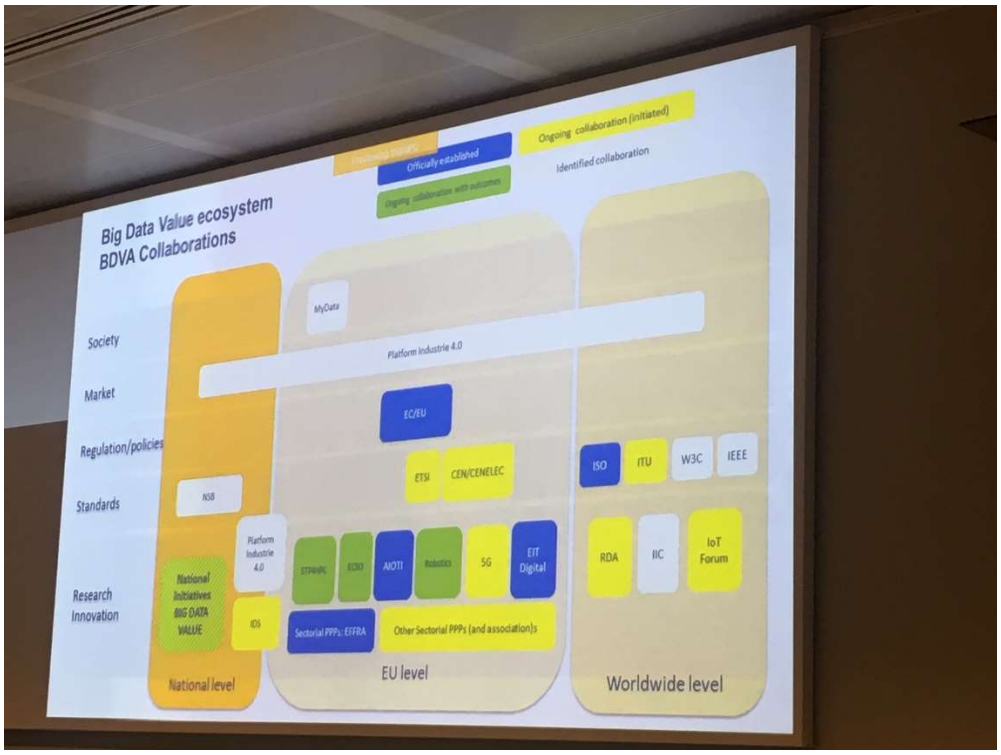
It was also mentioned that we should take into account the cost of adopting some solutions considering that normally you take a solution because what it means, not because it is open or private. The same happens for standards, there are many works for standards from which one does not know which one to choose. The step forward could be having cities as leading actors, providing rules and guidelines and including them in procurements "if you want this project you should do things in this way". We should find a way to relate all this work to cost. Not only the cost of maintaining the ecosystem but also whether you are opening a new revenue way. This should be taken into account in order to foster real solutions adoption.

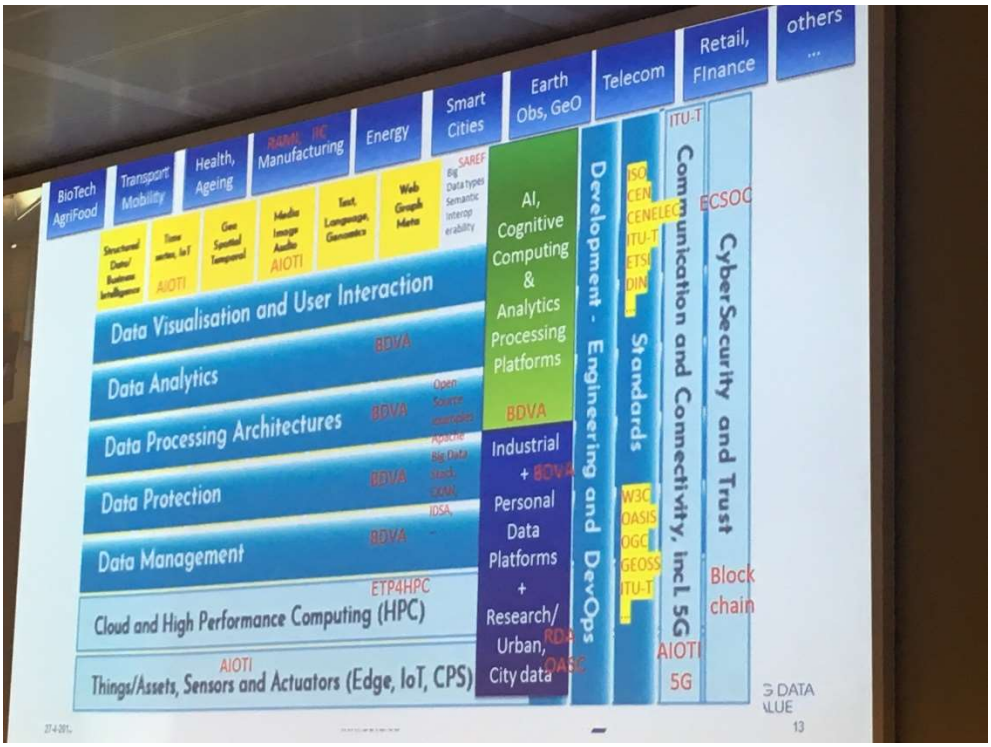
Photos

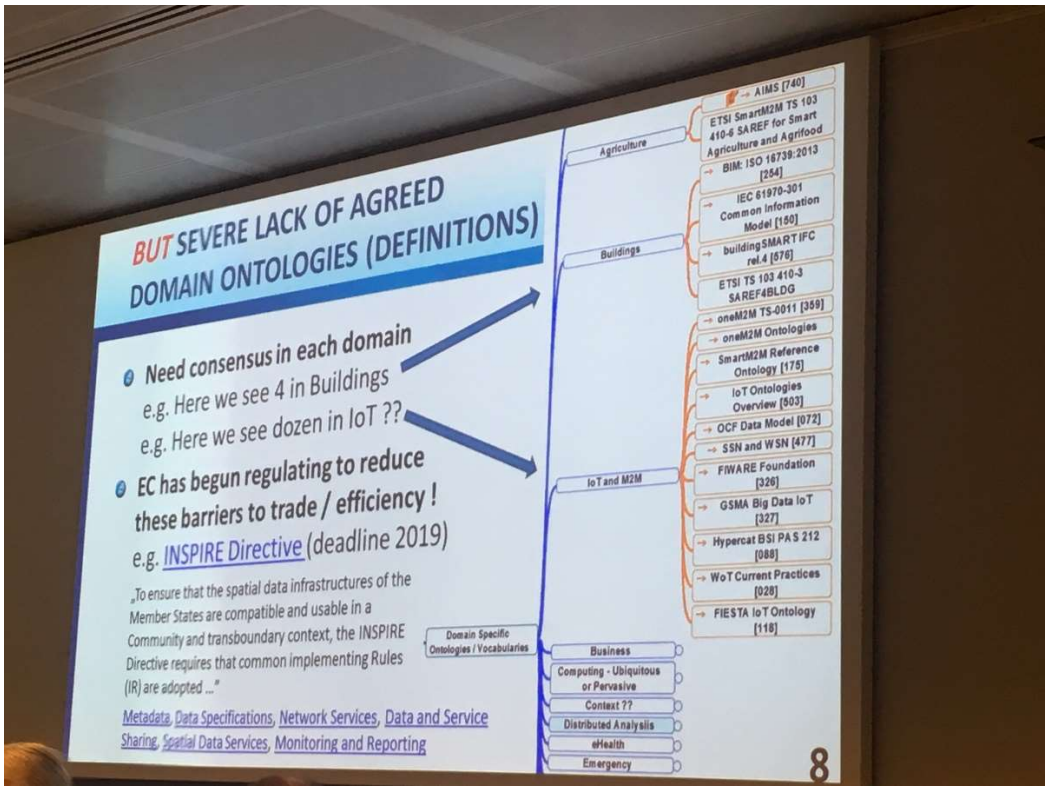



IoT Leadership Strategy in Horizon 2020
2014-15 Building the IoT- EPI cluster (European Platforms Initiative)
2016-17 Building the IoT Focus Area
2018-20 FA DEI Strategy
EU Markets
EPI: Building the eco-system, breaking silos CPS-IoT, Using architectures integrating devices, systems and networks for a multiplicity of novel applications
http://iot-epi.eu
LSPs: Focus Area on Internet of Things will focus on experimentation with real-life solutions being tested at large scale with users
+ ODI, FI-ware accelerators, IERC, standardisation etc.
https://european-iot-pilots.eu/projects/
DEI Platforms: Focus Area Digitising European Industry will focus on integrating digital innovation across societal challenges
+ DEI Policy support, e.g. security, privacy, ownership, liability, GDPR .
THE INTERNET of THINGS


Openforum europe
open, competitive choice for IT users
Standards and DEI: What are Standards?
Standards Land-scaping
Standardi-sation Roadmaps
Reference Architecture
Use Cases
Management Systems Standards
Vocabularies
Semantics
Process Standards
Messaging Protocols
Technology Standards
Vertical (Sector specific)
Horizontal
Guidance/ Supporting Implementation
Addressing specific technical problems
Regulatory requirements
Non-regulated (Interoperability only)


Big Data Value ecosystem
BDVA Collaborations
Officially established
Ongoing collaboration (initiated)
Identified collaboration
Society
Market
Regulation/policies
Standards
Research
Innovation
MyData
Platform Industrie 4.0
EC/EU
ETSI
CEN/CENELEC
ISO
ITU
W3C
IEEE
NSB
Platform Industrie 4.0
ETP4HPC
ECSO
AIOTI
Robotics
5G
EIT Digital
RDA
BIC
IoT Forum
National Initiatives BIG DATA VALUE
IDS
Sectorial PPPs: EFFRA
Other Sectorial PPPs (and association)s
National level
EU level
Worldwide level


BioTech AgriFood
Transport Mobility
Health, Ageing
Manufacturing
Energy
Smart Cities
Earth Obs, GeO
Telecom
Retail, Finance
others ...
Data Visualisation and User Interaction
Data Analytics
Data Processing Architectures
Data Protection
Data Management
Cloud and High Performance Computing (HPC)
Things/Assets, Sensors and Actuators (Edge, IoT, CPS)
AI, Cognitive Computing & Analytics Processing Platforms
Industrial + Personal Data Platforms + Research/ Urban, City data
Development - Engineering and DevOps
Standards
Communication and Connectivity, incl 5G
CyberSecurity and Trust
ECSOC
Block chain
BDVA
AIOTI
ETP4HPC
5G
13



Useful Links

Programme of this meeting

https://ec.europa.eu/digital-single-market/en/news/2nd-internet-things-platforms-and-standardisation-workshop

Previous edition

http://ec.europa.eu/digital-single-market/en/news/internet-things-platforms-and-standardisation-workshop

Additional Annex 15: D.A.R. - The ENSO newsletters

“

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
“FIWARE Global Summit 2018, Porto”
organised by FIWARE
on 8-9 May 2018, in Porto, Portugal

Author(s):	**ATOS**
Distribution:	**All**
Date:	**22 June 2018 (M30)**

This project has received funding from the European Union’s Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	FIWARE Global Summit 2018			
Date	8-9 May 2018 (M29)			
Place	Porto, Portugal			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training		Pitch event
	X	Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	ATOS			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

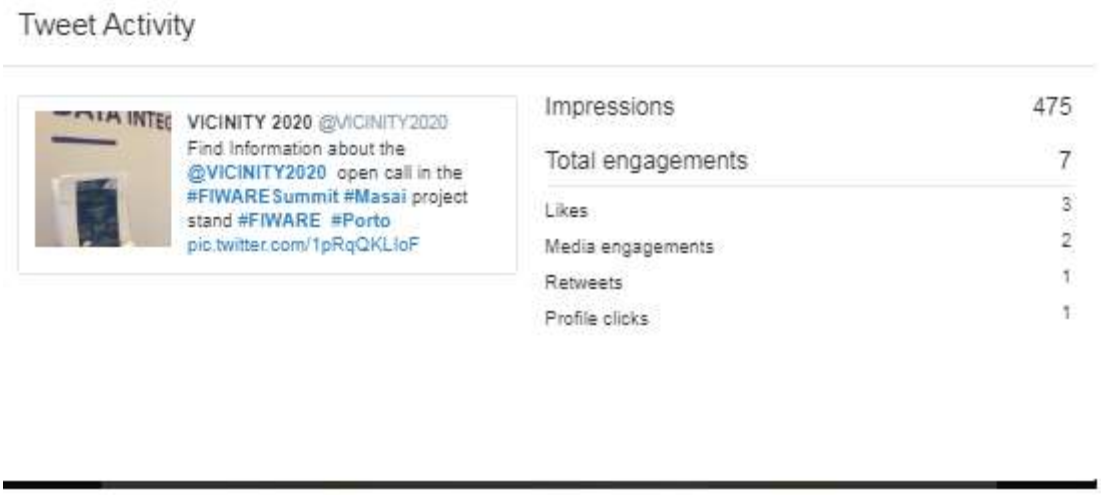
The FIWARE Global Summit unites developers, entrepreneurs, political decision makers, thought leaders, business executives and investors to exchange views and developments on how smart IoT and Open Data solutions can be implemented in the areas of Smart Cities, Industry 4.0 and Agriculture.

