

The Journey To **Real-time Operational Intelligence**

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Agenda



Journey To
Operational
Intelligence



Megatrends
Influencing
Operations



Innovating for the
Art of the Possible

In Face of the Data Deluge

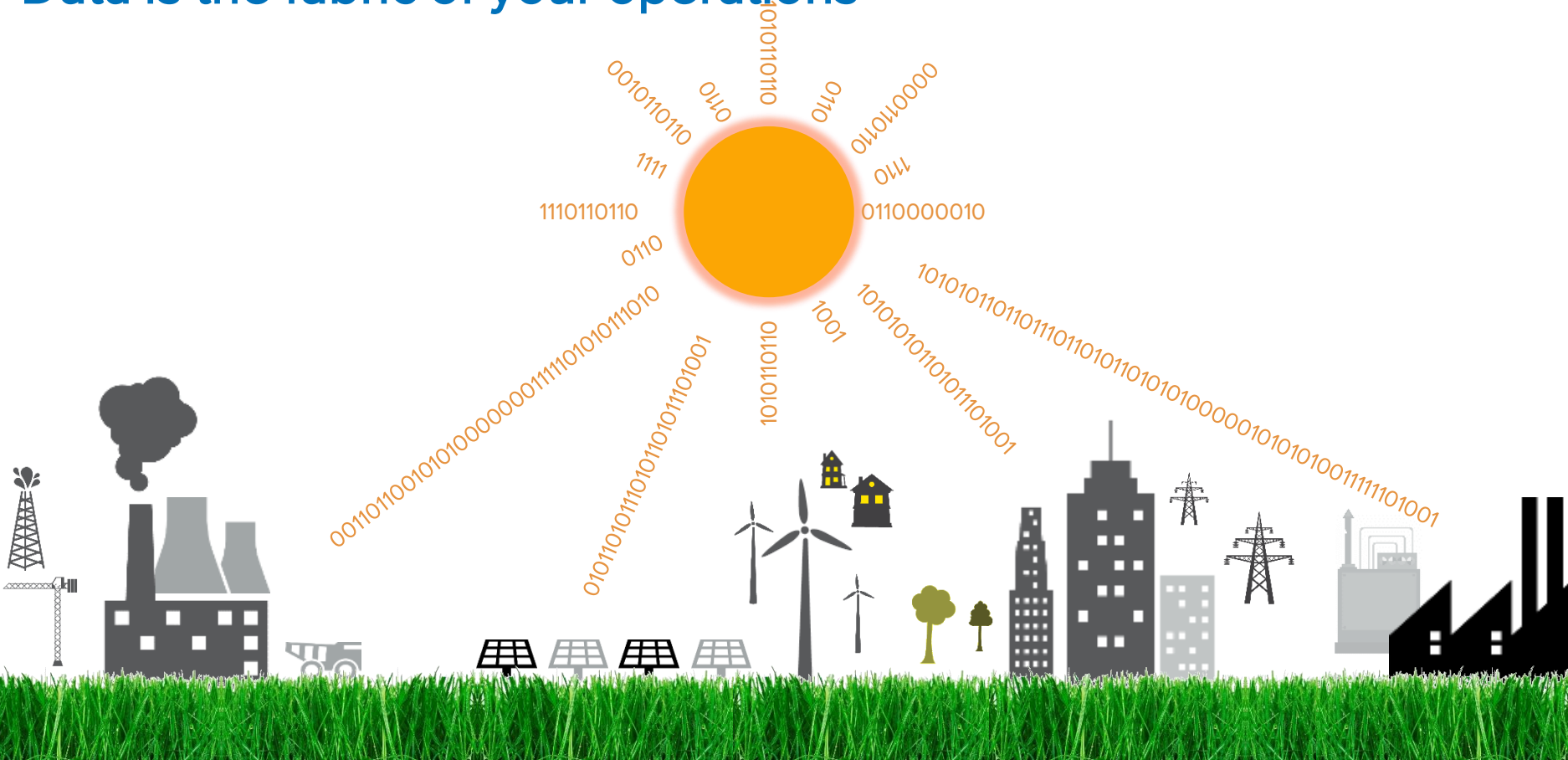
Hundreds of assets

Thousands of events

More people that need to know

How can you deliver
operational excellence?

Data is the fabric of your operations



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
- Increasing need for enterprise **Operational Intelligence**



