IBM Analytics

IBM

From Hype to Insight

Transforming industries with insights gained from the Internet of Things

Brian Dalgetty

Director, Internet of Things,
IBM Analytics BU Marketing

#IoTnow

Enabling our clients to capture IoT opportunities

#IoTnow

IBM
Instrumented
Interconnected
Intelligent
#IoTnow

Data
Cloud
Engagement
IBM
#IoTnow

IBM
Data sources are diverse
and accelerating
#IoTnow

IBM
The Insight Economy
#IoTnow

IBM
Internet of Things are impacting industries
#IoTnow

Better business performance from insights and interaction

#IoTnow

Yarra Trams

IBM Solutions for the Internet of Things Keeps Yarra Trams Running on Time, Rain or Shine

Predictive Maintenance
for a fleet of 8 different difference classes of trams, dating back to 1939

Safe and On Time
even when passenger traffic increases.

Data Analytics and Insight
sourced from 91,000 different pieces of equipment – from trams to power lines and tracks.

GSA's GSAlink

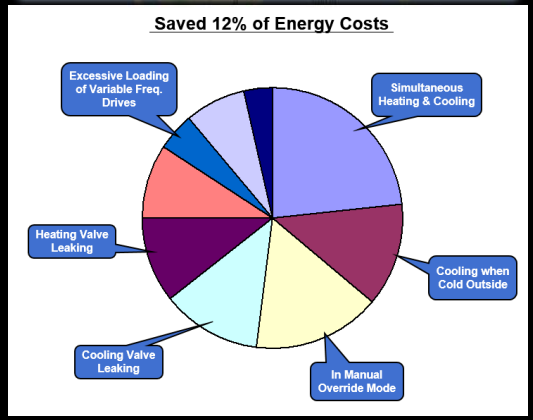
Enabling building management teams to reduce energy consumption and optimize facility operations

81 buildings integrated nationally, comprised of 47M sqft

Over 11,000 pieces of equipment and 70,000 sensors polled every 5 minutes

GSAlink won the 2013 FedScoop 50 Innovation of the Year Award

GSA has exceeded its initial goal of saving $13M during first 16 months



A global agricultural company

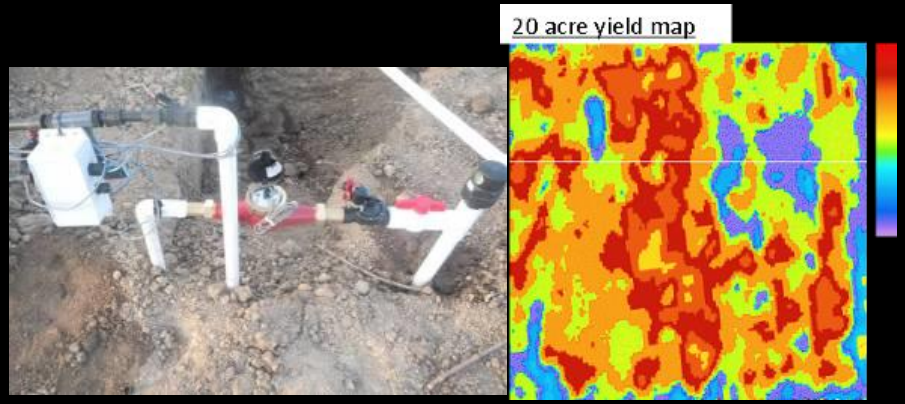
Couples analytics and engineering to dramatically increase crop yield

Higher yields

20% increase in yield per acre with 15% less water

Improved crop quality

and crop consistency leading to superior product



Pratt & Whitney

Aircraft engine manufacturer, uses predictive analytics to prevent costly aircraft-on-ground engine events

