















Day Theme	Interoperability & Security	Data Models	Platforms & Information		Smart Cities		IoT industry	Living Labs	Sighting		
Time Session	Room Main	Room Main	Room		Room		Room Main	Room Main	N/A		
			Main	A	Main	A					
11:00-12:30	<p>Session + Workshop DM-RM2</p> <p>Local and Global Data Integration</p> <p>VITAL-OS Platform</p> <p>Galway Smart City Project</p> <p>Dr. Aqeel H. Kazmi and Huy Le Van NUIG-UIoT</p>  <p>(Free Access)</p>	<p>Session IN-RM2</p> <p>Health Informatics Ontologies, Standards and Vocabularies</p> <p>Dr. Dietrich Rebholz-Schuman, Dr. Ratnesh Zahay and Alok Kumar Jha NUIG-Insight Galway Ireland</p>  <p>(Free Access)</p>	<p>Workshop SE-RM2 Part II</p> <p>RE-Mote hands-on: build and IoT application in 1 hour using a hardware platform</p> <p>Marc Fabregas Bachs, Zolertia CEO Barcelona Spain</p>  <p>(Free Access)</p>	Sorbet Project Meeting (Session SE-RM2 - Closed Session / By Invitation Only)		<p>Smart Regions (By Invitation Only)</p> <p>Region Council Authorities Message</p> <p>Kieran Hever, Cavan County - Ger Dollard, Clare County - Liam Ward, Donegal County - Caitriona Morgan, Galway City Council - Brian Barrett, Galway County - Nollaig Whyte, Leitrim County - Joanne Grehan, Mayo County - Paul Clifford, Monaghan County - Barry Doyle, Roscommon - County - Bartley Gavin, Sligo County.</p> <p>Western Development Commission Message</p>	Sorbet Project Meeting (Session SE-RA1 - Closed Session / By Invitation Only)		<p>Session IoTI-RM1</p> <p>Living Labs Demonstrators</p> <p>Air Quality Monitoring James Tylor</p> <p>Smart Building Living Lab and Smart Galway Traffic Management with Light and Noise Control Dr. Aqeel H. Kazmi</p> <p>Smart City IoT-enabled Marquee Jack Jordan</p> <p>Smart Building Data Management System Alex Acquier</p> <p>(Free Access)</p>	<p>Retro-Games Session at Computer Museum of Ireland</p> <p>Atari, SEGA, Nintendo, XBOX, Wii</p> <p>Brendan Smith NUIG-Insight Outreach Advocacy and IT and Science Historian</p>  <p>(Free Access)</p>	Tour to the Cliffs of Moher or a Medieval Castle – Full Day subject to Num. of participants
12.30-13.30	Lunch Westwood Restaurant	Lunch Westwood Restaurant	Lunch Westwood Restaurant		Lunch Insight Centre		Lunch Insight Centre	Room Main	Room Main		
13:30-15:00	<p>Session + Workshop DM-RM3</p> <p>Cyber-Security Vs. Device Protection</p> <p>Overview FIESTA IoT-Testbeds Security and Components</p> <p>Dr. Elias Tragos and Hung Nguyen NUIG-UIoT Insight</p>  <p>(Free Access)</p>	<p>Tutorial IN-RM3</p> <p>Machine Learning: Techniques, Principles and Basic Examples (Remote)</p> <p>Dr. Brian MacNamee School of Computer Science UCD-Dublin Ireland</p>  <p>(Free Access)</p>	<p>Session SE-RM3 Part I</p> <p>Age and Value of Information for IoT systems</p> <p>Dr. Vangelis Angelakis Department of Science and Technology Linköping University Norrköping Sweden</p>  <p>(Free Access)</p>	Sorbet Project Meeting (Session SE-RM3 - Closed Session / By Invitation Only)		 <p>OASC Ireland (By Invitation Only)</p> <p>Martin Brynskov Aarhus-OASC 2018 Message (Remote)</p> <p>Dublin Smart City</p> <p>Maynooth Smart Hub</p> <p>Cork Smart Gateway</p> <p>Galway Connected Hub</p> <p>Limerick Smart Hub</p> <p>Waterford Smart Port</p> <p>Belfast Smart North Gate</p> <p>Derry Smart Frontier</p> <p>Next Steps</p> <p>Conclusions</p>	Sorbet Project Meeting (Session SE-RA1 - Closed Session / By Invitation Only)		<p>Session IoTI-RM3 IoT Industry (By Invitation Only)</p> <p>Welcome & Opening Marc Mellote</p> <p>IBM, Ireland BigFix Detect</p> <p>HPE, Ireland BIG Data and Machine Learning for Cyber-Security</p> <p>FinTrax, Ireland Multi-Financial Security Services</p> <p>Advantech, Ireland "B+B demo kit"</p> <p>Hopu, Spain Smart POI (Remote)</p> <p>Dew Mobility CA, USA (Remote)</p> <p>Closure</p>	<p>Outdoor Activities</p> <p>Soccer at Outdoor NUIG sport Fields</p> <p>Badminton</p> <p>Volleyball</p> <p>Subject to Num. of participants and Weather Conditions</p> <p>Refreshments will be provided to participants</p> <p>(Free Access)</p>	Tour to the Cliffs of Moher or a Medieval Castle – Full Day Subject to Num. of participants
15:00-15:30	Coffee Break	Coffee Break	Coffee Break		Coffee Break		Coffee Break	Coffee Break	Coffee Break		

