



# Industrial Internet of Things

the next technology for mining  
and resources.

**RESA**

October 29<sup>th</sup> 2016

“Was driving with my dad the other day and he told me to get the map out of the glove box.

Easy there Indiana Jones, I will just google it.”

# FOURTH INDUSTRIAL REVOLUTION



1

Steam engine



2

Mass production



3

Internet technology



4

Internet of Things

Accenture estimates the Industrial Internet of Things (IIoT) could add **\$14.2 trillion** to the global economy by 2030.



The Industrial Internet of Things is a system of systems that uses the internet to connect people, processes and assets to optimize business results.

**...it leverages smart connected assets,  
enterprise integrated automation,  
secured cloud-based data,  
and advanced analytics**



**Enhancing the Connection of People to Assets**



**Enterprise Scalability and Data Fusion**



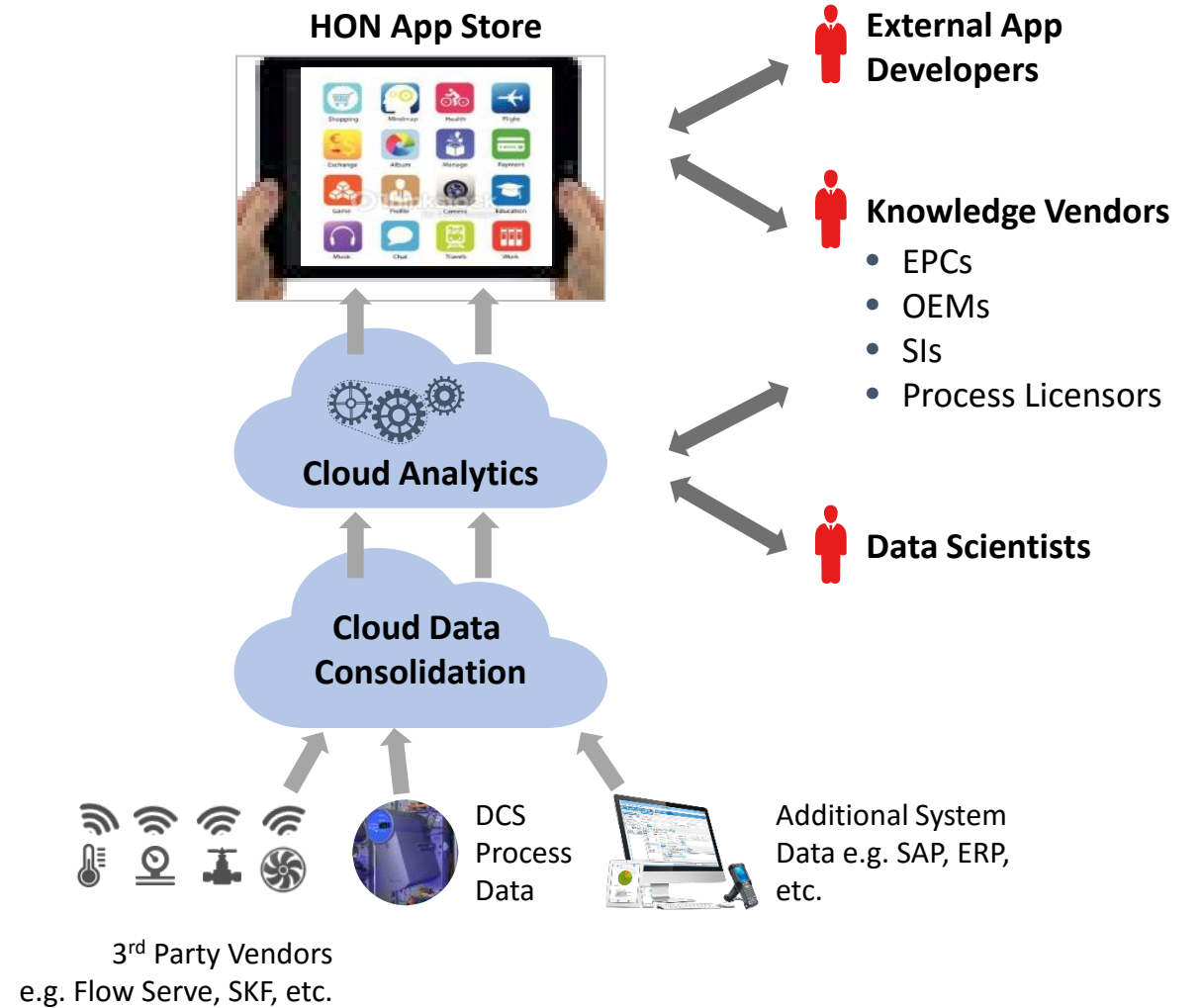
**Analytics**

- Better Inventory control
- Better measurement accuracy
- Better Integrity management

