

# WELCOME Bem Vindos!

Brought to you by  **OSI**soft.

# Today's Agenda

Morning

Keynotes



Martin  
Otterson



Claudio  
Muller

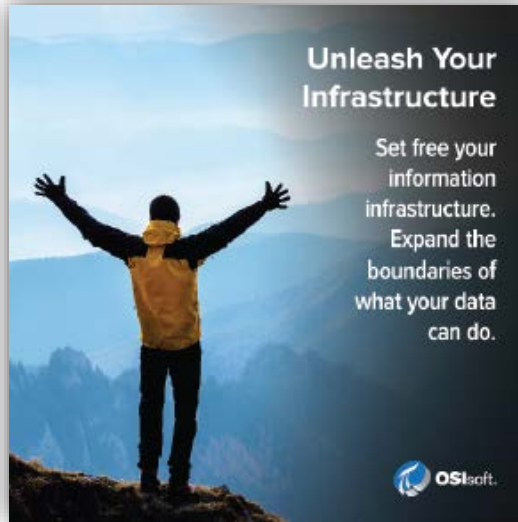
Afternoon

Breakout Sessions

Evening

Offsite Dinner

# Our Seminar Focus and Themes



**Decision Ready In Real-time**

# Decision Ready In Real-time



Creating a more **sustainable** enterprise



Increasing **production** (Asset availability / downtime)



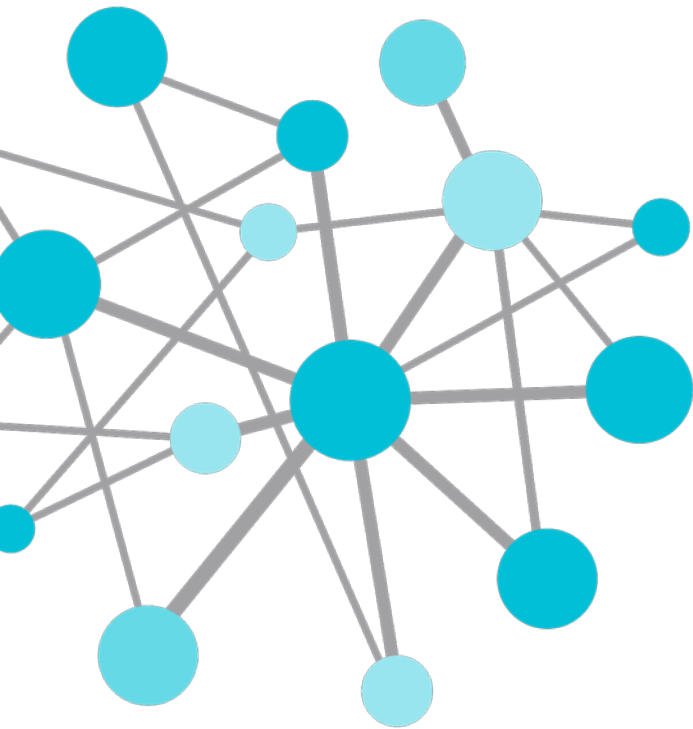
Improving **accessibility** to information



Reduce capital **costs**



Minimize **maintenance** cost



# WELCOME

Adam Taqui  
Vice President for Latin America Business

Brought to you by  **OSIsoft.**

# Participants

- 180+ Companies
- 440+ Customers and Potential Customers
- 170+ Partners and Potential Partners
- 9 Sponsors



Thank you!

