

VISITORS GUIDE



Hosted by Fira Barcelona in partnership with the Industrial Internet Consortium

16-18 SEPTEMBER 2015

A large graphic of a globe composed of a complex network of white lines and nodes, with several nodes highlighted in red. The globe is centered in the background.

PUTTING IOT TO WORK

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Dr. Richard Soley

President of the Advisory Board IOT Solutions World Congress
Executive Director Industrial Internet Consortium

The Industrial Internet Consortium is pleased to welcome you to the first IoT Solutions World Congress, bringing together thousands of industry leaders from around the world to discuss the rise of the Industrial Internet of Things.

The Industrial Internet of Things is poised to completely change the way we live and work. A 2015 World Economic Forum report found that 72% of surveyed market leaders believe that the Industrial Internet will be disruptive to the global industry – yet 88% stated that their business is unprepared for those changes. This conference is an important step in helping you to leverage the tremendous opportunities ahead.

Over the next few days, you will hear how the Industrial Internet of Things is already being deployed globally in industries including Energy, Healthcare, Manufacturing, and Transportation. You will learn from leaders in IoT technologies and security about best practices, and get a preview into how IoT is enabling business growth through

advances in physics, wearables, robotics – and even the weather. There’s even a hands-on look at the Industrial Internet in action through the 11 testbeds on display in the exhibit area.

The Industrial Internet Consortium is proud to have partnered with Fira Barcelona in making the IoT Solutions World Congress a reality. Formed by AT&T, Cisco, GE, IBM, and Intel in March 2014, the Industrial Internet Consortium is a public-private organization that accelerates the development, adoption, and wide-spread use of the Industrial Internet. Please stop by our pavilion to meet with us and some of our 200+ member organizations here at the conference.

I look forward to meeting with you over the next few days!



Mr. Roger Bou

Director IOT Solutions World Congress

This first edition of the IoT Solutions World Congress is tremendously exciting, with a broad array of options for exploring IoT solutions for markets such as healthcare, manufacturing, transport, logistics, and energy, with world-class speakers who will inspire you, and interactions with global innovators in the IoT industry.

The IOTSWC offers a conference programme headlined by the world’s IoT leaders, showcasing a vision of the future for IoT with actionable solutions for every market. Keynotes, Plenary, and Parallel sessions will help you to anticipate the ways in which your own industry and organization could change, and to capitalize on first-mover advantage. The Innovation Market Place, where you can discover the most innovative IoT projects and start-ups, the Talent Market Place, and the Gala Dinner, provide a constellation of opportunities for networking and business development.

On behalf of Fira and the IIC, we are pleased to welcome you to the inaugural IoT Solutions World Congress in Barcelona.

In addition to exhibitors from the most innovative 90+ IoT companies in the world, attendees will have the unique opportunity to explore the TestBed Area. This designated space will enable attendees to experience technology in context and see how IoT solutions can increase productivity across a variety of different markets.

These are just a sampling of what you will see and experience here these days, and we are certain that you will find the IoT Solutions World Congress inspiring, productive and enjoyable. On behalf of Fira and the IIC, we thank you very much for your important support for this first annual edition of the IOT Solutions World Congress, and look forward to making the event a success, together.

EXHIBITORS LIST

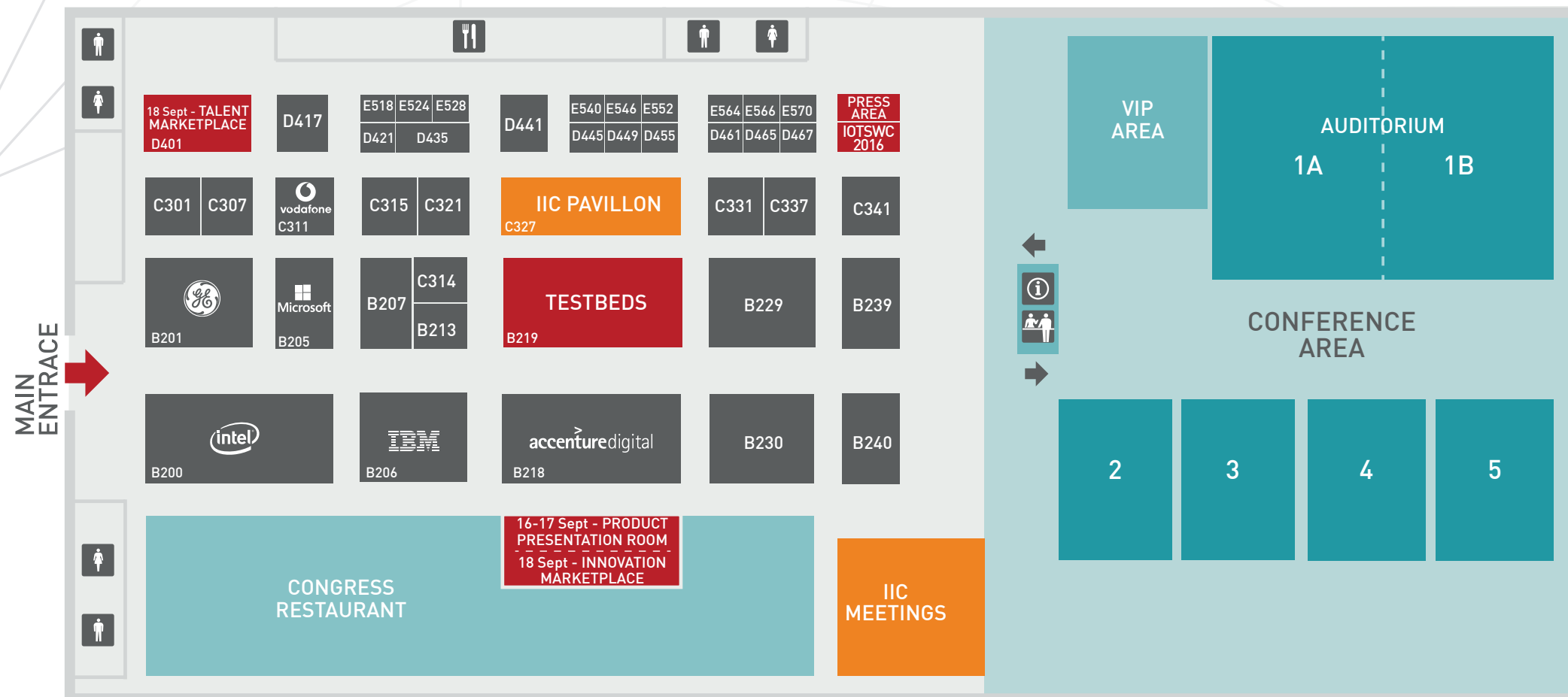
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Information correct as of September 7th

