



Envisioning and Achieving the Internet of Things Potential

The **2nd Annual IoT Global Innovation Forum**, June 14-16, 2016 in Barcelona, Spain, will bring together leading technology innovators, business strategists and senior executives from around the world for two days of focused networking and information sharing at the IoT cutting edge. Expert speakers will discuss the latest applications for traditional commercial processes as well as new business models and opportunities within the emerging Internet of Things ecosphere.

Through a series of in-depth presentations and interactive panel discussions, top industry executives will help attendees envision and implement the full potential of IoT in both consumer and industrial sectors, with an emphasis on the most intriguing case studies and technology innovations. If you are guiding a business in today's technology climate, don't miss this high-value opportunity to network with your senior peers and leverage the coming Internet of Things tidal wave.

An Executive-Focused, Cross-Stakeholder Event

Through a series of in-depth presentations and interactive panel discussions, top industry executives will help attendees envision and implement the full potential of IoT in both consumer and industrial sectors, with an emphasis on the most intriguing case studies and technology innovations. If you are guiding a business in today's technology climate, don't miss this high-value opportunity to network with your senior peers and leverage the coming Internet of Things tidal wave.

Topics to be addressed include

- ✓ Wearables and the consumer IoT
- ✓ Advances in connected devices and appliances
- ✓ IoT and the emerging smart home
- ✓ Business success strategies and case studies
- ✓ Ensuring IoT security in a changing threat landscape
- ✓ Toward the IoT smart city
- ✓ Collaborative disruption: New era, new ecosystem
- ✓ Smart robots for smart industries
- ✓ Optimizing digital performance for manufacturers
- ✓ Leveraging value from Big Data analytics
- ✓ IoT at the Edge: Cloud computing and mobile device trends
- ✓ and more!



"The conference was well organized, the presentations were high quality, and the size was just right. By far, it exceeded my expectations."

— Roman Staszewski, President & Co-Founder
Zenseio LLC
on 2015 edition in Dallas, TX

Why Participate?



Focused on Innovation

The IoT is all about innovation and pushing the envelope. This event is unique in its focus on technology and business model innovations driving the IoT at the cutting edge.

Global in Scope

Network with developers and executives from around the world who are shaping the Internet of Things future.

In-Depth and Authoritative

Dig deep into the latest technology advances and business models through objective presentations and panel sessions by industry thought leaders

Strategic and Forward-Looking

Develop and refine your strategy for success in the coming world of IoT - examine business models and strategies for future growth

Comprehensive in Scope

Understand how the IoT will help enable the Smart City and Smart Home of tomorrow and benefit companies across a range of consumer and industrial sectors

Who Should Attend?

The IoT Global Innovation Forum is intended for business executives, technology pioneers, and growth strategists who are looking to leverage the emerging IoT opportunity.

This includes:

- ✓ Senior business executives and planners
- ✓ IoT hardware and software vendors
- ✓ CIOs and IT professionals
- ✓ Commercial and industrial IoT technology adopters
- ✓ System integrators and consultants
- ✓ IT developers, designers and project managers
- ✓ VC investment and financial professionals
- ✓ Regulatory and government representatives
- ✓ Researchers and academic professionals
- ✓ Internet service provider, networking, and communications companies
- ✓ Consumer electronics and computing companies
- ✓ Start-up firms and incubators



**"Good cross section of experts and viewpoints.
Exceeded my expectations. I would definitely
recommend it!"**

*Joel L. Webb, IT Architect - Smart Grid - Grid Edge
Oklahoma Gas & Electric*

Tuesday, June 14, 2016

- 12.00 - 17.00 On-Site Registration Open
- 13.30 - 17.00 **Pre-Conference Workshop 1: Wearables and the Consumer IoT**
digital worx, Qualcomm, Intel, Remote Eye, Solgeniakhela
- 13.30 - 17.00 **Pre-Conference Workshop 2: Coping with IoT Data on the Google Cloud Platform**
Google