# Sponsors



# Sponsors

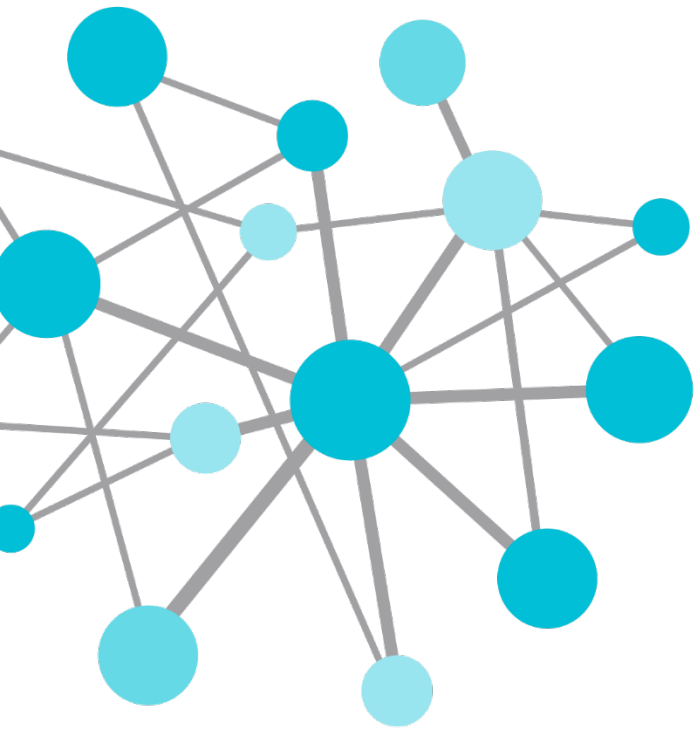




# OSIsoft Employees

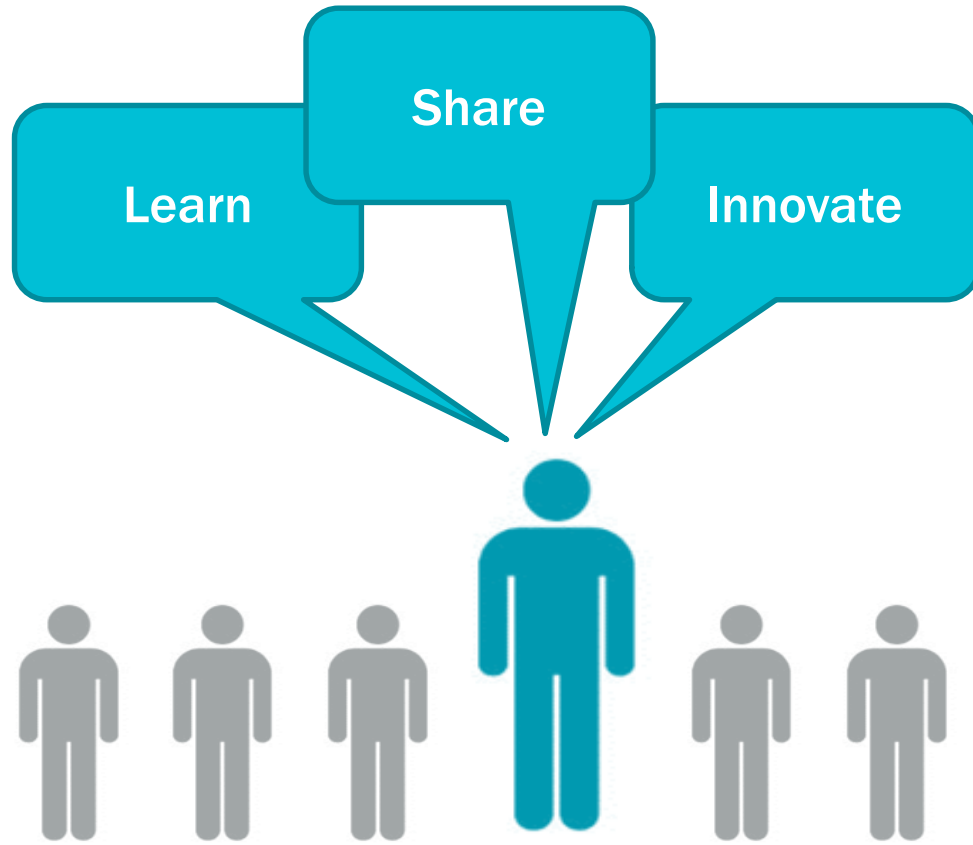
- 40+ employees here to assist you





# The Journey To Operational Intelligence

Presented by **Martin Otterson, Senior Vice President of Sales,  
Marketing and Industry**



This is **your**  
opportunity!