97% prediction
ability to predict delays & cancellations within 12 weeks

97% accuracy
ability to predict an in-flight shutdown within a year

Jaguar Land Rover

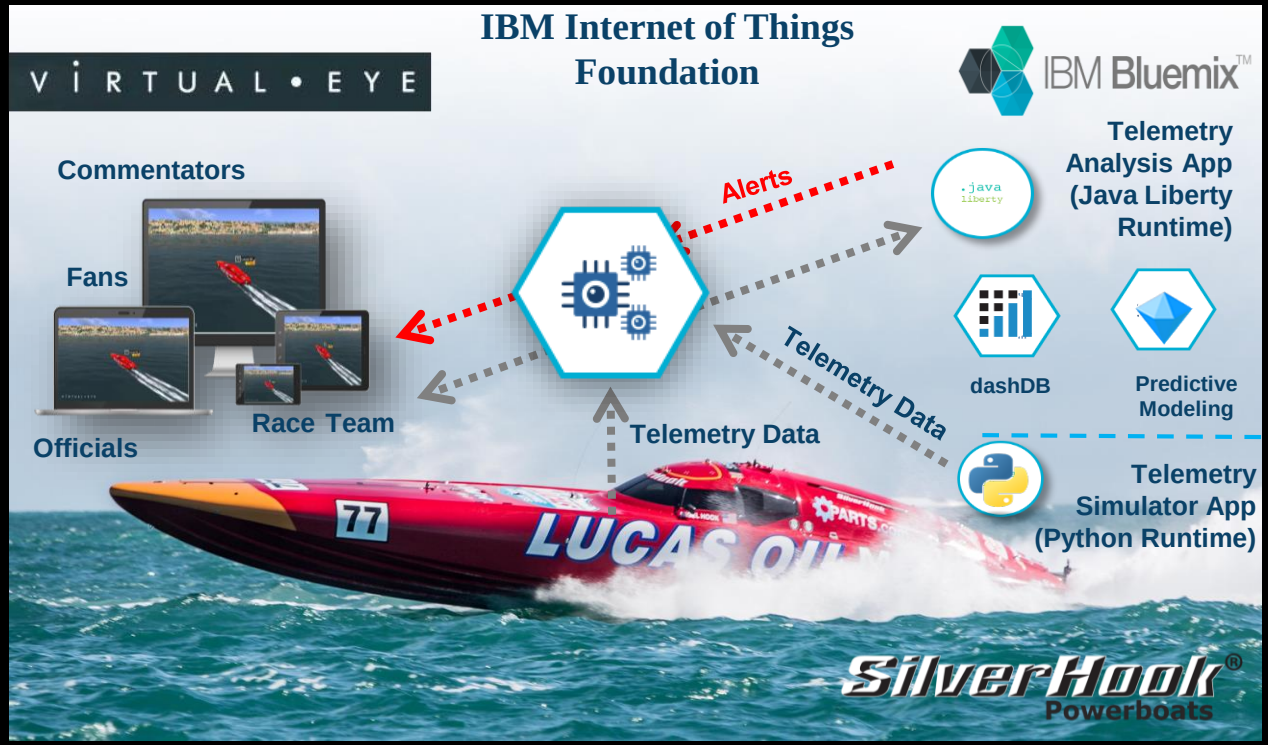
Accelerates time to market for in-vehicle infotainment systems

90% decrease of software validation time
from 6 weeks to 3 days for positive test cases

90% reduction in bug-detection time
from manual 3 days to 30 sec of automated detection

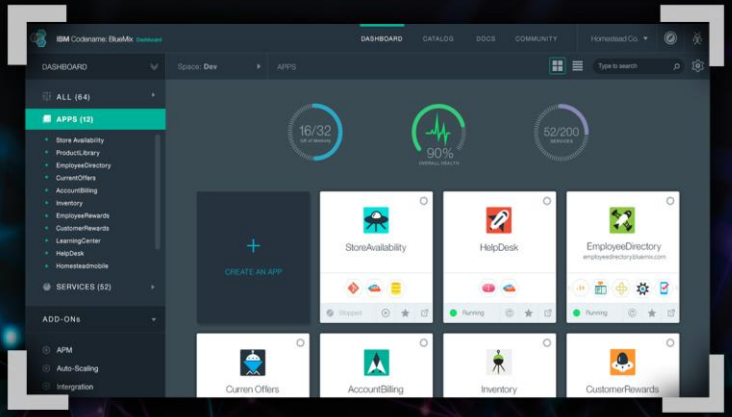
Accelerates time to market
for its in-vehicle infotainment systems

