



Connections Change Everything

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June 9, 2014

A Structural Transformation Is Underway

COMMUNICATIONS



RETAIL



HEALTHCARE



GOVERNMENT



EDUCATION



MANUFACTURING

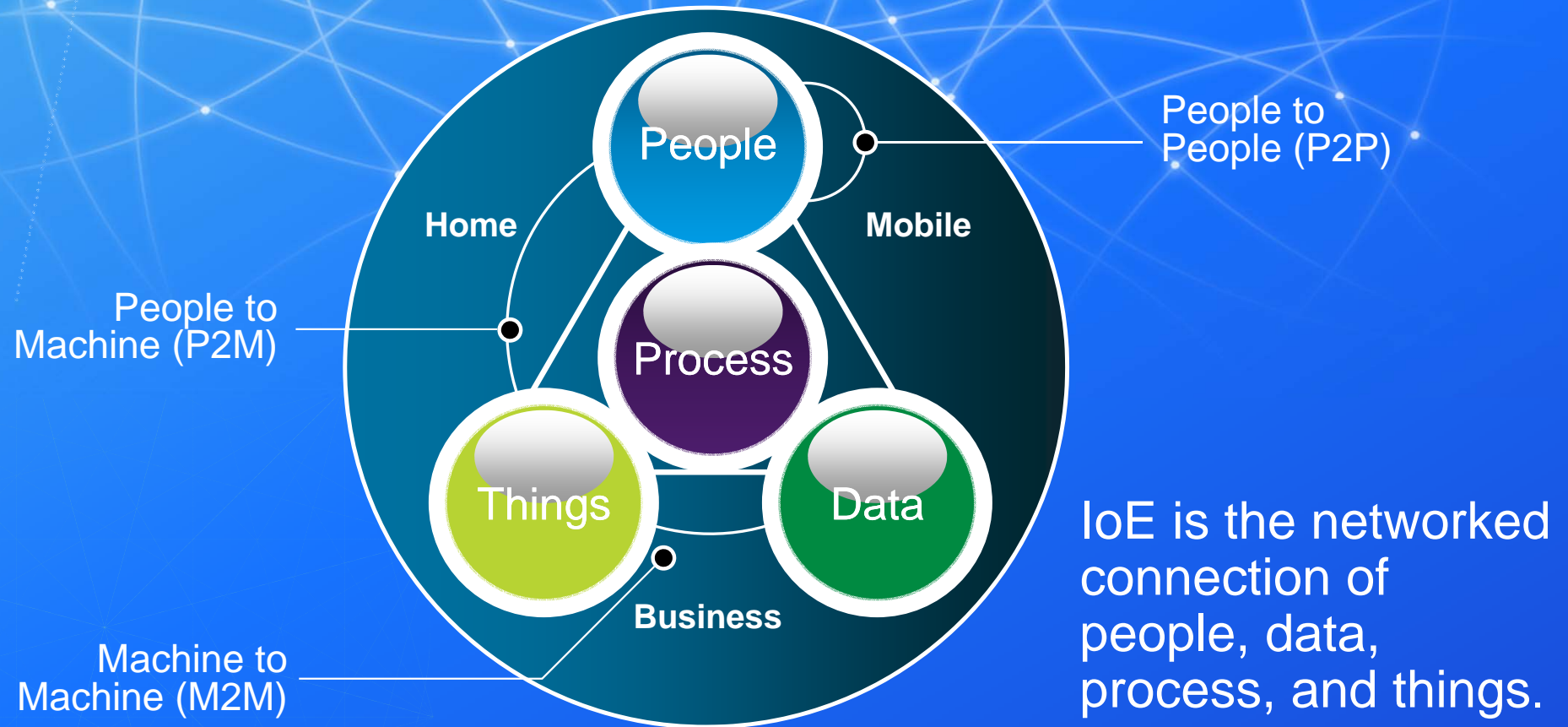


FINANCE



ENERGY

The Internet of Everything



It's Not the **Number** of Connections That's Important...
It's the **Value** They Deliver



Metcalfe's Law on Steroids

Additional value comes from:

Connections

Availability, comprehensiveness, accuracy, timeliness, relevance, and richness

People, Data, Things

Context awareness, increased processing power, greater sensing abilities



Intelligence
Convergence
Visibility
Security

Source: Cisco IBSG, 2012

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The Opportunity: Turning Data into Wisdom