Description of the participation

In the ATOS' stand open call and information was shown.

Audience Reached

Tweet Activity



Business opportunities identified

Several companies were informed about the Open Call (It seems that they could be potential participants in the VICINITY Open Call.

Links

https://www.fiware.org/event/fiware-global-summit-2018-porto/

https://twitter.com/FIWARE?lang=en

Additional Annex 16: D.A.R. - 4th UVP Technicom Conference

Project Acronym: **VICINITY**

Project Full Title: **Open virtual neighbourhood network to connect intelligent buildings and smart objects**

Grant Agreement: **688467**

Project Duration: **48 months (01/01/2016 - 31/12/2019)**

- Dissemination Activities Report

Participation of the VICINITY project at
4th UVP Technicom Conference
organised by University Science Park TECHNICOM, Technical University of Košice
on 23 May 2018, in Košice, Slovakia

Author(s): **Marek Skokan (IS)**
Distribution: **All**
Date: **14 June 2018**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	4th USP Technicom Conference			
Date	23 May 2018			
Place	Košice, SK			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
		Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	Slovakia			
Partners	IS			

Scope of the Event

- Presentation of the University Science Park – USP Technicom
- Presentation of successful scientific parks operating in other European countries
- Exchange and evaluation of cooperation models between the USP Technicom, public and private sector

- Presentation of results of research and development activities realized with the support of the technology park
- Presentation of spin-off and cooperating projects
- Networking between participants

Description of the participation

Marek Skokan (IS) participated in the event at the Society Pavilion, Trieda SNP Street, Kosice. The VICINITY project was represented by a poster.

Marek was present during the poster session to discuss and explain the project, the current project status and results achieved so far.

Audience Reached

Around 200 participants, mainly from Slovakia.

Feedback

We experienced solid interest on our poster presented in Technicom 2018 conference. In addition to shallow interest, there were three concrete in-depth discussions about the VICINITY solution with four people during the poster session (the session lasted 2 hours). One person was senior researcher who is expert on big data. We were able to identify possible overlaps of big data approach and VICINITY interoperability as service that might enable creation of specific added value services using history of measurements. The second person discussed economical aspects of VICINITY (aimed at added value services), as he is associated professor of economy. Third and fourth persons were interested about potential usage of VICINITY solution in 'circular economy' as they are about to write project proposal in this field - some abstract ideas were risen.

Photos

Main conference room with projects presentations:

Vicinity project presentation and discussions during the poster session.

Useful Links

4th Technicom Conference: https://konferencia.uvptechnicom.sk/

USP Technicom: https://www.uvptechnicom.sk/en/

Additional Annex 17: D.A.R. - 14th International Conference on Artificial Intelligence Applications and Innovations

"

Project Acronym: **VICINITY**

Project Full Title: **Open virtual neighbourhood network to connect intelligent buildings and smart objects**

Grant Agreement: **688467**

Project Duration: **48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"14th International Conference on Artificial Intelligence Applications and Innovations "
on 25-27 May 2018, in Rhodes, Greece

Author(s): OTE
Distribution: **All**
Date: **25 June 2018 (M30)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	14th International Conference on Artificial Intelligence Applications and Innovations 2018			
Date	25-27 May 2018 (M29)			
Place	Rhodes, Greece			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
	X	Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site	X	Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
		Civil Society		Customers
		General Public		Other
		Policy makers		
Countries addressed	EU			
Partners	OTE			

(*) Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

In the context of 14th International Conference on Artificial Intelligence Applications and Innovations 2018, OTE organised the 3rd 5G-PINE Workshop which has been

established to disseminate knowledge obtained from EU projects as well as from any other action of EU-funded research, in the wider thematic area of "5G Innovative Activities – Putting Intelligence to the Network Edge" and with the aim of focusing upon artificial intelligence (AI) in modern 5G telecommunications infrastructures. In this context and focusing on vertical markets within cloud environments the H2020 VICINITY European project has been presented. The Third 5G-PINE Workshop had a strong impact in the broader context of the AIAI 2018 Conference.

Audience Reached

Academic community

Industrial Partners

Business and Academic opportunities identified

Several companies were informed about the VICINITY project and the Open Call.

Conference paper

https://link.springer.com/chapter/10.1007/978-3-319-92016-0_6

Links

http://easyconferences.eu/aiai2018/index.html

http://easyconferences.eu/aiai2018/workshop2.html

Additional Annex 18: D.A.R. - Friendly cities for people with dementia

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at the workshop **"Friendly cities for people with dementia"** on 30 May 2018, in Thessaloniki, Greece

Author(s):	**Tsirogianni Myrto**
Distribution:	**All**
Date:	**30 May 2018**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	"Friendly cities for people with dementia"			
Date	30 May 2018			
Place	Thessaloniki, Greece			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
		Industry		Investors
	X	Civil Society		Customers
	X	General Public		Other
		Policy makers		
Countries addressed	Greece			
Partners	Municipality of Pilea- Hortiatis			

Scope of the Event

The Municipality of Pilea- Hortiatis as part of the VICINITY project and member of the "National Inter-municipal Network Healthy City - Health Promotion (NINHC-HP) , held an information day about keeping people with dementia safe and adjusting their environment in order to make their living independent.

The case was to disseminate to the public the support the Municipality provides to the elderly through VICINITY, by digitizing, automating and providing medical care services, in order to enable people to obtain a better quality and independent life.

Participation from VICINITY

The first mention of VICINITY to the audience, was made by the mayor Ignatios Kaitezidis in his opening speech, where he presented the project and it's benefits. Dr Georgios Krikelis,the expert of the program, carried out a thorough presentation of the action already taken by the health specialist personnel (doctor, psycologist, nutritionist). He also pointed out that with the combination of sensors, actuators and integrated communication devices installed at homes, the Municipality provides assisted living to elderly people and people with long terms needs, while users can configure

their set ups, integrate standards according to the services they want to use and fully control their desired level of privacy.

Other Participants and Audience Reached

About 60 people where registered as participants, between them Dr Magda Tsolaki M.D. Neuropsychiatrist, Professor at Aristotle University of Thessaloniki, Chair of Greek Federation of AD, the consul of Norway, city consul members, our specialists Dr Georgios Krikelis, Sonia Haini the nutrionst of VICINITY, citizens of the municipality and people interested in the project.

Feedback to VICINITY on Highlights of the Meeting

Dr Magda Tsolaki made a speech about how the caring for an aging population is one of the major challenges for future healthcare public system and beyond. An important step is fulfilling the need to move from institutional care to assisted living at home environment, in particular for elderly people living alone and people with long-term needs and chronic illness (such as people with hypertension, dementia, and obesity).

Dr Krikelis Georgios analyzed step by step VICINITY and how it supports health promotion with the prevention of diseases, the screening of high risk population group and by promoting integrated local policies and actions in the field of Public Health.

He disseminated the importance of the project and the aid the eldery get by providing them with a direct means of communication with a 24-hours call centre with specialist staff in case assistance is

needed. He explained that the wearable “panic button”, is contacted with a single tap at any time of day with the call centre, so that the owner does not feel unsafe when being alone at home.

Also he commented that it further allows phone calls to be answered from everywhere within the apartment, without the need to run to the phone device to answer risking an accident. In case of emergency, and if the person wearing the necklace falls down, the 24 hours support service is automatically alerted in order to promptly provide first aid (send an ambulance or inform a relative to help). Furthermore, he mentioned that by utilizing sensors from the building and smart homes domain (such as motions sensors, occupancy trackers, pressure mats etc.), more advanced added-value services can be implemented such as triggering alarms when abnormal conditions are detected in the assisted living environment and notifying the elderly person’s relatives.

He closed the speech with a mention of the use case that will target middle-aged people (e.g. citizens with problems such as obesity and hypertension) to use smart wearable sensors and IoT proximity sensors to track their everyday activities and promote a more healthy lifestyle.

He commented that the municipality will be able to collect information and create “municipal-scale” social networking of urban citizens, tracking their fitness ”achievements”, awarding or further triggering them towards specific goals set, based on each individual’s special needs. In addition he mentioned that, as the previous scenario, it will be promoted and assisted by doctors (pathologist or dietician) in collaboration with the municipality health services, services that will further be leveraged through campaigns and organization of municipal-scale contexts.

Photos


ΑΥΤΟΝΟΜΗ ΔΙΑΒΙΩΣΗ ΗΛΙΚΙΩΜΕΝΩΝ
ΠΑΡΟΧΕΣ
Α) Τεχνολογικές εφαρμογές
Συσκευή ανίχνευσης πτώσης / κουμπί πανικού
Ασύρματοι αισθητήρες κίνησης
Ασύρματοι αισθητήρες εισόδου – εξόδου
«Έξυπνο» υπόστρωμα με αισθητήρα πίεσης
Δωρεάν Internet

Additional Annex 19: D.A.R. - IoT Week 2018 Bilbao

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"IoT Week 2018 Bilbao
organised by IoT Forum and IK4-TEKNIKER.
on 4-8 June 2018, in Bilbao, Spain

Author(s):	**ATOS**
Distribution:	**All**
Date:	**22 Jun 2018 (M30)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	Bilbao IoT Week			
Date	04-08 June 2018 (M30)			
Place	Bilbao, Spain			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
	X	Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training		Pitch event
	X	Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	ATOS, CAL, ENERC			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

THE INTERNET OF THINGS WEEK 2018 BILBAO

IoT Week 2018 was held in Bilbao, Spain from 4th until 8th of June 2018.

It is a unique event addressing the latest trends in the IoT domain! The IoT Week gathers the community of stakeholders engaged in developing new Internet of Things (IoT) technologies and solutions. During the IoT Week 2018, the Euskalduna Conference Centre hosted prominent IoT experts, researchers, IoT focused companies, research centres, European research projects, start-ups and international organizations to meet, discuss and identify emerging trends and technologies that will impact the future. The event is co-organized by the IoT Forum and IK4-TEKNIKER.

Description of the participation

- **Atos Stand:** The VICINITY project was exhibited in the ATOS stand in which a rollup and information about the Open call was shown.

Figure 1 Atos' stand with VICINITY Participants

- **Next Generation Internet Workshop": Turning Europe into a Service Platform",** the workshop was organized by The NGI Move project with the main goal of discussing and making proposals about desirable European scenarios in the information technology domain. Some VICINITY representatives participated actively in the workshop.

