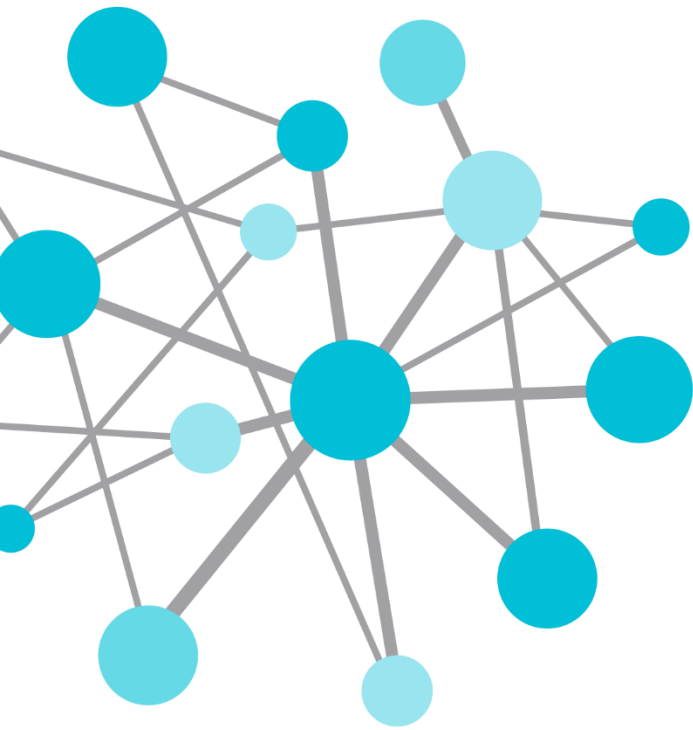


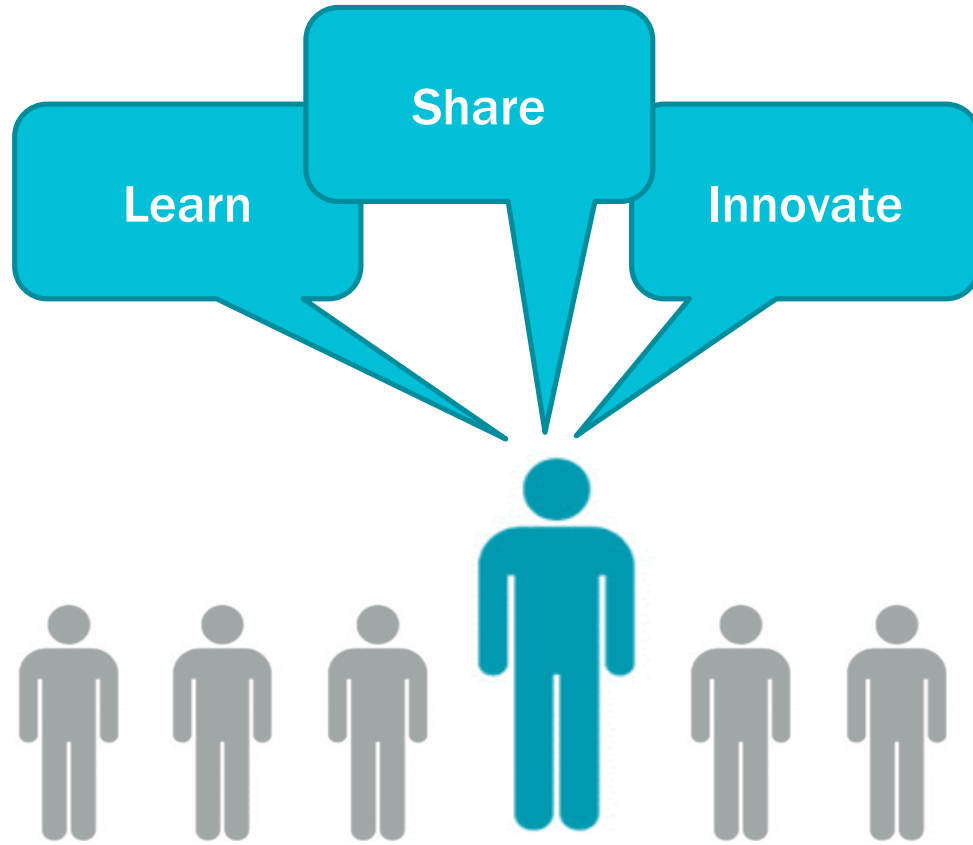
# WELCOME

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# The Journey To Operational Intelligence

Presented by **Pasha Ahmad, General Manager, Middle East and Africa**



This is **your**  
opportunity!