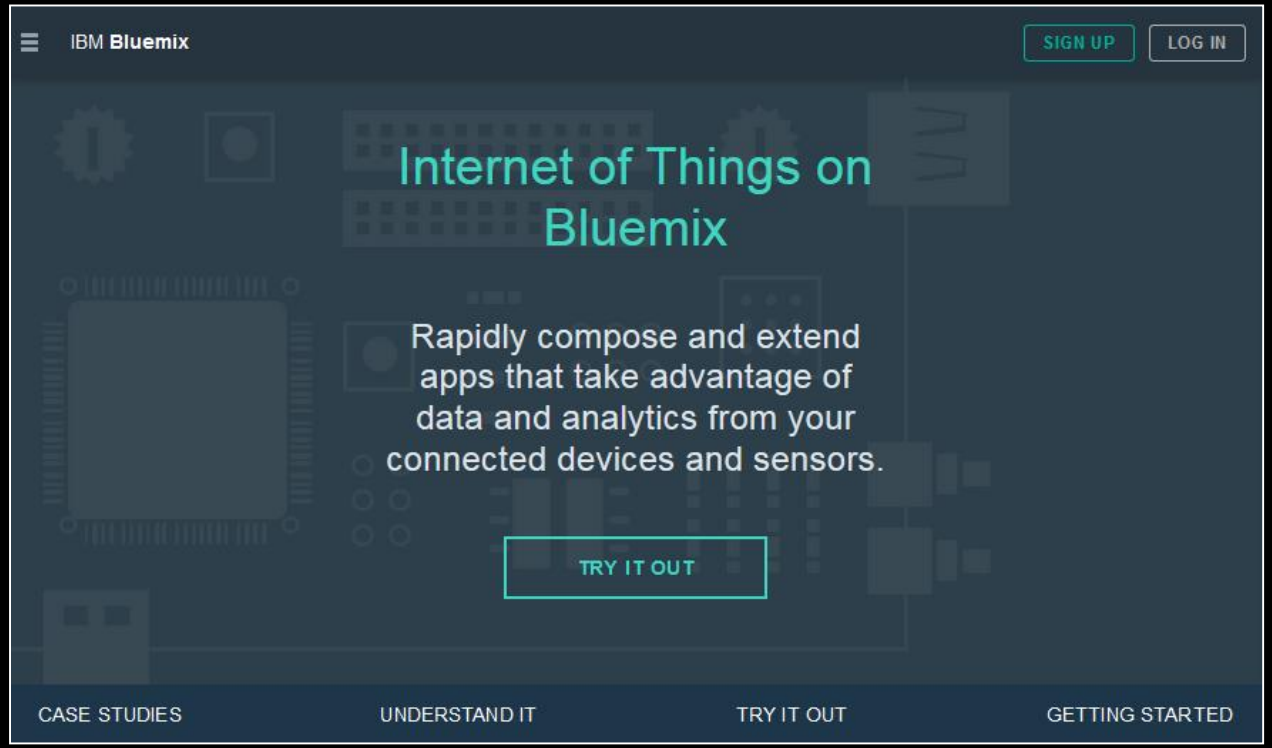
JAGUAR | LAND ROVER


IBM Internet of Things Foundation
VIRTUAL • EYE
IBM Bluemix™
Commentators
Fans
Officials
Race Team
Alerts
Telemetry Data
Telemetry Data
Telemetry Analysis App (Java Liberty Runtime)
dashDB
Predictive Modeling
Telemetry Simulator App (Python Runtime)
77
SilverHook®
Powerboats