Big Data

Data in Motion

Wisdom

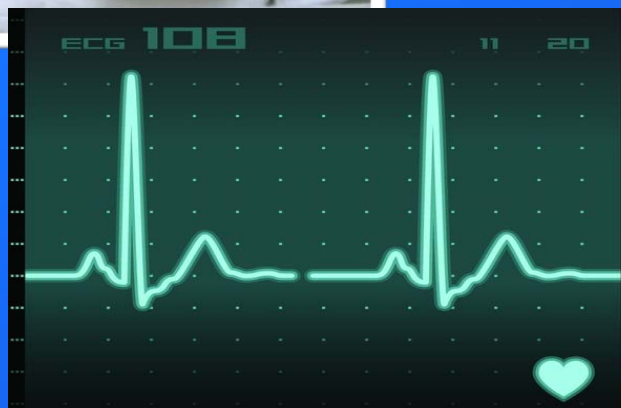
Knowledge

Analytics

Information

Data

Healthcare Data Analytics

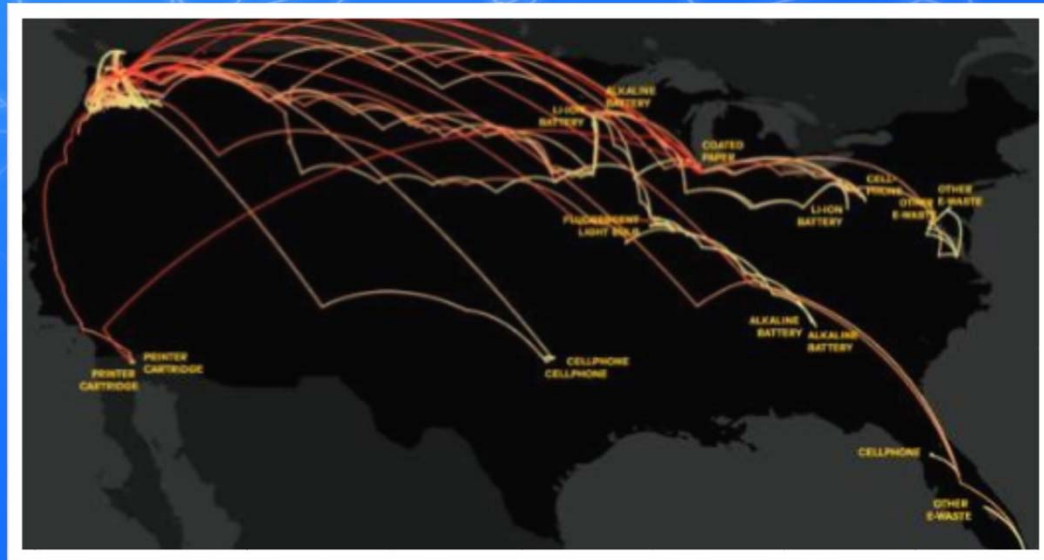


Dr. Carolyn McGregor
University of Toronto

Sensors and Mobile Technologies for Resource Management



Professor Carlo Ratti
Massachusetts Institute
of Technology



Oil Rigs Get Real-Time Data & Remote Experts

With Petrobel i-Rigs, decisions can be based on real-time data and remote access to experts



Machine ➔ Person



Rig personnel use real-time data and remote expert access to make better decisions



New information necessitated change in on-rig processes/operations

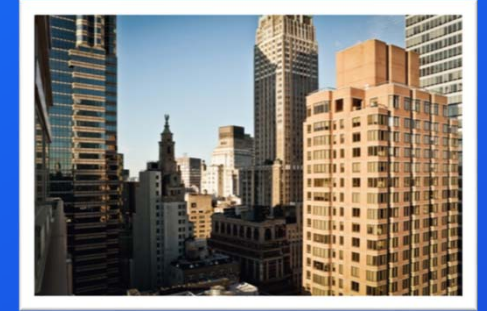


Real-time data analyzed to provide decision makers with actionable information



Sensors collect/send data in real time to influence decision making

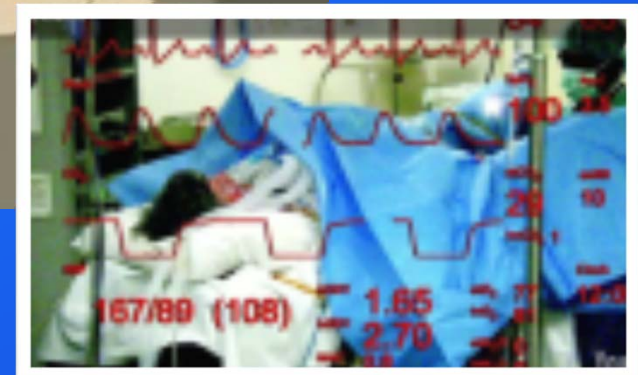
Following the Data Saves Lives and Taxpayer Dollars in New York City



