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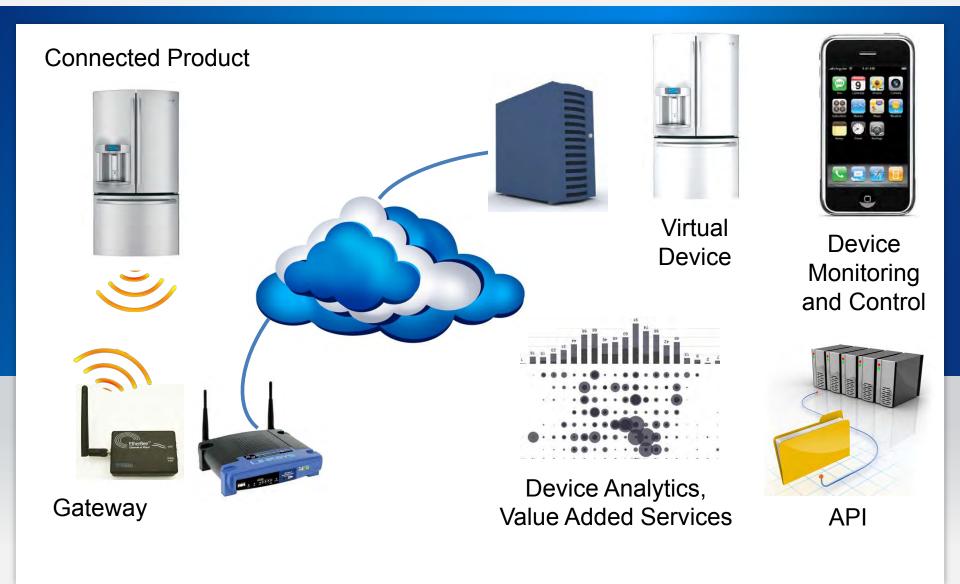
Olivier Ribet Vice President, High Tech Industry Dassault Systèmes David Bingham Design System Curator General Electric

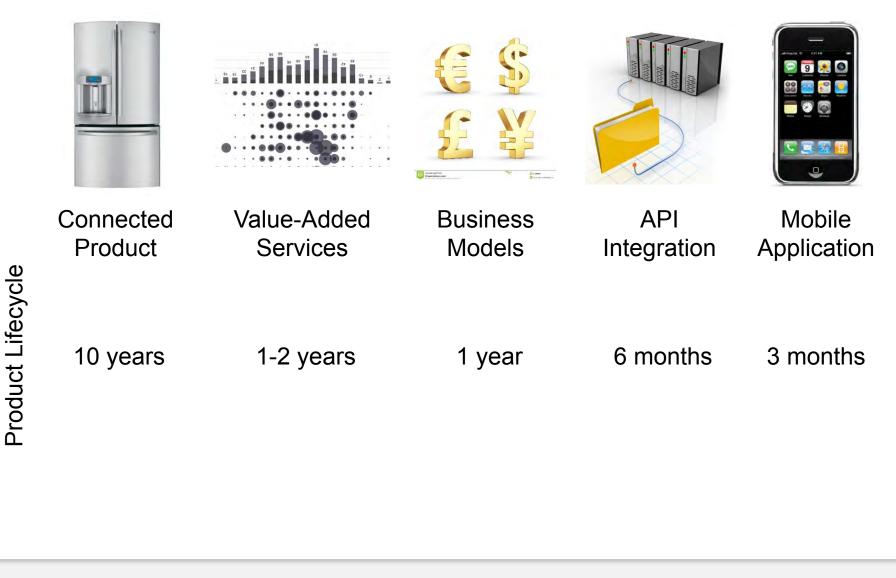
Todd Rytting Chief Technology Officer Panasonic North America