**Enhancing the Connection of People to Assets**

**IIOT Technology Enablers**

- 4 Smart and Secure Collaboration
- 3 Predictive Analytics
- 2 Data Management and Onsite Control
- 1 Smart & Connected Assets and Devices



Honeywell Sentience enabling solutions from a broad ecosystem

- Use Case



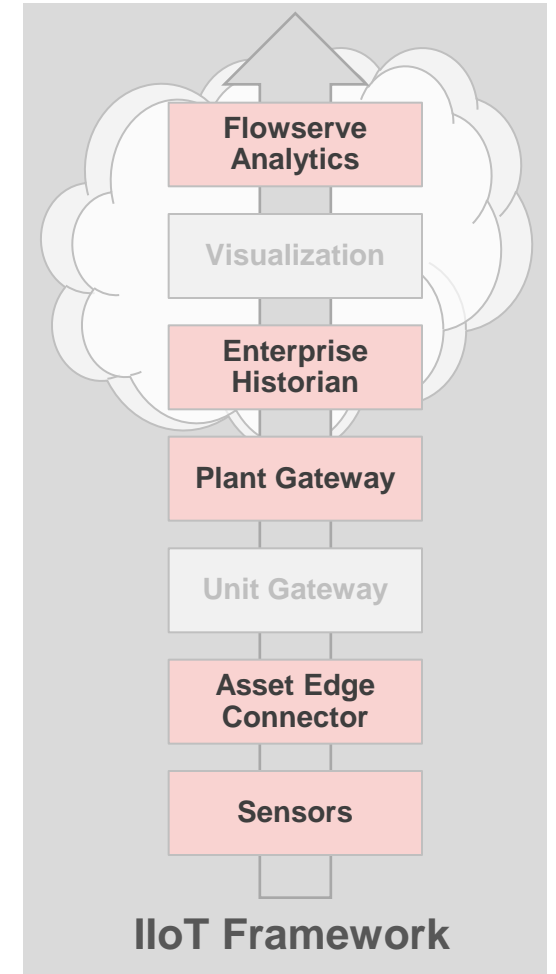
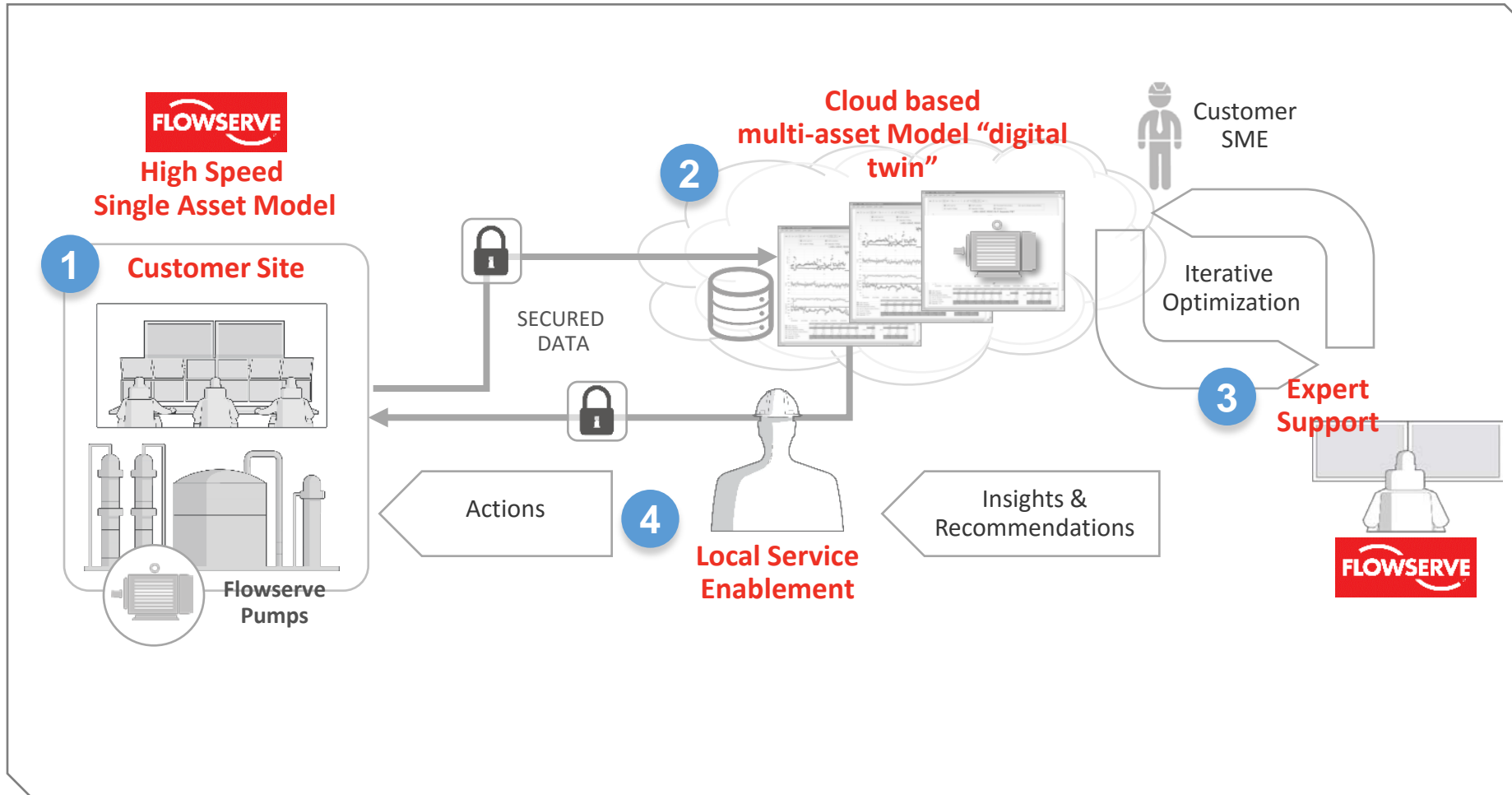
0.5%