Bluemix bringing together speed and agility & enterprise scale

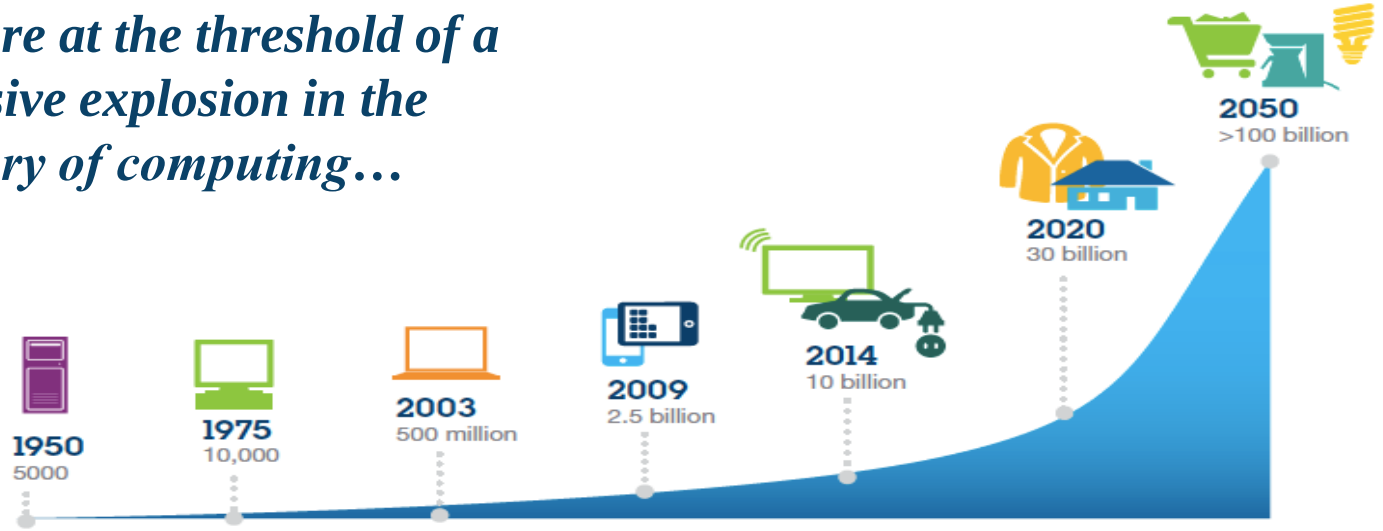
IBM Bluemix™




IBM Bluemix
SIGN UP
LOG IN
Internet of Things on Bluemix
Rapidly compose and extend apps that take advantage of data and analytics from your connected devices and sensors.
TRY IT OUT
CASE STUDIES
UNDERSTAND IT
TRY IT OUT
GETTING STARTED

The Future of the Internet of Things

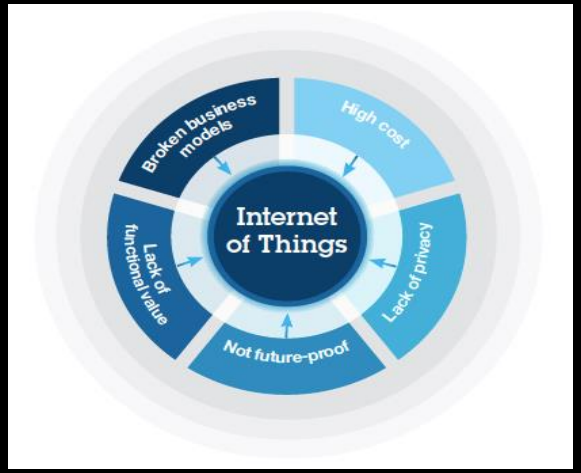
We are at the threshold of a massive explosion in the history of computing…



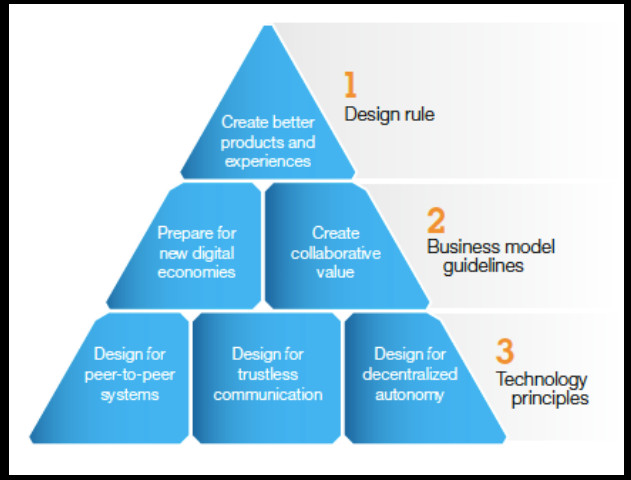
Devices on the edge are becoming significantly more intelligent and connected