  ENSO workshop: "Harvesting: A new challenge for powering IoT nodes". The workshop covered three main parts, the first was an introduction of ENSO project, then several use cases were presented and finally, there was a round table where collaboration among projects was discussed. Since ENSO is targeting low layers of IoT nodes, their contribution can be of big help to enhance future functionalities and autonomy of ioT nodes. Moreover, the use cases presented, smart home, smart office and eHealth are relevant for the VICINITY project. In the roundtable, we have the opportunity to present project objectives and the OpenCall as an opportunity and also an instrument to foster collaboration among project and partners contributing to the IoT ecosystem. During the QA time, we also introduced how important is simplify the access to technology creating inclusive and open environments that facilitate the development of services and the inclusion of new IoT infrastructures. Finally, it was also discussed how Communication strategies support the collaboration among projects and how the initiatives launched by the EC like the EC communication booster works and helps to set synergies."

Audience Reached

According to https://internet-of-things.cioreview.com/news/iot-week-2018-bilbao-nid-26645-cid-133.html

The entire week, dedicated to emerging research and innovation in IoT, was a great success. With over 250 speakers, 180 sessions and activities delivered over 4 days, more than 850 participants were able to listen to and interact with IoT experts, industry practitioners and policy makers on a number of IoT

topics, challenges and future trends. This was a unique opportunity for getting involved in activities of a thriving IoT community, making new contacts and identifying collaboration opportunities for future commercial as well as research and innovation undertakings.

Twitter Activity

Figure 2 Twitter Impression

Feedback

Figures

Figure 3 ATOS Stand

Business opportunities identified

Several companies were informed about the Open Call (e.g: Teckniker,ENSO participants ,etc.). It seems that they could be potential participants in the VICINITY Open Call.

Links

https://iotweek.org/

Additional Annex 20: D.A.R. - 4th UVP Technicom Conference

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"Open Expo Madrid
organised by Open Expo Europe
on 6-7 June 2018, in Madrid, Spain

Author(s):	**ATOS**
Distribution:	**All**
Date:	**22 Jun 2018 (M30)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	Open expo			
Date	6/7 June 2018 (M30)			
Place	Madrid, Spain			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training		Pitch event
	X	Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	ATOS			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

OpenExpo Europe is the main professional Fair and Congress about Open Source, Free Software and Open World Economy (Open Data and Open Innovation) in Europe.

Description of the participation

In the ATOS' stand information about VICINITY 1st Open call was shown.

Audience Reached

Figure 4 Open Expo Audience

Twitter

Figure 5 Twitter ATOS Stand

Feedback

Key Issues:

During the event information about the Open Call was provided by ATOS to different companies interested in it.

Leaflets were shown in the ATOS stand

Links

https://openexpoeurope.com/

https://twitter.com/OpenExpoEurope

Additional Annex 21: D.A.R. - pHealth2018

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Presentation poster at

pHealth2018

Organised by NTNU

on June 12/14, 2018, Gjøvik, (NO)

Author:	HITS
Distribution:	All
Date:	June 22, 2018 (M30)
File Name:	**VICINITY_dissemination_report_pHealth2018.pdf**

Event details

Key figures				
Name of event	pHealth 2018			
Date	12 June to 14 June, 2018			
Place	NTNU, Gjøvik, NO			
Type of Activity [7]	X	Organisation of a conference – paper reviews, poster presentation	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training	X	Pitch event
		Social media		Trade fair
		Web-site http://www.phealth2017.eu/		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience[8]	X	Scientific Community (higher education, Research)		Medias
		Industry		Investors
		Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	Europe, North and South America, Asia, Africa			
Partners	HITS [co-organiser pHealth2018], GNOMON (co-organiser pHealth2016)			

Table 1: key figures

[7] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the event

The *pHealth* 2018 Conference was the 15th in a series of scientific events bringing together expertise from medical, technological, political, administrative, and social domains, and even from philosophy or linguistics. It opens a new chapter in the success story of the series of international conferences on wearable or implantable micro and nano technologies for personalized medicine by presenting three keynotes, three invited talks, sixteen oral presentations, and eight short poster presentations from more than 120 authors, coming from 20 countries from all around the world.

Starting in 2003 as a Dissemination Activity in the framework of a European Project on Wearable Micro and Nano Technologies for Personalized Health with personal health management systems, *pHealth* conferences have evolved to truly interdisciplinary and global events. Meanwhile, *pHealth* comprehensively represented in the conference series also covers technological and biomedical facilities, legal, ethical, social, and organizational requirements and impacts as well as necessary basic research for enabling the future proof care paradigms. Thereby, it combines medical services with public health, prevention, social and elderly care, wellness and personal fitness to establish participatory, predictive, personalized, preventive, and effective care settings.

By this way, it has attracted scientists, developers, and practitioners from various technologies, medical and health disciplines, legal affairs, politics, and administration from all over the world. The conference brought together health services vendor and provider institutions, payer organizations, governmental departments, academic institutions, professional bodies, but also patient and citizens representatives.

Smart mobile systems such as microsystems, smart textiles, smart implants, sensor-controlled medical devices, and innovative sensor and actuator principles and techniques as well as related body, local and wide area networks up to Cloud services have become important enablers for telemedicine and ubiquitous pervasive health as the next generation health services. Social media and gamification have added even further knowledge to *pHealth* as an eco-system.

OECD has defined four basic areas to be managed in the new care model: address the big data challenges; foster meaningful innovation; understand and address the potential new risks; and support concerted effort to un-silo communities for a virtual care future. The multilateral benefits of *pHealth* technologies for all stakeholder communities including patients, citizens, health professionals, politicians, healthcare establishments, and companies from the biomedical technology, pharmaceutical, and telecommunications domain gives enormous potential, not only for medical quality improvement and industrial competitiveness, but also for managing health care cost.

The *pHealth* 2018 Conference thankfully benefits from the experience and the lessons learned from the organizing committees of previous *pHealth* events, particularly 2009 in Oslo (NO), 2010 in Berlin (DE), 2011 in Lyon (FR), 2012 in Porto (PT), 2013 in Tallinn (EE), 2014 in Vienna (AT), 2015 in Västerås (SE), 2016 in Heraklion (GR), and 2018 in Eindhoven (NL). The 2009 conference brought up the interesting idea of having special sessions, focusing on a particular topic, and being organised by a mentor/moderator. The Berlin event in 2010 initiated workshops on particular topics prior to the official kick-off of the conference. Lyon in 2011 initiated the launch of so-called dynamic demonstrations allowing the participants to dynamically show software and hardware solutions on the

[8] Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

fly without needing a booth. Implementing pre-conference events, the *pHealth* 2012 in Porto gave attendees a platform for presenting and discussing recent developments and provocative ideas that helped to animate the sessions. Highlight of *pHealth* 2013 in Tallinn was the special session on European projects' success stories, but also presentations on the newest paradigm changes and challenges coming up with Big Data, Analytics, Translational and Nano Medicine, etc. Vienna in 2014 focused on lessons learned from international and national R&D activities and practical solutions, and especially from the new EU Framework Program for Research and Innovation, Horizon 2020. Beside reports about technology transfer support and building ecosystems and value chains to ensure better time to market and higher impact of knowledge-based technologies, the acceptability of solutions, especially considering security and privacy aspects have been presented and deeply discussed. *pHealth* 2015 in Västerås addressed mobile technologies, knowledge-driven applications and computer-assisted decision support, but also apps designed to support elderly as well as chronic patients in their daily and possibly independent living.

Furthermore, fundamental scientific and methodological challenges of adaptive, autonomous, and intelligent *pHealth* approaches, the new role of patients as consumers and active party with growing autonomy and related responsibilities, but also requirements and solutions for mHealth in low- and medium income countries have been considered.

The pHealth2016 conference aimed at the integration of biology and medical data, the deployment mobile technologies through the development of micro-nano-bio smart systems, the emphasis on personalised health, virtual care, precision medicine, big biodata management and analytics. The *pHealth* 2017 event in Eindhoven provided an inventory of the former conferences by summarizing requirements and solutions for *pHealth* systems, highlighting the importance of trust, and newly focuses on behavioral aspects in designing and using *pHealth* systems. A specific aspect addressed was the need for flexible, adaptive and knowledge-based systems as well as decision intelligence.

pHealth 2018, borrowing from good experiences of former events, establishes national and European satellite workshops, so completing the more theoretical consideration of the majority of the papers by organisational and practical experiences.

The Norwegian University of Science and Technology (NTNU) in Gjøvik, Norway, Escio AS, HL7 Norway, and HL7 International, but – following a long-term tradition – also the working groups "Electronic Health Records (EHR)", "Personal Portable Devices (PPD)" and "Security, Safety and Ethics (SSE)" of the European Federation for Medical Informatics (EFMI) have been actively involved in the preparation and realization of the pHealth 2018 Conference.

Description of the participation

Main organisers and participants were

pHealth 2009 Dag.Ausen@sintef.no ; hovsto@online.no ;

pHealth 2010 marc.schurr@novineon.com ;

pHealth 2011 eric.mcadams@insa-lyon.fr

pHealth 2012 filipe.sousa@fraunhofer.pt;

pHealth 2013 lliisa044@gmail.com;

pHealth 2014 sauermann@technikum-wien.at;

pHealth 2015 maria.linden@mdh.se;

pHealth 2018 hovsto@online.no ; simon.mccallum@ntnu.no ; dag.waaler@ntnu.no; bian.yang@ntnu.edu ;EFMI lhotska@fel.cvut.cz;

Multi-annual organisers bernd.blobel@klinik.uni-regensburg.de; phw@idmt.fraunhofer.de ;

Audience reached

pHealth has always been a meeting place also for people working in the practical domain, industry, medical professionals, and more. So having both scientifically outstanding presentations AND practically useful results and achievements of EU projects running or finished, might give *pHealth* its unique flavor.

Feedback

It's a very good suggestion of topics to be included in the *pHealth* Conference, either as tutorial, or special session or keynote speeches. Big Data and analytics combined with decision intelligence could be combined and driven by user and market needs. Molecular technologies and quantum medicine could be labelled as "future pMedicine" in next conferences. Including these topics would also imply the relevant participants and stakeholders e.g. from the users and pharma/medtech industry.

Key figures

Organizational, methodological and technological paradigm changes enable a precise, personalized, predictive, preventive and participative approach to health and social services supported by multiple actors from different domains at diverse level of knowledge and skills. Interoperability has to advance beyond Information and Communication Technologies (ICT) concerns, including the real world business domains and their processes, but also the individual context of all actors involved. The paper introduces and compares personalized health definitions, summarizes requirements and principles for *pHealth* systems, and considers intelligent interoperability. It addresses knowledge representation and harmonization, decision intelligence, and usability as crucial issues in *pHealth*. On this basis, a system-theoretical, ontology-based, policy-driven reference architecture model for open and intelligent pHealth ecosystems and its transformation into an appropriate ICT design and implementation is proposed.

Useful links

Proceedings of the 15th International Conference on Wearable Micro and Nano Technologies for Personalized Health, 12–14 June 2018, Gjøvik, Norway

Vol.249 Studies in Health Technology and Informatics, Publisher: IOS Press, Editor: Bernd Blobel, and Bian Yang, ISSN 0926-9630 (print)

Additional Annex 22: D.A.R. - European Conference on Networks and Communications 2018 (EUCNC)

“

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
“European Conference on Networks and Communications 2018 (EUCNC)”
on 18-21 June 2018, in Ljubljana, Slovenia

Author(s):	OTE
Distribution:	**All**
Date:	**25 June 2018 (M30)**

This project has received funding from the European Union’s Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Dissemination Report

Event Details

Event	European Conference on Networks and Communications 2018			
Date	18-21 June 2018 (M30)			
Place	Ljubljana, Slovenia			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
	X	Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site	X	Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
		Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	EU			
Partners	OTE			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

EuCNC 2018 is the 27th edition of a successful series of technical conferences in the field of telecommunications, sponsored by IEEE ComSoc and EURASIP, and financially supported by the European Commission, focusing on communication networks and systems, and reaching services and applications. It targets to bring together researchers from all over the world to present their latest

research results, being one of the main venues for showcasing, demonstrating and trialling the results of research projects, especially from successive European R&D programmes.