# Agenda



Journey To  
Operational  
Intelligence



Megatrends  
Influencing  
Operations



Innovating for the  
Art of the Possible

# Today's Data Challenges

Infrastructure



Data



Data



Data

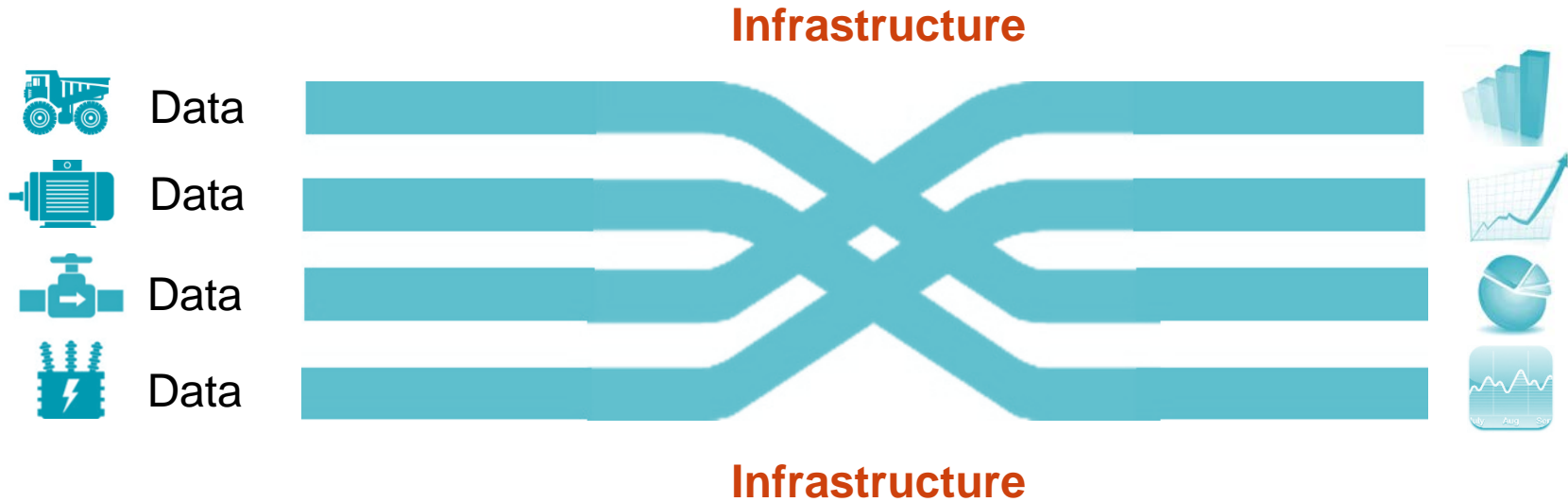


Data



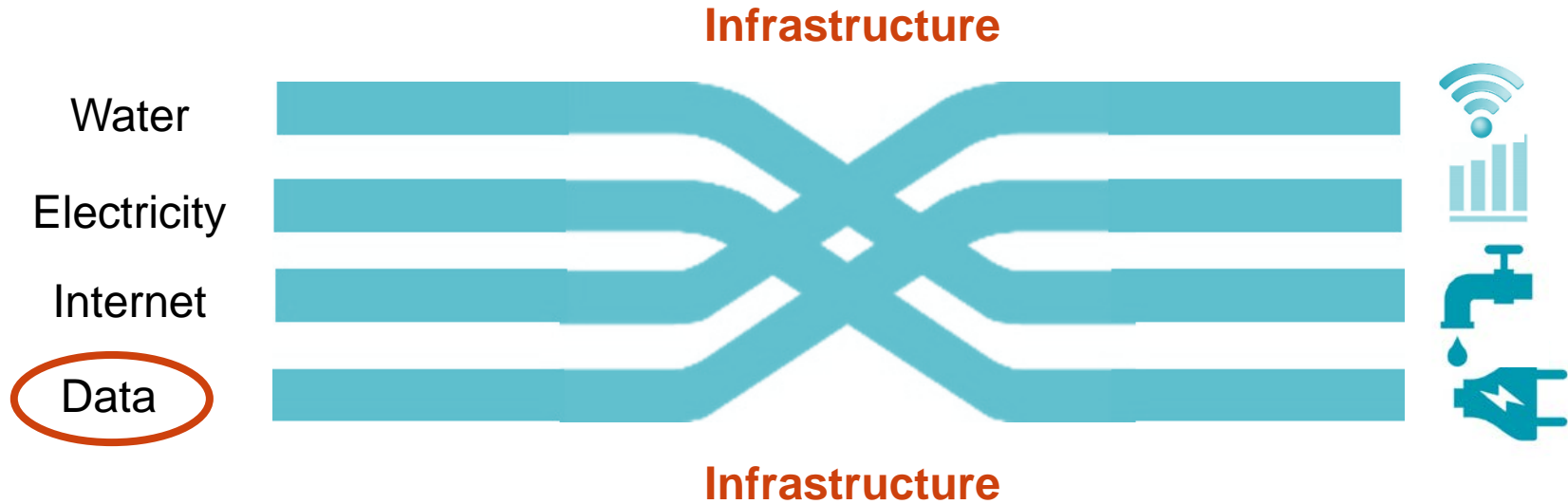
Infrastructure

# 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



# 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





# Operational Intelligence



[Create account](#) [Log in](#)

[Article](#) [Talk](#)

[Read](#)

[Edit](#)

[View history](#)