# Agenda



Journey To  
Operational  
Intelligence



Megatrends  
Influencing  
Operations



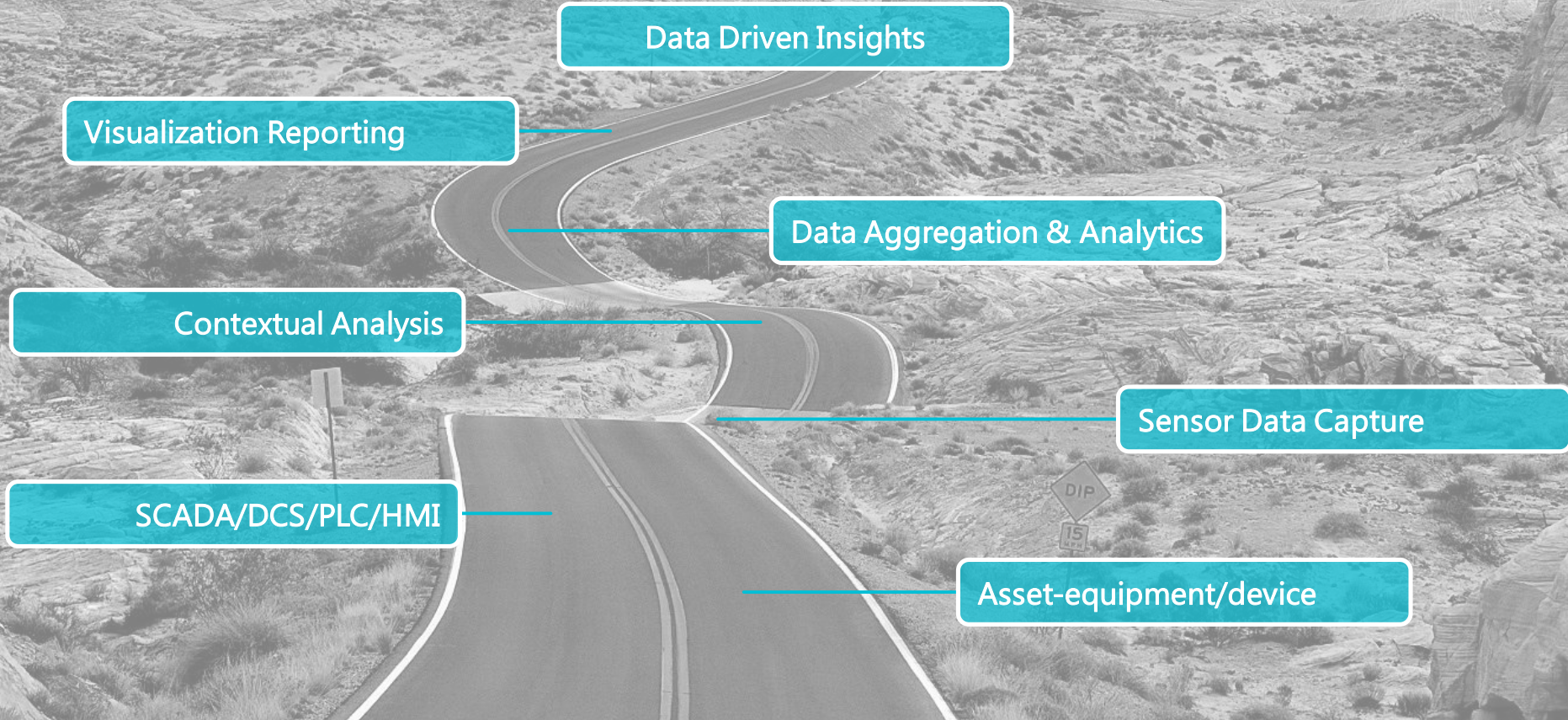
Innovating for the  
Art of the Possible