Description of the participation

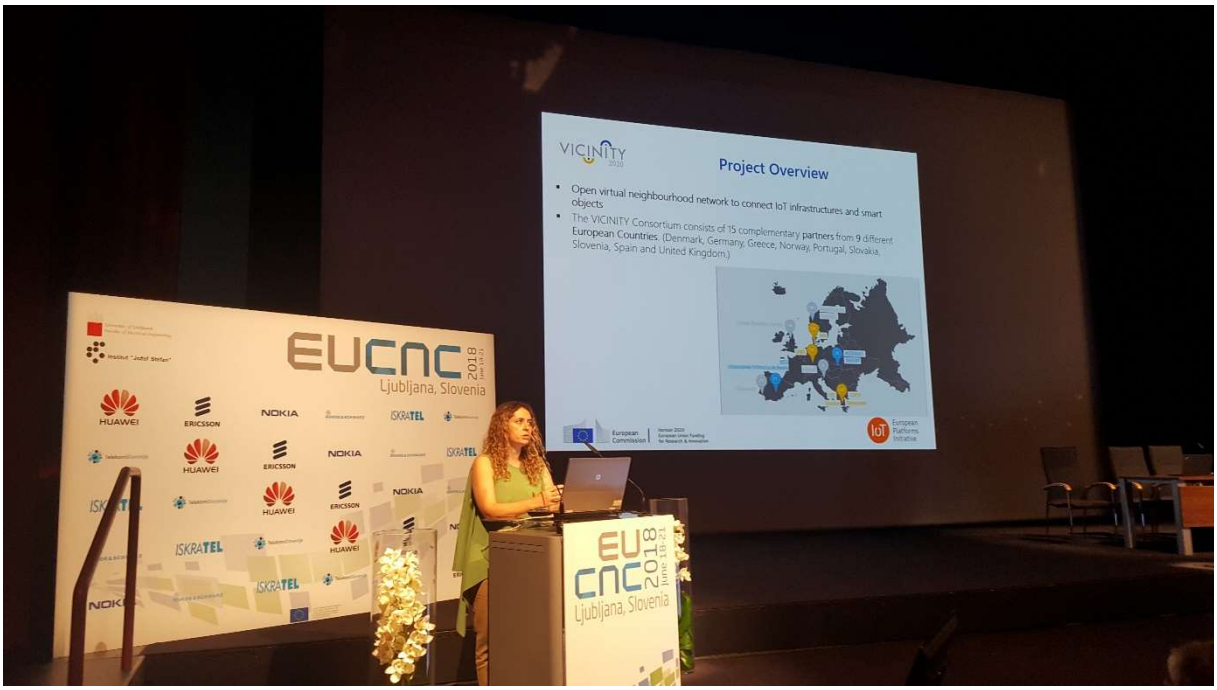
Maria Belesioti participated in EUCNC and presented VICINITY in Special Session 10: "*Small Cells Deployment, Network Functions Virtualisation (NFV) and Cloud Computing as "Enablers" of Innovative 5G Services*"

Interest was shown by several participants/speakers in the VICINITY project.

Audience Reached

EuCNC is an annual conference held in countries across Europe. It focuses on communications systems and networks, reaching applications and services. One of the main goals of this conference is to showcase the results of European R&D projects co-financed by the European Commission. As such a large part of the participants are from industry. EuCNC also targets to bring together researchers from all over the world to present the latest research results in networks and communications and the new developments in this field.

Photos



Links

https://www.eucnc.eu/

https://www.eucnc.eu/special-sessions/special-session-10/

Additional Annex 23: D.A.R. - Arendalsuka 2018

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Pitch Presentation and Smart Parking brochure at

Arendalsuka 2018

Organised by Arendalsuka

on August 12/16, 2018, Arendal, (NO)

Author:	HITS
Distribution:	All
Date:	August 31, 2018 (M31)
File Name:	**VICINITY_dissemination_report_HITS_Arendalsuka2018.pdf**

Event details

Key figures				
Name of event	Arendalsuka 2018			
Date	12 August to 16 August, 2018			
Place	Arendal, Norway			
Type of Activity [9]		Organisation of a conference – paper reviews, poster presentation		Participation to a conference
		Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition	X	Brokerage event
		Flyers training	X	Pitch event
		Social media		Trade fair
		Web-site: http://arendalsuka.no		Participation in activities organised jointly with other H2020 project(s)
	X	Communication campaign (e.g. radio, TV)		Other
Type of Audience[10]	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	Norway, Europe			
Partners	HITS			

Table 2: key figures

[9] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

ARENDALSUKA

Report from participation at Arendalsuka, 12th – 16th August 2017

Scope of the event

Arendalsuka is the main arena in Norway for municipalities, organisations, decision-makers and politicians to meet up to discuss, inform, influence and lobby. This annual event takes place in the very picturesque city of Arendal in mid-August. VICINITY was represented through participation from Hafenstrom. There were conducted meetings and discussions with universities, representatives from municipal healthcare agencies, representatives from the Norwegian Public Road Agency as well as both Norwegian and European agencies focusing on funding research and innovation. Some very interesting meetings did also take place between Telenor (the largest telecom operator in Norway) and several of the partners within IoT, sensor development and deployment. There were also numerous other meetings and conversations with other participants that worked within fields related to mobility and smart cities.

However, it is sufficient to say that VICINITY is receiving a lot of interest. The concept of device agnostic cross-domain communication opens for a number of new value-added services. Almost everybody immediately realized the potential without having it laid out in front of them. One of the most welcome aspects were the support for the upcoming GDPR, with privacy by design as a central element. The most asked questions were related to how to integrate, how to manage the virtual neighbourhood, and how to expand on the value-added services. These are the kind of reactions that tells us that VICINITY offers some very needed functionality to an increasingly complex world.

This year's conference was organized with a whole-day workshop on Smart Cities. The main target related to startups and SMEs was the pitch event. HITS made a pitch on their innovation in roadside sensors and VICINITY project as a killer to reach market exploitation.

[10] Based on template for periodic Reporting:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Description of the participation

VICINITY was represented by Asbjørn Hovstø and Flemming Sveen of HITS.

Work Packages affected by or contributed to the goals were:

- WP9 (Dissemination of Results & Exploitation) was the main focus
- WP7 (On-site Deployment and Pilot Installations) related activities were initiated.
- WP2 (Standardization Analysis and VICINITY platform conformity)
- WP5 (Value-Added Services Implementation)

The meetings and talks were mainly conducted with these organizations. Some of them had several meetings during the period spent in Arendal. Others are omitted because they were not relevant to VICINITY or it was non-committed talks with other interested parties. This was especially the case with ITS related topics:

Audience reached

VICINITY participated in this event since 2015 and the results were considered so promising, that HITS decided to represent VICINITY this year as well. The attendees cover a very wide aspect of the Norwegian society; politics, organisations, general public, universities and various public and private agencies. The main goals this time were to reach out to decision makers and influencers, alongside universities and potential partners within integration, assisted living and mobility.

Additionally, information about the project was distributed by using tri-fold brochures, and open calls were presented to representatives from startups, business region and the University of Agder.

Feedback

The activities that took place at the Arendalsuka was all directly or indirectly tied into tasks and deliverables that are defined in the VICINITY project.

Arendalsuka has been proven to be an arena that is well suited for gathering information about relevant topics, meet up with premise provider and create networks that are relevant for future activities. Arendalsuka offers numerous opportunities to identify the needs of potential stakeholders, to inform relevant media outlets and communication personnel about ongoing activities, as well as getting in touch with influencers from other fields of work.

Key figures

The topics that were discussed in meetings and conversations were directed towards the following main areas:

Domains	Shortcode
Smart mobility (ITS)	M
Smart city	C
Smart energy	E
eHealth	H

Table 3: Main topics discussed under Arendalsuka 2018

About 10 meetings a day were conducted on average, alongside brief conversations and networking.

Proper key figures have not been made available from Arendalsuka 2018. What is already well known, is that it was larger than previous year. To put this in perspective, these are the key figures from Arendalsuka 2015:

Events

Registered events per. August 12: 2017 543.

A rough countdown shows that the total of all events will be approximately 1450 contributors. Here, however, we need to take into consideration that some contributors participate in several events and that the overview Arendalsuka is not necessarily complete.

- More than 200 events are reported as debate.
- About. 80 events are reported as a seminar
- approx. 50 as conversations and
- approx. 50 as a cultural event and approx.
- 50 as lectures.
- In addition, appeals, conferences and workshops have been reported and more.

A preliminary listing shows an increase in the number of events from 2015 to 2016 of approx. 40%.

promoters

All in all, we there are 460 organizers who are behind the 543 events. Many events are a collaboration between several organizers.

In the registration form, the organizers are asked to state the type of organization they belong to.

- About. 130 have stated that they are interest organizations or non-profit organizations.
- About. 60 have stated to be from the public sector
- About. 40 have stated that they are unions
- About. 40 have stated that they are private sector
- About. 50 states to be corporate/enterprises
- about. 10 states to be a political party

In addition, there are many who state that they are more organizers behind an event. It has not been possible to count who this is, which makes it difficult to get a complete overview of types of organizations before the event is terminated.

The main program

Arendalsuka organizes or co-organizes 37 events. These constitute the main program. Most of these are arranged with others parties

Children and adolescents

58 events are aimed specifically at children and youth, and Torvet has become an arena for these events as well as for stands and organizations specifically aimed at children and young people.

Political street

In the political street there are a total of approx. 180 exhibitors distributed on 160 places. Political parties and interest groups constitute the majority of exhibitors. A complete overview of the

Useful links

- www.arendalsuka.no
- https://www.flickr.com/photos/arendalsuka
- https://twitter.com/arendalsuka
- https://twitter.com/hashtag/arendalsuka
- https://www.facebook.com/events/135119917274316/
- https://www.youtube.com/watch?v=qfrEEfnDeks&list=PLYEoEuVdSgAtMD0QB0TiyPyxJHdj0aZjj

Additional Annex 24: D.A.R. - Nordic Edge Expo 2018

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Smart City Stand at
Nordic Edge Expo 2018
Organised by Smarte Byer Norge
on September 25/27, 2018, Stavanger, (NO)

Author:	HITS
Distribution:	All
Date:	October 2, 2018 (M34)
File Name:	**VICINITY_Dissemination_Report_NordicEdgeExpo2018.pdf**

Event details

Key figures				
Name of event	Nordic Edge Expo 2018			
Date	25 September to 27 September, 2017			
Place	Stavanger Forum, Stavanger, Norway			
Type of Activity [11]	X	Organisation of a conference – paper reviews, poster presentation		Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition	X	Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
	X	Web-site http://www.nordicedge.org/		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience[12]	X	Scientific Community (higher education, Research)		Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	Europe			
Partners	HITS, Smarte Byer Norge “Cluster Smart Cities Norway”			

Table 4: key figures

[11] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

[12] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the event

VICINITY was represented in its stand at the Nordic Edge Expo 2017, 25. – 27. September. Nordic Edge is a spin-off of the Horizon 2020 funded project Triangulum, and is a 3 day event that consists of a conference and expo, in addition to smart city safaris and networking opportunities. Nordic Edge has grown to become the largest annual smart city event in the Nordics, and takes place in Stavanger, Norway. The main focus is smart cities and address both municipalities, innovators and other European participants. More than 100 speakers were represented at the conference part, while more than 4 800 visitors were registered at the exhibition.

Description of the participation

The Norwegian division of VICINITY is part of a network/cluster called "Smart City Norway". We were one of two projects that were presented at the stand. It is not possible to estimate the number of people that were actively visiting the stand, but conservative estimates would indicate more than 200 persons discussed with participants at the stand and either picked up brochures, requested more information or expressed interest in follow-up meetings.