Wednesday, June 15, 2016

- 07.30 - 17.30 On-Site Registration Open
- 07.30 - 08:30 **Networking Breakfast**
- 08.30 - 09.00 **Opening Keynote Address: Advances in Connected Devices and Appliances**
Raj Talluri, Senior Vice President, Product Management, Qualcomm Technologies
- 09.00 - 10.15 **Session 1: IoT and the Emerging Smart Home**
Zonoff, Icontrol Networks, Tendril
- 10.15 - 10.45 **Networking Break**
- 10.45 - 12.00 **Session 2: IoT Business Strategy and Real-World Case Studies**
Deloitte & Touche, Internet of Business, AZLOGICA
- 12.00 - 13.30 **Industry Networking Luncheon**
- 13.30 - 14.00 **Keynote Address: Growth Strategies, Execution and Monetization for the IoT Market**
Steve Brumer, Partner, 151 Advisors
- 14.00 - 15.15 **Session 3: Ensuring IoT Security in a Changing Landscape**
The MITRE Corporation, Intertek, LogMeIn
- 15.15 - 15.45 **Networking Break**
- 15.45 - 17.00 **Session 4: Toward the IoT Smart City**
Nokia, Urbiotica, Silver Spring Networks, Isle of Man Government
- 17.00 - 18.00 **Session 5: Collaborative Disruption: New Era, New Ecosystem**
L Marks, Uptake
- 18.00 - 19.30 **Networking Drink Reception**

Thursday, June 16, 2016

- 07.30 - 17.30 On-Site Registration Open
- 07.30 - 08.30 **Networking Breakfast**
- 08.30 - 09.00 **Keynote Address: IPv6 and the Future of IoT**
Dr. Latif Ladid, President, IPv6 Forum
- 09.00 - 10.30 **Session 6: IoT Implications and Opportunities for Manufacturers & Commercial Enterprises**
Economic Strategy Institute, Nelmia Robotics Insight, Helium Systems, AutoGrid
- 10.30 - 11.00 **Networking Break**
- (Continued)*

Thursday, June 16, 2016 (continued)

- 11.00 - 12.15 **Session 7: Obtaining and Leveraging Value from Big Data Analytics**
Infobright, PTOLEMUS Consulting Group, Splunk
- 12.15 - 13.30 **Industry Networking Luncheon**
- 13.30 - 14.45 **Session 8: Industrial IoT Advances and Horizons**
Xilinx, C3 IoT, IoTium
- 14.45 - 15.15 **Networking Break**
- 15.15 - 16.30 **Session 9: IoT at the Edge - Cloud Architectures & Data Success Strategies**
Sony, Midfin Systems, Snapdata.io
- 16.30 - 17.30 **Session 10: Enabling the Mobile IoT**
Multimedia over Coax Alliance, Ayla Networks, Able Device



"Good lineup of speakers across the broad spectrum of IoT. Provided a diverse range of experiences and technologies."

Daniel W. Engels, Associate Professor
Southern Methodist University

"Good diversity of topics and industry representation"

Erick Olsen, Strategic Marketing Manager, Analog Devices

"The content, quality of presentations, and speakers were EXCELLENT. Very informative sessions. Attendees were knowledgeable and very engaged. It was also a good conference for networking."

Laura DiDio, Director, IoT Systems, Strategy Analytics



Pre-Conference Workshop 1: Wearables and the Consumer IoT

Tuesday, June 14, 2016 • 13.30 - 17.00

The next several years will continue to see double-digit growth in the number of wearable devices in use, according to eMarketer's first wearables forecast. As this connected world continues to evolve at a rapid pace, the opportunities for developers and innovation are more apparent than ever. This half-day Workshop focuses on key technology advances and market opportunities in the emerging IoT wearables space.

Welcome to Pleasantville: A World Designed For Your Good

13.30 - 14.00

Full assistance in every area of living is a key vision of the top IoT key players: Google changed to alphabet, IBM follows five-in-five strategy and Facebook invests in AI. Based upon the data of more over 212 billion sensors in 2020, we are entering a new era of mankind. Software Agents, intelligent objects and predictive bid data analysis will assist us in every part of our lives, from birth to death. But how will these new technological prospects affect our human abilities? How do we learn to solve problems if we have a digital personal assistant for every challenge? Is "Pleasantville" more a social challenge than a technical one? This talk takes us on a trip to Pleasantville, with discussion of the social questions arising from IoT full-assisted life.



Mirko Ross
Co-Founder and CEO
digital worx



Enabling the Next-Generation of Wearable Devices

14.00 - 14.30

The connected wearable device is so much more than a fashion statement -- it's an extension of our daily lives. From tracking health and fitness to improving how you stay connected, wearables are becoming a go-to source for richer information about ourselves on-the-go and in the smart home. This presentation discusses the technologies and platforms shaping several emerging wearable categories including infotainment, fitness, healthcare and more, as well as what we can expect for the future of wearables.