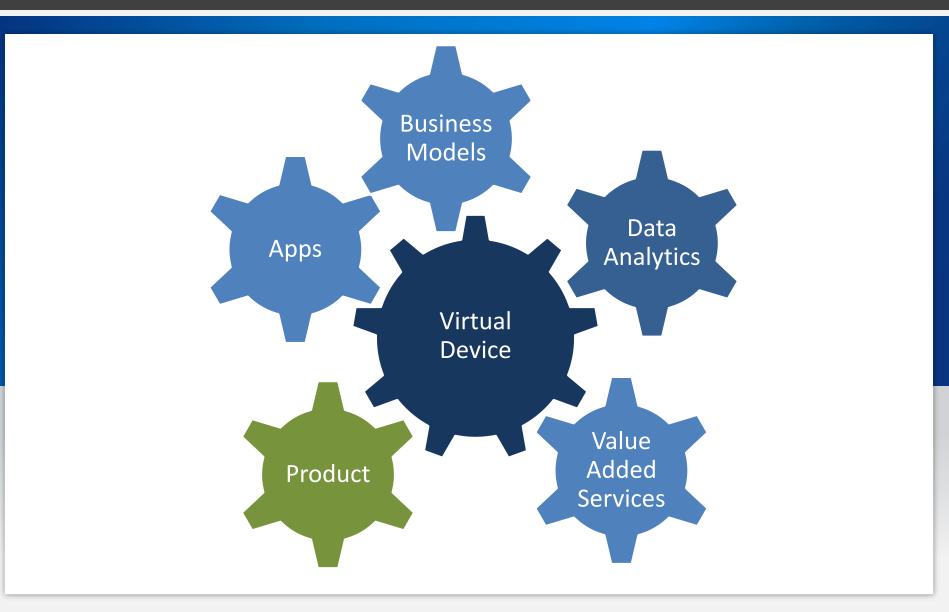
Agenda

- Introductions
- Product Management and the Speed of Innovation
- Information Flow as a Competitive Advantage
- Managing Complexity in the Era of IoT
- Importance of Data for Business Process Improvement
- Value Added Services Enabled by Data
- Q&A

Architecture for Smart Products















Todd Rytting Chief Technology Officer Panasonic

North America

David Bingham Design System Curator General Electric Olivier Ribet Vice President, High Tech Industry Dassault Systèmes



Panasonic A Better Life, A Better World



Panasonic — What Comes to Mind?



Panasonic Avionics — A 747 is a 'Thing' in IOT



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Panasonic

A Better Life, A Better World



Panasonic – Outdoor Sports Displays are "Things" in IOT



Panasonic Automotive – A Car is a "Thing" in IOT



Leading Global Provider of Infotainment Systems



Panasonic Home Monitoring – The Home is a "Thing" in IOT



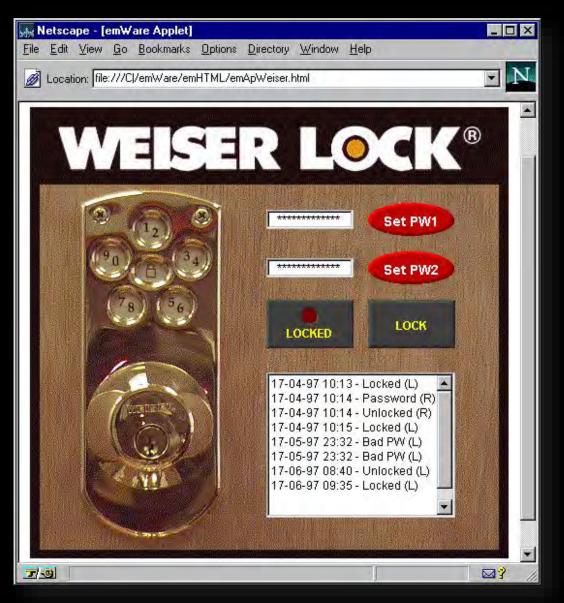
Panasonic – Appliances are "Things" in IOT