# Real-time Operations Data Created Everywhere

- Creating **islands** of systems
- Demanding we **connect** data, to systems, to people, to actions
- Availability and **accessibility** of this data is critical



# Journey to Operational Intelligence



# Operational Intelligence



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## Operational intelligence

From Wikipedia, the free encyclopedia

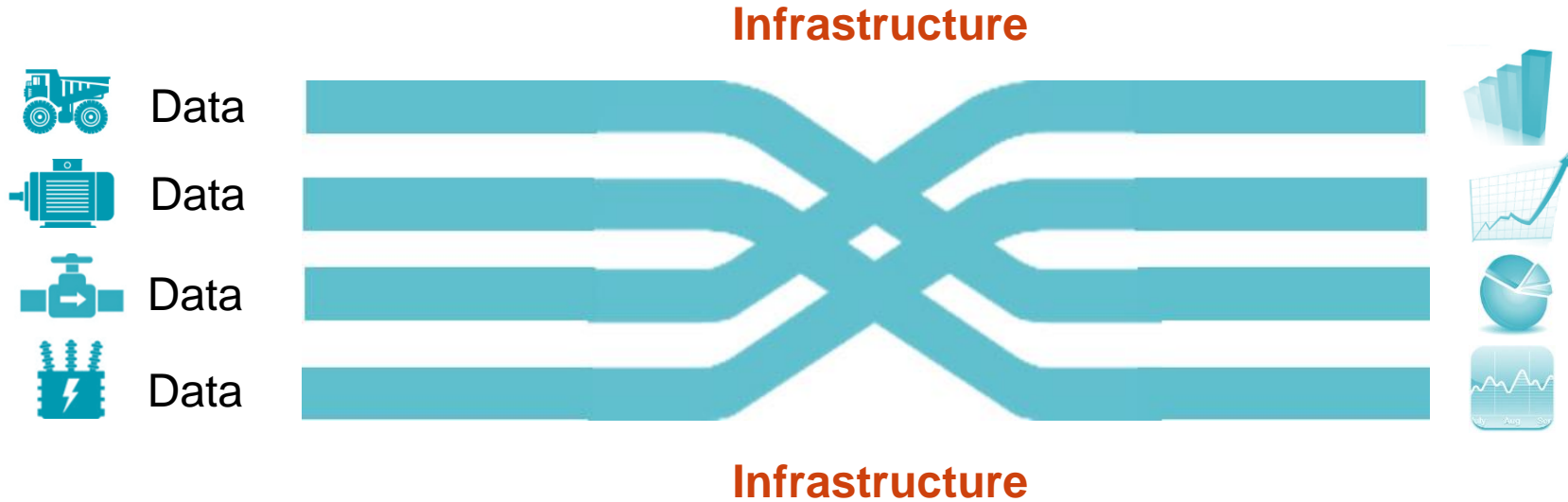
**Operational intelligence (OI)** is a category of real-time dynamic, business analytics that delivers visibility and insight into data, streaming events and business operations. Operational Intelligence solutions run queries against streaming data feeds and event data to deliver real-time analytic results as operational instructions.<sup>[1]</sup> Operational Intelligence provides organizations the ability to make decisions and immediately act on these analytic insights, through manual or automated actions.

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Tools

**Operational intelligence (OI)** is a category of real-time dynamic, business analytics that delivers visibility and insight into data, streaming events and business operations. Operational Intelligence solutions run queries against streaming data feeds and event data to deliver real-time analytic results as operational instructions.<sup>[1]</sup> Operational Intelligence provides organizations the ability to make decisions and immediately act on these analytic insights, through manual or automated actions.