Pankaj Kedia
Sr. Director & Business Lead
Smart Wearables Segment
Qualcomm



Fulfilling Consumers' Needs By Exposing the Power of the Internet of Things

14.30 - 15.00

This presentation will discuss typical activities of a consumer and consider the corresponding consumer requests that could help optimize and automate these activities. The Generalized Personal Assistant (GPA), which is a significantly more scalable version of today's Siri and Google Now, is nominated as a vehicle to serve as an interface between consumers and IoT by fulfilling consumer requests. A concept of GPA interaction with IoT allowing consumers to easily interact with IoT entities and integrate new entities into GPA will be proposed. Finally, we will discuss how GPA may be developed further in order to correctly predict, optimize and automate many consumer activities. Development of GPA technology is of tremendous value for all market participants because it will imply demand for a huge volume of IoT hardware components and software paid services.



Denis Makoshenko
Manager, Moscow Compiler Lab
Developer Products Division
Intel



Networking Coffee Break
15.00 - 15.30

The Monetization of Wearables
15.30 - 16.00

Wearables and Cloud have an innate relationship that is always going to connect the two in terms of usage, metering, and billing. On the other hand, the monetization of wearables is an essential area that needs to be addressed as it paves the way for technology to be profitable and sellable in a mass consumer model for vendors and inventors.

In this session, we will look at how wearables connect to the software layer and how new unique monetization models can pave way to generate ROI from a vendor perspective. We will discuss creating unique business models for wearables through Cloud; the essentials of enabling, monitoring usage and billing wearables; and consumption & subscription billing models for wearables.



Ian Khan
Director of Innovation
Solgeniakhela



Integration of Wearables and Augmented Reality in the Industrial IoT
16.00 - 16.30

This presentation discusses how wearable IoT technology can favorably impact industrial operations by helping companies save money and reduce machine downtime. We will look at a platform that integrates video calls, document repository, augmented reality, company ERP/CRM systems, and wearable smart glasses to enable tech experts to see with their own eyes what the problem is even when they are miles away. Such real-world applications have the potential to significantly help companies increase productivity and enhance customer satisfaction by creating a platform to use Big Data and Internet of Things for large enterprises.



Jordi Boza
CEO
Remote Eye



Pre-Conference Workshop 2: Coping with IoT Data on the Google Cloud Platform

Tuesday, June 14, 2016 • 13.30 - 17.00

One of the most exciting things about the Internet of Things is how much data it generates. This huge sea of data is what allows us to use machine learning and other emerging technologies to give our users useful insights into their lives. Unfortunately, the technologies and protocols we developed to scale the web aren't a perfect fit. They don't always scale in the right way. We need a new set of tools to make our projects successful. Also, the volume of IoT data can catch a lot of IoT startups off guard, especially if their background is more manufacturing than scaling software.

In this pragmatic Workshop, Developer Advocates at Google will share her favorite recipes and strategies for dealing with high volume of IoT data: Google Cloud Pub/Sub, Dataflow, and BigQuery. This Workshop will include live coding, demos, and a discussion of cloud and open source options. The demos will all run on Google Cloud Platform, but the concepts covered will be relevant to other cloud providers too.

- Scaling to handle IoT's big data can be hard
- The software and protocols developed to make the web scale aren't perfect for IoT
- When cloud might make sense for IoT data
- A recipe for coping with IoT data on Google Cloud Platform



Jen Tong
Developer Advocate
Google



Felipe Hoffa
Developer Advocate
Google



Opening Keynote Address: Advances in Connected Devices and Appliances

Wednesday, June 15, 2016 • 08.30 - 09.00

Connected devices already outnumber people on the planet. Soon, each of the world's 500 million Wi-Fi enabled households (or smart homes) will have dozens of devices that exchange information, optimize energy usage, and make our lives more convenient. Many of these connections will be machine to machine, while others will enable new ways for people to control and interact with the world around them.

This Keynote will provide an update on the IoT, including advancements in foundational technologies enabling the IoT and the diverse set of technologies required to meet the increasing connectivity demand. Attendees will hear about low power Wi-Fi and powerline technologies used to connect devices and systems -- both in today's smart home, and the smart home of the future.



Raj Talluri
Senior Vice President Product Management
Qualcomm Technologies



Session 1: IoT and the Emerging Smart Home

Wednesday, June 15, 2016 • 09.00 - 10.15

Standing at the Threshold of the Smart Home: Insights on Where Mass-Market Adoption is Imminent

The Consumer IoT industry has traveled a long road to finally arrive at the doorstep of the smart home. This presentation will break-down smart home market segments including premium whole home solutions; installed mass-market; and do-it-yourself (DIY) systems, predicting which are ready to break big and explaining why. The speaker will also review the strategies that top brands have employed to successfully appeal to these market segments including smart home systems aiming to completely relieve consumers of all technology decisions as they create their smart home experience and the use of unified user interfaces flexible enough to accommodate new devices and functions introduced by the homeowner. This talk will also explain how big data analytics and players in some unexpected industries will break open the front door to mass consumer adoption.