16 Wed - PROGRAM

Keynotes Auditorium							
7:30 - 8:30	Registration						
8:30-9:00	Welcome To The Industrial Internet: Age of Opportunity - Richard Soley , Industrial Internet Consortium						
9:00 - 9:30	IoT for Life - Jonathan Ballon , Intel Corporation						
9:30-10:00	Transforming Business: Capturing new value with Enterprise Internet of Things Chris O'Connor , IBM Internet of Things						
10:00 - 10:30	Controlling Robots From The Cloud: Amazon Warehouses as Networks of Things Joseph Durham , Amazon Robotics						
10:30-11:15	Working Toward An Outcome Based Economy - The Role of Ecosystem and Platform Discussion Moderator: Jim Bailey - Accenture Digital, Speakers: Scott Monson , Cloud Foundry Foundation - Peter Koudal , GE Global Research - Said Tabet , EMC - Bodo Koerber , Accenture Digital German - Richard Soley , Industrial Internet Consortium						
Innovation Room 1A	Technology Room 1B	Manufacturing Room 2	Transportation Room 3	Healthcare Room 4	Energy Room 5		
11:30-12:15	How IoT Is Transforming Business Models (Panel Discussion) Moderator: Karthikeyan Natarajan Tech Mahindra Speakers: Paul Didier - Cisco Setrag Khoshafian - Pegasystems Garreth Noyes - Wind River	Getting to IoT Interoperability Shi-Wan Li - Intel Bradford Miller - GE Global Research	Driving To a Zero Defect Strategy: IoT Use On The Assembly Line Martin Doelfs - Bosch Rexroth	The Connected Flight Dave Bartlett - GE Aviation	Healthcare On \$1 A Month Ajay Bakshi - Manipl Health Enterprises Pvt Ltd	The Internet of Energy Ed Abbo - C3 Energy Marco Cotti - Endesa Distribution	
12:15-13:15 Lunch							
13:15-14:00	The Innovative Role of Telcos in Transforming the IoT Market - Alexander Lautz - Deutsche Telecom	Real-Time Streaming Analytics Platform - Architectural Principles, Trade-Offs and Lesson Learned Teresa Tung - Accenture Technology Labs	Secured Smart Factories - Increase Uptime, Reduce Costs, Protect IP Martin Klimke - Infineon Technologies AG	The Connected Car Magnus Feuer - Jaguar Land Rover Prakash Kartha - INTEL	Improving Complex Patient Care Through Big Data Analytics Hector Upegui - IBM	Improving Operational Efficiency and Optimizing Customer Service Mike Huumo - Fortum Plc	
Keynotes Auditorium							
14:15-15:00	Getting To ROI In The Factory of the Future Moderator: Sukamal Banerjee , HCL Technologies Speakers: Klaus Bauer , Trumpf Werkzeugmaschinen GmbH + Co - Tony Guerion -Vodafone - Andreas Mueller , Bosch - Jamie Smith , National Instruments						
15:00 - 15:45	The IoT of Healthcare: Driving Down Costs and Improving Patient Outcomes Moderator: Glenn Snyder - Deloitte Consulting LLP, Ajay Bakshi - Manipl Health Enterprises Pvt Ltd - Gabriele Ricci - Shire Pharmaceuticals Adam Darkins - Medtronic						
16:00 - 17:00	Big Design: How Systems of Systems are Changing What We're Designing, and What We Need To Manufacture Patrick Kalaher - FROG	Understanding The Internet of Things (IoT) Solution Stack Joseph Biron - ThingWorx a PTC Company	Asset Efficiency with Predictive Analytics Jayraj Nair - Infosys	Advanced Positioning Service For Connected Vehicles and Smart Mobility Services Marti Jofre - Pildo Labs Wessex	IoT As Foundation Of The Digital Strategy In Life Science Franco Petrucci - Decision INC Gabriele Ricci - Shire Pharmaceutical	Downstream Oil & Gas - Role of IoT in Offshore Drilling Rod Antiker - OEM Server Architecture, Hewlett Packard	
17:00- 18:00	IoT Innovation in Technology Scott Monson - Cloud Foundry	Empowering The Future of IoT with API Management Robert Zazueta - Mashery, An Intel Company	What Is The Role Of Leaders In IoT Operational Transformation? Emil Berthelsen - Machina Research	The Future of Transportation in the Industrial Internet of Things Stan Schneider - Real-Time Innovations (RTI)	The Future of Healthcare Related Wearables Erik Jacobson - Accenture	IoT Solutions For Oil and Gas Infrastructure - A Case Study of Phillips 66 Karl Gempertli , Elecsys Corporation	



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Intel is proud to be a Diamond Sponsor of the inaugural IOT Solutions World Congress. Visit Booth B-200 to see the latest demos and meet with our team.

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17 Thu - PROGRAM

Keynotes Auditorium						
7:30 - 8:30	Registration					
8:30 - 9:15	The IoT and the New Economics of Creating and Capturing Value. Michael Raynor , Deloitte					
9:15 - 10:00	Legal Implications of Internet of Things. Moderator: Giulio Coraggio , DLA Piper - Mark Radcliffe , DLA Piper Speakers: Edwina Baddeley , Accenture EU - Kathrine Butler , GE - Lorena Marciano , Cisco					
10:00 - 10:30	GE's Digital Twin and Industrial Internet Leadership Colin Parris , GE					
10:30 - 10:45	CERN - Advancing Technology - Luis Granado Cardoso , CERN					
10:45 - 11:15	Digital Business Era: Stretch Your Boundaries - Ben Salama , Accenture Digital					
	Innovation Room 1A	Technology Room 1B	Manufacturing Room 2	Transportation Room 3	Healthcare Room 4	Energy Room 5
11:30 - 12:30	The Future of Healthcare Wearables John Denninger Mass General Hospital Marco Della Torre Intel	IoT Methodologies For Success Panel: Moderator: Jim Morrish Machina Research Speakers: Ivar Jacobson Ivar Jacobson International Ron Zahavi Microsoft Dirk Slama Bosch	Assembling Orders in Amazon's Robotic Warehouses Joseph Durham Amazon Robotics	Automated Vehicles 2016 Corey Clothier Local Motors	Connected Healthcare Robert Krawiec Deloitte Heather M. Ross Arizona State University	Business Transformation through Industrial IT - Chevron's 2020 Strategy Sebastian Gass Chevron
12:30 - 13:30	Lunch					
13:30 - 14:15	The IoT of Weather: How 26 Billion Forecasts Improve Decision Making Mark Gildersleeve The Weather Company	Best Practices In Securing Industrial Systems Moderator: Beth Hoenicke Johns Hopkins Speakers: Jesus Molina , Fujitsu Sven Schrecker Intel Clemens Vasters Microsoft	Developing Smart Tools For The Airbus Factory of the Future Bernard Duprieu Airbus Eric Starkloff National Instruments	IoT In An Integrated Industry: Changing Operating Sequences in Transportation Rene Wermke Harting Product Manager RFID Transponder	Use of Clinical Data to Coordinate Care of Chronic Diseases Adam Darkins Medtronic	Generating Value From IoT Data In Renewable Energy Syed Hoda Parstream Jianfeng Yan Envision
Keynotes Auditorium						
14:30 - 15:15	Getting Down to the Business of Industrial IoT in Energy Moderator: Edy Liongosari , Accenture Technology Labs Speakers: Peter Haigh , National Grid - Sebastian Gass , Chevron - Mariano Ortega de Mues , Indra					
15:15 - 15:45	Create the Internet of Your Things: Steve Teixeira , Microsoft					
16:15 - 17:00	Smart Cities: IoT From Policy Makers Moderator: Said Tabet , EMC Speakers: Alwin Beernink , Park Strijp Beheer b.v. - Khoong Hock Yu , Infocomm Development Authority of Singapore - Enrique Martinez , Spanish Gov. - Jordi Puigneró , Gov. of Catalonia - Francisco Rodriguez , IMI - Tim Scott , Digital Economy Unit, CMS	Language Technologies Enabling new Business Models for the IoT Diego Bartolome Tayou language technology	How IoT Changes Machine Building Klaus Bauer Trumpf Werkzeugmaschinen	Execution = Efficiency: Transportation Management In The New IoT Powered Business Universe - Deepak Ayyagari , TCS	Security In Mobile Healthcare Beth Hoenicke Johns Hopkins	Optimizing Use of Energy in Buildings Victor Moure Schneider Electric Ignacio de Ros ADR Ingenieria
17:00 - 18:00	Beyond IoT - Connecting with the Emerging Nervous System of Ubiquitous Sensing Joseph Paradiso MIT Media Lab	The Role of Standards in IoT Moderator: Ian Skerrett Eclipse Panelist: Jeff Fedders IPSO Jooyeol Lee OIC Stephen Mellor IIC Richard Soley OMG	Blast Chillers: How IoT Impacts The Manufacturing Industry: A case study for Smart Connected Blast Chillers Andrea Ceiner M2M/IoT, Eurotech	Industrial Internet Transformation of Global Supply Chains Peter Koudal GE Global Research	How global IoT Connectivity Transforms Assisted Living Eric Nicolas SIGFOX	Using The Smart Grid To Reduce Operational Costs Peter Haigh , National Grid
20:00 - 23:00	Networking Gala					



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High performance. Delivered.