Panasonic

Panasonic – IOT 18 Years Ago



Panasonic

Panasonic – IOT 15 Years Ago



Networked Microwave with Bar Code Scanning



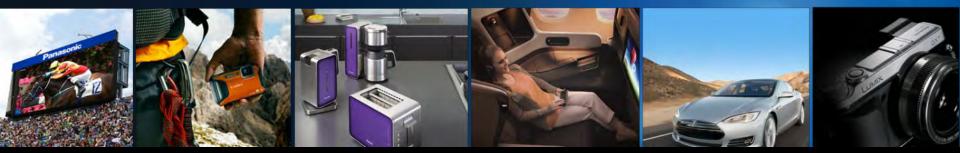
Networked Fridge with Touch Panel

Panasonic



Panasonic

Global Supplier of Technology Solutions to Businesses and Consumers







Todd Rytting Chief Technology Officer Panasonic

North America

David Bingham Design System Curator General Electric Olivier Ribet Vice President, High Tech Industry Dassault Systèmes





Appliances

Industrial Internet

DO NOT

Her HW Output Miguret October M Park 3965.2



David Bingham @bizarobot <u>bingham@ge.com</u>

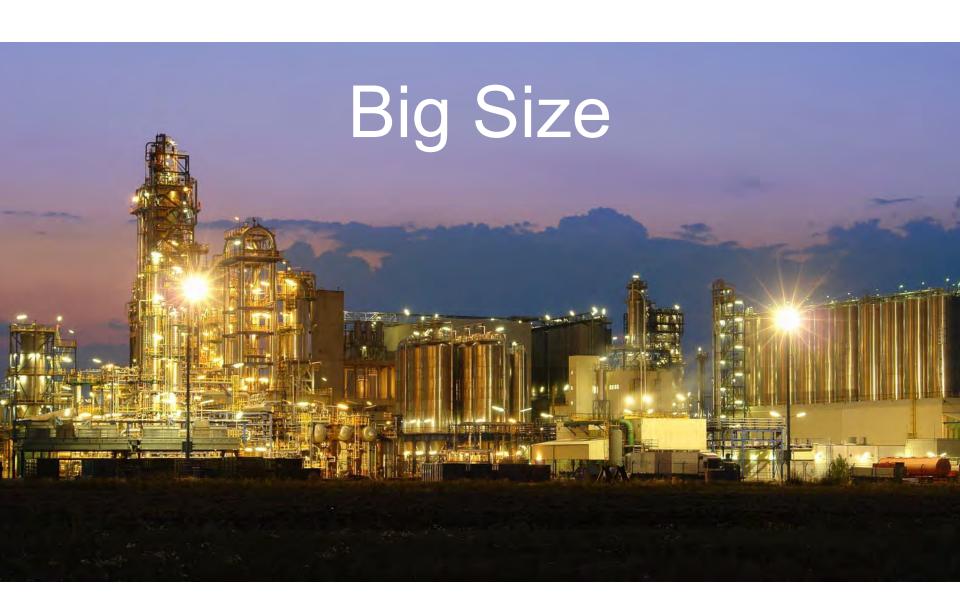


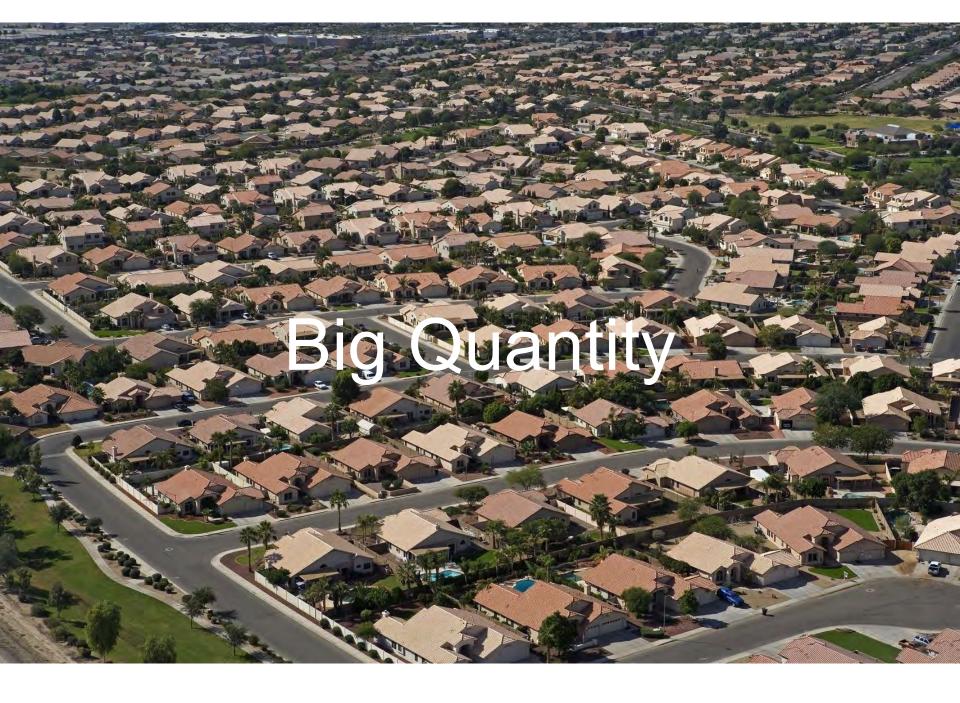








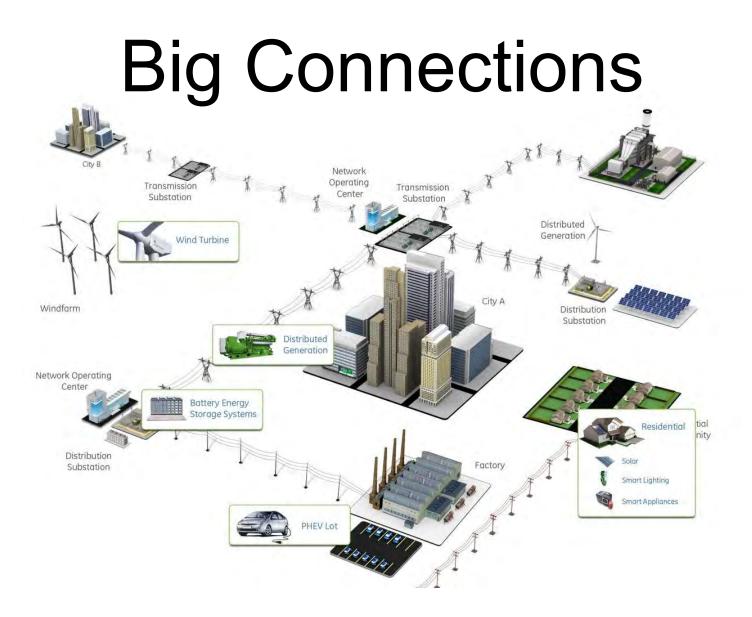




Big Money

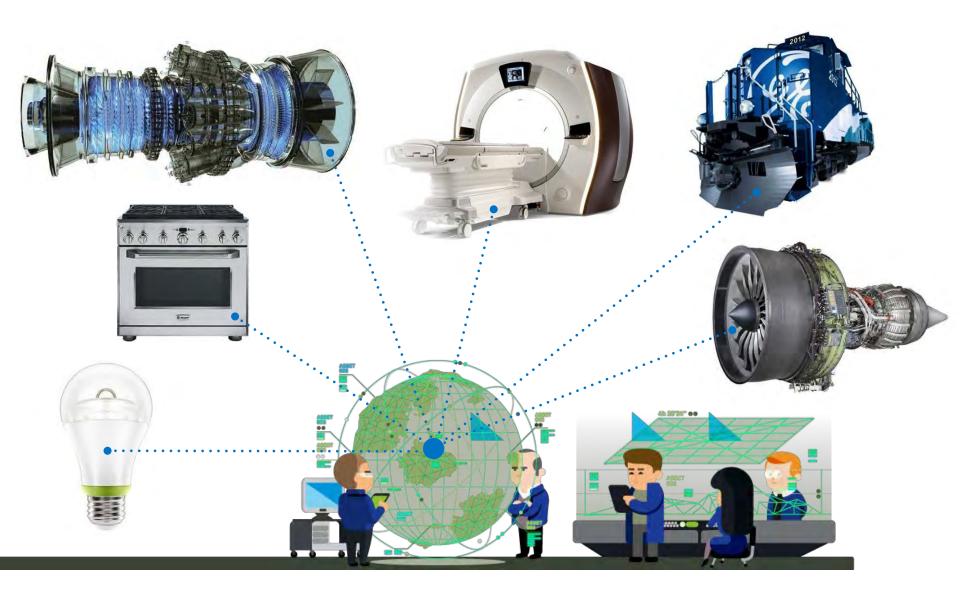
1% reduction in fuel = \$30 billion over 15 years