- How smart home industry segments are defined and which way each are trending
- Technology decisions underlying the real-world strategies most likely to win mass-market adoption
- The crucial role data analytics plays in driving the smart home evolution
- How a few seemingly marginal vertical industries and home services providers can drive consumer adoption and system profitability



Mike Harris
CEO and Co-Founder
Zonoff



Navigating Consumer Desires Within the Connected and Smart Home Market

As the Internet of Things continues to evolve and more companies enter the space, it's clear that smarter living is no longer confined just within the four walls of the home. However, despite retailers' efforts promoting smart home and connected technology, consumers still don't quite understand the benefits -- and those that do get scared away by technical jargon or seemingly outlandish products.

Referencing findings from the company's recent Smart Home Report and a new survey focused on the consumer journey, this presentation will provide insights on the current state of consumer attitude towards smart home technology, and how product developers can overcome barriers to increased adoption.

- Promoting the "smart home, smarter you" movement, an idea that the smart home today will evolve into a "smart you" tomorrow, with all devices (in and out of the home) seamlessly integrated
- Building a profitable business model to fit the unique needs of consumers looking to create a customized smart home experience
- Partnering with IoT competitors to offer interoperability among devices, as well as ways to partner with startups to spur innovation and growth



Letha McLaren
Chief Marketing Officer
Icontrol Networks



What Happens When Smart Homes Become Smart Communities?

The evolution of the connected home holds major potential for innovation by the end of the decade. Smart outlets, switches, thermostats and door locks are gaining momentum in the IoT space, while more and more elements of the home are being added to the 'smart' list -- such as ceiling fans and window blinds. As the smart home continues to mature, it is time to think beyond the individual value it brings to the consumer and widen our perspective, recognizing the opportunity facing the masses.

What role can smart technology play on larger global issues, like reducing our carbon footprint? How can we integrate energy data intelligence with smart technology to improve efficiency and revolutionize the way in which energy is managed and consumed? This presentation explores the possibilities surrounding smart homes rising to the next level of intelligence, the impact of smart homes working collectively, and who will orchestrate the smart communities of the future.



David Tuohy
Senior Vice President and
General Manager (Europe)
Tendril



Session 2: IoT Business Strategy and Real-World Case Studies

Wednesday, June 15, 2016 • 10.45 - 12.00

Solving World Problems Through Connection

Like companies, government agencies are striving to deliver quality services in increasingly complex environments. And the public sector is also looking at ways to apply Internet of Things technology to find new value for citizens, aiming to enhance capabilities, streamline processes, and engage partners. This presentation examines key IoT applications for government, how to turn the IoT vision into reality, and how IoT can solve the world's most challenging problems in more ways than we think.



Shawn Kanungo
Senior Manager, Strategy & Operations
Deloitte & Touche



Implementation Case Studies and Lessons Learned Across Verticals

Internet of Business has carried out a great deal of research with end users in retail, manufacturing, insurance and healthcare, working with its strategic partner Beecham Research. This presentation looks at the drivers of implementation and the strategies employed. It also explores the barriers to adoption in the different sectors and outlines reasons why companies hold back investment. Specific case studies from various sectors will be examined — which industry verticals are investing, and at what rate? Where are they on the buyer adoption curve?



Luke Treacy
Managing Director
Internet of Business



Pros and Cons of Going Horizontal in a Vertical IoT World

Developing, selling and implementing vertical IoT solutions seems to be the right way to attend to the market opportunities. But what about being horizontal? Our experience gives us evidence of a very good way to address the market, which might not be the most common or cheap, but may be better suited to meet value expectations and subsequently deliver higher ROI and quicker payback to the customer.

- Understanding the horizontal: How can a horizontal market approach attend vertical sector needs?
- What are the pros and cons of going horizontal?
- Use cases of successful horizontal-based solutions
- Essential elements to have in mind when deciding to take the vertical or horizontal path



Edgar Salas
CEO and Co-Founder
AZLOGICA



Keynote Address: Growth Strategies, Execution and Monetization for the IoT Market

Wednesday, June 15, 2016 • 13.30 - 14.00

Business models are lacking in many IoT products and a clear path toward IoT revenue is needed for non-IoT companies to compete in the lucrative IoT world. Sensors, IoT platforms and data analytics may not already be part of a manufacturing company's toolkit, but it will be critical to compete. This Keynote presentation will discuss the business models that are currently in place and IoT business models that will be solidified in the next two years to increase marketplace presence.