## Operational intelligence

From Wikipedia, the free encyclopedia

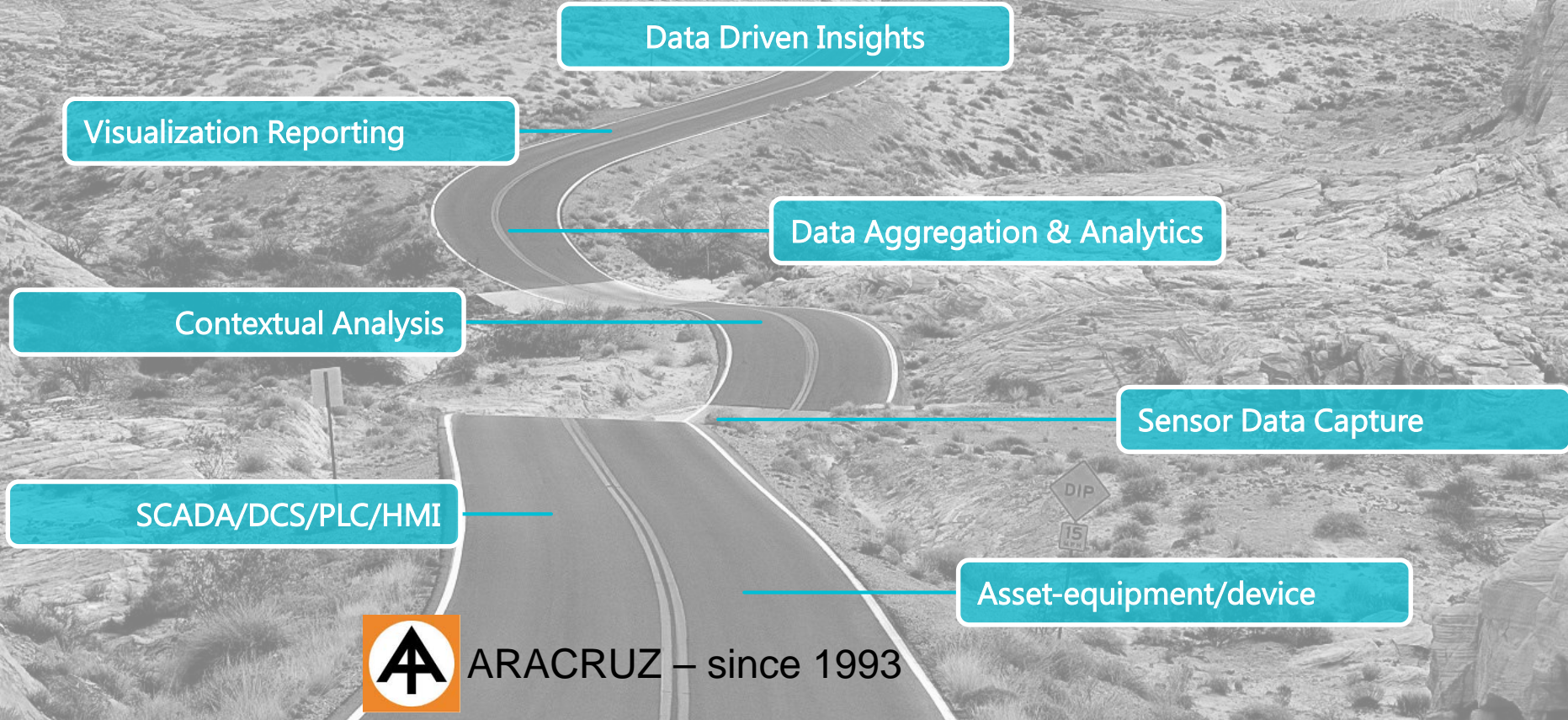
**Operational intelligence (OI)** is a category of real-time dynamic, business analytics that delivers visibility and insight into data, streaming events and business operations. Operational Intelligence solutions run queries against streaming data feeds and event data to deliver real-time analytic results 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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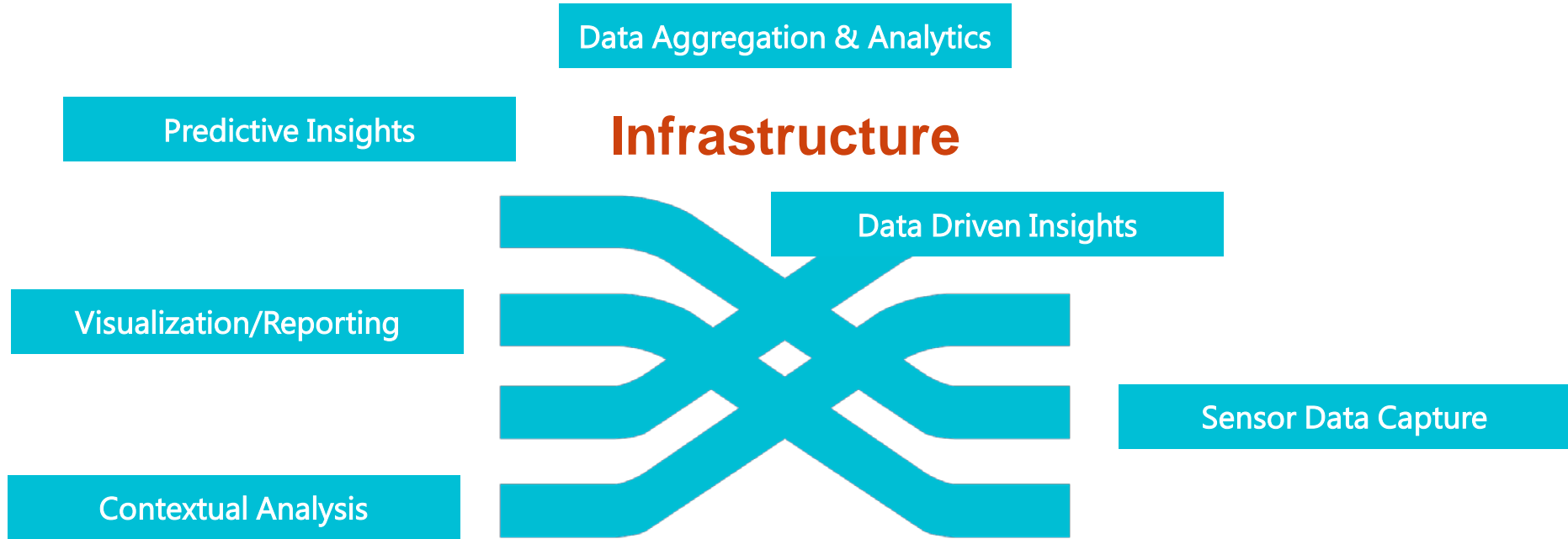
Tools

