



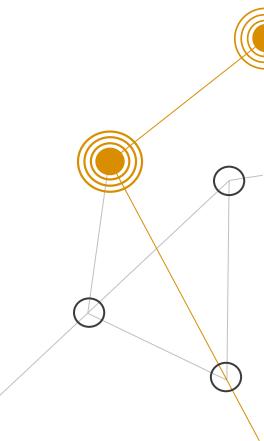


For business people selling products and services into IoT

but of course everyone else is welcome: techies, end-users, ...

Focus of presentations and discussions:

Business Models Support Suppor



Conferences



Internet of Things World

- I'm the opening keynote on May 10th!
- Take my one-day workshop on May 9th
- Discount codes
 - WEBINAR30 expires at noon tomorrow
 - WEBINAR20 doesn't expire









Next Meeting, Thursday, June 2, 2016 at **Verizon**√

Mega Meetup2 will be in July or August in San Francisco

• Still looking for a space big mega enough



Other notes

- Presentation, recording of Meetup and announcements for today's meeting will be sent in one week to everyone who provided their email upon signup for this meeting or any other past Meetup
- Send announcements to me: My email: <u>bruce@iot-inc.com</u>
- Feel free to upload pictures and tweet with hashtag #iotbusiness
- Reviews would be great!

Our Sponsors!



Gold Bronze Shelter









Sponsor spots still available!





Capturing Value with Enterprise IOT





Infosys at a glance

				THE PARTY
Infosys	People	Intellect	Values	Clients
Founded in Pune, India in 1981	176,000+ staff	World's largest corporate university	Transparency, ethics, and respect	4 out of top 5 US banks
\$8.7 billion revenues	98 nationalities	2% of revenues invested in R&D	98.3% of projects delivered on time	6 out of top 10 global CPG
950 clients	97% of staff are university educated	More than 300 researchers	96.6% business is repeat business	8 out of top 10 global pharma.
50+ countries	22% with masters degrees or doctorates	Investing \$500 million in Innovation Fund	2% of profits to the Infosys Foundation	4 out of top 5 global aerospace & defence
\$40.3 billion market capitalization	94% are consultants and engineers	505 patents pending and 204 granted	Topped Asiamoney's Corporate Governance Poll in the 'domestic country' category	6 out of top 10 global telcos.



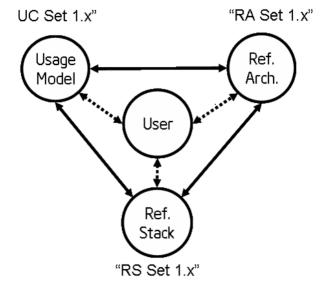
IOT is an Ecosystem Play!







User Driven Innovation



Dr Richard Soley, Dr Henning Banthien Bosch Connected World 2016, Berlin



Infosys Led IIC Approved Testbeds - Reference Solutions



































Industrial Digital Thread Testbed





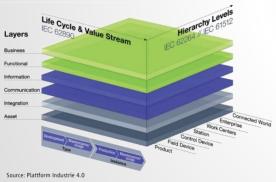




Solutions Interoperability (IIC and I4.0)







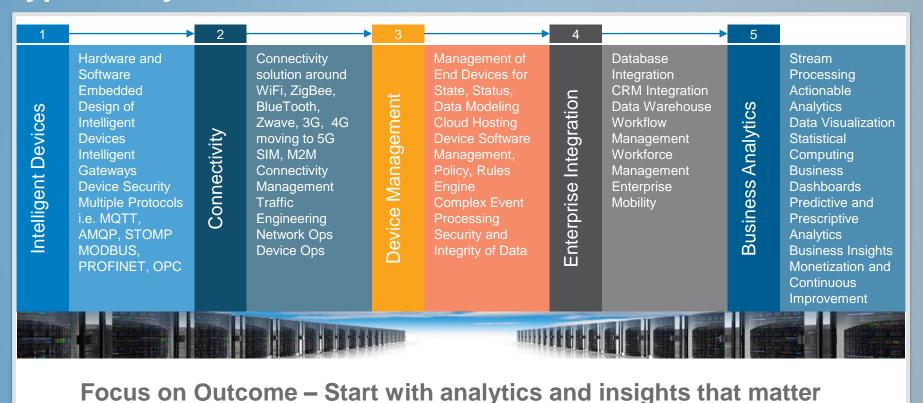
Infosys led IIC Testbeds: IIRA & RAMI4.0