OEE



\$10M

Annual Savings





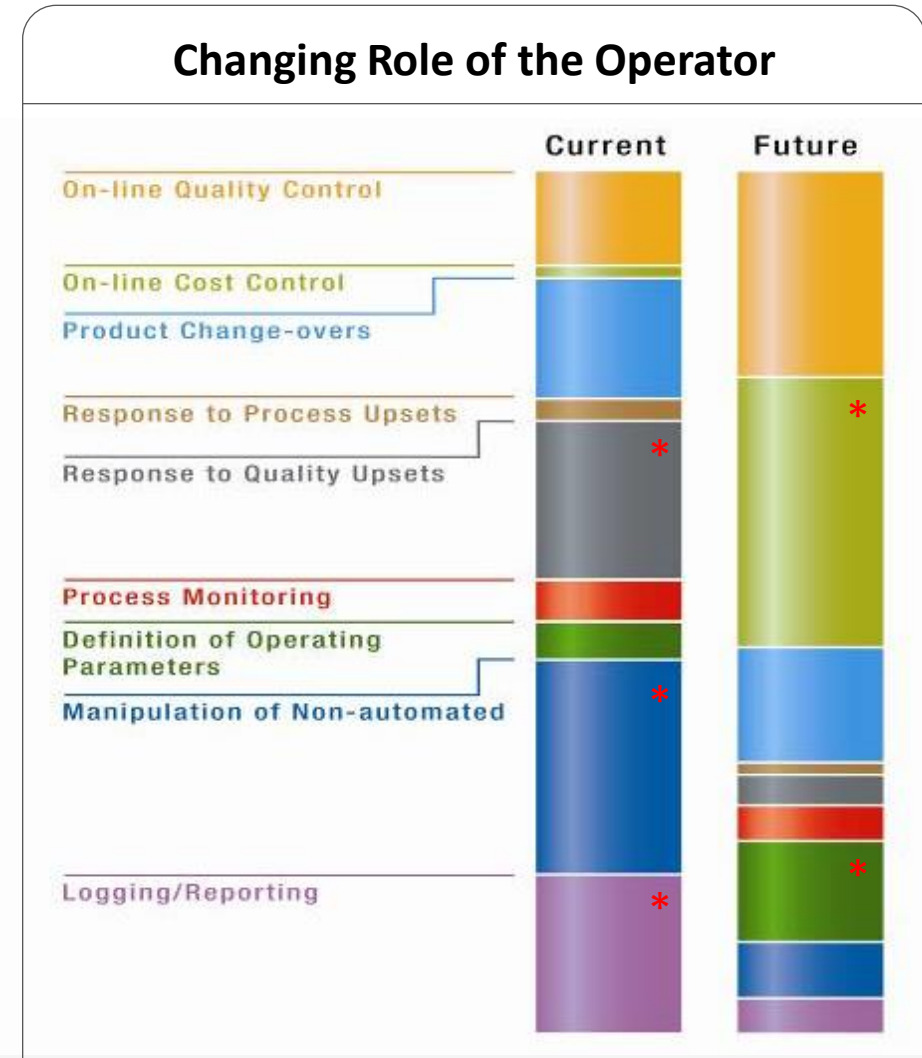
# Industrial Internet of Things

## Opportunities

- Vastly improved operational efficiency
- The emergence of an outcome economy
- New connected ecosystems
- Collaboration