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18 Fri - PROGRAM

Day 18	Keynotes Auditorium					
8:30 - 9:15	Financial Services Meets IoT, How to Prepare For Early Stage Funding - Jem Pagan , Flatiron Strategies - Rob Schultz , Rubicon Labs					
9:15 - 10:00	Innovation In IoT: A Conversation With Startups Moderator: Sarah Murray , Financial Times - Speakers: Syed Hoda , Parstream - Ian Collingwood , StartUp Boot Camp - Timothy Butler , Tego - Gabe Batstone , Contexture					
10:00 - 10:45	The CXO's Guide to the Cloud - Moderator: Peter Cooper , Microsoft Speakers: Sky Matthews , IBM - Lin Nease , Hewlett Packard - Marc Thomas Schmidt , GE					
10:45 - 11:15	Bridging The Digital Divide: How the Internet in the IoT Can Transform the Global Economy - Sath Rao , Frost & Sullivan					
11:15 - 11:45	Next-GEN IoT Vehicles Corey Clothier - Local Motors					
	Innovation Room 1A	Technology Room 1B	Manufacturing Room 2	Transportation Room 3	Healthcare Room 4	Energy Room 5
12:00 - 12:45	Best Practices for IoT Deployments Gabriel Wetzel Bosch	Intelligent IoT Platform Serving the Future Ecosystem Dongli Zhang Huawei	Digital Manufacturing 2020: How Visibility Drives Value In The Connected Enterprise Stefan Bungart CISCO	Planes, Trains, Bikes and Automobiles - How IoT is transforming Transportation Tony Guerion , Vodafone	Remote Caring for Vulnerable Populations During a Pandemic Julian Goldman Massachusetts General Hospital	The Internet of Things in High Energy Physics Experiments Luis Granado CERN
12:45 - 13:45	Coffee Break					
13:45 - 14:30	AiKiDo for IOT Jayraj Nair Infosys		Creating IoT Solutions Steve Texiera Microsoft	How Low-Cost Hardware, Wide-Spread Connectivity, and Community-Driven Open Source Are Enabling the IoT James Kirkland Red Hat	How To Secure Billions of Insecure IoT Devices Steve Hanna Trusted Computing Group	Smart Everywhere: Revamp your Business through IoT Technology Ricardo Aguado Cañada Indra
14:30 - 15:15			Zero Knowledge Is Power Rob Schultz Rubicon Labs	Edge/Fog vs. Cloud: Which is Right for Your IoT Environment Lin Nease Hewlett Packard	The Future of Manufacturing Bejoy George HCL Technologies	Stories From The Edge: Lessons Learned For The IoT From The Development And Product Launch Of An In Vivo Biosensor Brian Jamieson Scientific & Biomedical Microsystems

Elevate your business with the Internet of Things



As the Internet of Things (IoT) becomes mainstream reality, it presents both technological challenges and transformational opportunity. Each organization's path forward is unique.

Meet with IBM at our IoT "base camp" for exploration of your team's objectives. IBM base camp is staffed with IoT guides who can share experience and expertise to help you reach your goals.

Expertise and areas to explore:

- Building IoT applications within a cloud development platform
- Accelerating application delivery via the API economy
- Using real-time data to prioritize and optimize maintenance resources
- Employing predictive analytics to improve asset reliability

IBM Base Camp Booth B206



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SPEAKERS



Abbo, Ed
PRESIDENT & CHIEF TECHNOLOGY OFFICER, C3 ENERGY



Aguado, Ricardo
HEAD SMART & CLOUD TECHNOLOGY PLATFORM, INDRA



Anliker, Rod
DIRECTOR, OEM SERVER ARCHITECTURE, HEWLETT PACKARD



Ayyagari, Deepak
TCS



Baddeley, Edwina
DIGITAL LAWYER EALA, ACCENTURE



Darkins, Adam
V.P. FOR MEDICAL AFFAIRS AND ENTERPRISE TECHNOLOGY DEVELOPMENT, MEDTRONIC



De Ros Viader, Ignacio
ADR INGENIERIA



Della Torre, Marco
CO-FOUNDER OF BASIS SCIENCE, AN INTEL COMPANY



Denninger, John
MASSACHUSETTS GENERAL HOSPITAL



Didier, Paul
SOLUTIONS ARCHITECT, CISCO



Bailey, Jim
MANAGING DIRECTOR, ACCENTURE DIGITAL



Bakshi, Ajay
MANAGING DIRECTOR & CEO MANIPAL HEALTH ENTERPRISES PVT



Ballou, Jonathan
VICE PRESIDENT, INTEL CORPORATION



Banerjee, Sukamal
EXECUTIVE V.P.-GLOBAL HEAD HI-TECH & COMMUNICATIONS, HCL TECHNOLOGIES



Bartlett, Dave
CTO, GE AVIATION



Doelfs, Martin
HEAD OF SALES PRODUCTION, BOSCH REXROTH



Duprieu, Bernard
HEAD OF MANUFACTURING, AIRBUS



Durham, Joseph
MGR OF RESEARCH AND ADVANCED DEVELOPMENT, AMAZON ROBOTICS



Fedders, Jeff
CHIEF STRATEGIST, INTEL CHAIRMAN, IPSO ALLIANCE IIC STEERING COMMITTEE



Feuer, Magnus
HEAD SYSTEM ARCHITECT, JAGUAR LAND ROVER



Bartolome, Diego
CEO, TAUYOU LANGUAGE TECHNOLOGY



Batstone, Gabe
CHIEF EXECUTIVE OFFICER, CONTEXTERE



Bauer, Klaus
HEAD OF BASIC TECHNOLOGY DEVELOPMENT, TRUMPF WERKZEUGMASCHINEN



Beernink, Alwin
MANAGING DIRECTOR, PARK STRIJP BEHEER B.V.