Main organisers and participants were

- Gard Jenssen (gard@smartebyernorge.no)
- Terje Christensen (terje@smartebyernorge.no)
- Carsten Lehbrink (carsten@greenflow.no)
- Flemming Sveen (flsveen@online.no)

Audience reached

The first day it was only the exhibition was open to the public, and this gave us extra room for presenting the potential of the project. The two next days were when the actual conference took part. The media was well represented, and one of the local newspapers ran a series of articles on the exhibition.

A number of visitors paid attention to the VICINITY stand. Only a portion of it is displayed in this picture. The videos displayed on the monitor described VICINITY and its main domains, in addition to how it relates to other Horizon 2020 IoT EPI projects.

Almost all brochures (tri-fold) were distributed, and in-depth discussions were conducted with 7 municipalities with the intention of following up afterwards. Several companies were interested in learning more about the project and the open calls.

Feedback

The feedback has been very positive, and we regard the impact on the target audience as being substantial. We aim to present VICINITY2020 on next year's expo as well with the goal to enter into more strategic alliances in efforts to open for the exploitation potential of the project.

Key figures

Useful links

Nordic Edge Expo homepage: https://www.nordicedge.org
Nordic Edge Expo on Wiki: https://en.wikipedia.org/wiki/Nordic_Edge_Expo
Nordic Edge Expo on LinkedIn: https://ph.linkedin.com/company/nordic-edge-expo
Nordic Edge Expo on Facebook: https://nb-no.facebook.com/nordicedgeexpo/
Nordic Edge Expo on Twitter: https://twitter.com/nordicedgeexpo

Hasthtag: #NordicEdge2018 - https://twitter.com/hashtag/NordicEdge2018?src=hash
Hashtag: #NordicEdge - https://twitter.com/hashtag/NordicEdge?src=hash
Hashtag: #nordic-edge - https://twitter.com/hashtag/nordic-edge?src=hash
Nordic Edge Expo on Eurocities.eu: http://eurocities.eu/eurocities/allcontent/Cities-to-put-the-heart-in-smart-Nordic-Edge-Expo-WSPO-AY6EBC

Additional Annex 25: D.A.R. - SC27 Working Group meeting

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at the SC27 Working Group meeting Organised by ISO/IEC JTC1 on September 30/October 4, 2018, Gjøvik, (NO)

Author:	HITS
Distribution:	All
Date:	October 22, 2018 (M34)
File Name:	**VICINITY_dissemination_report_SC27_October2018.pdf**

Author(s): **HITS**
Distribution: **All**
Date: **22 October 2018 (M34)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event details

Key figures				
Name of event	SC27 WG-meeting #31, 2018			
Date	30 September to 4 October, 2018			
Place	NTNU, Gjøvik, Norway			
Type of Activity [13]		Organisation of a conference – paper reviews, poster presentation	X	Participation to a conference
		Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site https://www.iso.org/committee/45306.html		Participation in activities organised jointly with other H2020 project(s)
	X	Communication campaign (e.g. radio, TV), by regional broadcasting TV and press media	X	Other (global standardisation)
Type of Audience[14]		Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
	X	Civil Society		Customers
		General Public		Other
	X	Policy makers		
Countries addressed	Europe, America, Asia, Africa, Oceania			
Partners	HITS [owner Portahead is partipating member of SC27 through Standard Norway]			

Table 5: key figures

[13] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

[14] Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the event

SC27 has the responsibility for development of standards for the protection of information and ICT. This includes generic methods, techniques and guidelines to address both security and privacy aspects, such as:

- Security requirements capture methodology;
- Management of information and ICT security; in particular information security management systems, security processes, and security controls and services;
- Cryptographic and other security mechanisms, including but not limited to mechanisms for protecting the accountability, availability, integrity and confidentiality of information;
- Security management support documentation including terminology, guidelines as well as procedures for the registration of security components;
- Security aspects of identity management, biometrics and privacy;
- Conformance assessment, accreditation and auditing requirements in the area of information security management systems;
- Security evaluation criteria and methodology.

SC 27 engages in active liaison and collaboration with appropriate bodies to ensure the proper development and application of SC 27 standards and technical reports in relevant areas

Description of the participation

Main organisers ISO/IEC JTC1/SC27 and participants from Malaysia, Korea, Japan, Belgium, Poland, United States, Spain, Germany, Sweden, Norway, France, United Kingdom, Australia, New Zealand, Mexico, Austria, China, Italy, Luxembourg, Canada, Singapore, India, Ireland, Argentina, Finland, South Africa, Switzerland

Liaison organisations were ISF, Cloud Security Alliance, ISC2, OECD, ISACA, ITU, ISF

Audience reached

The audience for SC27 is the 77 participating and observing member countries and 30 liaison organisations

Feedback

At the final plenary meeting of SC27 the following Resolutions were given by consent (to be published). The Recommendations numbers will be available when the SC27 meeting report is published by ISO/IEC JTC1/SC27.

The consented Recommendations were:

<to be included from Plenary Report>

This meeting (SC27) was larger than we had expected before with more than 330 participants in a tiny small city Gjøvik, Norway. Security, privacy and IoT are generating much interest from governments and industries. Security management is a key topic for governments. Experts from governments were present to steer the course of discussions in this area.

Israel will be hosting next meeting in Tel Aviv from 1st April, 2019. For VICINITY, a future measure of success is “Will the project have any influence on the future of IoT in communities throughout the world?”.

IoT was previously covered by JTC1 committee WG10. In JTC1 Plenary in November, 2016, it was decided to establish a new SC 41 to cover IoT and related technologies. Later, it was decided to move the secretariat to IEC. Most of ISO members have no access to IEC committees. Therefore, it is even more important to participate in the IoT related activities in SC27 addressing Trustworthiness (Security, Privacy and more).

We represented VICINITY to core members of WG4 Security controls and Services in this meeting in Gjøvik, Norway. VICINITY partners contributed to Trustworthiness of IoT and also the New Work Item Security

Reference Model for Interoperable Internet Platforms (IIP). Also, it was proposed to establish a Study Period for Smart Home Security. During the meeting, it was decided to rename the title to Security & Privacy for Domotics. Terms of Reference and proposal for a New Work Item was proposed during the meeting, initiated from China, having millions of Smart Home installations already. VICINITY should make a proposal to address the IIP based on best practices from their pilots and from the dissemination of results.

Source:	27 错误!未找到引用源。 meeting of ISO/IEC JTC 1/SC 27/WG 4 and related Comment Resolution Meetings (CRM), held 错误!未找到引用源。4, Gjøvik, Norway

Minutes

Project/Product:	ISO/IEC 27030 – Security Techniques – Guidelines for security and privacy in Internet of Things (IoT)
Current stage:	Working Draft 1
Next stage:	Working Draft 2
Attendees:	CA, US, DE, JP, FR, UK, NO

During this meeting, we held the first editing session of ISO/IEC 27030. In this meeting, the majority of comments were about structure and approach to the project. We believe that many of the major aspects of structure have been identified and will result in content to complete these sessions in the next revision. This includes tracking ISO/IEC 27002 for control definitions to ensure our format for controls being identified meet align.
It was discussed at many points during the editing session that we must align to ISO/IEC 30141 and the Reference Architecture developed. As a result, we want to ensure the elements of the RA are considered in ISO/IEC 27030 and the necessary controls are identified and developed.
We will be starting a new SP on IoT Controls with the goal of determine what is the minimum set of IoT controls required for an IoT device regardless of sector. This is a six-month study period and will lead to recommendations or outputs that might be included additional controls in 27030 or a new separate project.
FOCUS OF COMMENTS AND DISCUSSIONS:

- Structure of Controls to ensure alignment to ISO/IEC 27002
- Ensure that privacy controls are accounted for and also align from a structure perspective
- Align risk-based approach from ISO/IEC 27034 into the risk and control development for the IoT solution
- Integrate provide content from experts

WG Resolution 9: Future meeting schedule

ISO/IEC JTC 1/SC 27/WG 4 agrees to the following meeting arrangements.

Date		Meeting	Location
From	Until		
2019-01-08 21:00 UTC	2019-01-08 23:00 UTC	Study period on Security Reference Model for Industrial Internet Platform (SRM-IIP)	Virtual (Zoom)
2019-01-11 5:00 UTC	2019-01-11 7:00 UTC	ISO/IEC 1st WD 27045, Information technology – Big data security and privacy – Processes	Virtual (Zoom)
2019-01-17 13:00 UTC	2019-01-17 15:00 UTC	Study period on Security and privacy for IoT-Domotics	Virtual (Zoom)
2019-01-23 13:00 UTC	2019-01-23 15:00 UTC	Study period on Network virtualization security	Virtual (Zoom)
2019-01-24 5:00 UTC	2019-01-24 7:00 UTC	Study period on Big data security and privacy – Guidelines for implementation	Virtual (Zoom)
2019-02-12 13:00 UTC	2019-02-12 15:00UTC	Review of need for document on End-user Remedial System Updating (UK)	Virtual (Zoom)
2019-03-04 13:00 UTC	2019-03-04 15:00 UTC	Study period on Security Reference Model for Industrial Internet Platform (SRM-IIP)	Virtual (Zoom)
2019-03-05 13:00 UTC	2019-03-05 15:00 UTC	Study period on Big data security and privacy – Guidelines for implementation	Virtual (Zoom)
2019-03-07 5:00 UTC	2019-03-07 7:00 UTC	Study period on Security and privacy for IoT-Domotics	Virtual (Zoom)
2019-04-01	2019-04-05	ISO/IEC JTC 1/SC 27/WG 4	Tel-Aviv, Israel (TBC)
2019-04-08	2019-04-09	ISO/IEC JTC 1/SC 27	Tel-Aviv, Israel (TBC)
2019-10-14	2019-10-18	ISO/IEC JTC 1/SC 27/WG 4	Paris, France
TBC	TBC	ISO/IEC JTC 1/SC 27/WG 4	Malaysia (TBC)
TBC	TBC	ISO/IEC JTC 1/SC 27	Malaysia (TBC)

Study periods

WG Resolution 15: New study periods

ISO/IEC JTC 1/SC 27/WG 4 resolves to start the following study periods for the periods as indicated.

WG 4 instructs the editors to draft a **Terms of Reference** (ToR), to be provided by no later than the dates indicated in WG Resolution 7.

WG 4 requests its Management Team to distribute a **Call for Contributions** (CfC) to experts, member bodies and liaisons.

Document	Topic/Area of study	Period
Report	Network Virtualization Security Rapporteur: Xiangjun Li (CN), Qin Qiu (CN)	12 Months
ToR		
CfC		
Report	IoT devices Security and/or Privacy baseline controls Rapporteurs: Koji Nakao (JP), Asbjørn Hovstø (NO), Mahmoud Ghaddar (FR), Laura Lindsay (US)	6 Months
ToR		
CfC		

Proposal

Establish a 6-month Study Period on IoT devices Security and/or Privacy baseline controls

2. Motivation and Scope

As there is an increasing number of reports from government and other organizations recommending legislation and regulations for security and/or privacy baseline controls for IoT devices, there is a desire to drive harmonization around the commonalities of these baseline controls. While work is beginning on the security and privacy of IoT, there is still a large landscape to cover relating to connected devices.

1. Identify the commonalties in various global security and/or baseline reports, proposed legislation and draft recommendations.
2. Identify additional controls needed in the area of connected devices and IoT security and/or privacy
3. Examine the existing IoT security and privacy work in ISO/IEC JTC 1/SC 27, ISO/IEC JTC 1/SC 41 and ISO PC 317 to avoid duplication.

3. Activities

The Study Period is requested to:
1) Consider the relationship of ISO/IEC 27030's scope to this Study Period;
2) Collect information from SC27 experts on relevant reports, draft legislation, regulations and existing work on IoT Security and privacy baselines and controls;
3) Invite other National Bodies, Liaisons Organizations and other JTC1 SCs concerned by the subject to submit suggested topics and/or feedback;
4) Ensure representation from all SC 27 WGs, especially SWG-T, as required, to participate in the study;
5) Consider what the scope of baseline controls should be;
6) Consider effects of pre and post market requirements;
7) Hold e-meetings to flush out ideas, issues, and critical success factors.