Big Data

22,500 GE Wind Turbines 1,000 Sensors per Turbine = 22,500,000 sensors





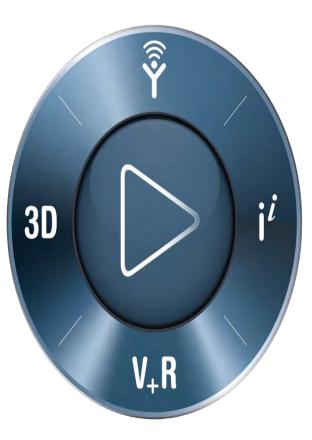




Todd Rytting Chief Technology Officer Panasonic

North America

David Bingham Design System Curator General Electric Olivier Ribet Vice President, High Tech Industry Dassault Systèmes



IOT : Smart Home Appliance in the Era of Experience

3DEXPERIENCE[®]



Our Company



a **Scientific** company

Combining **Science**, **Technology** and **Art** for a sustainable society



13,300 passionate people

- 117 nationalities
- One global R&D / 56 labs
- Game changing **3D**EXPERIENCE solutions



190,000 enterprise customers

- 12 industries in 140 countries
- >10 million on premise users
- >100 million online users



3,500 partners

- Software, Technology & Architecture
- Content & Online Services
- Sales
- Consulting & System
- Integrators
- Education
- Research



Long-term driven

- · Majority shareholder control
- Revenue: \$ 2.8 Bn*
- Operating margin: 31.5%*

* Figures as of FY 2013 / Non-IFRS



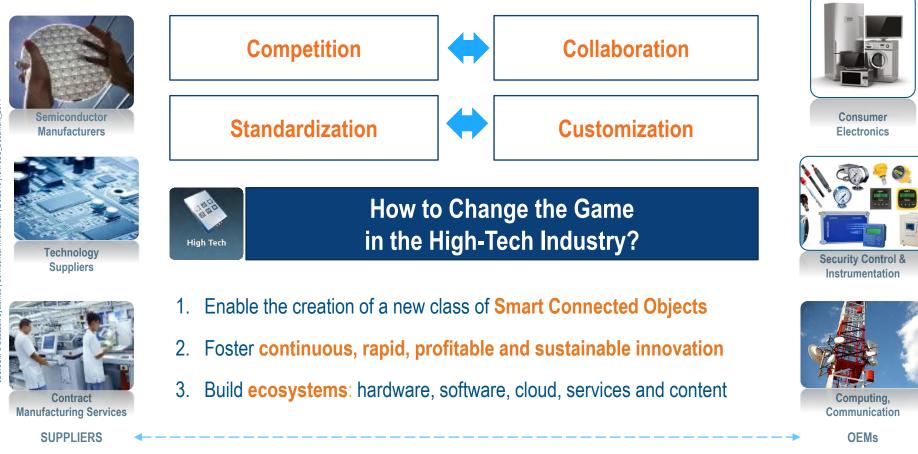
Olivier Ribet – Vice President, High Tech Industry For Dassault Systemes





- Helping high-tech companies worldwide adapt to fast-paced market trends and deliver innovative electronic experiences for their endcustomers by using Dassault Systèmes' 3DEXPERIENCE platform.
- Fastest growing industry market at Dassault Systèmes.
- Serving the needs of 6 customer segments and support the transformation of their business processes.
- Delivering value to the High-Tech Industry on sustainable innovation through smart products and systems, embedded electronics and software, IT and communications infrastructures.