Steve Brumer
Partner
151 Advisors



Session 3: Ensuring IoT Security in a Changing Landscape

Wednesday, June 15, 2016 • 14.00 - 15.15

The Convergence of our Cyber-Physical-Human World and Its Implications on National and Economic Security

The Cyber-Physical-Human world requires new levels of collaboration and calls for information to be shared among participants. To do this, organizations should tailor defenses based on threat information received and analyze shared information to provide new insights. When these systems and devices have both cyber and physical risks, designers and developers should take a holistic and integrated perspective to risk that accounts for the traditional elements of confidentiality, availability, and integrity, as well as assess how the tradeoffs and inclusion of reliability and safety can be evaluated to provide a holistic view of the converged environment.

- In a world with billions of smart, connected devices and countless vulnerabilities, why is resilience essential?
- How is the convergence of cyber systems, physical systems, and humans radically altering our perceptions of defense and security?
- How can we help shape a holistic and integrated perspective (to risk) that accounts for confidentiality, availability, integrity, reliability and safety?



Chris Folk
 Director
 National Protection Division
 The MITRE Corporation



Design with Security in Mind

As the proliferation of connected devices grows, the opportunity for security breaches also increases. The average consumer may not realize by simply throwing away a smart light bulb they may be opening themselves up for a hacker to get their personal information.

We, as an IoT industry, are responsible for ensuring that data privacy and security are a primary focus when designing our IoT solutions. And as an industry, if one of us fails in this area, it has ripple effects for us all as it slows down consumer and enterprise adoption of connected solutions. In this presentation, we will discuss considerations for designing security into your solution upfront.



Marcel Hill
 Global Director, Smart (IoT) Solutions
 Intertek



Identity, Access Management and Securing The IoT

Web applications prior to the Internet of Things were primarily a one-to-one connection between a user and a particular application. The IoT flipped this model on its head: one connected product might well be used by multiple users -- each of which might need different access to data coming from that product. In fact, in a recent survey fielded by Xively and Forrester Research to 100 discreet manufacturers representing a variety of industries, an average of four different constituencies, (e.g. IT, operations, sales, service, customers), required access to connected device data. And that number is expected to increase in the future, as manufacturers provide data to vendors, distributors and suppliers.

This presentation explains why identity and access management is the cornerstone for a broader security framework, and discusses a variety of specific use cases, including those that, in the future, will require the transfer of ownership of connected devices, and concomitant security controls.



Ryan Lester
 Director of IoT Strategy for Xively
 LogMeIn



Session 4: Toward the IoT Smart City

Wednesday, June 15, 2016 • 15.45 - 17.00

10 Recommendations for Creating Smarter Cities

Sensor networks and IoT platforms are key building blocks of any smart city implementation. However, there are many drivers and many different definitions of a smart city, and no two single implementations are the same. It has to be understood that making a smart city smart requires more than just rolling out technology. As such, this presentation will provide a best practices based framework of technical and non-technical recommendations for initiating, optimizing and evaluating smart city initiatives.



Marc Jadoul
Marketing Development Director
Nokia



Real Business Models in IoT Applied to Smart Cities

Smart Cities have become one of the first areas where realistic and profitable IoT business models have been established. City management consumes big amounts of resources everywhere. Efficiency and better quality services can be achieved considering cities from the point of view of the IoT paradigm: big systems where you can get massive data flows provided by both sensors and citizens. To make it real, however, it is necessary to define new chains of value as it is happening in mobility, waste management, and environment and energy. This presentation will discuss real examples of each area, illustrating new business models from data to money.



Antoni Brey
CEO
Urbiotica



Intelligent Lighting: Laying the Groundwork for Future Cities

Cities around the world are increasingly looking for technology to improve quality of life and sustainability for their communities. Completely revamping civic infrastructure sounds like a difficult endeavor for any city to undertake, but some are viewing the implementation of intelligent lighting as a foundation for future full-scale smart cities. This presentation will dive into Paris, Copenhagen and Bristol as smart city success stories, exploring how other cities around the world can learn from their work so far. We will also touch on similar deployments in Chicago, Miami, Halifax and Washington D.C.