4. Deliverables

a. Report and recommendations
b. If appropriate, text for security baseline and controls for IoT devices
c. If appropriate, provide contribution to ISO/IEC 27030
d. If appropriate, NWIP and Draft document

Rappatours: Mahmoud Ghaddar (MA), Laura Lindsay (US), Asbjom Hovsto (Norway)

WG Resolution 17: Interim study period reports

ISO/IEC JTC 1/SC 27/WG 4 instructs the rapporteurs of the following study periods to submit an interim report and updated **Terms of Reference** (ToR) (if applicable) by no later than the dates indicated in WG Resolution 7.

WG 4 requests its Management Team to distribute a further **Call for Contributions** (CfC) to experts, member bodies and liaisons.

Document	Topic/Area of study	Period
Report	Security Reference Model for Industrial Internet Platform (SRM-IIP)	12 months
ToR		
CfC		
Report	Provenance Model for Information Security Attribution and Accountability	12 months
ToR		
CfC		
Report	Security and privacy for IoT-Domotics	12 months
ToR		
CfC		

For details see documents:

- SC27-WG4_N2918 on IoT-domotics 5 use cases for Home entertainment, Electrical appliance control, Home security system, Healthcare service, Energy Management. Other use cases are prepared like Community smart parking system provided by Norway delegation
- Systematic review of 15945:2002 – Specification of TTP services to support the application of digital signatures lead by Norway from the year 1999

WG 4 requests SC 27 for delegation of authority to progress the projects to **Committee Draft** (CD), if necessary and applicable, at the next meeting of WG 4.

Document		Reference	Title
Type	**Stage**		
DoC	1st WD	27030	Information technology – Security techniques – Guidelines for security and privacy in Internet of Things (IoT)
Report			
Text	2nd WD		
DoC	4th WD	27031	Information technology – Security techniques – Guidelines for ICT readiness for business continuity
Report			
Text	5th WD		
DoC	NP	27032	Information technology – Cybersecurity – Guidelines for Internet security
Report			
Text	1st WD		
DoC	NP	27045	Information technology – Big data security and privacy – Processes
Report			
Text	1st WD		
DoC	3rd WD	27050-4	Information technology – Electronic discovery – Part 4: Technical readiness
Report			
Text	4th WD		
DoC	2nd WD	27070	Information technology – Security techniques – Security requirements for virtualized roots of trust
Report			

Key figures

The ISO/IEC is the global standardisation organisation for ICT and equipment. Most of the worlds' countries are member of the ISO/IEC. SC27 has 52 participating national members and 25 observing national members. SC27 has published more than 200 ISO standards and are currently working on 70 new standards.

Useful links

Useful links to be included
http://www.standard.no/fagomrader/ikt/it-sikkerhet/
https://www.iso.org/committee/45306.html

Additional Annex 26: D.A.R. - The journal of the municipality of Pilea-Hortiatis

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project at the journal of the municipality of Pilea- Hortiatis
"We have news"
in the issue of October 2018, in Thessaloniki, Greece

Author(s): **Myrto Tsirogianni**
Distribution: **All**
Date: **October 2018**

Event Details

Event	Article about the VICINITY project			
Date	October 2018			
Place	Thessaloniki, Greece			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
		Organisation of a workshop		Participation to a workshop
	X	Press release		Participation to an event other than a conference or workshop
	X	Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
	X	Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)	X	Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
	X	Civil Society	X	Customers
	X	General Public	X	Other
	X	Policy makers		
Countries addressed	Greece			
Partners	Municipality of Pilea- Hortiatis			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

The main case was to inform the residents of the municipality about the actions of the VICINITY project and demonstrate how sensors, actuators and integrated communication devices installed at home can provide assisted living at home environment. In order to present it, we visited the first eldery woman who had all of the devices installed in her house, Ms Aggeliki, and outlined the significance of the panic button and the sensors in her daily life.

Description of the participation

The VICINITY project was presented through an article in the monthly journal of the Municipality of Pilea- Hortiatis, pointing out the new municipal structure that aims at prevention, health promotion, mobilization and orientation in health facilities. The visit to Ms Aggeliki's home, was the ideal way to

describe to the citizens how stress- free her life has become, due to the security the installations are offering her.

The main case were the "panic button", the sensors and the smart appliances that made Ms Aggeliki feel more comfortable in her own home, while providing information that would allow the evaluation and monitoring of the citizens' health status. Also, the importance of the project and the aid the eldery get, were highlighted by describing how they are provided with a direct means of communication with a 24-hours call centre with specialist staff in case assistance is needed.

Audience Reached

The actions of the VICINITY project were known to about 70.000 residents and monthly readers, through the free distribution of the municipality's journal.

Feedback

Through the article about the VICINITY project, the Municipality of Pilea- Hortiatis demonstrated to the public how sensors, actuators and integrated communication devices installed at home can provide assisted living to elderly people and people with long-terms needs. Additionally, it was pointed out the importance of the specialized staff provided to the eldery, and also the free prescriptions the doctor is able to write to his patients, regardless of the health insurance capacity they have.

Photos

Ms Aggeliki – VICINITY APPLIANCES – SMART FRIDGE, SMART OVEN

Useful Links

Journal Link:

https://www.pilea-hortiatis.gr/web/guest/ournewspaper/documents/get_file/31566/NEA%CE%A4_27_lowRes.pdf

Additional Annex 27: D.A.R. - 21st International Conference on Knowledge Engineering and Knowledge Management, EKAW2018

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Organization of the of the VICINITY project at the
"Catching up with ontological engineering: To git-commit and beyond (With VICINITY use cases)" and paper presentation **"Requirements behaviour analysis for ontology testing"**

at the 21st International Conference on Knowledge Engineering and Knowledge Management, EKAW2018
12 November 2018, Nancy, France

Author(s):	María Poveda-Villalón **(UPM)**, Alba Fernández-Izquierdo **(UPM)**
Distribution:	**All**
Date:	**22 November 2018**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Events	• Catching up with ontological engineering: To git-commit and beyond (With VICINITY use cases) • Main conference			
Date	12 November 2018 (M35)			
Place	615 rue du Jardin Botanique, 54602 Villers-lès-Nancy			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
	X	Organisation of a workshop		Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
		Civil Society		Customers
		General Public		Other
		Policy makers		
Countries addressed	All			
Partners	UPM			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Summary/Headlines

The 21st International Conference on Knowledge Engineering and Knowledge Management (EKAW2018) took place at INRIA premises at Nancy, France. The conference gathered together numerous stakeholders in semantic technologies with a focus on research but also industry partners. The specific background of attendants ranged from IoT or stream data to food or education domains.

The conference hosted both sessions for presenting research papers and co-located events such as workshops and tutorials. The tutorial "Catching up with ontological engineering: To git-commit and beyond (With VICINITY use cases)" proposed by UPM was accepted to be co-located together with the conference.

The tutorial material is available at https://tutorials.oeg-upm.net/ekaw2018/

The scope of the event was semantic technologies and methodologies.

In addition, a paper entitled "Requirements behaviour analysis for ontology testing" authored by Alba Fernández Izquierdo y Raúl García Castro was presented in the main conference.

Participation from VICINITY

María Poveda Villalón, Alba Fernández Izquierdo and **Ahmad Alobaid**, Ontology Engineering Group (OEG), Universidad Politécnica de Madrid conducted a half-day tutorial on ontological engineering based on the resources and methodology developed in the VICINITY project.

The tutorial consisted on four sessions in which the methodology and the ontologies developed in VICINITY were shown as examples and resources to be adopted in other projects by the community.

During the main session the paper "Requirements behaviour analysis for ontology testing" was presented by **Alba Fernández Izquierdo**. This paper presents a testing framework for validating the ontologies through the ontological requirements identified by domain experts. This testing framework was evaluated using the resources and methodology developed in VICINITY.

Other Participants and Audience Reached

Approximately 11 participants, mainly from Europe, Japan and Russia during the tutorial.

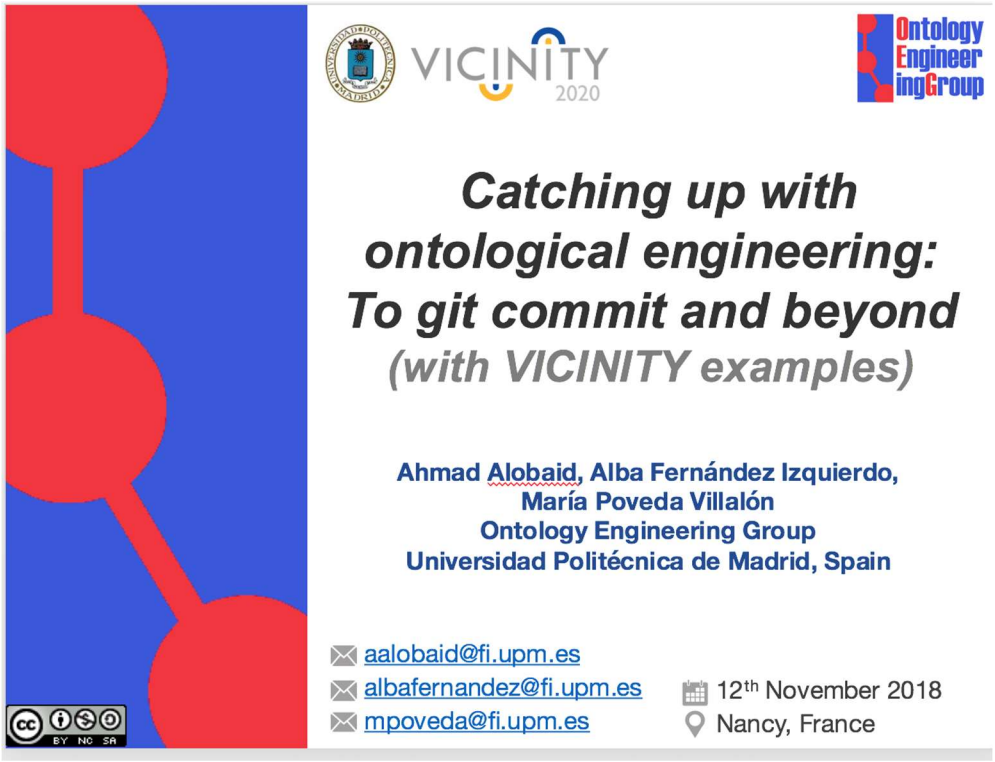
Approximately 100 participants, mainly from Europe during the main conference.