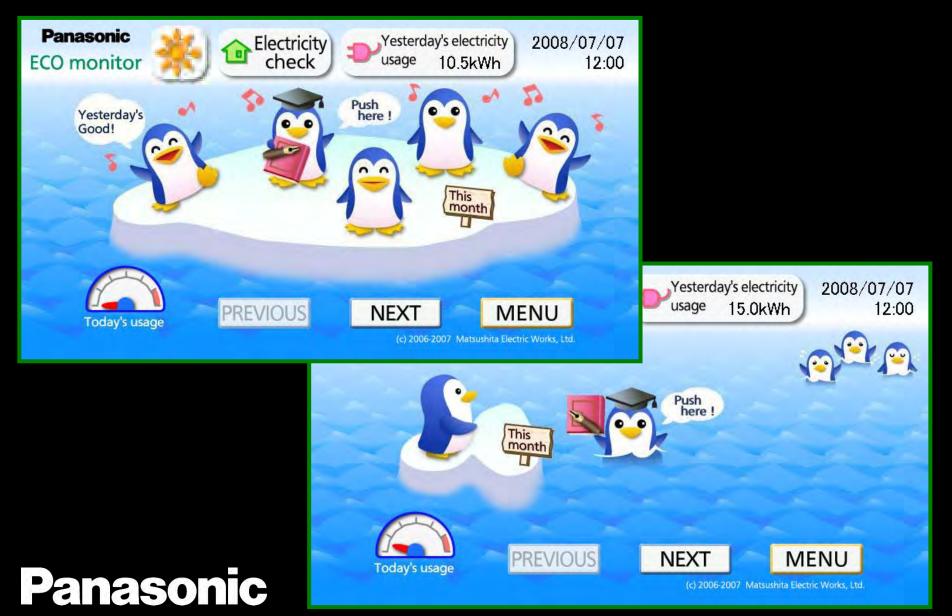


Product Management and the Speed of Innovation



Todd Rytting Chief Technology Officer Panasonic North America Panasonic is global company. What are some of the challenges associated with managing the diversity of global product requirements?

Culture-Specific User Interface



U.S. Home Energy Management Displays ~2011





Product Management and the Speed of Innovation



David Bingham

Design System

Curator

General Electric

Open innovation and crowd sourcing are disruptive forces for product management. How is GE taking advantage of these opportunities?

Product Management and the Speed of Innovation



How will the product management function change to accelerate innovation?

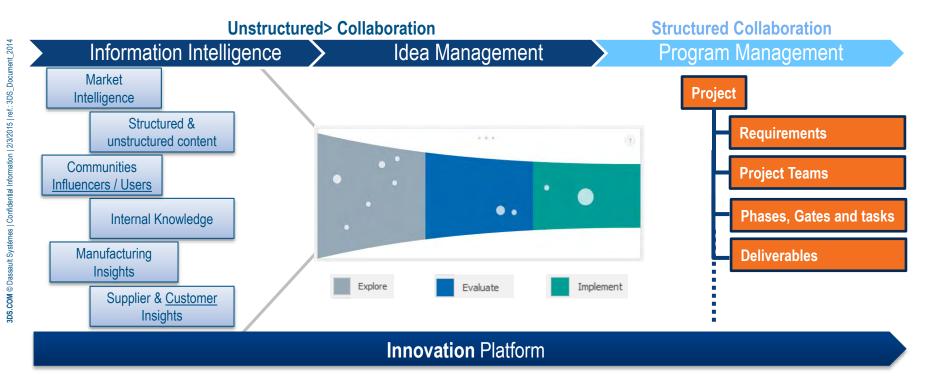
Olivier Ribet

Vice President,

High Tech Industry

Dassault Systèmes

From Insights to Execution



Sussent The **3DEXPERIENCE** Company

Information Flow as a Competitive Advantage



What are some of the problems that have to be addressed to share data and information more rapidly?