Brian McGuigan
European Commercial Director
Smart Cities and Lighting
Silver Spring Networks



Technical and Fiscal Benefits: Case Study of the Isle of Man



Jonathan Mills
Director of E-Business Development
Isle of Man Government



Session 5: Collaborative Disruption: New Era, New Ecosystem

Wednesday, June 15, 2016 • 17.00 - 18.00

How Big Companies/Corporates Are Starting to Work More With Startups to Innovate

This presentation looks at the innovation being uncovered through startup and corporate accelerators. How are big companies moving quicker in this age of disruption, by not fighting startups, but working and collaborating with them? The reasons why startups and corporates should work together, the benefits to both sides, the challenges, the success stories and how to run a successful corporate accelerator will be discussed.



Stuart Marks
Chairman, L Marks



Collaborative Disruption: A Business Model for the IoT Era

The Internet of Things is no longer just an interesting concept; it's a reality to which operators and business leaders must adapt or face extinction from the growing number of upstarts seeking to displace the old way of doing business. The new wave of technologies that connect physical industrial assets with digital insights has been called the "Fourth Industrial Revolution."

This presentation will look at the rise of a new business model for the era of the Industrial Internet of Things (IIOT), in which startups are leveraging unique partnerships with industry leaders to co-create solutions that solve some of major industry's most meaningful and critical problems. This model of "collaborative disruption" enables industry partners to innovate and leapfrog generations of technology without having to internally develop massive capacity in big data, analytics and software development, instead allowing technology startups to contribute their entrepreneurial speed and agility and a keen focus on solving real, complex and relevant industrial problems. The impact of these improvements are substantial and numerous, including: maximizing revenue, reducing operating costs, improving operator safety and strengthening environmental sustainability.



Trey Clark
Director of Strategy
Uptake



Keynote Address: IPv6 and the Future of IoT

Thursday, June 16, 2016 • 08.30 - 09.00



Dr. Latif Ladid
President
IPv6 Forum



Session 6: IoT Implications and Opportunities for Manufacturers & Commercial Enterprises

Thursday, June 16, 2016 • 09.00 - 10.30

How IoT Helps Firms Optimize Digital Performance: Case Studies and Likely Economic Impacts

Using several case studies and quantitative analysis, this talk offers examples of how businesses are using IoT to improve their performance and optimize digital operations. It also explores how moving to IoT pushes firms to become more involved with analytics for big data lakes and delivering software upgrades through using enhanced workflows, such as DevOps and Continuous Service Delivery (like Netflix and Amazon).

The talk also explores how much industries such as finance, healthcare, aircraft and autos plan to invest in IoT over the next decade. It describes what this is likely to mean for revenues, economic growth, labor productivity and jobs.



Dr. Robert Cohen
Senior Fellow
Economic Strategy Institute

Economic Strategy Institute

Smart Robots for Smart Industries

Robotics is a key technology in IoT and IIoT scenarios, both as a generator and consumer of data. Robotics is no longer only about articulated arms for manipulation, but rather about deploying active participants in IoT scenarios and Industry 4.0 landscapes, towards the goal of greater intelligence, flexibility, and efficiency in a digital environment.

This presentation will look at the role of advanced robotics in defining the factory of the future, the need for more and affordable flexibility, and the opportunities for new business models which arise.



Michael Loughlin
Partner
Nelmia Robotics Insight

nelmia
Robotics Insight

Making Sense of Your Things: How Software-Defined Sensors Create Business Value

The presentation will address what it will take for businesses and the enterprise market to increase the speed of the innovation cycle of cloud software to create IoT solutions more quickly, securely and at large-scale. Rob will highlight how smart sensors and technology can provide businesses with the power of perception by sensing temperature, motion, sound, pressure, moisture and more, and gathering that data to create high-level insights and intelligent solutions that increase efficiency, avoid loss from equipment failure and reduce downtime. Rob will also highlight some real-world use cases of how business are utilizing smart sensor technologies and how they have helped improved their bottom line.



Rob Chandhok
COO and President
Helium Systems



How the IoT Enables a New Energy Internet

This presentation discusses the key challenges faced by the energy industry as it struggles to build a flexible, distributed and clean grid that can intelligently and efficiently balance energy supply and demand in real-time. It will explore how the IoT, along with big data, predictive analytics and other technologies, enables the development of an Energy Internet that energy service providers can use to forecast, optimize and control a vast array of Internet-connected distributed energy resources.



Dr. Amit Narayan
Founder and CEO
AutoGrid



Session 7: Obtaining and Leveraging Value from Big Data Analytics

Thursday, June 16, 2016 • 10.45 - 12.00

High Value Approximation: Innovation Executives Should Understand in a Voluminous IoT World

As with many technologies, there are practical limitations, both physical and economical, and over time disruptive innovations have emerged to re-think problems and provide solutions that overcome previous boundaries. The notion that every question requires an exact answer is not true - in fact, many do not. With that in mind, statistical metadata models can be developed to create near instantaneous high value approximation capabilities with minimal resource requirements, offering a game changing opportunity every executive driving IoT implementation should understand.