IBM Thought Leadership from the Institute for Business Value / IBV: IoT assessment

As the IoT scales, decentralized systems have the potential to complement current approaches to the IoT



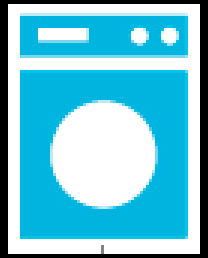
Challenges in scaling the IoT



A strong technology foundation

IBM Institute for Business Value Executive Report "Device democracy - Saving the future of the Internet of Things", published Sept 2014
http://www-935.ibm.com/services/us/gbs/thoughtleadership/internetofthings/

IBM and Samsung collaborated to demonstrate devices engaging autonomously in IoT marketplace transactions



A Samsung W9000 washer participated autonomously in consumables, service and energy marketplaces

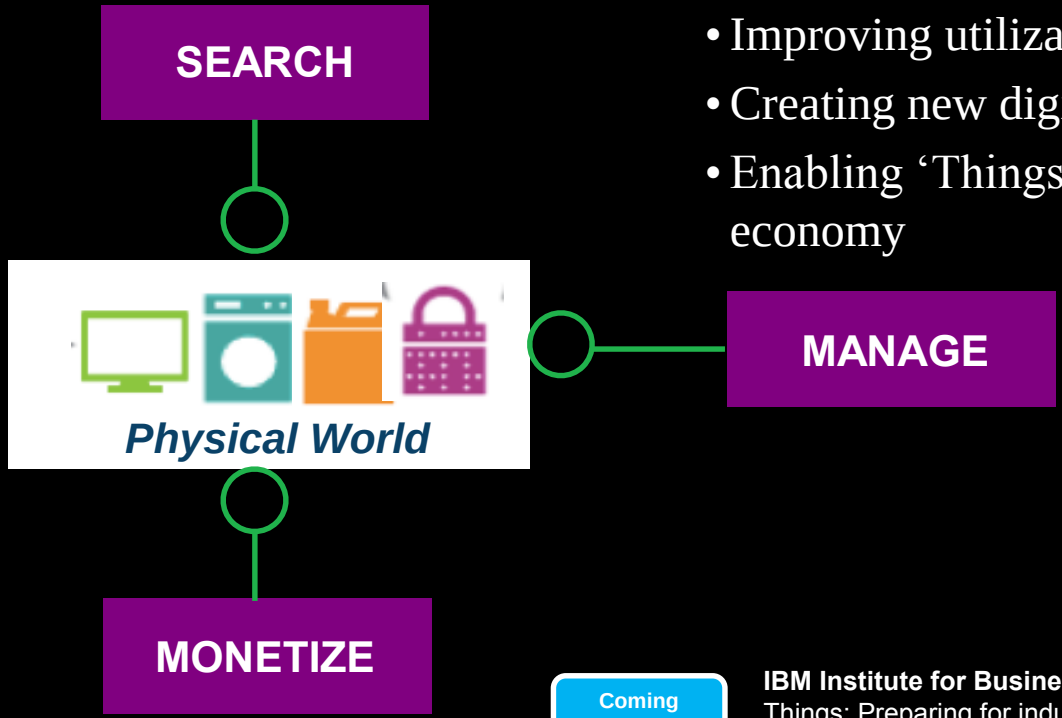
- Autonomous detergent reorder
- Autonomous service parts reorder
- Autonomous power usage negotiation

Samsung LFDs participated autonomously in a decentralized advertising marketplace

- Autonomous advertising marketplace

IBM Institute for Business Value Executive Report "Empowering the edge: Practical insights on a decentralized Internet of Things", published Mar 2015 http://www-935.ibm.com/services/us/gbs/thoughtleadership/empoweringedge/

By transforming devices into points of transaction and value, the IoT will create a new Economy of Things