Day Theme	Interoperability	Data Models	Platforms & Information		Smart Cities		IoT Industry	Living Labs	Sighting
Time Session	Room Main	Room Main	Room		Room		Room Main	Room Main	N/A
			Main	A	Main	A			
16.00-17:30	Session + Workshop DM-RM4 IoT Data Marketplace And Hyper-Connectivity BIG-IoT Marketplace overview Dr. Achille Zappa and Hoan Nguyen NUIG-UIoT Insight  (Free Access)	Tutorial IN-RM4 Part I iNFIInTE Experimentation Federated Services and Experiments Aris Dadoukis Research Scientist NITLab Thessaloniki Greece  (Free Access)	Session SE-RM4 Part II Heterogeneity of Resources and IoT Flexible Services Dr. Vangelis Angelakis Department of Science and Technology Linköping University Norrköping Sweden  (Free Access)	Sorbet Project Meeting (Session SE-RM4 - Closed Session / By Invitation Only)	Plenary Session and Closing (By Invitation Only) All OASC Ireland Participants Martin Serrano NUI Galway Vision OASC 2020 Niall O'Brolchain Final Comments  Martin Brynskov Aarhus-OASC  (Ends 16:30)	Sorbet Project Meeting (Session SE-RA1 - Closed Session / By Invitation Only)	Activity IoTI-RM4 Computer Museum of Ireland Guided Tour Brendan Smith NUIG-Insight Outreach Advocacy and IT and Science Historian  (Free Access)	Summer BBQ Food and Live Music This year we go Halal and Organic Veggies Location Insight BBQ Place CarPark (based on weather conditions) Otherwise social event in a Location TBD (Free Access)	Tour to the Cliffs of Möher or a Medieval Castle – Full Day Subject to Num. of participants
18:30-Onwards	** Galway City Tour Dinner all together (Optional)	*** Salthill City Tour Dinner all together (Optional)	Social Event Location TBD Usually an Irish Restaurant/PUB	Social Event Private Event	**Galway City Tour Dinner all together (Optional)	Social Event Private Event	Social Event Location TBD Usually A Traditional Irish Pub	** Galway Nightlife Dinner all together (Optional)	****Sighting Tour

- * Guided visit by groups to the Computer and Communications Museum of Ireland located at the Insight-centre NUIGalway
- ** Guided visit by groups to Galway City
- *** Guided visit by groups to Salthill
- **** Sighting tour to cliffs of Möher or a Medieval Castle

IoT•Forum

IoT European Platforms Initiative

council



www.openiot.eu

ACTIVAGE PROJECT

www.activageproject.eu



www.big-iot.eu

VITAL

www.vital-iot.eu



http://www.fed4fire.eu



Horizon 2020
European Union funding
for Research & Innovation



Open Internet of Things Summer School

4 -9 September 2017, Galway City, Ireland

INVITATION

In collaboration with:



<http://www.fp7-sorbet.eu/>

The 2017 Open Internet of Things summer school is an event organized by the OpenIoT consortium, CREATE-IoT Project, ACTIVAGE LSP and FIESTA-IoT Project following the EU IERC-Strategic Research and Innovation Agenda (2016-2018 IERC IoT-SRIA) with focus on providing insights about Open Source Solutions, Service Openness and Semantic Interoperability for the Internet of Things.