Don DeLoach
President and CEO
Infobright



The Impact of Big Data on the Insurance Sector

This presentation looks at one of the key -- and older -- branches of the IoT family: telematics. However, it focuses on the use of data by various players outside the pure car market. Besides quantifying the opportunities, it explores a number of new concepts in the Big Data market through case studies of large and small innovators. Ultimately, the session demonstrates the profound impact Big Data is having on various industries.

- Key trends in vehicle data usage and the value chains involved
- Identify and quantify the usage-based insurance market
- Learn about the changing role of car manufacturers and their opportunities as Big Data providers
- Analyze the impact of Big Data on other insurance lines



Thomas Hallauer
Research Director
PTOLEMUS Consulting Group

PTOLEMUS
Consulting Group

Real-time Insights, Analytics, and Machine Learning for IoT: Use Cases



Muddu Sudhakar
Vice President and GM
IoT and Big Data
Splunk

splunk>

Session 8: Industrial IoT Advances and Horizons

Thursday, June 16, 2016 • 13.30 - 14.45

De-mystifying Predictive Maintenance for Industrial IoT: Unlocking Data's True Value

With the Industrial IoT, recognizing the convergence of OT and IT provides tremendous opportunity in unlocking the true value of data resulting in actionable insights into operations. The results of these analytics performed "at the Edge" can be immediately available for more immediate and accurate operational decisions: controlling mission/safety critical operations and driving operational efficiencies and improved productivity. However, the key challenges to extracting the full value of the data-driven operations are a programmable platform to aggregate the variety of sensor data, process, analyze, act, and transport the data in a secure manner. This presentation discusses the architecture and design of a predictive maintenance system for an Industrial IoT application including data acquisition, analysis, and machine learning applied to running real-time algorithms to predict time to failure. The presentation will conclude with a brief demonstration of a representative system running on a programmable SoC platform showcasing "at the edge computing."



Dan Isaacs
Director, Connected Systems and
Strategic Ecosystem Development
Xilinx

 **XILINX**[®]

Unlocking New Business Value through IoT Data Analytics

In this presentation, Ed Abbo, CTO & President of C3 IoT, will address how IoT is rapidly emerging as a competitive advantage. A variety of use cases covering large global corporations that are deployed at scale on C3's IoT applications platform will be discussed. Special attention will be given to how these organizations are using advanced analytics and machine learning at scale, in real time, to unlock data-driven business insights for improved operations, enhanced customer engagement, and differentiated products and services

C3 IoT (formerly C3 Energy) grew rapidly to become a leading provider of elastic cloud, big data analytics, and machine learning IoT applications for energy markets, having successfully deployed production applications at 20 corporations across the U.S. and Europe. As C3 IoT, the company has expanded the application of its C3 IoT Platform to provide a full-stack IoT development platform addressing the requirements of energy, industrial and commercial markets.



Ed Abbo
CTO & President
C3 IoT



Smart Network Infrastructure for Industrial IoT

The network architecture required to connect mission-critical infrastructure (e.g., power grids, transportation systems, etc.) to the Internet is completely different from connecting your washing machine or toaster to the internet. Its just plain different. In addition to new cyber security requirements, the legacy protocols this infrastructure would use now have to be translated and abstracted so as to enable QoS (Quality of Service) from source to sink - from legacy protocol to IP and back. In addition, all this infrastructure generates very large amounts of data within very short intervals of time -- transporting all this data to the cloud to be able to extract value from it doesn't make much sense for several reasons.

This presentation discusses these requirements and the need for an IoT network infrastructure that supports dynamically changeable policy-based WAN (Wide Area Network) optimization (filtering, compression, de-dup), data brokering, QoS (Quality of Service) and edge analytics.



Ron Victor
President
IoTium



Session 9: IoT at the Edge -- Cloud Architectures & Data Success Strategies

Thursday, June 16, 2016 • 15.15 - 16.30

IoT: The Data Challenge



Andres Roman
Strategic Planning
Home Entertainment Europe
Sony



Edge Cloud for IoT

Cloud architecture has enjoyed massive success and growth because (a) it commoditizes access to computer resources for developers giving them an enormous boost in agility, (b) helps IT make the trade-off between CapEx and OpEx in a flexible manner, and (c) makes management and operation of computer, storage and network assets really easy and cost-effective for IT.