Dr Henning Banthien - Industrie 4.0, Dr Richard Soley - IIC, Jayraj Nair - Infosys Hannover Messe 2016, Hannover



Typical Layers of an IOT Stack





Industry 4.0: Asset Efficiency Global Survey



Energy efficiency



Maintenance efficiency

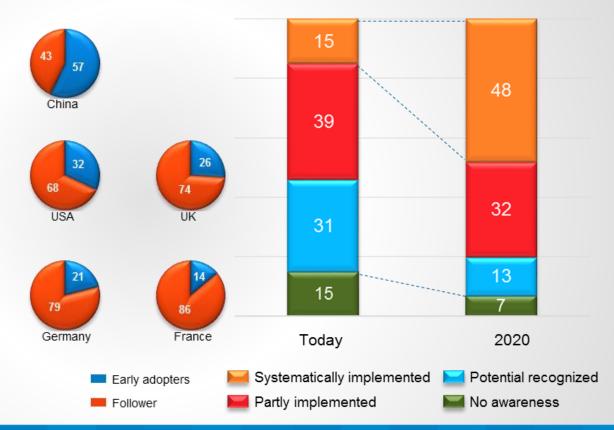


Information efficiency



Operational efficiency







Industrial Partners Academic Partners Academic Partners



https://www.infosys.com/engineering-services/white-papers/Documents/industrial-internet-consortium-architecture.pdf



Asset Efficiency: Aircraft Landing Gear



- Understand failures modes.
- Identify parameters to be monitored.
- Identify sensors and develop sensor integration
- Security & Device Management, IOT Platform
- Develop data, operational models digital twin
- Develop connectivity, sensor based network
- Data analytics Diagnostics & prognostics.
- Predictive analytics Infosys Information Platform.
- Visualization & Service Management.