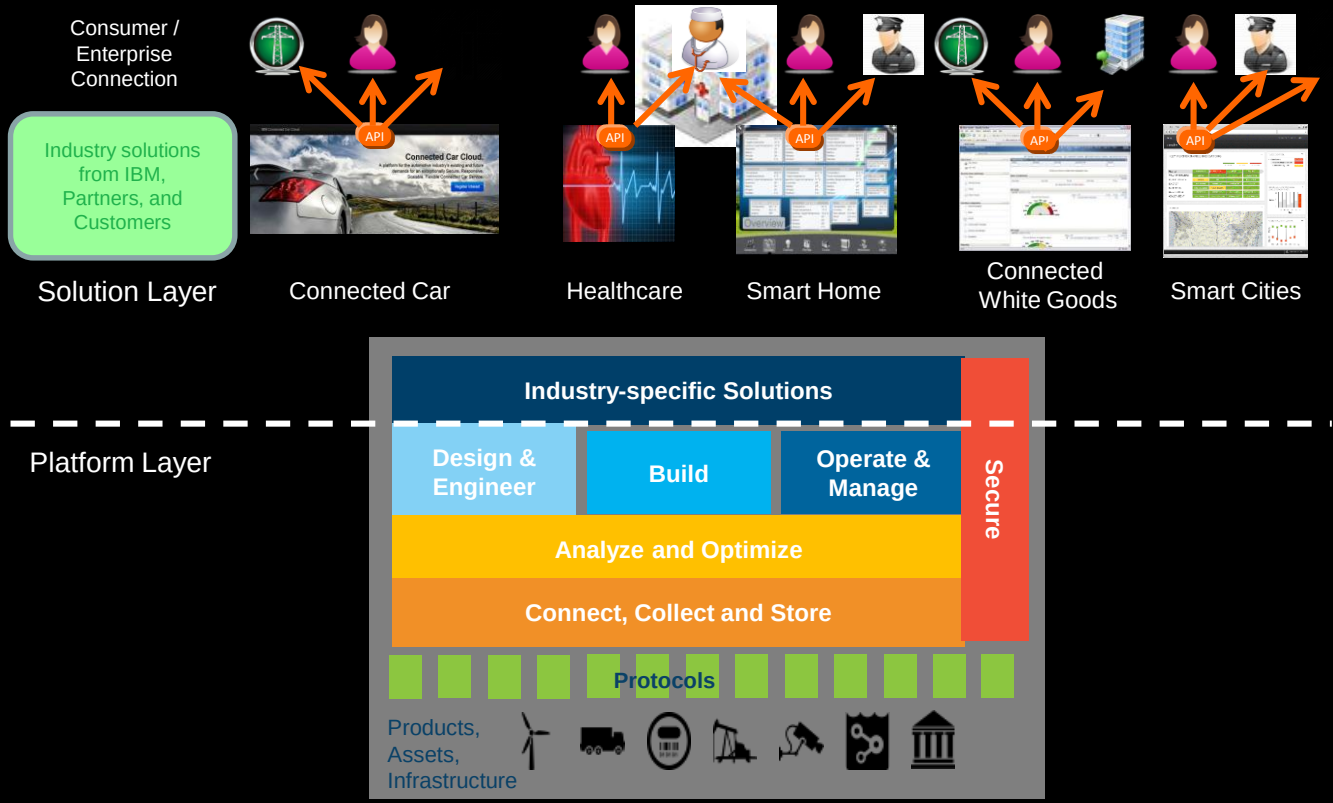


- Improving utilization of physical assets
- Creating new digital marketplaces
- Enabling 'Things' to participate in a new digital economy

Coming soon

IBM Institute for Business Value Executive Report "The Economy of Things: Preparing for industry transformation by the Internet of Things ", publishing 2Q 2015

IBM IoT solutions deliver value through industry specific analytics built on a foundational enterprise capabilities



It's Time To Get Started

Learn more about IBM's POV on Internet of Things
ibm.com/IoT

IBM IoT 3/31 Announcement: Watch David Kenny, CEO, The Weather Company, & Bob Picciano, IBM SVP Analytics, share why insight, IoT and innovation matter to business.
ibm.biz/IoTReplay

Read how IBM Connects Internet of Things to the Enterprise
ibm.biz/IoTEnterprise

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