Healthcare and Wellbeing, Privacy, Security and Trust are incorporated this year as a focus areas for Large Scale Deployments (LSP)

OBJECTIVE

Open Internet of Things Summer School is an international event for the different stakeholders involved in the IoT ecosystem, scientific researcher(s) across Europe and other parts of the world, open Source communities and developers and to any large enterprise or entrepreneurs (SME) / individuals interested to participate, contribute, develop and acquire the know-how about Internet of Things technology, Middleware platforms and services and Applications based on the Open source IoT middleware's.

In this 4th Edition of the Open Internet of Things summer school, a variety of specialized Internet of Things technical topics are covered in depth, from sensor networks, sensing data, stream data processing, methods and protocol implementation to service openness, interoperability, service scheduling, delivery, utility management, and their applications with focus on IoT horizontal solutions in multidisciplinary areas, (e.g. smart city, intelligent manufacturing, car2car communications, M2M, smart appliances, etc.)

Please get your free ticket by using [Eventbrite](#)

Once you are registered select the days and events you would like to attend by filling in the online attendance list available at [2017 OpenIoT Summer School Doodle](#)



WHAT TO EXPECT

Problem analysis (case-by-case) and resolution via direct support from the experts in the area of data management, distributed systems design, ontology engineering, semantic technologies and senior researchers.

Close collaboration and hands on work between academy and industry for sharing best, of both sides, experiences from using Open Source Platforms and middleware for the Internet of Things.

The problem resolution and deep analysis for possible extensions in response of the demands from developers and IoT solution providers and also from the open source community.

SUMMER SCHOOL FORMAT

2017 Open Internet of Things summer school is a unique opportunity to learn directly from technical experts and system developers about the status, progress and plans for Open Internet of Things trends and evolution.

Open challenges in the area of Internet of Things are also part of the expected outcomes.

Open Internet of Things Summer School combines keynote talks lectures on fundamental and applied aspects of the Internet of Things with hands-on tutorials and experimentation, providing the participants with a solid understanding and experience to further advance research using Open source platforms, IoT middleware and cloud infrastructures and IoT technology.

WHY TO ATTEND?

The aims of the Open Internet of Things summer school are to:

Learn the design principles, core architectural components, basics of functionality and practical experience(s) about open source platforms, large Scale Self-organizing Cloud Environments and Internet of Things Applications

Design and Principles

- Overall aspects for Internet of Things.
- Core components and applied aspects for Open Source IoT Architecture(s).
- Service Openness and Semantic Interoperability principles.
- Recent advances in the IoT open source platforms landscape.
- Important research challenges and directions for semantic interoperability.

Technical and Hands-on

- Experimentally-driven IoT experience in the form of hands-on sessions.
- Resolution of specific Internet of Things-related problems.
- Know how on one of the flagship leading European IoT middleware(s).

Networking

- Contact with experts in the IoT domain(s) at first class research facilities.
- Networking with IoT researchers and experienced scholars.
- Academic and industrial exchange.
- Opportunities to open discussions and round tables.
- Brainstorming, discuss and share your own ideas.
- Expand your skills and expertise on handling Open Source solutions.

REGISTRATION

Please get your free ticket in Eventbrite and once you get your ticket confirmation

<http://www.eventbrite.com/e/open-internet-of-things-summer-school-2017-tickets-37359511304>

Fill the online attendance list selecting the days and event you would like to attend

<http://doodle.com/poll/hec3a4iurt755xc6>

Soon after you register in Eventbrite, we will send you an email to confirm your registration and with the instructions regarding the summer school. In the unlikely event you don't receive any confirmation from us or if any question arise during the registration process, please don't hesitate to contact us