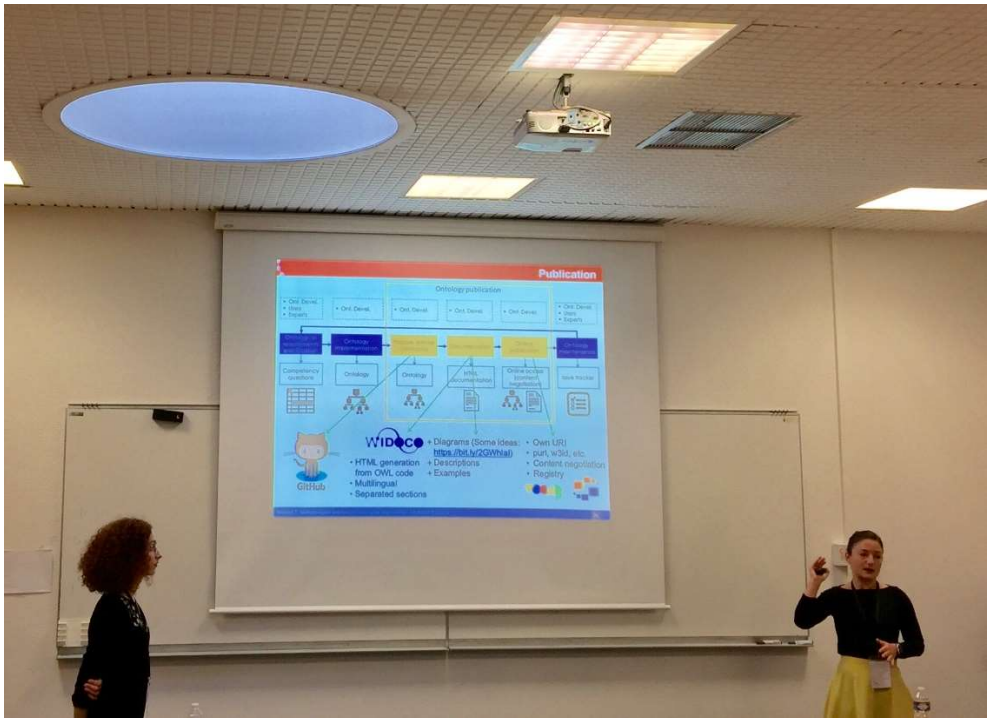
Feedback to VICINITY on Highlights of the Meeting

The participants mostly agreed on the usefulness of the methodology and resources generated in VICINITY for building ontology networks and that the approach could be transposed to other domains.

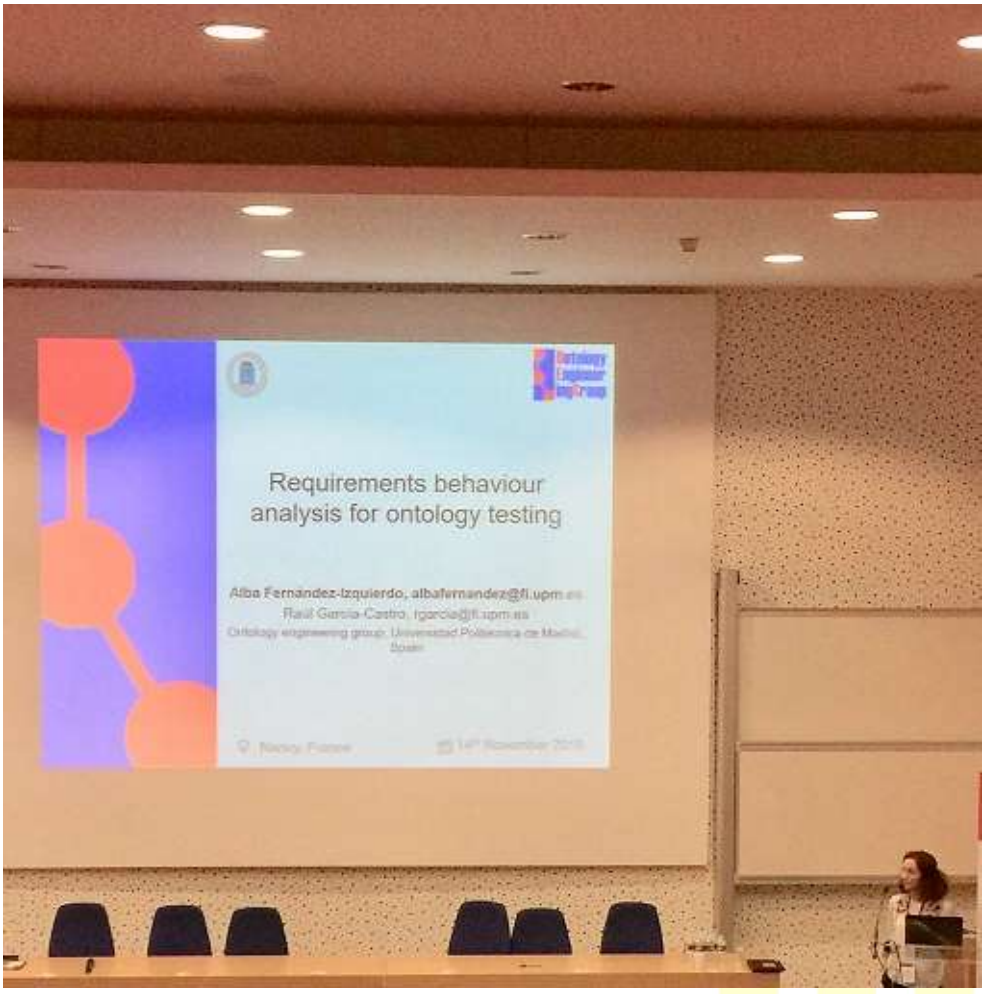
It was also commented the need for a system to reproduce the ontology development in close environments in which ontologies are not publicly available, for example private ontologies for a costumer.

Photos


VICINITY 2020
Ontology Engineering Group
Catching up with ontological engineering: To git commit and beyond
(with VICINITY examples)
Ahmad Alobaid, Alba Fernández Izquierdo, María Poveda Villalón
Ontology Engineering Group
Universidad Politécnica de Madrid, Spain
aalobaid@fi.upm.es
albafernandez@fi.upm.es
mpoveda@fi.upm.es
12th November 2018
Nancy, France


Publication
WIDOCO
GitHub


OnToology and
Relevant Tools


Requirements behaviour
analysis for ontology testing
Alba Fernandez-Izquierdo, albafernandez@fi.upm.es
Raul Garcia-Castro, rgarcia@fi.upm.es

Useful Links

Conference: https://project.inria.fr/ekaw2018/

Tutorial website: https://tutorials.oeg-upm.net/ekaw2018/

Paper: https://link.springer.com/chapter/10.1007/978-3-030-03667-6_8

Additional Annex 28: D.A.R. - Madrid Engineering Week

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"Madrid Engineering Week"
organised by BEST Madrid Carlos III.
on 14 November 2018, in Madrid, Spain

Author(s):	**ATOS**
Distribution:	**All**
Date:	**14 Nov 2018 (M35)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	Madrid Engineering week			
Date	14 November 2018 (M35)			
Place	Leganés Madrid, Spain			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
	X	Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
	X	Exhibition		Brokerage event
		Flyers training		Pitch event
	X	Social media		Trade fair
		Web-site		Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
		Industry		Investors
		Civil Society		Customers
		General Public		Other
		Policy makers		
Countries addressed	Spain			
Partners	ATOS			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

The Madrid Engineering Week 2018 is an event that took place from the 12th to the 16th of November in Leganés, at Universidad Calos III de Madrid. During this week students had the opportunity to attend to different technical talks about new technologies, participate on the biggest engineering competition in Europe (EBEC), make contacts with the business world in our cocktail networking or visit the facilities of some companies. #MEW18

Find out more on our website: mew.bestuc3m.es

Contact email: contacto@mew.bestuc3m.es

Description of the participation

- **Atos Workshop:**

Atos organized a workshop to present two Horizon 2020 Projects

- Symbiote
- VICINITY

VICINITY main objective was to introduce to developers the available alternatives in VICINITY to be involved in the project. The VICINITY catalogue, the GITHUB and the Second open call outline was presented.

Agenda

- Introduction Atos Research & Innovation 11:00-11:10
  - *Carmen Perea ARI Business Consultant*
- VICINITY from a technical point of view 11:10-11:25
  - *José Gato Heaf of Internet of Everything Lab*
- VICINITY Use Cases . Open call. 11:25-11:40
  - *Carmen Perea ARI Business Consultant*
- Symbiote in a nutshell 11:40-11:50
  - *Lara López ARI Business Consultant*
- Symbiote from a techncial point of view 11:50-12:10
  - *José Antonio Sánchez Tech responsible*
- Workshop 12:10-13:00

VICINITY Technical Overview Presentation

Jose Gato (Head of the Internet of everything Lab) presents the VICINITY project from a technical point of view. The following main concepts were explained

VICINITY Technical challenges

A technical overview.

Become part of VICINTIY

GitHub

After this Carmen Perea explained the VICINITY Use Cases

VICINITY Consortium

VICINITY Use Cases

VICINITY Develop with us

VICINITY Catalogue

VICINITY Second Open Call

Audience Reached

Around 25 students.

Twitter Activity

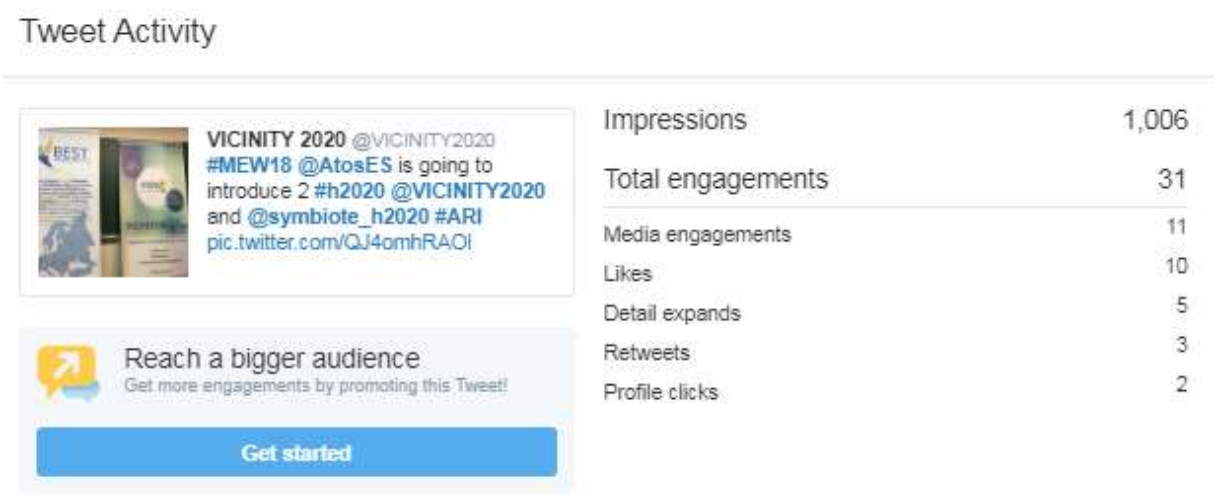


Figure 6 Twitter Impression

Feedback

Students were very interested about the Open Call, they asked for potential ways of participation.

Figures

Figure 7 Introduction of ATOS workshop

Figure 8 Jose Gato explained the VICINITY GitHub

Figure 9 symbIoTe and VICINITY brochure

Business opportunities identified

Several students were informed about the Second VICINTY Open Call. It seems that they could be potential participants in the VICINITY Open Call , participation could come from two sources, from some department from the University from Students' startpus.

VICINITY Github was presented and developers were encouraged to use it.

Links

https://best.eu.org/event/localDetails.jsp?event=i126hx9

Additional Annex 29: D.A.R. - 4th UVP Technicom Conference

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
"IoT Meetup"
organised by Symbiote Project and VICINITY.
on 14 November 2018, in Madrid, Spain

Author(s):	**ATOS**
Distribution:	**All**
Date:	**14 Nov 2018 (M35)**

This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	Iot Meetup			
Date	14 November 2018 (M35)			
Place	Madrid, Spain			
Type of Activity (*)		Organisation of a Conference		Participation to a conference
	X	Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training	X	Pitch event
	X	Social media		Trade fair
		Web-site	X	Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)		Medias
	X	Industry		Investors
	X	Civil Society	X	Customers
		General Public	X	Other
		Policy makers		
Countries addressed	EU			
Partners	ATOS, UPM			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

Iot Meetup Madrid was an open event where different stakeholders, from different backgrounds met to talk about IoT. Participants in two Horizon 2020 projects (symbIoTe and VICINITY 2020) explained their experiences to the public.

IoT has been a booming market in the last years, where many technologies and providers have arisen. However, it has ended in a lack of interoperability between the different solutions what blocks small

business to access to different market, resources and data. symbIoTe and VICINITY aim to bridge the interoperability gap offering solutions for different stakeholders.