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# Journey to Operational Intelligence



# Journey to Operational Intelligence

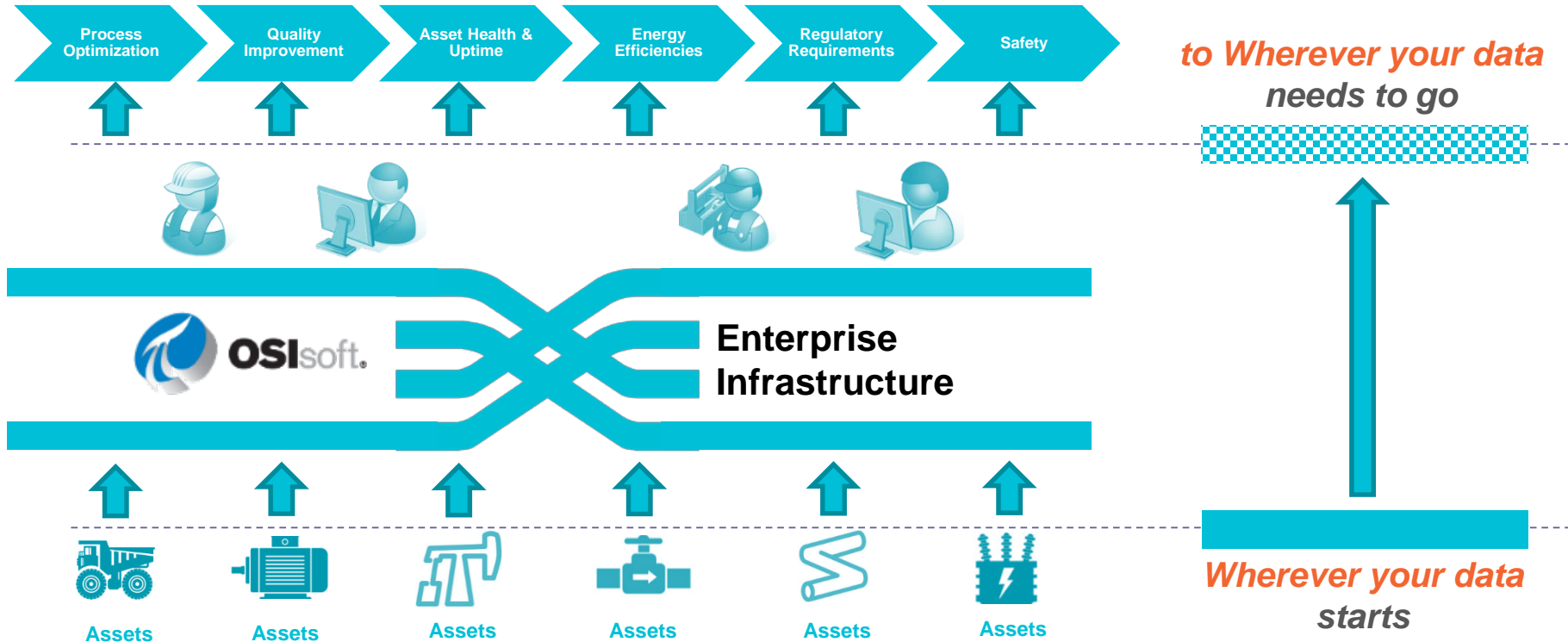


**in-fra-struc-ture** [in-fruh-struhk-cher]

“It can be generally defined as the set of **interconnected structural** elements that provide **framework supporting** an entire structure of development<sup>1</sup>”