<http://openiot.eu/?q=contact>

THE COST

The Open IoT summer school participation is FREE of cost

1. Coffee Breaks: Mon-Fri Morning and Afternoon provided by our sponsors.
2. Lunch: (Mon 4th Sept, Tue 5th Sept, Wed 6th Sept)
Estimated cost 10-20 Euro paid in situ with individual receipts.
3. Social Event (Wednesday 6th Sept), venue to be confirmed.
Estimated cost 35-40 Euro paid in situ with individual receipts
4. Summer BBQ (Saturday 9th Sept) subject to weather conditions
(Summer BBQ is subject to voluntary organization and participation and it is free of cost)
5. Sighting Event (Sunday 10th Sept) subject to participation
Estimated cost 20-25 Euro paid in situ – No receipts provided
(Toru to the Cliffs of Möher or a Medieval Castle subject to Num. of participants)



NOTE: is responsibility of the participants make arrangements by themselves for their accommodation (see below ACCOMMODATION for more details)

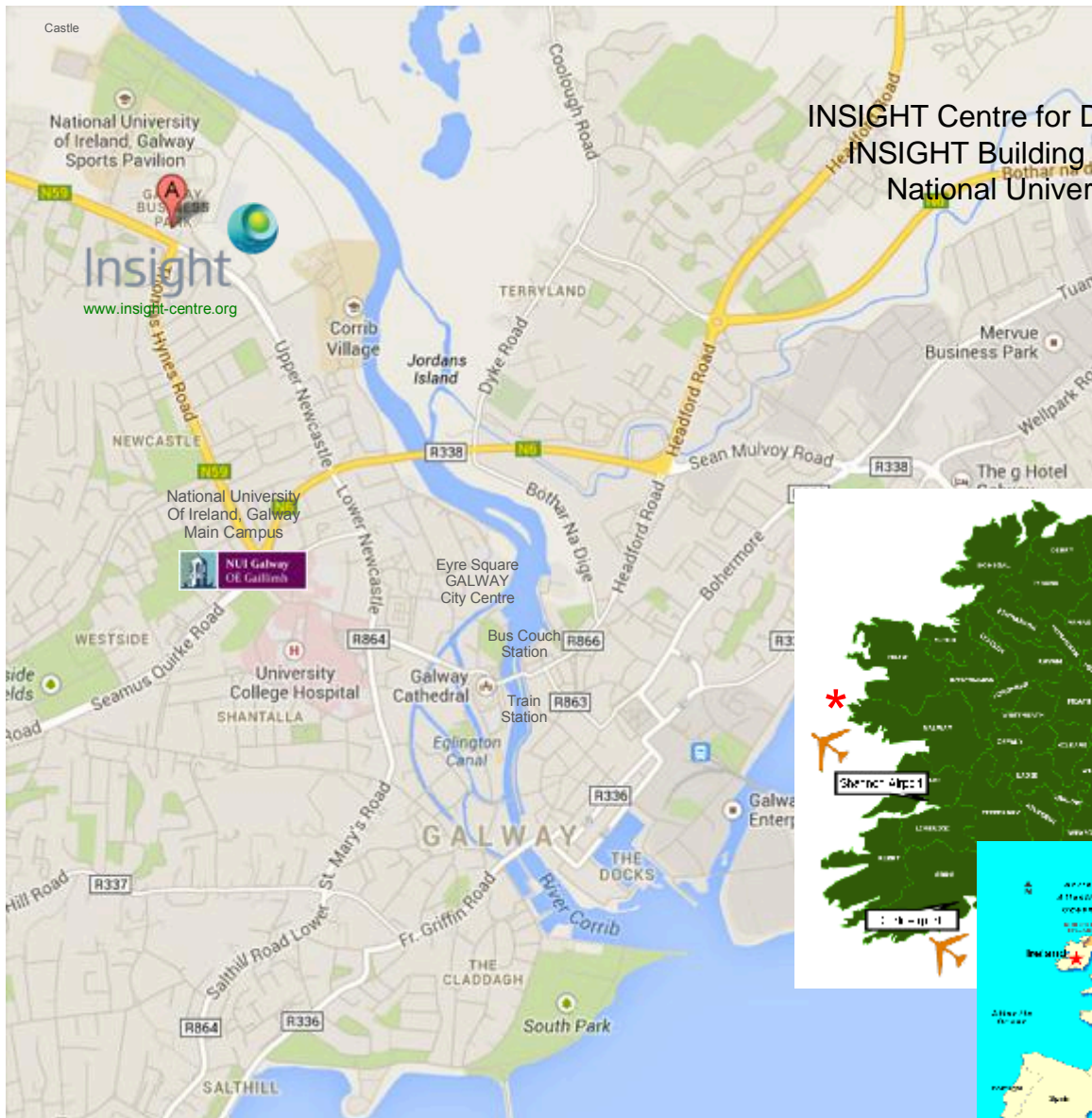
EVENT DATES

Open Internet of Things Summer School 2017
04-08 September 2017, Galway City, Ireland

VENUE

The Summer School will be hosted at:
INSIGHT Centre for Data Analytics Galway
DERI Building - Main Meeting Room
National University of Ireland Galway
Lower Dangan
IDA Business Park
Galway City
Co. Galway
Ireland

Attached there is a Map explaining where to find us – Point A in the Map.



TRAVEL

Dublin Airport

<http://www.dublinairport.com/home.aspx>

Dublin Airport to Galway City

There are two Express BUS couch services from Dublin to Galway

Dublin Airport - Galway City - www.citylink.ie <<http://www.citylink.ie/>> Express service

<http://citylink.ie/images/citylink-dublin-express-timetable-for-web.pdf>

Dublin Airport - Galway City - www.gobus.ie <<http://www.gobus.ie/>> Express service

[http://www.gobus.ie/uplds/gobus_summer_timetable_2014_\(inside\).pdf](http://www.gobus.ie/uplds/gobus_summer_timetable_2014_(inside).pdf)

<http://www.gobus.ie/uplds/gobus_summer_timetable_2014_%28inside%29.pdf>

<http://www.buseireann.ie/pdf/1360753025-051.pdf>

Shannon Airport

<http://www.shannonairport.ie/gns/Passengers/Home.aspx>

Shannon Airport to Galway City

Note there are no scheduled bus service from Shannon Airport to Galway City