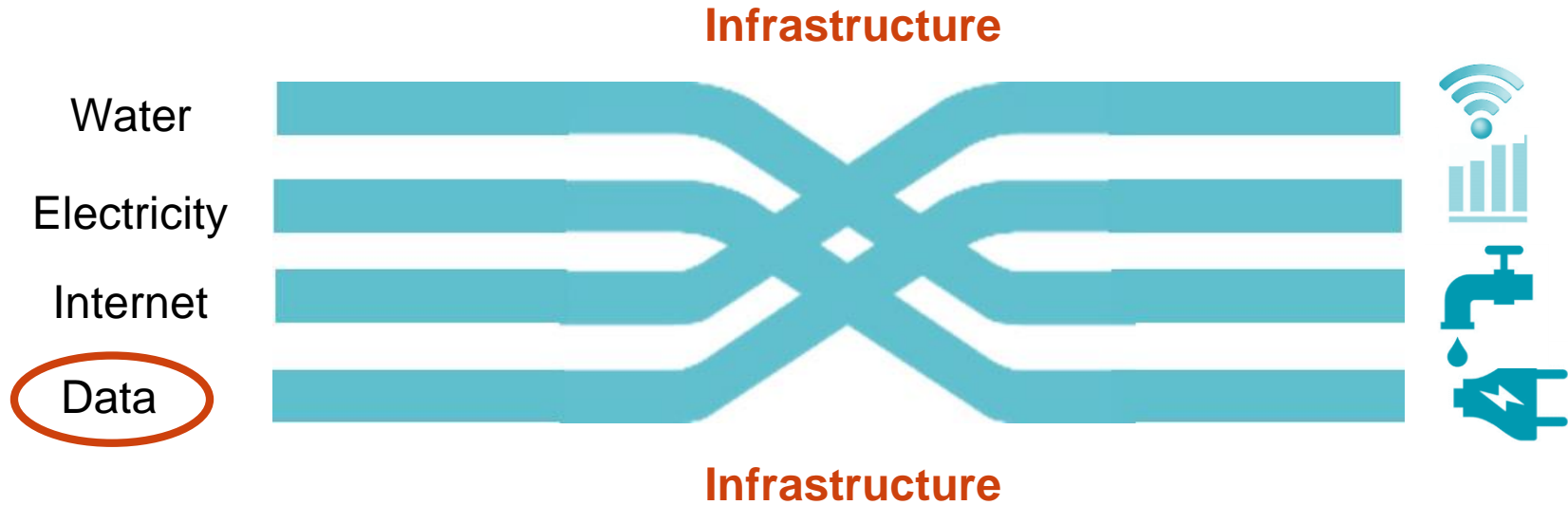
# The Solution- Enterprise Infrastructure



Connect the **right data** to the **right people** in the **right context**  
for the **right decisions** in **real-time**