SCADA/DCS/PLC/HMI

# An Enterprise Infrastructure



# Partner Ecosystem for Infrastructure Excellence



## Infrastructure

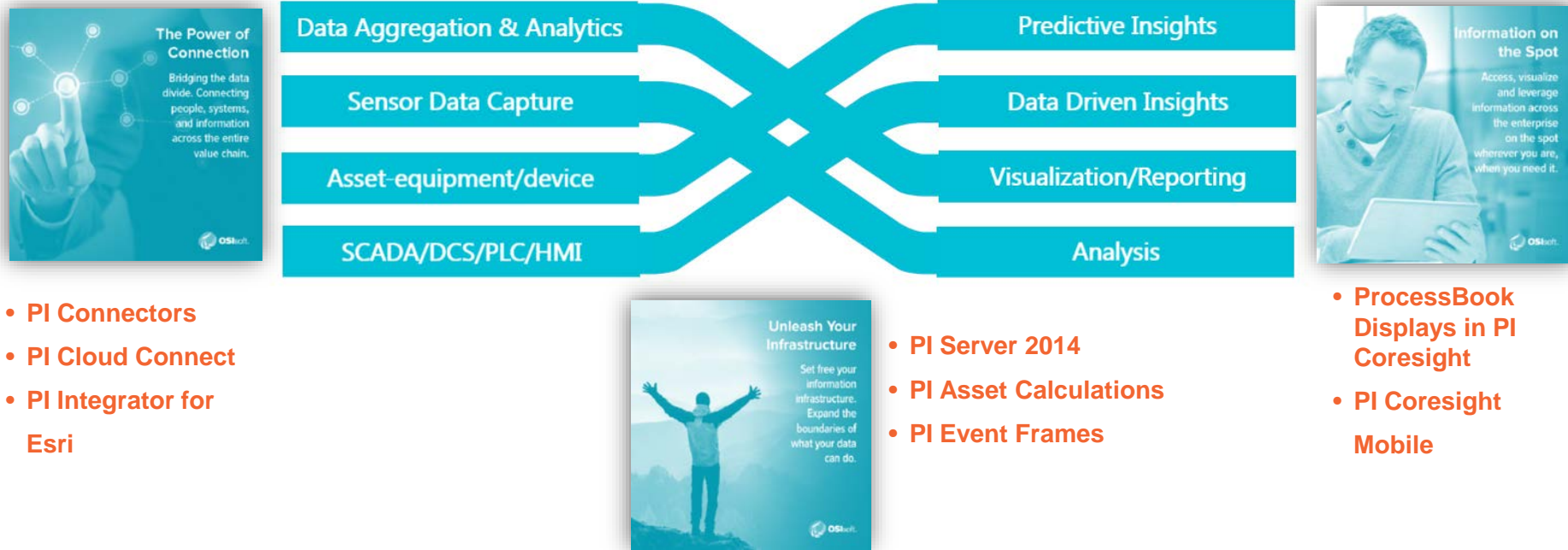


**185+  
Partners**

- Integrations
- Services
- Embedded



# OSIsoft 2014 Investment In Your Infrastructure



# Agenda



Journey To  
Operational  
Intelligence



Megatrends  
Influencing  
Operations



Innovating for the  
Art of the Possible

# Global Megatrends: Why?



## IOT

- Predictive behaviors
- Operational efficiency
- Asset management