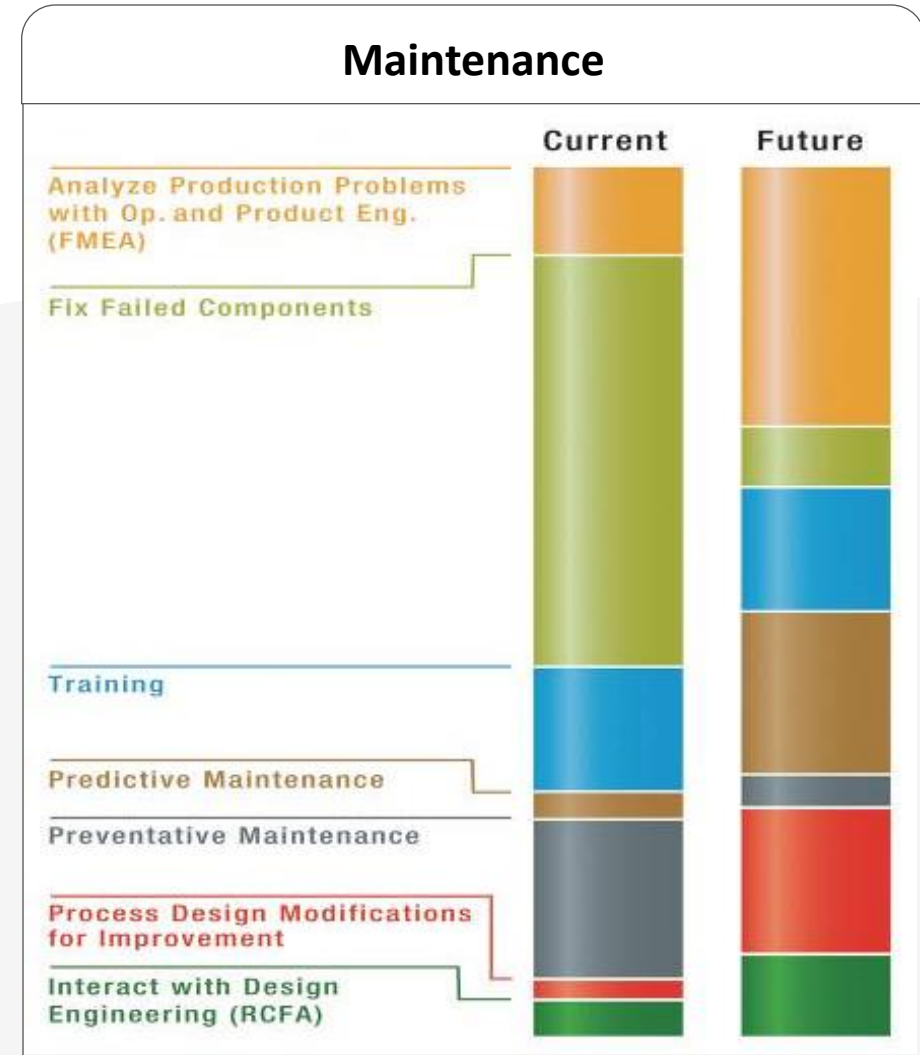
# Industrial Internet of Things

## Changing roles



# Industrial Internet of Things

Changing roles



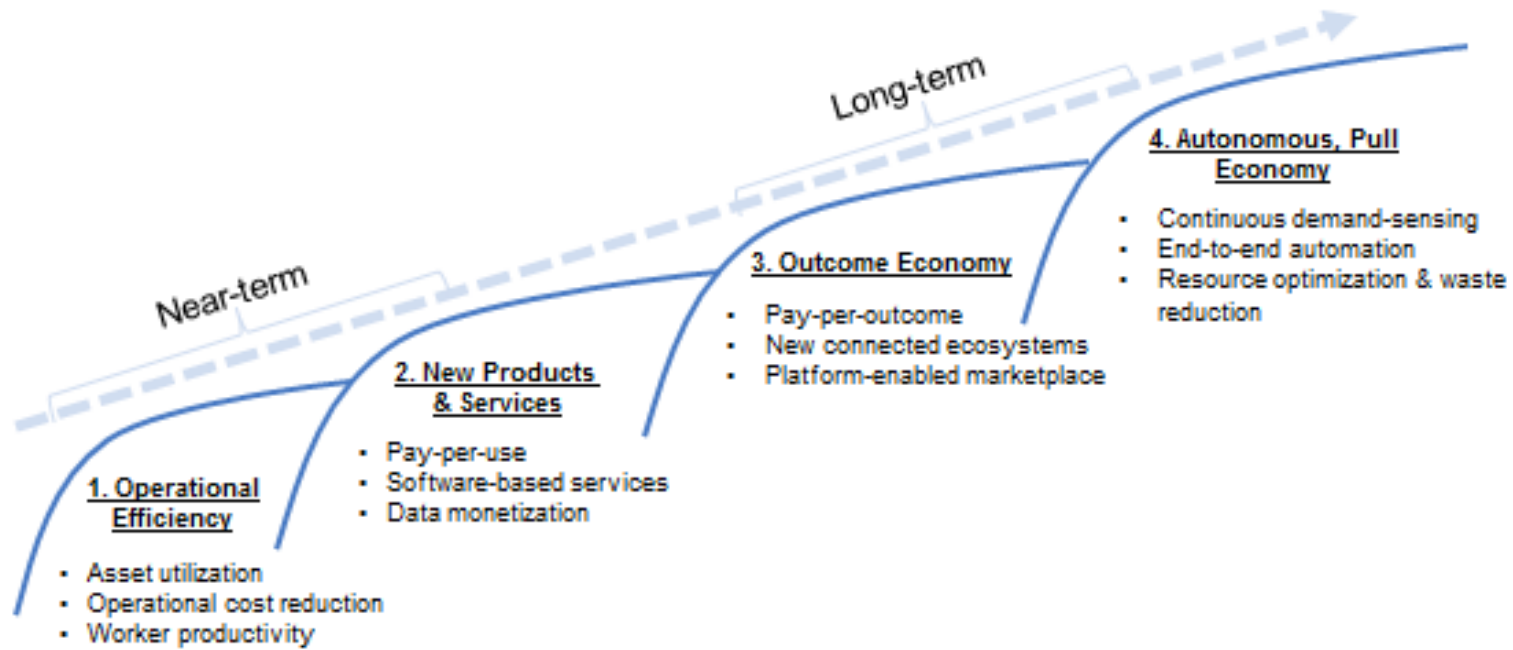
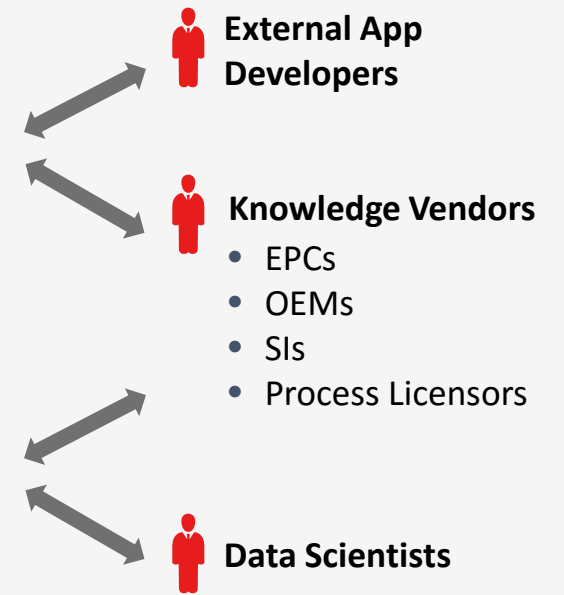


Figure 1: The Impact Path of the Industrial Internet

Source: WEF Report on the Industrial Internet of Things, 2015



# Industrial Internet of Things

Future of work

# Industrial Internet of Things

Top 5 jobs

- 1. Industrial data scientists**
- 2. Robot coordinator**
- 3. IT/IoT solution architect**
- 4. Industrial computer engineer /  
programmer**
- 5. Industrial UI/UX designer**

# Honeywell

- Data, Analytics and Visualization Working Together, Smarter.

**Philip Link**

Honeywell Ltd

E: [philip.link@Honeywell.com](mailto:philip.link@Honeywell.com)