Asset Model

Physical to Digital



Data Model

Data to Information



Cognitive Model

Diagnostics to Prognostics

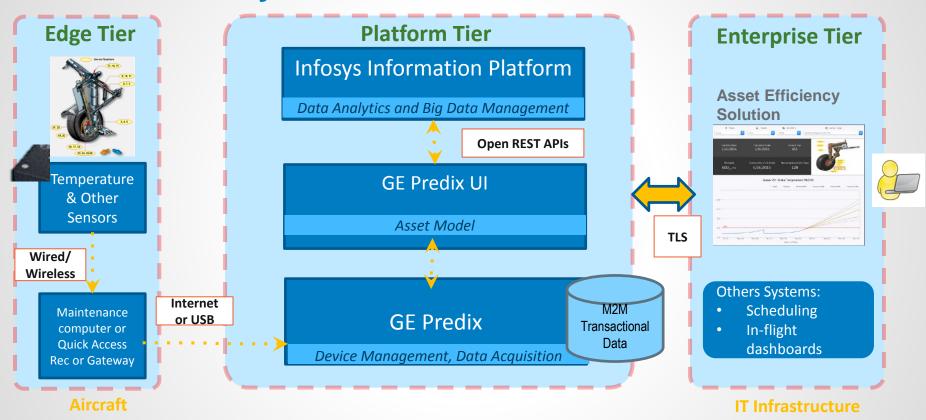


Service Model

Reactive to Proactive

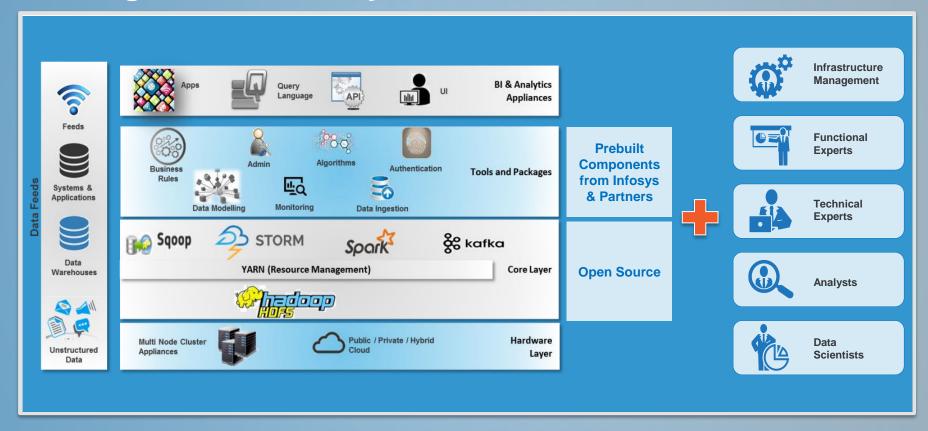


Asset Efficiency - Reference Architecture





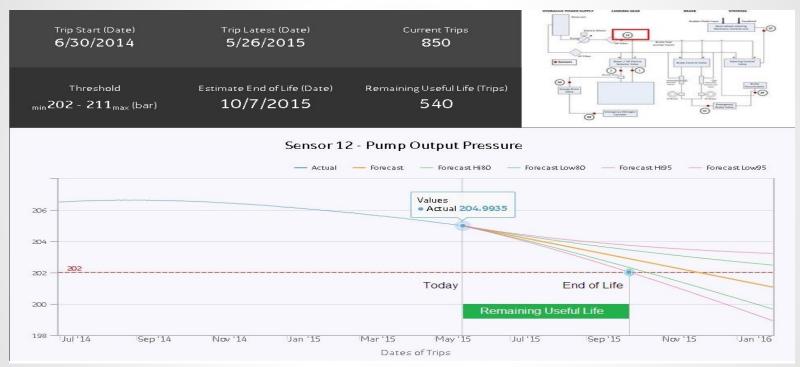
Building Blocks – Infosys Information Platform