Shannon City - Galway City - www.buseireann.ie <<http://www.buseireann.ie/>> services

ACCOMMODATION

Attached there is a list of hotels with University rates

Hotel Accommodation - Galway

Last Update: June 2014

Star Rating	Hotel	Address	Reservations No	Single	Double	Additional Information	Other Benefits	Credit Facilities - do you accept purchase order	Email	Website
City Centre										
***	Imperial Hotel	Eyre Square, Galway	091 563033	€69 B&B(Cont)	€89 B&B(Cont)			Yes	imperialhotelgalway@gmail.com	www.imperialhotelgalway.ie
***	Forster Court Hotel	Forster Street, Eyre Square, Galway	091 564111	€65 B&B	€75 B&B	3* boutique style property in the heart of Galway	Close to bus and train station, discounted parking, complimentary wi-fi		shelley@forstercourthotel.com	www.forstercourthotel.com
***	Jurys Inn Galway	Quay Street, Galway	091 566444	€65 B&B (twin)	€75 B&B (twin)		Complimentary wifi and newspaper	Yes	jurysinnsgalway@jurysinns.com	www.jurysinns.com
***	Harbour Hotel	New Dock Road, Galway	091 894800	€89 B&B	€99 B&B		Discounted parking rates	Yes	sales@harbour.ie	www.harbour.ie
****	Pillo Hotel & Spa Galway	Headford Point, Headford Road, Galway	091 513200 / 091 513222	€79 B&B Excl 28 Jul - 3 Aug	€89 B&B Excl 28 Jul - 3 Aug		Fitness Suite, Free underground parking, Wi-fi	Yes	reservations@pillohotelgalway.com	www.pillohotelgalway.com
****	Hotel Meyrick	Eyre Square, Galway	091 564041	€85 B&B Jan-Apr, Oct-Dec. €95 B&B May-Sept	€110 B&B Jan-Apr, Oct-Dec. €120 B&B May-Sept			Yes	reshm@hotelmeyrick.ie	www.hotelmeyrick.ie
****	Radisson BLU Hotel & Spa Galway	Lough Atalia Road, Galway	091 538300	€100 B&B Excl 30 Jul - 1 Aug	€110 B&B Excl 30 Jul - 1 Aug		Complimentary access to gym, pool, sauna, steam room & outdoor hot tub		reservations_galway@radissonblu.com	www.radissonhotelgalway.com
Close to NUI Galway										
****	4* Westwood Hotel	Dangan, Galway.	1850 366 000	€89 B&B	€99 B&B	Quote NUIG rate	Free Wifi, free parking, within walking distance to NUIG, 10% off bar food for NUI Galway guests	Yes	resmanager@westwoodhousehotel.com	www.westwoodhousehotel.com
****	Glenlo Abbey Hotel	Bushypark, Galway	091 519600	€89 B&B	€109 B&B	Quote NUIG rate	Complimentary carparking	Yes	stay@glenloabbey.ie	www.glenlo.com

