

Driving Growth from the Internet of Things Case Studies

Neil Hickey July 17, 2015

Strategy | Consulting | Digital | Technology | Operations

IoT's Top-Line Opportunity

Optimistic predictions of the value created by the Internet of Things range as high as \$15 trillion of global GDP by 2030.



Operational Efficiency

Automation, more flexible production techniques and predictive maintenance

Top-Line Growth

New digital products and services generate entirely new sources of revenue

Four steps to exploit revenue-generating opportunities



1. Innovate through Product-Service Hybrids



2. Become the most valuable information provider



3. Treat services as R&D



4. Create an IIoT workforce

1. Innovate through product-service hybrids

Michelin move to Service vision
Tire Manufacturer Business-as-a-Service ecosystem

To get stronger and faster in the Services business

- Strong partner ecosystem with convergence of interest
- Support global scale growth and operations



Federate an ecosystem of accenture worldline MICHELIN' solutions TYRECHECK

2. Be the VIP – Most Valuable Information Provider

Caterpillar is banking on information services for it's installed base to retain and attract customers

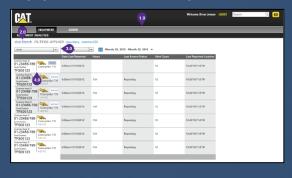
CAT Telematics Landing Page



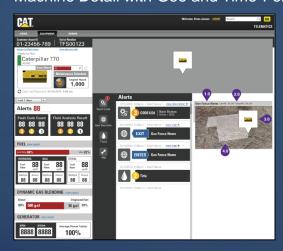
Machine Alerts, Fault Codes



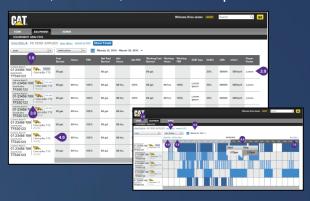
Equipment List with Complex Assets



Machine Detail with Geo and Time-Fence



Hours, Location, Fuel Consumption



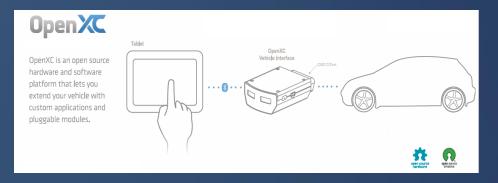
3. Treat Services as R&D

Ford is using information services as a strategy to win over customers using superior customer experiences

Ford once said "make the best quality goods possible at the lowest cost possible, paying the highest wages possible." That was a good rule in the early 20th century, but it's insufficient for the 21st.







OpenXC[™] is a data-focused API for your car and by installing a small hardware module, the vehicle data becomes accessible to Android or other desktop applications using the OpenXC library.

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4. Integrate Digital and Human Labor

While the adoption of the Industrial Internet will accelerate and expand the use of digital labor (in the form of automation using intelligent software and robots), greater returns and productivity gains will come from augmentation, which seamlessly blends digital and human labor in task-specific environments

Examples



Self-driving cars create an entirely different kind of commute and driving experience



Adaptive robots working side-by-side with people on the factory floor



Remote operation of mining equipment from the Command Center

Next Steps on Your IoT Journey

There are a number of initial steps that companies should be considering now to help them take advantage of the growth potential of the Internet of Things including:



Think boldly about value potential from product-service hybrids.



Cultivate tomorrow's partner ecosystem.



Start now to design and develop Industrial Internet platform.



Closely study Industrial Internet financials.



Prepare marketing/sales/service to promote new digital products and services.



Clarify legal rights, obligations and secure access to data generated from machines to deliver new digital services.



Think about how to augment workforce with smart machines.

www.accenture.com/iot