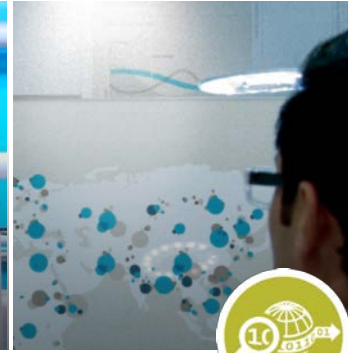
## Cloud

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



## Mobility

- Connecting people
- Real time context
- In situ decisions

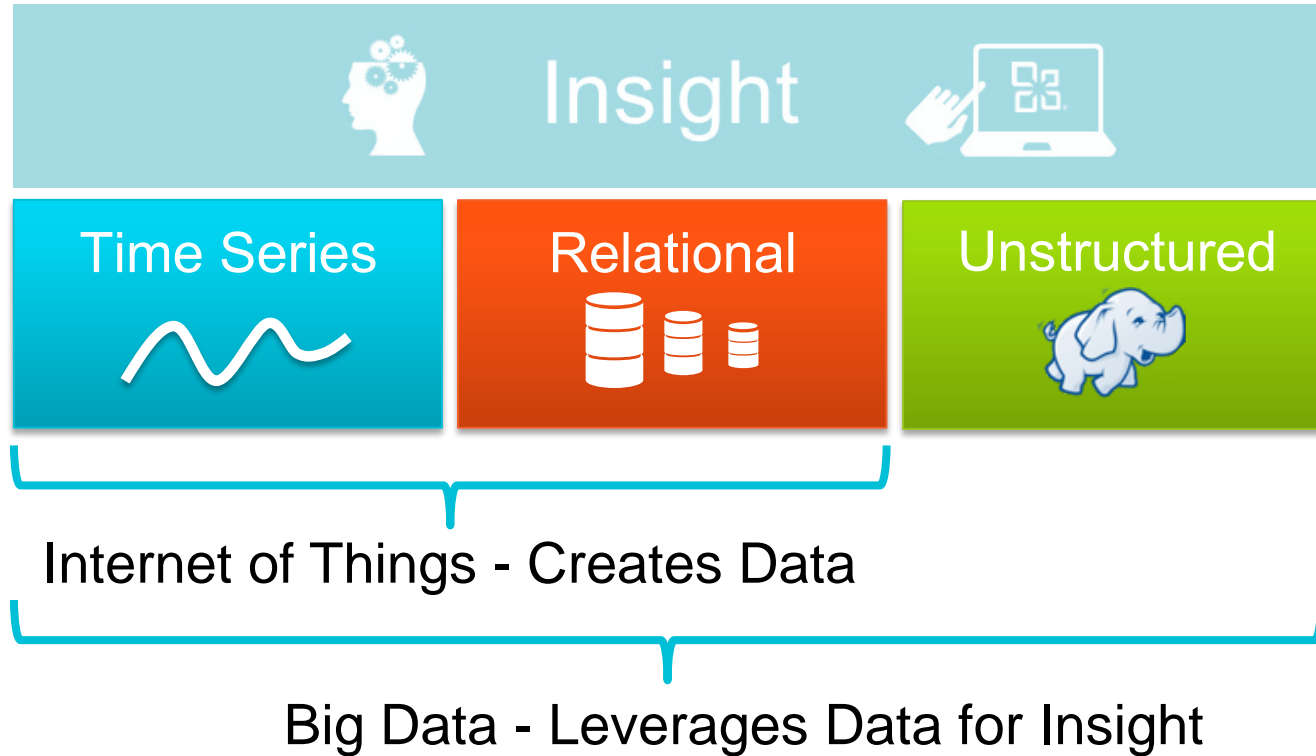


## Big Data

- 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**

# 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

# Example: Fault Detection and Diagnostic (Predictive Maintenance)

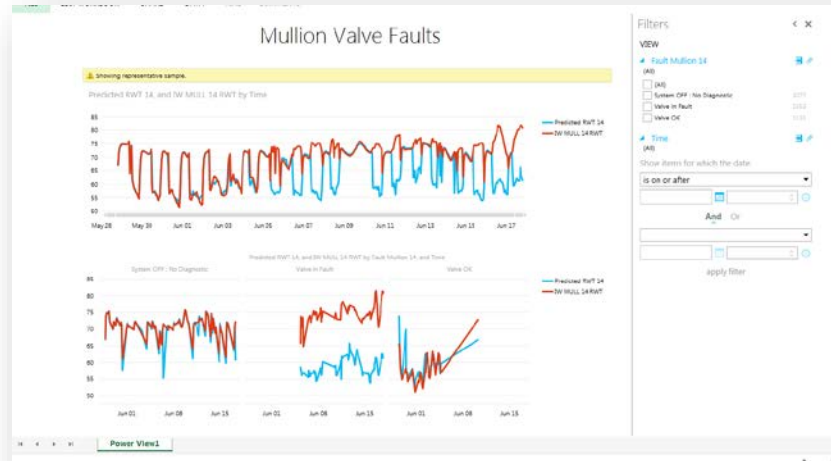
1/Collect Data  
Real-Time

2/ Train Model  
against baseline