Berthelsen, Emil
PRINCIPAL ANALYST, MACHINA RESEARCH



Gass, Sebastian
REGIONAL MANAGER, IT, CNAEP CHEVRON



Gemperli, Karl
CEO, ELECSYS CORPORATION



George, Bejoy
SVP & GLOBAL HEAD (AERO, AUTO, INDUSTRIAL), HCL TECHNOLOGIES



Gildersleeve, Mark
PRESIDENT THE PD, THE WEATHER COMPANY



Goldman, Julian
MASSACHUSETTS GENERAL HOSPITAL



Biron, Joseph
VP BUSINESS DEVELOPMENT TECHNOLOGY, THING WORX



Bungart, Stefan
MANUFACTURING IOT LEADER EUROPE, CISCO SYSTEMS



Butler, Kathrine
GENERAL COUNSEL ON ANALYTICS, GE



Butler, Timothy
PRESIDENT, TEGO



Ceiner, Andrea
PRODUCT MARKETING MANAGER M2M/IOT, EUROTECH



Granado, Luis
CERN



Guerion, Tony
M2M HEAD OF SALES SOUTHERN EUROPE & MIDDLE EAST, VODAFONE



Haigh, Peter
SENIOR POWER SYSTEMS ENGINEER, NATIONAL GRID



Hanna, Steve
SENIOR PRINCIPAL, INFINEON TECHNOLOGIES



Hoda, Syed
CHIEF MARKETING OFFICER, PARSTREAM



Clothier, Corey
AUTOMATED VEHICLES LEAD, LOCAL MOTORS



Collingwood, Ian
START UP BOOT CAMP



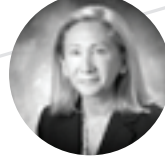
Cooper, Peter
MICROSOFT



Coraggio, Giulio
PARTNER, DLA PIPER



Cotti, Marco
ENDESA DISTIBUCION



Hoenicke, Beth
CHIEF SCIENTIST, JOHNS HOPKINS APPLIED PHYSICS LAB



Huumo, Mikko
MANAGER OF GROWTH PROJECTS, FORTUM PLC



Jacobson, Ivar
CHAIRMAN, IVAR JACOBSON INTERNATIONAL



Jacobson, Erik
ACCENTURE WEARABLE TECHNOLOGY PRACTICE - EUROPEAN LEAD, ACCENTURE



Jamieson, Brian
PRESIDENT, SBM

SPEAKERS



Jofre, Marti
ITS BUSINESS
MANAGER,
PILDO LABS WESSEX



Kalaher, Patrick
VP OF TECHNOLOGY
STRATEGY,
FROG



Kartha, Prakash
DIRECTOR OF MARKE-
TING DEVELOPMENT,
TRANSPORTATION
DIVISION, INTEL



Khoong, Hock Yun
ACE (DEVELOPMENT
GROUP)
INFOCOMM DEVELOP-
MENT AUTHORITY OF
SINGAPORE COMPANY



Khoshafian, Setrag
CHIEF EVANGELIST
AND VP BPM,
TECHNOLOGY
PEGASYS



Murray, Sarah
FINANCIAL
TIMES



Nair, Jayraj
HEAD OF IOT PRACTICE
I AVP ENGINEERING
SERVICES,
INFOSYS



**Natarajan,
Karthikeyan**
GLOBAL HEAD - ENGI-
NEERING AND R&D,
TECH MAHINDRA



Nease, Lin
CTO IOT,
HEWLETT
PACKARD



Nicolas, Eric
PRODUCT MARKE-
TING MANAGER,
SIGFOX



Kirkland, James
CHIEF ARCHITECT FOR
INTERNET OF THINGS,
RED HAT EMBEDDED AND
INTERNET OF THINGS
(IOT) INITIATIVES



Klimke, Martin
SENIOR PRINCIPAL
TECHNICAL MARKETING,
INFINEON
TECHNOLOGIES



Koerber, Bodo
MANAGING
DIRECTOR,
ACCENTURE DIGITAL
GERMANY



Koudal, Peter
SENIOR RESEARCH
SCIENTIST,
GE GLOBAL RESEARCH



Krawiec, Robert
PRINCIPAL,
DELOITTE



Noyes, Garreth
CHIEF STRATEGY
OFFICER,
WIND RIVER



O'Connor, Chris
GENERAL MANAGER,
IBM INTERNET
OF THINGS



**Ortega de Mues,
Mariano**
MAGISTER IOT FOR
ENERGY & UTILITIES,
INDRA



Pagan, Jem
PARTNER,
FLATIRON
STRATEGIES



Paradiso, Joseph
PROFESSOR,
MIT MEDIA LAB



Lautz, Alexander
SENIOR VICE PRESI-
DENT M2M,
DEUTSCHE
TELEKOM AG



Lee, Jyoool
PRINCIPLE ENGINEER,
SAMSUNG
ELECTRONICS



Lin, Shi-Wan
PRINCIPAL
ENGINEER,
INTEL CORP



Liongosari, Edy
MANAGING DIRECTOR
ACCENTURE
TECHNOLOGY LABS



M. Ross, Heather
DNP, ANP-BC
INSTRUCTOR,
ARIZONA STATE
UNIVERSITY



Parris, Colin
VICE PRESIDENT OF
SOFTWARE
RESEARCH,
GE



Pertucci, Franco
FOUNDER & CHIEF
TECHNOLOGY OFFICER,
DECISION



Puigneró, Jordi
GENERAL DIRECTOR OF
TELECOMMUNICATIONS
AND INFORMATION SOCIE-
TY, GOVERNMENT OF
CATALONIA



Radcliffe, Mark
PARTNER,
DLA PIPER



Rao, Sath
GLOBAL VICE PRESI-
DENT-CONVERGENCE
GROWTH INNOVA-
TION AND EMERGING
MARKET,
FROST & SULLIVAN



Marciano, Lorena
SENIOR CORPORATE
COUNSEL,
CISCO SYSTEMS



Martínez, Enrique
VOCAL ASESOR
MINISTRY OF
INDUSTRY, ENERGY
AND TOURISM,
SPANISH GOVERNMENT



Matthews, Sky
CTO IOT,
IBM



Mellor, Stephen
CTO,
INDUSTRIAL INTER-
NET CONSORTIUM



Miller, Bradford
SR. COGNITION AND
DECISION SCIENTIST,
GE GLOBAL
RESEARCH



Raynor, Michael
DIRECTOR, CENTER
FOR INTEGRATED
RESEARCH,
DELOITTE



Ricci, Gabriele
VP HEAD OF TECH OPS IT,
SHIRE
PHARMACEUTICAL



Salama, Ben
GLOBAL INDUSTRIAL
INTERNET LEAD,
ACCENTURE DIGITAL



**Schmidt,
Marc-Thomas**
CHIEF ARCHITECT
PREDIX PLATFORM,
GE



Schneider, Stan
CEO,
REAL-TIME
INNOVATIONS RTI



Molina, Jesus
SECURITY CHAIR IIC,
INDUSTRIAL INTERNET
CONSORTIUM, FUJITSU



Monson, Scott
VP OF BUSINESS
DEVELOPMENT AND
ECOSYSTEMS,
CLOUD FOUNDRY
FOUNDATION



Morrish, Jim
CHIEF RESEARCH
OFFICER,
MACHINA
RESEARCH



Moure Gonzalez, Victor
ECOXPRT PROGRAM
MANAGER,
SCHNEIDER
ELECTRIC



Mueller, Andreas
SENIOR PROJECT
MANAGER INDUSTRIE
4.0 SOLUTIONS FOR
LOGISTICS, BOSCH



Schrecker, Sven
CHIEF ARCHITECT,
IOT SECURITY SOLU-
TIONS INTEL



Schultz, Rod
VICE PRESIDENT OF
PRODUCT,
RUBICON LABS



Scott, Tim
SENIOR POLICY
ADVISER
DIGITAL ECONOMY
UNIT, DCMS



Skerrett, Ian
VP OF MARKETING,
ECLIPSE
FOUNDATION



Slama, Dirk
DIRECTOR OF BUSINESS
DEVELOPMENT,
BOSCH SOFTWARE
INNOVATIONS

SPEAKERS



Smith, Jamie
DIRECTOR PRODUCT
MARKETING, EMBEDDED
SYSTEMS,
NATIONAL INSTRUMENTS



Snyder, Glenn
PRINCIPAL/MED TECH
PRACTICE LEADER,
DELOITTE
CONSULTING LLP



Soley, Richard
EXECUTIVE
DIRECTOR,
INDUSTRIAL
INTERNET
CONSORTIUM



Starkloff, Eric
EXECUTIVE VICE PRE-
SIDENT OF SALES AND
MARKETING,
NATIONAL
INSTRUMENTS



Tabet, Said
SENIOR
TECHNOLOGIST
CORPORATE CTO OFFICE,
EMC



Teixeira, Steve
DIRECTOR OF PRO-
GRAM MANAGEMENT,
IOT TEAM
MICROSOFT



Tung, Teresa
IIOT R&D LEAD,
ACCENTURE
TECHNOLOGY LABS



Upegui, Hector
GLOBAL MARKET DE-
VELOPMENT EXECUTI-
VE, IBM CÚRAM SOCIAL
PROGRAMS - DISABI-
LITY MANAGEMENT &
SMARTCARE,
IBM



Vasters, Clemens
PRINCIPAL ARCHITECT,
AZURE IOT SERVICES,
MICROSOFT
CORPORATION



Wermke, Rene
HARTING PRODUCT
MANAGER,
RFID TRANSPONDER



Wetzel, Gabriel
DIRECTOR PRODUCT,
GROUP
BOSCH



Yan, Jianfeng
HEAD OF
MANUFACTURING,
ENVISION



Zahavi, Ron
SR. ENTERPRISE STRA-
TEGIST,
MICROSOFT



Zazueta, Robert
DIRECTOR, PLATFORM
STRATEGY
MASHERY, AN INTEL
COMPANY



Zhang, Dongli
DIRECTOR, RESEARCH
& PLANNING,
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The Power of Predix

Your Cloud Platform for the Industrial Internet



At the intersection of people, machines, big data, and analytics stands Predix.

Predix lets you rapidly build and securely operate industrial apps that turn real-time operational data into actionable insights. With Predix, you can optimize the performance of your business across your plants and fleets and down to the individual asset.

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Information correct as of September 9th

16 Wed - PROGRAM DETAILS

KEYNOTES

AUDITORIUM

08:30 - 09:00

Welcome To The Industrial Internet: Age of Opportunity

09:00 - 09:30

IoT For Life

In his provocative style, Jonathan Ballou will challenge you to break through the hype of IoT with real use cases that demonstrate why IoT matters. He will ignite your sense of urgency, and prove IoT is already changing the world ... for the better.

09:30 - 10:00

Transforming Business: Capturing new value with Enterprise Internet of Things

Organizations across all industries recognize the value opportunity embedded within the Internet of Things. However, many remain unclear about its potential within their own business or about how best to evolve existing physical and information infrastructures. Whether you're engineering new products or optimizing your industrial operations, it's time to reinvent value with the internet of things.

10:00 - 10:30

Controlling Robots From The Cloud: Amazon Warehouses as Networks of Things

Amazon Robotics builds the world's largest mobile robotic fleet where thousands of robots deliver inventory shelves to pick operators in e-commerce warehouses. Founded as Kiva Systems in 2002, it deployed systems to fortune 500 companies, and was acquired by Amazon.com in 2012. Hear about the evolution of Amazon Robotics' mobile-robotic system and the cloud-based software that directs the network of robots and human operators around each warehouse

14:15 - 15:00

Getting to ROI in the Factory of the Future

The factory of the future is all about technology. Advanced robotics are driving down costs. Computer simulations are reducing the time and cost of bringing new goods to market. New production processes such as 3D printing are streamlining the supply chain. This panel will discuss the impact of IoT on these and other aspects of industrial automation.