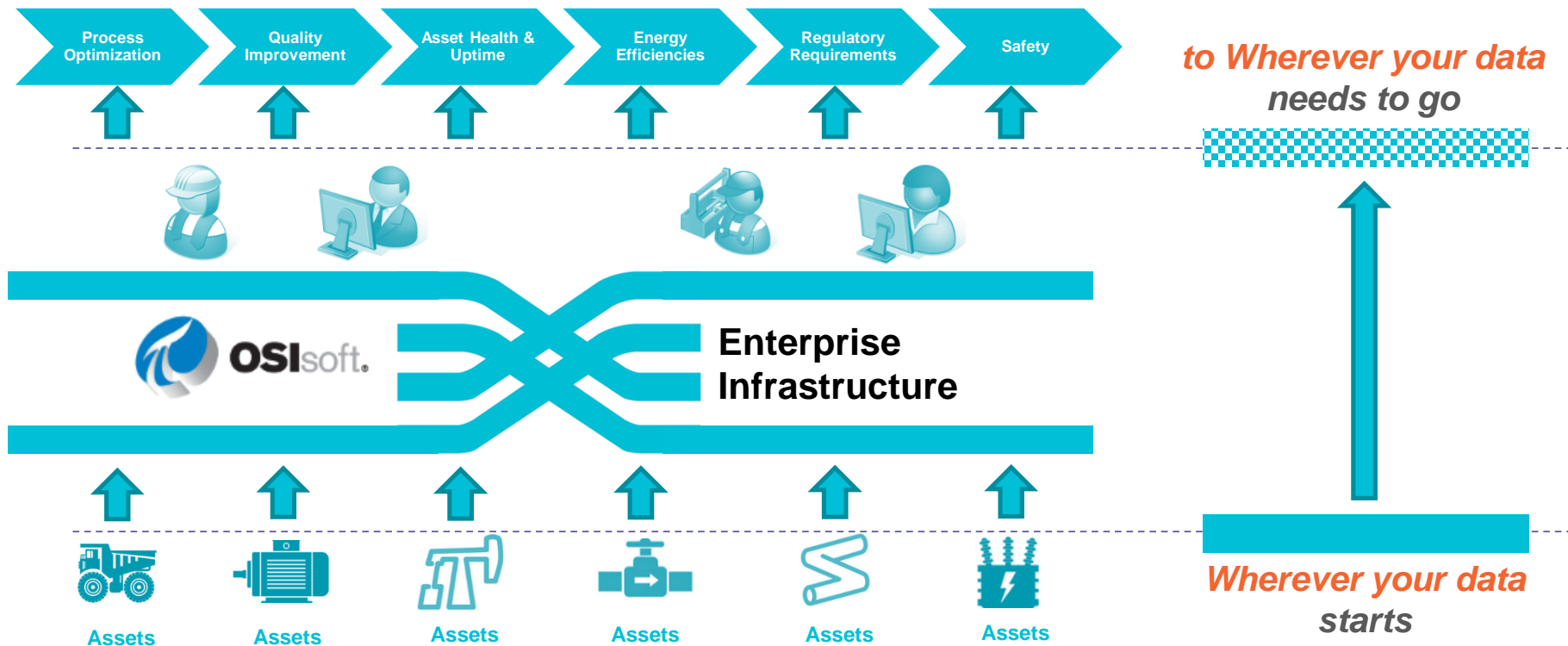


# Data is Critical to Your Infrastructure





# An Enterprise Infrastructure



# Partner Ecosystem for Infrastructure Excellence



## Infrastructure



**185+  
Partners**

- Integrations
- Services
- Embedded

# Agenda



Journey To  
Operational  
Intelligence



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Innovating for the  