IoT Meetup Madrid
IoT has been a booming market in the last years, where many technologies and providers have arisen. However, it has ended in a lack of interoperabi...
eventbrite.com

Description of the participation

Agenda:

19:30 Welcome (5')

19:35 Project presentations (30' – 15' each)

20:05 Pitches - How interoperable platforms support business development (30')

20:35 Networking (and cocktail)

The workshop is oriented to kind of stakeholders: IoT platform providers, app developers, sensors' providers, etc. who aim to build an open, interoperable and secure IoT while keeping the ownership of the data exchanged. Any other type of attendee is also more than welcome.

SymbIoTe's team presented a project introduction and some pitches provided by the Second Open Call winners ModoSmart and University of Cyprus.

VICINITY contributed with 2 presentations:

- VICINITY overview and use cases presented by ATOS.

This talk provided an overview about the VICINITY platform. It was explained how developers can actively participate with VICINITY through the VICINITY Github and the Open Call.

- Semantic interoperability in VICINITY presented by Andrea Cimmino UPM

This talk presented an overview of the platform VICINITY and how the Semantic Interoperability was address and implemented in this platform. The main concepts, strategies, and several examples of this implementation are introduced during the presentation

Audience Reached

SMEs, Universities, Large Companies.

Twitter Activity

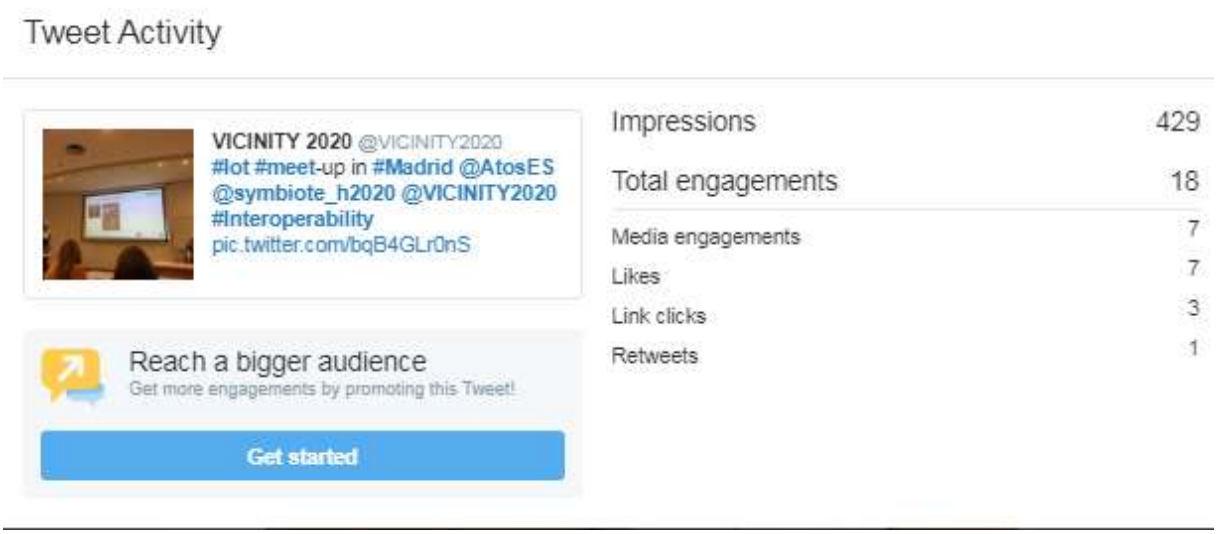


Figure 10 Twitter Impression

Feedback

Participants were very interested in the VICINITY Second Open Call. Also, some industrial organizations showed their interest in the VICINITY platform.

Figures

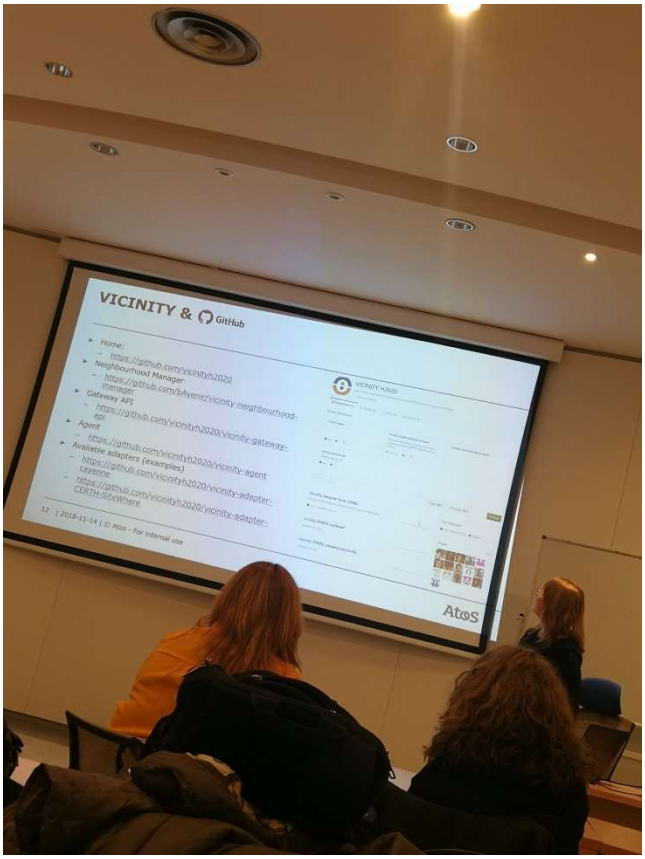


Figure 11 Carmen Perea(ATOS) presenting VICINITY Github during the IoT Meetup

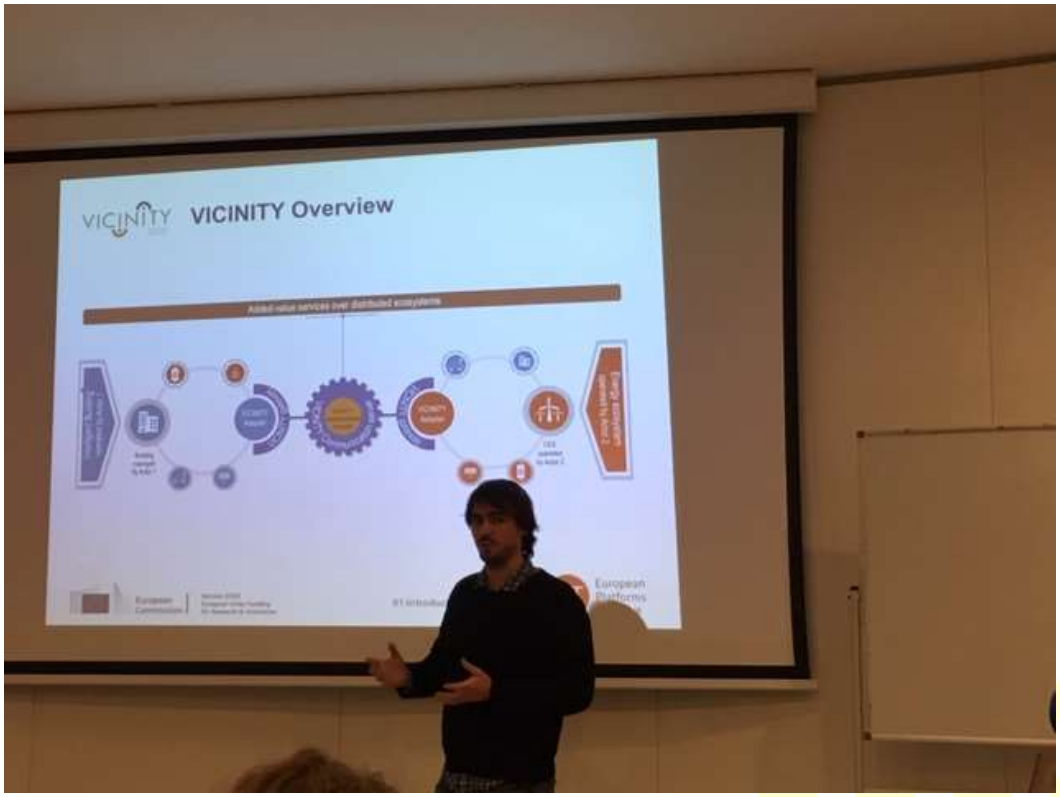


Figure 12 Andrea Cimino(UPM) providing a VICINITY overview

Business opportunities identified

VICINITY Github was presented and developers were encouraged to use it.

The Second Open call was introduced.

The interconnection of the SymbIoTe and VICINITY platforms would be valuable.

Additional Annex 30: D.A.R. - 20th InfoCom World, New Horizons: The Techonomy of Gigabit Era!

“

Project Acronym:	**VICINITY**
Project Full Title:	**Open virtual neighbourhood network to connect intelligent buildings and smart objects**
Grant Agreement:	**688467**
Project Duration:	**48 months (01/01/2016 - 31/12/2019)**

Dissemination Activities Report

Participation of the VICINITY project in
“20th InfoCom World, New Horizons: The Techonomy of Gigabit Era!”
on 21 November 2018, in Athens, Greece

Author(s):	OTE
Distribution:	**All**
Date:	**21 November 2018 (M35)**

This project has received funding from the European Union’s Horizon 2020 Research and innovation programme under Grant Agreement n°688467

Event Details

Event	20th InfoCom World "New Horizons: The Techonomy of Gigabit Era!"			
Date	21 November 2018 (M35)			
Place	Athens, Greece			
Type of Activity (*)		Organisation of a Conference	X	Participation to a conference
	X	Organisation of a workshop	X	Participation to a workshop
		Press release		Participation to an event other than a conference or workshop
		Non-scientific and non-peer reviewed publications (popularised publications)		Video/film
		Exhibition		Brokerage event
		Flyers training		Pitch event
		Social media		Trade fair
		Web-site	X	Participation in activities organised jointly with other H2020 project(s)
		Communication campaign (e.g. radio, TV)		Other
Type of Audience (*)	X	Scientific Community (higher education, Research)	X	Medias
	X	Industry	X	Investors
		Civil Society		Customers
	X	General Public		Other
	X	Policy makers		
Countries addressed	EU,			
Partners	OTE			

(*) Based on template for periodic Reporting: http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf

Scope of the Event

InfoCom World 2018 is the 20th edition of a successful series of conferences aimed to highlight the developments that marked the Greek telecoms industry in the last 20 years, starting from 1998, when the 1st InfoCom World took place, under the title "New Horizons. Twenty years later, this industry is still one of the most dynamic ones, both in Greece and globally, in fact acting as a catalyst for almost every industry: manufacturing, banking, health, security, education, food service, transportation & logistics, retail, etc. At the same time, this year's Conference hoped to be a staging area for the new

age, to highlight opportunities and set the beat of the day after, with comments by executives who represented the industry's future!

The entire business community participates in InfoCom World: Executives of Telecommunications, IT & Media, CEOs, CIOs and IT Directors, Operation Managers, Data Center & Cloud Experts, Network Engineers, IT Strategists & Solution Architects, Manufacturers and Suppliers of Technological Equipment and Consumer Electronics. Practically, the Conference is relevant to all sectors, given that ICT is involved horizontally, directly or indirectly, to all industries.

Description of the participation

OTE organised a dedicated parallel session for European R&D projects. Mrs Eirini Vassilaki and Ioannis Chochliouros (as organiser) participated and presented VICINITY in Session C.

Interest was shown in the VICINITY project, by several participants/speakers.

Audience Reached

This year's conference put together prominent speakers, both from the national and global technology industries, as well as Greeks with international careers. Like every year, there was a variety of activities, parallel themed sections, as well as specialized labs by prominent speakers, offering the best possible user experience to participants. Finally, in the specially designed expo area of the Conference, participants had the opportunity to talk with representatives of the top companies in ICT, and learn about new products and services that will help them evolve not only their daily tasks, but their business activity as well.

Photos

Links

https://infocomworld.gr/en

https://www.infocomworld.gr/20o-infocom-world-2018-2/programma-ereynitikon-programmaton-o-t-e/