INNOVATION

AUDITORIUM

10:30 - 11:15

Working Toward An Outcome Based Economy – The role of ecosystem and platform

Formation of ecosystems in Industrial Internet and the role of technology and business platforms in supporting, maintaining and driving the ecosystems.

INNOVATION

Room 1A

11:30 - 12:15

How IoT Is Transforming Business Models

The Internet of Things revolution is starting to have an impact beyond operational efficiencies and new product capabilities. With the corresponding surge in data collection, there are vast new opportunities to create new services and products. This session features an open talk with leaders on the art of the possibility in this dynamically-connected world.

13:15 - 14:00

The Innovative Role of Telcos in Transforming the IoT Market

Telcos have a leading role in developing and advancing innovations in the IoT market. One network innovation crucial to the Internet of Things is industry-grade connectivity. The data transported over this network has to be converted efficiently so that intelligent reactions can automatically be triggered. By pairing their connectivity with strong partners telcos can offer their customers vertical solutions that cover the whole IoT value chain.

16:00 - 17:00

Big Design: How Systems of Systems are changing what we're designing, and what we need to manufacture

As products, buildings, and infrastructure get smarter, more connected, and data-rich, design must expand from a singular focus on discrete things and structures towards the design of adaptive, modular, intelligent, and interdependent systems. This talk will showcase what frog sees as the emerging conceptual architecture of Big Design, and give examples of how this is changing what, and how, we make things.

17:00 - 18:00

IoT Innovation InTechnology

The gold standard for business strategy for many years was "sustainable competitive advantage". Things have changed. Successful companies today are using a different script: continuous innovation. Continuous innovation is a core set of corporate practices that involve strategy leadership and operational iteration; it includes continuous reconfiguration, options valuation, healthy disengagement, but above all building an innovation proficiency.



Create the Internet of Your Things

Stop by Microsoft's booth to learn about the latest IoT innovations from Microsoft.



Improved Efficiency
Reduce costs and eliminate inefficiencies



Greater Innovation
Increase revenue with existing assets and services.



Business Transformation
Find opportunities to create new revenue streams

16 Wed - PROGRAM DETAILS

TECHNOLOGY

Room 1B

11:30 - 12:15

Getting to IoT Interoperability

Building systems that talk to each other is critical to widespread adoption of Industrial IoT technologies. This session will review the requirements for a connected, interoperable environment in the age of the Industrial Internet. The speakers are co-leaders of the Technology Working Group for the Industrial Internet Consortium and lead authors of the just-released Industrial Internet Reference Architecture document.

13:15 - 14:00

Real-time Streaming Analytics Platform -- Architectural Principles, Trade-offs and Lessons Learned

The key principles in standing-up a scalable and high performance data management and analytics platform that delivers insights in near real-time are not trivial. When sensor data arrives in the system until when insight is delivered happens in a matter of seconds. This case study shows a platform for the smart water and smart grid domains that bear semantic modeling, metadata management, and heterogeneous data, APIs, and automation.

16:00 - 17:00

Understanding the Internet of Things (IoT) Solution Stack

The Internet of Things (IoT) like Web, mobile and other technology movements that came before, has some fundamental elements and patterns that are important to understand. Whether they are obvious or not, your Internet of Things (IoT) project will have applications, sensors, actuators, communication modules, data transformation and cloud-to-cloud integrations.

17:00 - 18:00

Empowering The Future of IoT with API Management

The IoT movement is generating business opportunities across industries by transforming isolated systems into intelligent objects. API management is key to interoperability, scale, and control for IoT. Since APIs have become commonplace, IoT deployments can benefit from this proven architecture. Rob will walk audience members through everything they need to know about how APIs and API Management are paving the path for the future of IoT.

MANUFACTURING

Room 2

11:30 - 12:15

Driving To a Zero Defect Strategy: IoT Use On The Assembly Line

Rexroth is a global leader in drive and control technologies, providing productive, energy-efficient and customized solutions around the world. This session will focus on how the company is using IoT solutions in the industrial environment, namely in car production where it uses process data for automated data analysis – all this with focus on productivity increase and 0-defect-strategies.

13:15 - 14:00

Secured Smart Factories - Increase Uptime, Reduce Costs, Protect IP

Connected manufacturing sites are increasingly becoming attacked. The IP and know-how used, communicated and stored in and between manufacturing sites is highly valuable and needs to be protected against theft and copying. We will present how the implementation of the right security for the IoT will lead to an increase in uptime, reduction in costs, and protection of IP and know-how and show the technology and solutions available today.

16:00 - 17:00

Asset Efficiency with Predictive Analytics

Asset efficiency is the key driver for competitiveness in manufacturing. A recent study on maturity of Asset Efficiency from Infosys and the Institute for Industrial Management (FIR) at Aachen University revealed that 85 percent of manufacturing companies globally are aware of asset efficiency, but only 15 percent have implemented it at a systematic level. Current challenges include lack of instrumentation of the assets, missing real-time data analytics, lack of context and holistic focus with other aspects of efficiency like energy, utilization, operations, and serviceability. See & learn about Failure mode analysis prediction using engineering knowledge - Mapping and modelling of the asset, development of an IOT platform stack for real-time data collection and predictive analytics.

17:00 - 18:00

What Is The Role Of Leaders In IoT Operational Transformation?

IoT is about transforming foundations of manufacturing industries, creating new business models, new customer experiences, and sharing data. This transformation requires leaders who are able to work outside their comfort zones, lead and guide others, and engage in that critical change management process that has to accompany IoT operational transformation. IIoT is disruptive, and to disrupt, you need innovators, facilitators, and great leaders.

TRANSPORTATION

Room 3

11:30 - 12:15

The Connected Flight

No one likes flight disruptions. Our clients are bridging OEM predictive health insight trends across an operating fleet of aircraft in context of real-time flight operations to minimize disruption and maximize availability of aircraft assets.

13:15 - 14:00

The Connected Car

The intersection of automotive technology and innovation has merged on the IoT fast lane with the advent of the Connected Car, which is revolutionizing both personal and business travel. Discover how sensing, inter-connectivity, and intelligence makes driving safer, more efficient, and pleasurable. Learn how designers, manufacturers, and tech industry leaders have tackled connectivity, security, and other challenges in the automotive realm.

16:00 - 17:00

Advanced Positioning Service For Connected Vehicles and Smart Mobility Services

Better positioning of vehicles inside cities can bring benefits to service operators: improving user experience, shortening trip times, more efficient use of the fleet, improving quality service and a more ecological use of energy resources. European Global Navigation Satellite System (EGNSS) technology has been the key to enhancing the positioning data inside cities. The positioning service will be demonstrated for several use cases.

17:00 - 18:00

The Future of Transportation in the Industrial Internet of Things

The Industrial Internet of Things (IIoT) will forever change transportation. Real-time communications will transform vehicles into smart, and soon autonomous, machines. They will integrate with traffic control to create a new generation of intelligent highways. This session will cover the IIoT's impact on transportation, with examples in autonomous vehicles, fleet tracking, air traffic control, and hardware-in-the-loop factory testing.

HEALTHCARE

Room 4

11:30 - 12:15

Healthcare On \$1 A Month

Healthcare delivery models have involved an in-person consultation between a doctor and patient, with occasional patients being admitted to hospitals for more intensive care. This 500 year old business model is being disrupted by technology. Through the enablement of aggregation of demand, a doctor could give meaningful inputs to 30 patients within a single 1-hour car ride; at a fraction of the cost and this talk will illustrate one such model.

13:15 - 14:00

Improving Complex Patient Care Through Big Data Analytics

This session will focus on Coordinating Chronic Disease Management through Big Data to provide a single patient view from large volumes of Big Data and making it easier for multiple providers – doctors, nurses, social workers – to coordinate care.

15:00 - 15:45

The IoT of Healthcare: Driving down costs and improving patient outcomes

The healthcare Internet of Things market segment is poised to hit \$117 billion by 2020 and to slash healthcare costs by an estimated 25 percent. Beyond the numbers, IoT is reducing medical errors, improving the quality of life and helping to actually save lives. This panel discussion will focus on the opportunities, challenges and realities for the medical community in the face of disruptive technologies.

16:00 - 17:00

IoT as foundation of the digital strategy in life science

Traditionally, the life science industry has been a conservative adopter of technology, but IoT promises to fundamentally reshape the field. To realize IoT's full potential, companies should take a serious look at its benefits: security and data privacy, reliability, and interoperability. This session will show how IoT increases productivity notably in Supply Chain of biotech companies, as a foundation for a revolutionary long term digital strategy.