Art of the Possible

# Global Megatrends: Why?



## IOT

- Predictive behaviors
- Operational efficiency
- Asset management



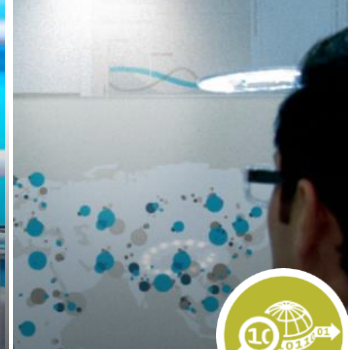
## Cloud

- Connecting distributed sites
- Lower cost of ownership
- Easier/faster deployment



## Mobility

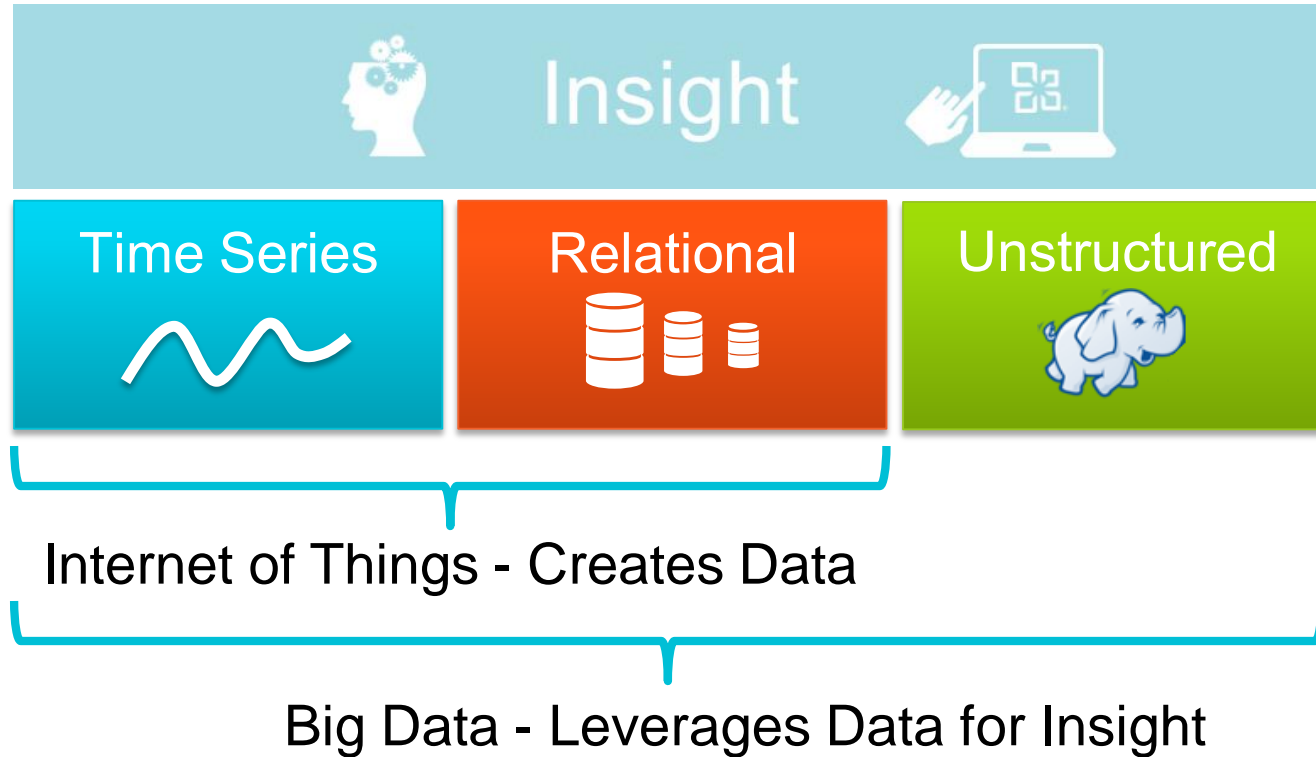
- Connecting people
- Real time context
- In situ decisions