3/ Predict (project)  
baseline behavior

4/ Measure variation  
between prediction and  
measured behavior

5/ Trigger notification, corrective  
actions

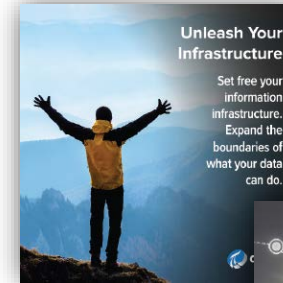


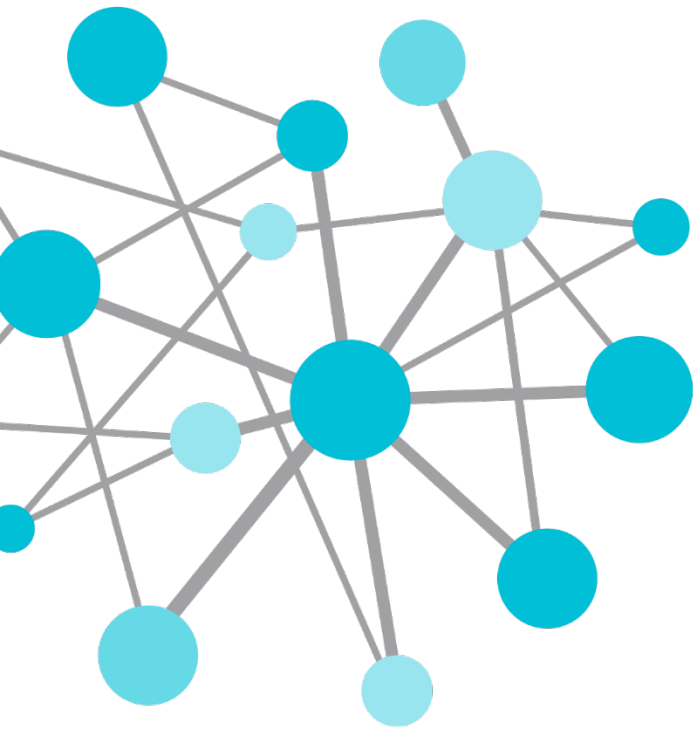
**Microsoft Power BI**

# 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”



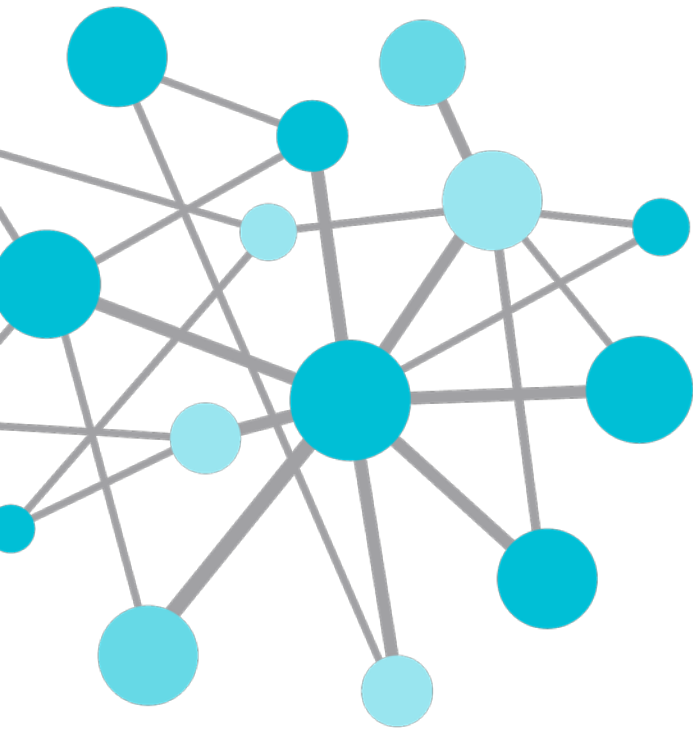


# Questions

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



State your  
**name & company**



THANK  
YOU

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