17:00 - 18:00

The Future of Healthcare Related Wearables

Accenture and Philips Healthcare have been early leaders in exploring the use of wearable in healthcare, such as a proof-of-concept Google Glass integration with medical equipment for clinician use in 2013.

16 Wed - PROGRAM DETAILS

ENERGY

Room 5

11:30 - 12:15

The Internet of Energy

Endesa is harnessing the power of big data, social networking, cloud computing and machine learning to rapidly deploy applications to enable a significant improvement in operational efficiency through advanced power fraud detection. C3 Energy will provide an in-depth case study describing the technology stack, project implementation schedule, economic rationale, and project results.

13:15 - 14:00

Improving Operational Efficiency and Optimizing Customer Service

Fortum district heating network in Espoo, Finland, migrated its operations from an existing SCADA and several proprietary network management software solutions. These solutions received data from several sources and were not integrated into a single system. The company deployed an IoT solution that enabled integration of all data sources into a single big data processing engine that enables faster analysis of the network status.

16:00 - 17:00

Downstream Oil & Gas - Role of IoT in Offshore Drilling

The Internet of Things is leveraging new compute infrastructures at the network edge. Servers optimized for specific workloads drive time-critical data analysis into autonomous control loops. High-density edge servers enable rapidly increasing volumes of data to be analyzed within constrained space and power envelopes. This look at offshore drilling will illustrate how these trends in compute density are reshaping the Internet of Things.

17:00 - 18:00

IoT Solutions For Oil and Gas Infrastructure - A case Study of Phillips 66

In Oil and Gas organizations large amounts of important operational data are locked within separate systems and applications due to the inherent constraints of existing architecture. Learn how Oil and Gas Companies, such as Phillips 66, have overcome these challenges by standardizing field communications, reducing data latency and bandwidth consumption and adding data security to integrate this vital information across the enterprise.

Smart solutions for the motor insurance industry

Vodafone Automotive offers market-leading solutions – like UBI, theft alerts and automated breakdown notification – that streamline claims processes, boost profits and reduce churn.

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Power to you



17 Thu - PROGRAM DETAILS

KEYNOTES

AUDITORIUM

8:30 - 9:15

The IoT and the New Economics of Creating and Capturing Value

The "Information Value Loop" describes how information creates value, how to increase that value, and how understanding the relevant technology is central to positioning an organization to capture value. Michael Raynor will discuss value creation and capture as linked to innovation, using cross-industry user examples of how companies have been able to innovate their methods of value generation through information.

9:15 - 10:00

Legal Implications of Internet of Things

As the impact of IoT on business continues to grow exponentially, so too are the legal considerations caused by the corresponding explosion in data. This panel will focus on the legal implications of IoT including security, privacy and liability concerns when foreseeability disappears due to smart, connected devices.

10:00 - 10:30

GE's Digital Twin and Industrial Internet Leadership

Colin will discuss GE's ongoing effort to build living digital models for all of its machines, from jet engines and power generation products to locomotives, medical imaging systems and more. Much as digital profiles of humans have driven the growth and expansion of the consumer internet, the creation of digital profiles for machines that transport, power and cure the world will create new business opportunities in the industrial internet.

10:30 - 10:45

CERN Advancing Technology

While discovering the basic elements of what makes up our world, CERN has always been on the forefront of technological advancement. The WWW and the Grid computing were developed at CERN to support the physics experiments and are now used in many other sectors of society. In the next run of the LHC accelerator, CERN's experiments will be acquiring data at an unprecedented rate and we must continue to innovate to meet the new challenges.

10:45 - 11:15

Digital Business Era: Stretch Your Boundaries

TBD

INNOVATION

Room 1A

11:30 - 12:30

The Future of Healthcare Wearables

Marco Della Torre will take the audience through state-of-the-art wearables and give them a look forward into the future of IoT and wearable technology. Discover the cutting edge technology trends that are driving the next generation of IoT and wearable products. See how the converging worlds of home, enterprise, health and entertainment technology will leverage those technologies in ways previously unimagined.

13:30 - 14:15

The IoT of Weather: How 26 Billion Forecasts Improve Decision Making

A retailer, a trucking fleet, an airline and an insurance company are now a step ahead of the weather. They are changing their processes, altering driving routes and flight paths, adjusting their staffing and inventory, and even alerting customers about severe weather events because they have the most accurate, precise, and real-time weather information. Learn how Weather Means Business™ at this exciting session featuring The Weather Company.

16:15 - 17:00

Smart Cities: IoT From Policy Makers

Increasing urbanization is putting unprecedented pressure on cities to constantly balance the challenge of resource constraints against environmental concerns. The solution lies in smarter, connected cities. Gartner, Inc. estimates that 1.1 billion connected things will be used by smart cities in 2015 and will rise 10-fold by 2020. This panel will explore our cities today and how they are preparing for a more connected world in the future.

17:00 - 18:00

Beyond IoT - Connecting with the Emerging Nervous System of Ubiquitous Sensing

This talk will overview the broad theme of interfacing humans to the ubiquitous electronic "nervous system" that sensor networks will soon extend across things, places, and people, beyond the 'Internet of Things'. The speaker will illustrate two avenues of research - one looking at a new kind of digital "omniscience" and the other looking at buildings & tools as "prosthetic" extensions of humans drawing from projects running the speaker's group at the MIT Media Lab.

TECHNOLOGY

Room 1B

11:30 - 12:30

IoT Methodologies for Success

IoT requires new, improved methodologies. Existing popular approaches may be part of the future, but we will also need many new methods and practices - some of which we don't even know about today. This panel will review existing and emerging methodologies to help business and IT executives bridge the gap between OT and IT, to better plan and manage IoT projects.

13:30 - 14:15

Best Practices In Securing Industrial Systems

The security of a system is only as good as its weakest link. In a world of billions of connected devices, cybersecurity becomes complicated and challenging. This session features experts who will discuss best practices in security for your systems today and the steps underway to build security into future industrial systems.

15:15 - 15:45

Create the Internet of Your Things

The Internet of Things (IoT) is driving change, efficiencies, and insights for organizations that know how to use it. Microsoft will outline its vision for IoT and how Azure IoT Suite and Windows 10 IoT can accelerate the development and deployment of IoT solutions and services for your business and help you build this upon the foundation of your existing things.

16:15 - 17:00

Language Technologies Enabling new Business Models for the IoT

The most common user interface (UI) at the devices within the IoT might be the Zero UI. However, machines still need to communicate, which might be achieved thanks to language technologies such as speech recognition, semantic analysis, and machine translation. The key question is how to design a sustainable business model that reinforces the competitive advantage of both technology companies and integrators offering innovative solutions.

17:00 - 18:00

The Role of Standards in IoT

Everyone agrees that standards are critical in the emerging IoT landscape. Yet what's less clear is what the standards themselves should be. Join this panel for a lively discussion on the requirements for IoT standards, who is leading, and what's next for these standards organizations.

MANUFACTURING

Room 2

11:30 - 12:30

Assembling Orders in Amazon's Robotic Warehouses

Amazon Robotics' mobile-robotic systems assemble and ship millions of orders every week. Most represent a unique subset of the millions of items in the warehouse and the constant drive for faster delivery means many orders must ship within a couple hours. This session will highlight how mobile robots and pick-operators are working to solve this problem, the recent Amazon Picking Challenge and the next big frontier for robotics in warehousing.

13:30 - 14:15

Developing Smart Tools for the Airbus Factory of the Future

In a manufacturing facility, smart tools can help simplify the production process and improve efficiency by removing physical data logs and manuals. Previous initiatives linked to "paperless projects" were focused on "paper suppression," or replacing paper with tablets, but they still consumed "passive/dead data." Smart tools enable another alternative, "data in context," which is generated and consumed continuously—in other words, "live data"

16:15 - 17:00

How IoT changes machine building

Trumpf's customers are located all around the world and in the last five years they have connected more than 15,000 machines to their Telepresence Cloud. Klaus Bauer will talk about how IoT changes the machine building and will provide case studies combined with technical details on best practices.

17:00 - 18:00

Blast Chillers: How IoT Impacts The Manufacturing Industry: A case study for Smart Connected Blast Chillers

IoT is changing factories everywhere, yet challenges remain in enabling IoT with older legacy system. This session will focus on technologies that can turn legacy Blast Chillers and other machinery into smart, connected devices which collect and analyse existing data to benefit in down-time reduction, preventive maintenance, remote control of devices, and cost reduction of maintenance and support.