## Big Data

- Combined business and operations insights
- Wide scale analytics

# Your PI Infrastructure is Essential for Big Data



# Agenda



Journey To  
Operational  
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Innovating for the  
Art of the Possible



# OSIsoft PI System 2015 Developments



**Predictive Analytics /  
Simulations**

**Integration with Big  
Data Analytics**

**Integration with  
Business Systems**

# Columbia Pipeline



- Company specialized in the transportation of natural gas
- Established of a strategy of Operational Intelligence in 2011
  - *Internal code name Enterprise Analytics*
- The project was accelerated by the Enterprise Agreement of OSIsoft

*“Columbia Pipeline kept the east of the United States warm during the last difficult winter”*



# Partnership for Innovation

Carnegie Mellon University



OSIsoft®



- Collecting real time data using the **OSIsoft PI System**
- Integrated with **Power BI for Office 365, Azure Machine Learning (ML)**
- Predicting energy consumption and equipment faults across buildings
- Predictions stored as “Future Data” in PI 2015 (CTP).
- Real-time Visualization on PI Coresight
- Documented up to 30% energy savings

Case Study: <http://bit.ly/1kcqxAA>

“With OSIsoft and Microsoft data and cloud technologies, we can integrate almost any device interface and data type.”

**Bertrand Lasternas**, Researcher  
Carnegie Mellon

Step Ahead

# Example: Fault Detection and Diagnostic (Predictive Maintenance)

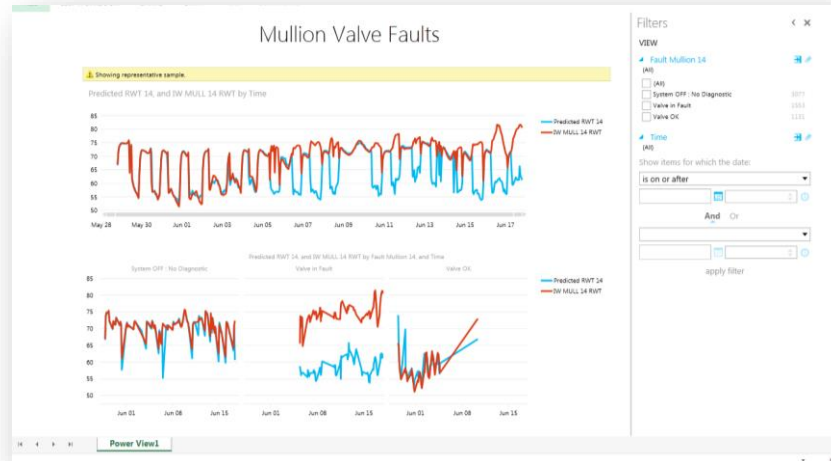
1/Collect Data  
Real-Time

2/ Train Model  
against baseline

3/ Predict (project)  
baseline behavior

4/ Measure variation  
between prediction and  
measured behavior

5/ Trigger notification, corrective  
actions

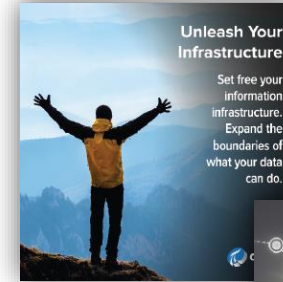


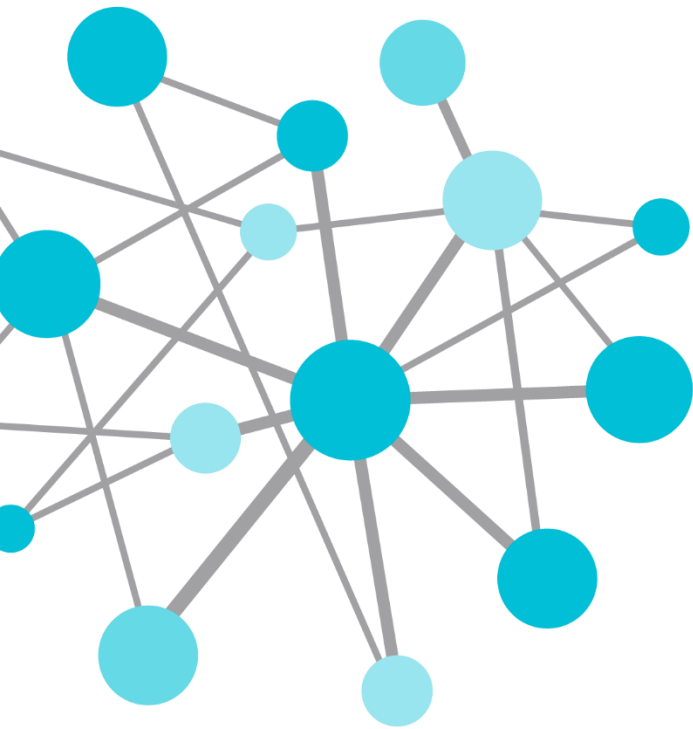
**Microsoft Power BI**

# Summary: Operational Intelligence

- It's a Journey
- Accelerated by the right infrastructure
- Megatrends taking us to new places

“Intelligence without data is the slowest path to success. Data without intelligence is the noise before failure”





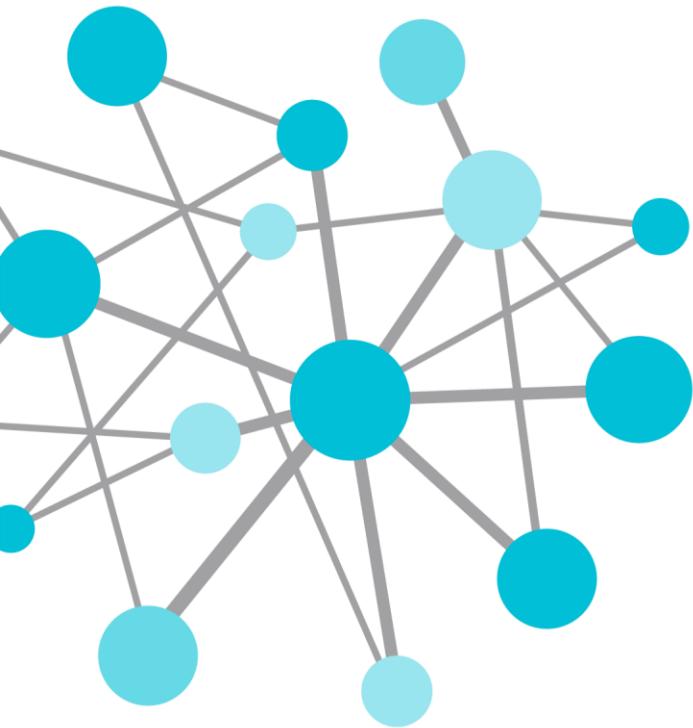
# Questions

Please wait for the  
**microphone** before  
asking your questions



State your  
**name & company**





THANK  
YOU

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