If we speed forward the next 10 years, we will look back at today's cloud architectures as the "mainframe era" of cloud computing. Today's cloud architectures require large-scale for efficiency. It is hard to shrink that level of efficiency in a small enough footprint to deploy it across small datacenters, even micro datacenters, across the Internet for IoT applications. People and things that generate and consume data are located hundreds, or even thousands, of miles away from the "mega datacenter".

This talk covers an efficient and agile cloud architecture that will scale to the needs of IoT -- from industrial automation to enabling mobile workforce at construction sites. It also covers how the business benefits with rapid deployment of cloud-efficient infrastructure to orchestrate and manage IoT sensors and perform edge analytics on the data produced. Instead of sending all the data to big datacenter thousands of miles away, lots of small edge cloudlets can handle M2M, smart cities, 5G, IoT, edge analytics, and a whole host of latency sensitive applications -- and do it in a manner that any field-tech staff can build out POPs (Points of Presence) in minutes and get the same intelligence and efficiency as mega datacenters.



Suyash Sinha
CEO and Founder
Midfin Systems



Delivering Analytics at the Edge: Combinatorial Data and IoT Edge Processing

To date, most IoT applications have focused on collecting small bits of data, collecting and processing that data in software as a service (SaaS) applications and delivering management dashboards to their clients. The next wave in IoT will involve combinatorial statistics -- joining "Big Data" sets with "Small Data" (IoT sensors) sets to dramatically improve predictive analytics. Merging these data sets and implementation of edge processing with high power, low cost computing will push IoT from mere data collection and presentation to practical, money saving decision making at the data collection level. Containers, Lighting, machinery will move from simply providing data to the cloud to machine level decision making "at the edge."

- Analytic tools required to move from data collection to combining "small data" with "Big Data"
- Possibilities with predictive analytics
- Edge processing for decision making at network boundaries
- The impact on optimization from a cost and environmental standpoint



James Bland
Founder and CEO
Snapdata.io



Session 10: Enabling the Mobile IoT

Thursday, June 16, 2016 • 16.30 - 17.30

You Want To Do What with that Device? Why the Smart Home Needs a Wire

Everyone is talking about IoT as if it is around the corner. Everyone is putting out these exotic numbers that measure connected devices in the billions. As if availability of product will drive consumer adoption. But availability of devices and products is not the issue. Connectivity is still unresolved issue which is being swept under the rug. There is not a singular mechanism or connectivity standard available that can tie it all together. A home that relies on a variety of standards will be confounding the for the consumer and extremely difficult to implement for operators and integrators. Let's address the issue and start talking about how all these devices will actually be connected. Reliance on the Internet is fine, but how will the smart home deliver the Internet?



Rob Gelpman
Vice President of Marketing
and Member Relations
Multimedia over Coax Alliance



Mobile Device Trends in the Internet of Things

In the Internet of Things, there's no such thing as a mobile device that operates in isolation. And yet, mobile devices and apps are often marketed, sold, and bought as if they're independent products. Manufacturers and consumers alike need to think less in terms of "discrete product" and more of "interconnected systems."

No one wants 50 different mobile apps to control 50 different things in their smart home or smart health environments. With IoT product manufacturers championing different communications protocols, the challenge is to enable one mobile app to control many devices. Even if manufacturers never agree on protocol support, IoT platform technologies can help negotiate interoperability, while also giving manufacturers greater flexibility to navigate future unknowns.



Oliver Cockcroft
Senior Product Manager
Ayla Networks



Unleashing the Power of the SIM for M2M and IoT Services and Applications

The world's mobile network operators (MNOs) are rapidly seeking to add value and to take a leadership position in the IoT value chain. In pursuing this, they are assembling ecosystems and sourcing proprietary enabling technology and tools across the solution building blocks ranging from platforms and services to embedded hardware and software. MNOs need to realize that by unleashing the power of a standard SIM they can provide industry and enterprises with services that address the needs of successful IoT projects -- without changing the deployment of their existing standard network elements. The MNO is then positioned higher in the value chain, while easing the deployment of IoT services for all types of vertical IoT applications on the mobile network.



Roger Dewey
CEO and Founder
Able Device



Event Partners



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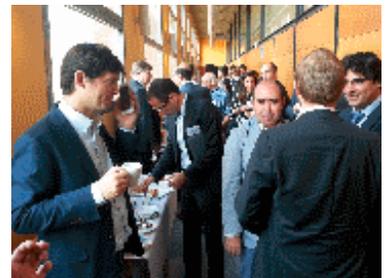
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