17 Thu - PROGRAM DETAILS

TRANSPORTATION

Room 3

11:30 - 12:30

Automated Vehicles 2016

Corey Clothier will share his experience of current automated vehicle development and the likely progression to consumer use including how they will leverage IoT technologies. Corey will also talk about his plans for automated vehicles development and deployment.

13:30 - 14:15

IoT In An Integrated Industry: Changing Operating Sequences in Transportation

Aircraft and train manufacturers are looking into the future with a whole new perspective. The percentage of their business which is covered by MRO (maintenance, repair, overhaul) is growing into a new dimension. Therefore the industry is looking for a solution to provide a communication into the lowest field level, which means every single item can tell its name and history. RFID is now growing into these requirements.

16:15 - 17:00

Execution != Efficiency: Transportation Management In The New IoT Powered Business Universe

More and more businesses are utilizing IoT for their transportation and logistics needs. This session will illuminate business changes, expanding KPIs, new sense and respond IoT capabilities, and demonstrate that traditional TMS systems deliver execution capabilities but sacrifice efficiency. Learn how to prepare and profit from a better transportation paradigm.

17:00 - 18:00

Industrial Internet Transformation of Global Supply Chains

The Industrial Internet revolution is rapidly transforming the global supply chains that deliver the US\$78 trillion in goods and services produced around the world every year. This session will discuss how industrial internet technologies are being used across the supply chain – from enabling cloud-delivered real-time supply chain visibility and optimization to developing technologies for the future of digital manufacturing and design innovation.

HEALTHCARE

Room 4

11:30 - 12:30

Connected Healthcare

This session features a discussion on the policy view of connected healthcare challenges and opportunities.

13:30 - 14:15

Use of Clinical Data to Coordinate Care of Chronic Diseases

IoT in the Hospital; use of clinical data to coordinate care of chronic diseases. Dr. Adam Darkins will bridge the use cases he uses to hospitals / providers impact. He will also look into what all of this means for the design of large systems.

16:15 - 17:00

Security in Mobile Healthcare

Mobile device usage in healthcare environments has exploded, with more than 2 out of 5 physicians already using a smartphone or tablet during patient consultations. While the benefits of deploying mobile devices are well known, there are new privacy concerns and other risks. This session will discuss how devices must be managed to adhere to patient privacy and security risks.

17:00 - 18:00

How Global IoT Connectivity Transforms Assisted Living

The world is facing a health spending challenge. The development of Health Information Technologies enables routine medical acts and allows professionals to concentrate on critical care. Patients are empowered to conduct self-monitoring with assisted living solutions. The IOT creates new opportunities, especially with global connectivity making connected health easier. The presentation highlights new use cases and commercial solutions.

ENERGY

Room 5

11:30 - 12:30

Business Transformation through Industrial IT - Chevron's 2020 Strategy

This talk describes Chevron's 2020 IT Strategy for North America's Exploration and Production Opco. It highlights Chevron's digital transformation via 4 mega scenarios and describes associated activity plans, lessons learned and best practices.

13:30 - 14:15

Generating Value from IoT data in Renewable Energy

This session is a case study on how Envision Energy, the largest Chinese offshore wind turbine supplier, uses IoT Analytics and Real-time Data to analyze its turbine sensor data with greater granularity. The company has moved from analyzing turbine data every ten minutes to every few seconds, allowing it to quickly identify actionable insights with significant business benefits including an overall 15% improvement in productivity.

14:30 - 15:15

Getting Down to the Business of Industrial IoT in Energy

Industrial IoT has provided organizations with unprecedented access to high fidelity and high quality data for real-time monitoring, tracking and decision making. This panel of leading Energy executives will discuss how Industrial IoT has provided their respective organizations benefits in operational efficiencies and creation of new products and services.

16:15 - 17:00

Optimizing Use of Energy in Buildings

The design and implementation of a residential building in Hospitalet de Llobregat, where we were challenged in getting the most sustainable city building presented, considering a very tight budget and that the client is being targeted of a classic profile. We've given the building very advanced solutions technologically but as transparent as possible to the people thereof. We will place emphasis on the design and automation of installations

17:00 - 18:00

Using the Smart Grid to Reduce Operational Costs

National Grid UK, the transmission system operator for nearly 20 million people are evolving as the need for new systems come online. They have deployed a monitoring system that produces vast amounts of data and feeds back to a central location which helps them operate their system more efficiently and better plan for investments. This system enables them to customize what they need today, while providing an adaptable platform for the future.

AUDITORIUM

18 Fri - PROGRAM DETAILS

KEYNOTES

AUDITORIUM

08:30 - 09:15

Financial Service Meets IoT, How to Prepare For Early Stage to Late Stage Funding

Global market innovation and disruption has been enabled by the funding efforts of financial institutions at all stages of the investment ecosystem. Join us as we discover the state of the IoT investment process and explore the recommended pathways towards strategic investment alignment between IoT innovation and effective funding opportunities.

09:15 - 10:00

Innovation in IoT: A Conversation With Startups

Join the Financial Times contributing editor as she leads a lively discussion with entrepreneurial companies on the opportunities for innovation and the unique challenges facing them, in this fast-changing, fast-growing era of IoT.

10:00 - 10:45

The CXO's Guide to the Cloud: A panel discussion

The computing power required for the Internet of Things is staggering. By one estimate, 120,000 new servers per year would need to be deployed to accommodate the data from the billions of connected devices. Cloud computing is emerging as an optimal way to address the unknown demands for computing power. Join experts as they discuss the benefits and challenges of deploying cloud computing in IoT environments.

10:45 - 11:15

Bridging the Digital Divide: How the Internet in the IOT Can Transform the Global Economy

Frost & Sullivan will unveil new research on how the expansion of the Internet can help governments to drive transformational growth for their economies, leading to better healthcare outcomes, expand access to education, improve the environment and drive sustainable and inclusive growth. This session will provide a prescriptive approach to global governments on why a digital agenda is not just good politics but makes eminent economic sense.

11:15 - 11:45

Next Gen IoT Vehicles

Corey Clothier, Local Motors automated vehicle lead, will share a vision of the rapidly approaching future of vehicles that are designed in the cloud and built on demand using 3D printing technology. He will also talk about his plans for automated vehicles and how they will be developed and operated with IoT tech and process.

INNOVATION

Room 1A

12:00 - 12:45

Best practices for IoT deployments

Learn about current best practices in IoT from smart heating to connected factories. The session will cover what is requested for a successful deployment and the barriers and the key enablers for successful business outcomes.

TECHNOLOGY

Room 1B

12:00 - 12:45

Intelligent IoT Platform Serving the Future Ecosystem

With computing and communication capabilities, things are obtaining the intelligence to generate, process, and consume information and then share with other things. These will form an intelligent mesh: a computing and communication intelligent ecosystem. Inside, the Intelligent networking platform is the heart, which should locate and connect things wherever /whoever/whatever number they are, and whatever protocol or language they are using.

MANUFACTURING

Room 2

12:00 - 12:45

Digital Manufacturing 2020: How Visibility Drives Value In The Connected Enterprise

A recent SCM World/Cisco survey of 400 Manufacturing Executives and Plant Managers identified the immense value of the connected enterprise, with downtime reductions by 48%, reductions in defects by 49%, improved inventory by 35% and improved OEE by 16%. The session covers Cisco's view of Manufacturing by 2020, describes how technology enables supply chains, and discusses customer's experience with Cisco's Digital Manufacturing Solutions.

TRANSPORTATION

Room 3

12:00 - 12:45

How IoT is transforming transportation

Inventory and asset tracking systems, aviation diagnostics, connected cars, smart city transport networks, and the world of transport and logistics are leading the way in the IoT revolution. Whether it's optimizing routing, tracking the location and security of products, keeping flights running smoothly, monitoring a car's engine or finding parking spaces, this session will explore the multitude of solutions offered by this exciting new market.



All GENERAL SESSIONS taking place Friday 18th after 13h will be open to all attendees of the event including Exhibition Pass owners.

HEALTHCARE

Room 4

12:00 - 12:45

Remote caring for vulnerable populations during a Pandemic

The Medical Device Plug and Play Interoperability Program at Massachusetts General Hospital has developed an innovative approach to improve patient care and reduce risk of healthcare worker exposure to disease. Using remote control, closed loop control, and remote data access, they can improve patient outcome and reduce the exposure of hospital personnel by limiting the number of times caregivers enter the environment to change device settings.