Predictive Maintenance: Predix



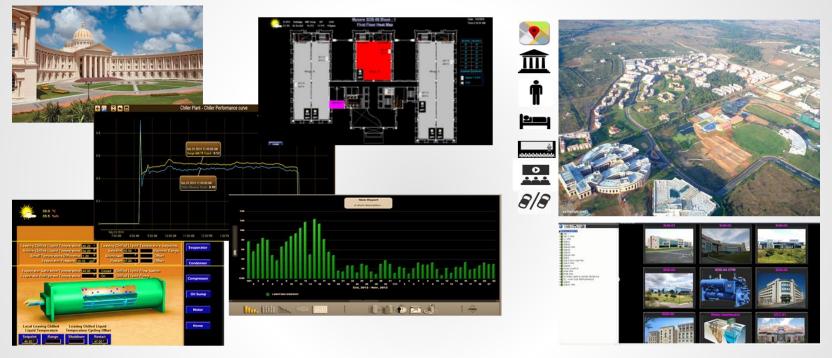


http://www.iiconsortium.org/asset-efficiency.htm

http://www.iiconsortium.org/industrial-digital-thread.htm



Smart Cities – Energy & Water Mgmt. Testbeds

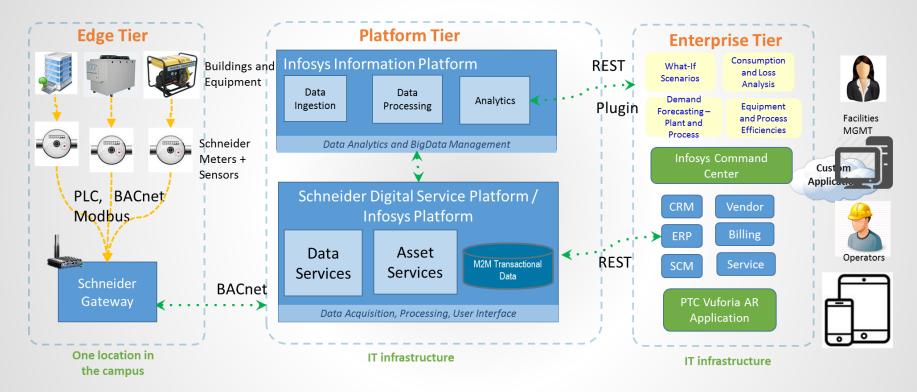


Mysore Campus: 338 Acres, 11,609,649 sqft, 15949 (E) + 14,900(T), 10,107 guestrooms, +3000 cars

http://www.iiconsortium.org/energy-management.htm http://www.iiconsortium.org/water-management.htm



Energy Management Testbed – Reference Architecture



Reference Stack compatible with multiple ingredients at all IIRA tiers (Edge, Platform & Enterprise)



Connected Care Testbed – Reference Architecture

industrial internet CONSORTIUM

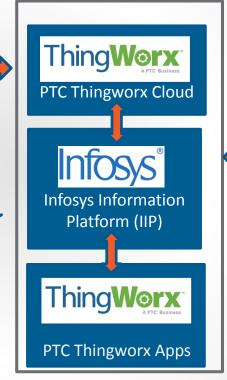
Infosys, PTC, RTI, MD PnP

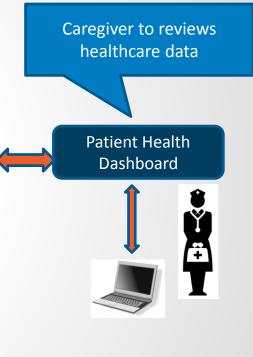


Patient at Home
Patient in Clinic/Hospital

IIP provides data analytics layer PTC Thingworx provides cloud services(data acquiring, storage, device management, microservices)

http://www.iiconsortium.org/connected-care.htm

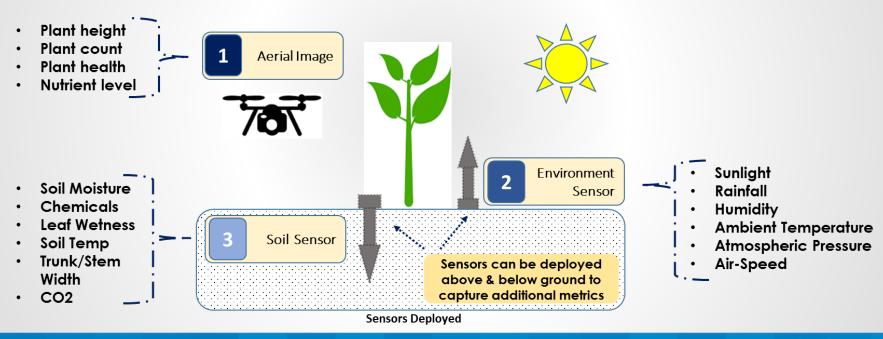






Precision Crop Management

Crop Productivity/Yield: Optimum crop conditions, In-season interventions Field Operations: coverage, drone directed sampling, Irrigation efficiency

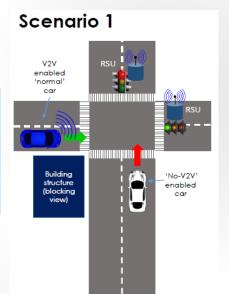




IOT enabled Intelligent Transportation - Connected Vehicle

Collision Avoidance: Out-of-sight vehicle detection and communication Road safety for pedestrians - crossings/traffic intersections Active Driver Assist, Real-time Road conditions, Parking...

V2[X] enabled automobiles and infrastructure Intelligent Transportation Systems







AiKiDo Services

KNOWLEDGE CAPTURE & RENEWAL

DESIGN LED INNOVATION







PLATFORMS & ECOSYSTEM

Let us realize Transformational Business Outcomes Together!



Thank You



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