Note: A maximum threshold of €100 was set for B and B Single Occupancy. Any hotels not willing to reduce their rates below this threshold are excluded from the listing.

Hotel Accommodation - Galway

Last Update: June 2014

Star Rating	Hotel	Address	Reservations No	Single	Double	Additional Information	Other Benefits	Credit Facilities - do you accept purchase order	Email	Website
Salthill/Knocknacarra										
***	Hotel Clybaun	Clybaun Road, Knocknacarra, Galway	091 588088	€69 B&B excl 28th Jul - Aug 5	€89 B&B excl 28th Jul - Aug 5		Reduced Taxi Fare	Yes	reservations@hotelclybaun.com	www.hotelclybaun.com
****	Galway Bay Hotel	Salthill, Galway	091 520 520	€79 B&B Limited rooms July/Aug	€59 B&B Limited rooms July/Aug	NUI Galway	Express CheckOut	Yes	info@galwaybayhotel.com	www.galwaybayhotel.com
Close to GMIT										
***	The Connacht Hotel (formerly Carlton Hotel Galway)	Dublin Road, Galway	091 381200	€75 B&B Jan-Jun, Sep-Dec. €85 B&B Jul-Aug	€95 B&B Jan-Jun, Sep-Dec. €105 B&B Jul-Aug		Free Parking, wi-fi, access to leisure club, welcome pack, newspaper. Apartment rentals also available for longer stays.		reservations@theconnacht.ie	www.theconnacht.ie
***	Flannerys Hotel Galway	Dublin Road, Galway City East	091 755 111	€75 B&B Jun/Jul/Aug €60 B&B other months	€99 B&B Jun/Jul/Aug €79 B&B other months		Free wifi, free parking	No	reservations@flanneryshotel.net	www.flanneryshotelgalway.com
****	Clayton Hotel	Ballybrit, Galway	091 721900	€79 B&B Excl 27 Jul - Aug	€89 B&B Excl 27 Jul - Aug	Quote NUIG rate		Yes	info@clayton.ie	www.clayton.ie
*****	The g Hotel	Wellpark, Galway.	091 865200	€95 B&B / €90 RO	€115 B&B / €110 RO		Complimentary wifi, carparking, access to gym area and business centre, newspaper, use of Thermal Suite		reservetheg@theg.ie	www.theghotel.ie

Hotel Accommodation - Galway

Last Update: June 2014

Star Rating	Hotel	Address	Reservations No	Single	Double	Additional Information	Other Benefits	Credit Facilities - do you accept purchase order	Email	Website
County Galway										
***	Maldron Hotel Galway	Oranmore, Co. Galway	091 792244	€75 B&B	€85 B&B or best available	NUI Rate	Taxi discount with Oran Cabs	Yes	res.galway@maldronhotels.com	www.maldronhotelgalway.com
***	Raheen Woods Hotel	Athenry, Co Galway	091 875 888	€69 B&B	€79 B&B	RWHNUIG2014	Full use of Tranquility Leisure Centre, Pick up from rail station available		info@raheenwoodshotel.ie	www.raheenwoodshotel.ie
****	The Twelve Hotel	Barna, Galway	091 597010	€80 B&B	€90 B&B	Quote Nui Galway Rate			enquire@thetwelvehotel.ie	www.thetwelvehotel.ie



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