ENERGY

Room 5

12:00 - 12:45

The Internet of Things in High Energy Physics Experiments

Similar to the IoT concept, devices are connected to a data network and provide a big data, which is used to find patterns (Pattern of Life analytics), High Energy Physics experiments produce big data, collected by devices to find patterns of what makes up our world - the possible evolution of the DAQ and Control systems towards the "IoT" and the handling of the Big Data produced is a subject for the future design.

GENERAL SESSIONS

13:45 - 14:30

AiKiDo for IOT

Combining our knowledge and energy along our path. Leverage open source based open data platforms to perform analytics at scale to create insights & value. 合 - ai - joining, unifying, combining with the power of Open Source based Analytics Platform. Create and manage knowledge as IOT transforms people and processes. 氣 - ki - spirit, energy with the power of Knowledge Based Engineering. Design Thinking is at the core of identifying and solving problems. 道 - dō - way, path with the power of design led initiatives. Learn how a combination of AiKiDo will yield impactful value with IOT.

13:45 - 14:30

Creating IoT Solutions

13:45 - 14:30

How Low-Cost Hardware, Wide-Spread Connectivity, and Community-Driven Open Source Are Enabling the IoT

The IoT basic concept of collecting data from as many sources possible to drive better decision making, create process innovation and realize additional revenue has been in use at large enterprises with deep pockets for decades. So what's changed? In this session, Red Hat will discuss the impact

13:45 - 14:30

How To Secure Billions of Insecure IoT Devices

In our rush to create billions of IoT devices, we are building a system that is inherently insecure. Shortcuts taken have already led to many security incidents. Damages ranged from data breach to financial damage and even to physical injury and death. In short, we can't trust today's IoT. But there are proven solutions that can be applied. This talk shows how trust can be embedded into the IoT, using open standards with a proven track record.

13:45 - 14:30

Smart Everywhere: Revamp your Business through IoT Technology

14:30 - 15:15

Zero Knowledge Is Power

Discover how cloud-synchronized, zero-knowledge keys become the foundation for scalable IoT security. Learn how new approaches to cryptography can help manage identity, trust, and encrypted IoT communications in industrial applications with speed and security.

14:30 - 15:15

Edge/Fog vs. Cloud: Which is right for Your IoT Environment

With billions of connected devices—and more on the horizon—the amount of data being generated is growing exponentially. Edge or Fog Computing processes data in the locality of the device, rather than relying solely on Cloud computing for analysis. This session will review the advantages and challenges of both approaches, review emerging technologies (like distributed meshes), and make recommendations for best practices for connected environments.

14:30 - 15:15

The future of Manufacturing

Our world is undergoing the next wave of industrial revolution through a confluence of physical assets with the cyber world, reviving and transforming manufacturing processes. The future factory is moving towards a shared asset model where made to order could be a reality with traditional manufacturing adopting boundary less manufacturing. Join HCL to understand this transformation in manufacturing ecosystem and how it would redefine businesses.

14:30 - 15:15

Stories from the Edge: Lessons Learned for the IoT from the Development and Product Launch of an In Vivo Biosensor

SBM and its partners have developed a biosensor technology for real-time continuous monitoring of multiple analytes in behaving animals. These devices are used in drug discovery and by academic research labs. This talk will include some technical detail, but is primarily aimed at an audience interested in understanding some of the challenges associated with bringing a novel fieldable sensor technology to application-driven early users.

TALENT MARKETPLACE

Friday 18th

Come to the Talent Market Place on Friday the 18th, and we will help you to build your future

Are you prepared for the Internet of Things revolution? Companies are looking for people like you.

On Friday, Sept. 18, the **Talent Marketplace** of the **IOTS World Congress** is being organized, which will be a meeting point among professionals who offer their talent and first-rate companies that entrust their selection processes to an environment of innovation.

You will have the opportunity to personally interview with businesses that are looking to incorporate new talent with technical or management skills in the sec-

tors of manufacturing, health, transportation, logistics, consulting and energy.

Also, these companies will present their best business cases, speak about topics in current development, the situation in their corresponding fields and the types of profiles most in demand in the market.

The session and pre-registration is open to the public and caters to all those professionals who believe their skills may be attractive within the Internet of Things.



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Sign up:



INNOVATION MARKETPLACE

Thursday 17th in VIP Room*
Friday 18th in Innovation Market Place Area*

Next September 17th and 18th will be celebrated the IoT Innovation Marketplace, under the umbrella of the IoT Solutions World Congress. Since Henry Chesbrough's concept of Open Innovation, we know that businesses rarely innovate in isolation. Business are aware that innovation can happen on a daily basis outside their own organisations. The IoT Innovation Marketplace is an activity designed to contribute to overcome the gap between demand and supply of innovation, specially focused in this occasion on the Internet of Things Industry applications.

The Marketplace has launched an international call looking for the best solutions in Internet of Things. An expert committee has selected the best projects. Major companies and investors will receive 10-15 best solutions from the best experts worldwide at the IoT. The first day, new ideas, entrepreneurs, start-ups and

SMEs from around the world will meet with major companies as National Instruments, General Electric, RedHat, Bosch, Intel and HCL Technologies to show them their innovative IoT solutions. In the second day, the selected projects will also meet investors as AIAC, Compas Equity Partners, Eix Technova, Keiretsu Forum, Avet Ventures and CIMNE Tech Ventures. The main location of the Marketplace will be the VIP Room at the Congress Area from 9:30h.

In this first edition, the platform has been received 193 entries and it has been selected 43 projects from twenty different countries. The 65% of the projects selected will be from foreign countries as USA, UK, Germany, Greece, Finland, Italy, Brazil, Jamaica or China. The two main areas that have received solutions are, in equal proportion, Energy and Transport & Logistics.

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Information correct as of September 9th

*Access by previous appointment only

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Tel. +34 932 902 419
admissions@salleurl.edu
www.BESLaSalle.net

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Richard Mark Soley
EXECUTIVE DIRECTOR
INDUSTRIAL INTERNET
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Jayraj Nair
HEAD OF IOT PRACTICE,
AVP ENGINEERING
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Jeff Fedders
IOT STANDARDS CHIEF
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Stan Schneider
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REAL-TIME
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Michael Lynch
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Karthik Natarajan
GLOBAL HEAD, INTE-
GRATED ENGINEERING
SOLUTIONS (IES)
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Francisco Jariego
DIRECTOR OF INDUS-
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TECHNOLOGY LABS
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DIRECTOR BUSINESS
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PRINCIPAL OWNER,
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Said Tabet
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Lynne Canavan
VICE PRESIDENT
INDUSTRIAL INTERNET
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Ron Zahavi
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GLOBAL CAMPAIGN
MANAGER IOT
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Bill Hoffman
PRESIDENT - OBJECT
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Narayanan Ramanathan
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NECTED ENGINEERING
& ANALYTICS
TECH MACHINDRA



Jay Manciocchi
SENIOR MANAGER AND
CONTENT MARKETING
LEAD IN THE INTERNET
OF THINGS (IOT) GROUP
INTEL

IOTSWC TEAM



Roger Bou
DIRECTOR
IOT SOLUTIONS
WORLD CONGRESS
rbou@firabarcelona.com



Pedro Luís Sánchez
SALES MANAGER
psanchez@firabarcelona.com



Benjamin Rhatigan
SALES EXECUTIVE EUROPE
brhatigan@firabarcelona.com



Jose Manuel Gomez
SALES EXECUTIVE USA
jgomez.op@firabarcelona.com



Jorge Chial
PROJECT MANAGER
& VISITORS
iots.visitors@firabarcelona.com



Jannik van Boxtel
PROMOTION & ADVERTISING
RESPONSIBLE
jvanboxtel@firabarcelona.com



Marta Milla
MANAGEMENT SUPPORT
mmillan@firabarcelona.com



Richard Soley
ADVISORY COMMITTEE
DIRECTOR,
INDUSTRIAL INTERNET
CONSORTIUM
soley@iiconsortium.org



Bill Hoffman
PROGRAM COMMITTEE,
DIRECTOR,
INDUSTRIAL INTERNET
CONSORTIUM
hoffman@iiconsortium.org



Lynne Canavan
PROGRAM DIRECTOR,
INDUSTRIAL
INTERNET CONSORTIUM
canavan@iiconsortium.org



Terry Wiese
PROGRAM MANAGER,
CHARLES RIVER
CONSULTING
terrywiese@gmail.com

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