Virtual and Augmented Reality



Simulated Diagnostic in
Virtual World Animation



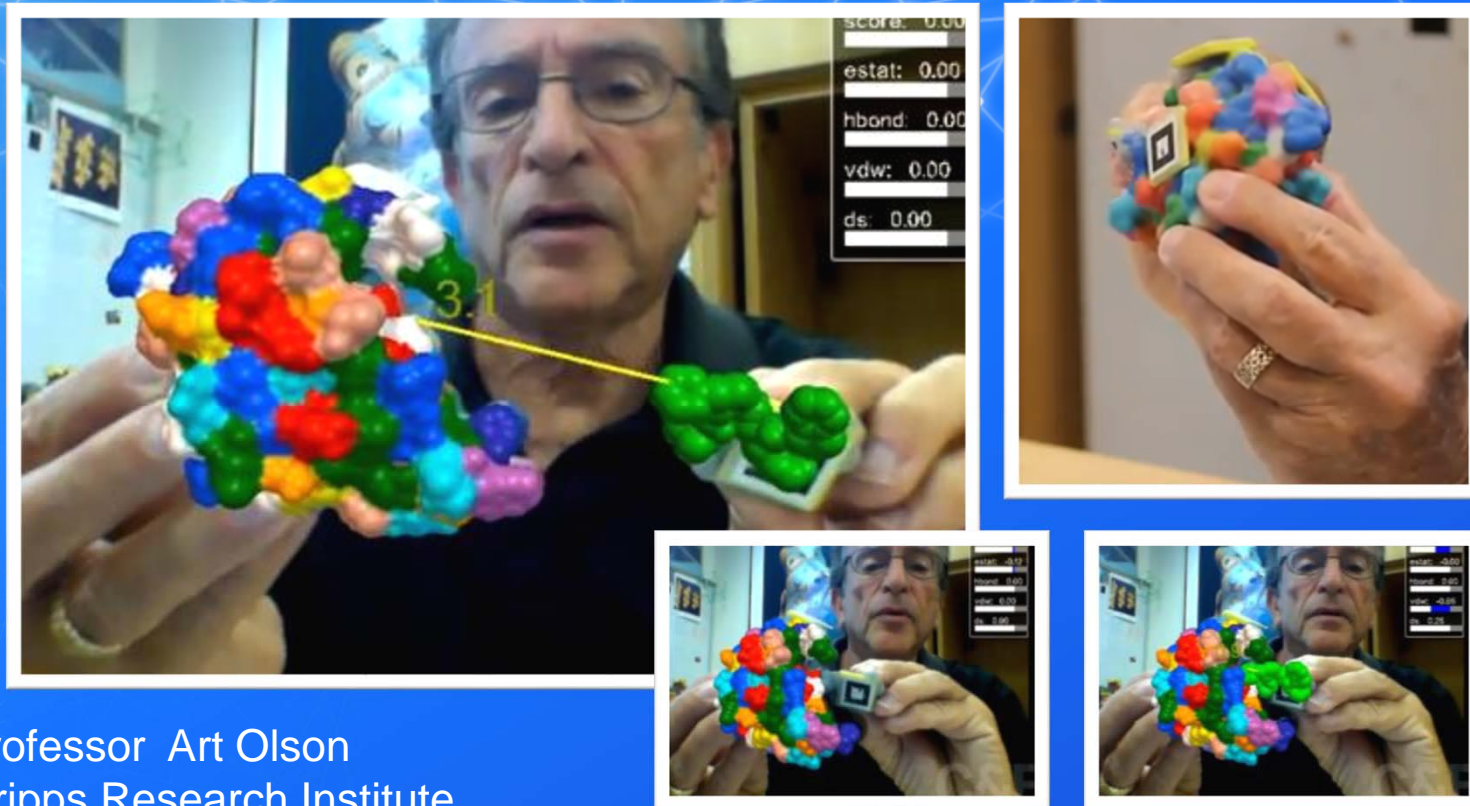
Teaching Geology Tomorrow



Norwegian University of
Science and Technology,
Trondheim

Source: AR Overview website

Mixed Reality for R&D



Professor Art Olson
The Scripps Research Institute

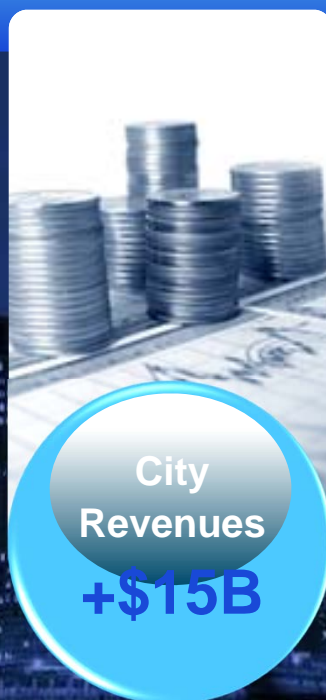
Technological Change Is Exponential

During the 21st
century we may
experience **20,000**
years of progress



Smart+Connected Communities

Over 20 years, a city of 5 million could experience...



Source: Connecting Cities: Achieving Sustainability Through Innovation, Nicola Villa and Wolfgang Wagener, Cisco IBSG

Thank you.