David Bingham

Design System

Curator

General Electric

Information Flow as a Competitive Advantage



What do you think are some of the keys to accelerating the flow of information?

Todd Rytting Chief Technology Officer Panasonic North America

Information Flow as a Competitive Advantage



What systems can help organizations break down silos and share information?

Olivier Ribet

Vice President,

High Tech Industry

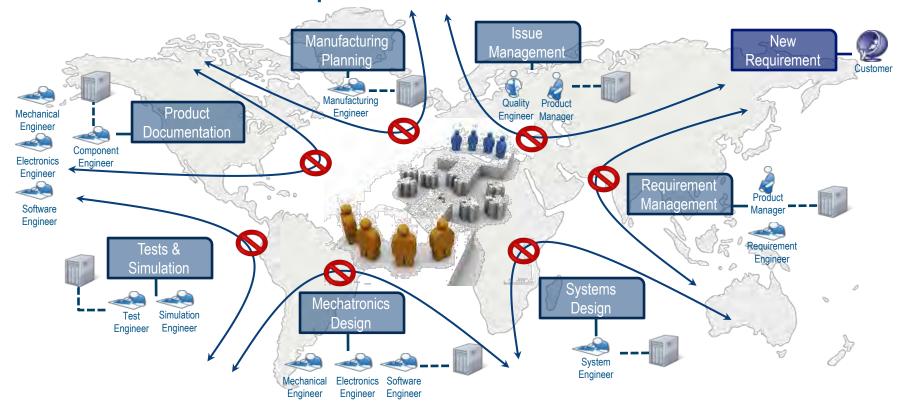
Dassault Systèmes

High-Tech Industry Solution Experiences



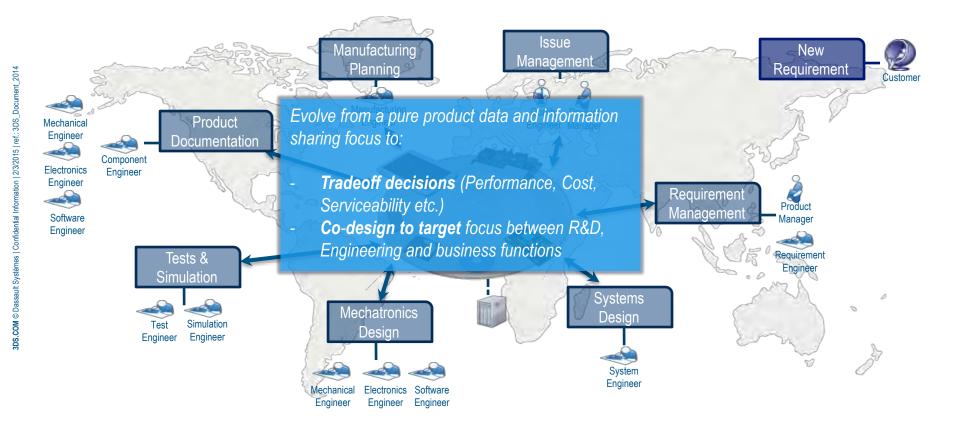


From Mono-discipline Excellence...



Sussent The **3DEXPERIENCE** Company

... To Multi-Discipline Excellence





Managing Complexity in the Era of IoT



Todd Rytting Chief Technology Officer Panasonic North America

How frequently do you think that leading companies will upgrade apps, cloud services, or firmware for products in the field? How will companies manage that change?

Managing Complexity in the Era of IoT



David Bingham

Design System

Curator

General Electric

What issues have to be addressed to add fast paced software product management processes to existing, slower moving product development process?

Managing Complexity in the Era of IoT



What are some of the key processes that must be developed to manage complexity?

Olivier Ribet

Vice President,

High Tech Industry

Dassault Systèmes

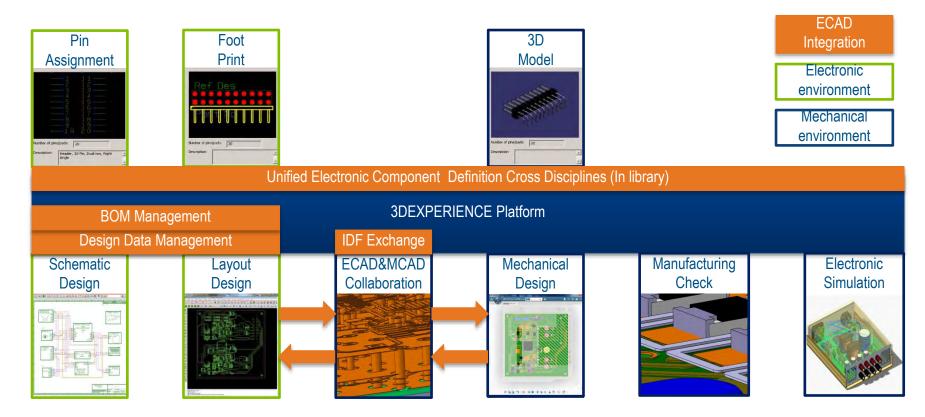
Integrated Design Experience for Smart Products





The example of Collaborative Hardware Design

Integration of Electronic and Electro-mechanical design processes (note similar process exists for Software)







Todd Rytting Chief Technology Officer

> Panasonic North America

What are some of the different ways that data from smart products can be used by different parts of the organization?



Describe the characteristics of the ideal data interface tool for your organization.

David Bingham

Design System

Curator

General Electric



Olivier Ribet Vice President, High Tech Industry Dassault Systèmes Companies that can mine product data to gain insights will lead the market. How can companies make data accessible?

Search & Reveal from Information Intelligence





Customer Interaction Collect & Engage



Digital Assets *Reveal, Capitalize & Reuse*



Machine data Product usage & trace



Value Added Services Enabled by Data



Todd Rytting Chief Technology Officer

> Panasonic North America

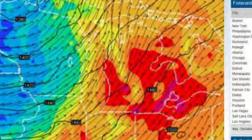
Different value added service may be bundled together to drive mix, share, or price. How will value added services evolve?

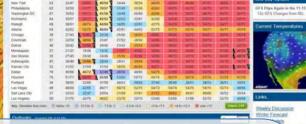
Panasonic Avionics— High Accuracy Weather Forecasting

Panasonic

ICELANDAIR

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Panasonic Weather Services:

- Installs weather sensors in planes
- Collects and analyzes weather 20x more data than conventional methods

Result:

More accurate worldwide forecasting

A Better Life, A Better World

Value Added Services Enabled by Data



David Bingham

Design System

Curator

General Electric

Many value added services will open up opportunities for partnerships and new business models. What challenges are involved with executing new business models and partnerships?

Value Added Services Enabled by Data



What capabilities must be acquired in order to succeed in the smart home market?

Olivier Ribet

Vice President,

High Tech Industry

Dassault Systèmes

Adaptive Experience: Software management in the age of IoT





eService Experience



Superior of the SDEXPERIENCE Company





Questions from the Audience







Olivier Ribet Vice President, High Tech Industry Dassault Systèmes David Bingham Design System Curator General Electric Todd Rytting Chief Technology Officer Panasonic North America

Thank You.



Thank You.

Tom Kerber

Director of Home Systems and Energy

Parks Associates 15950 N. Dallas Parkway, Suite 575 Dallas, Texas 75248

> Office: 972.490.1113 Fax: 972.490.1133

tom.kerber@parksassociates.com