Real-time Operational Intelligence



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Operational intelligence

From Wikipedia, the free encyclopedia

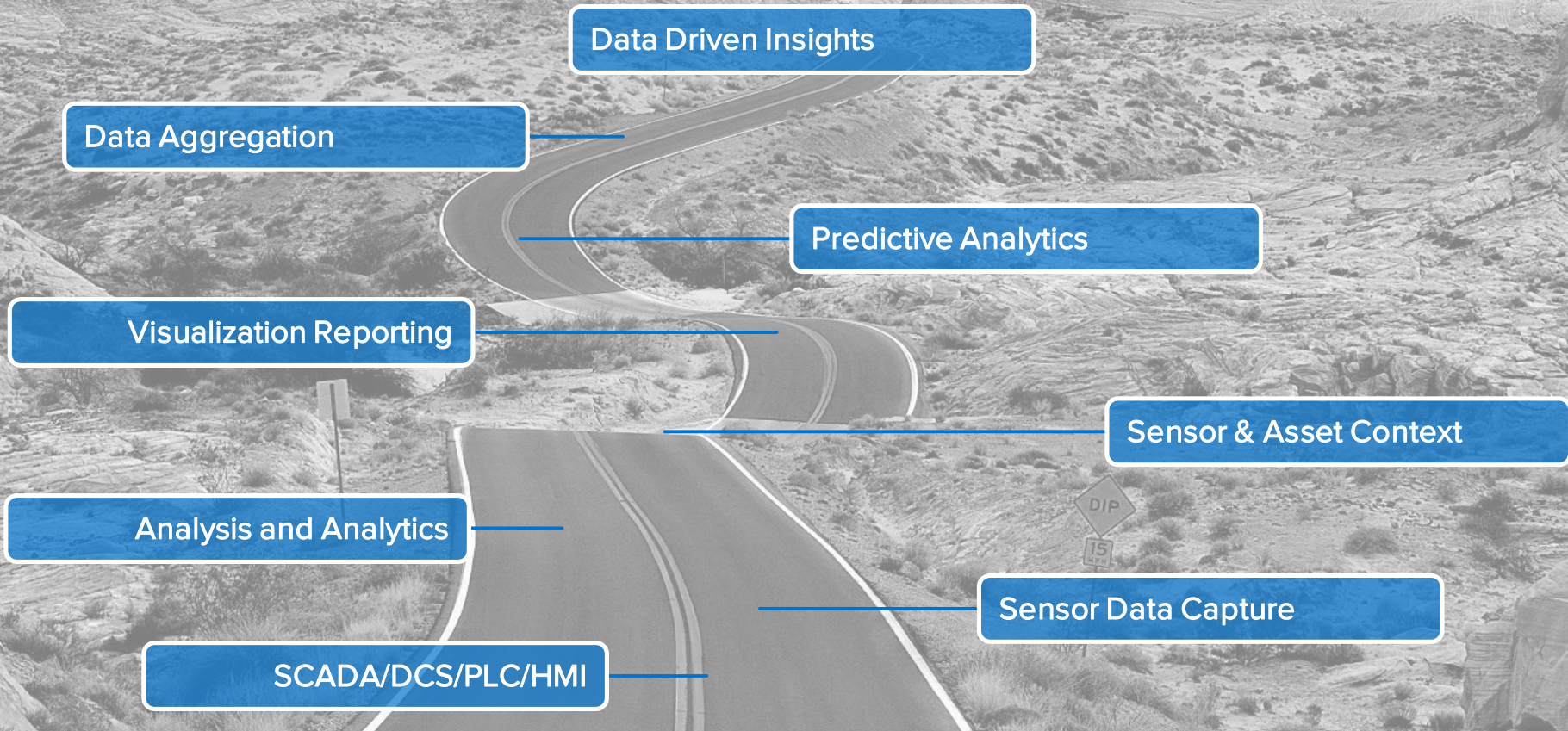
Operational intelligence (OI) is a category of real-time dynamic, business analytics that delivers visibility and insight into data, streaming events and business operations. Operational Intelligence solutions run queries against streaming data feeds and event data to deliver real-time analytic results as operational instructions.^[1] 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 Real-Time Operational Intelligence

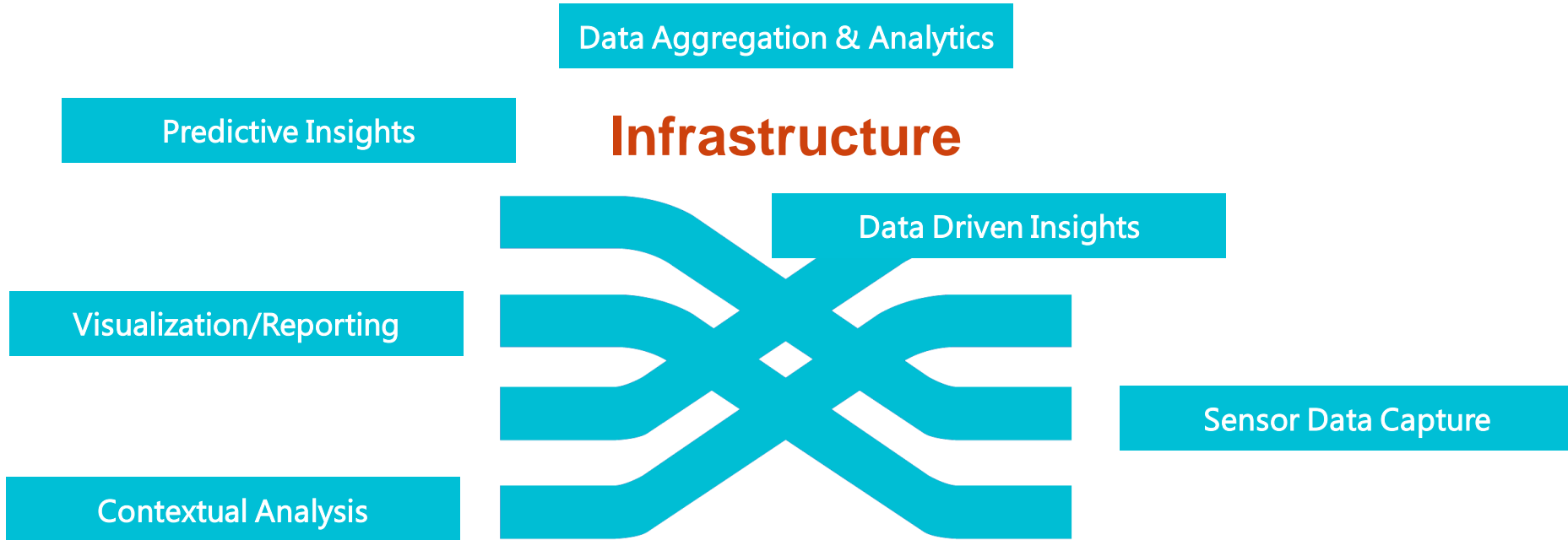


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Journey to Real-time Operational Intelligence



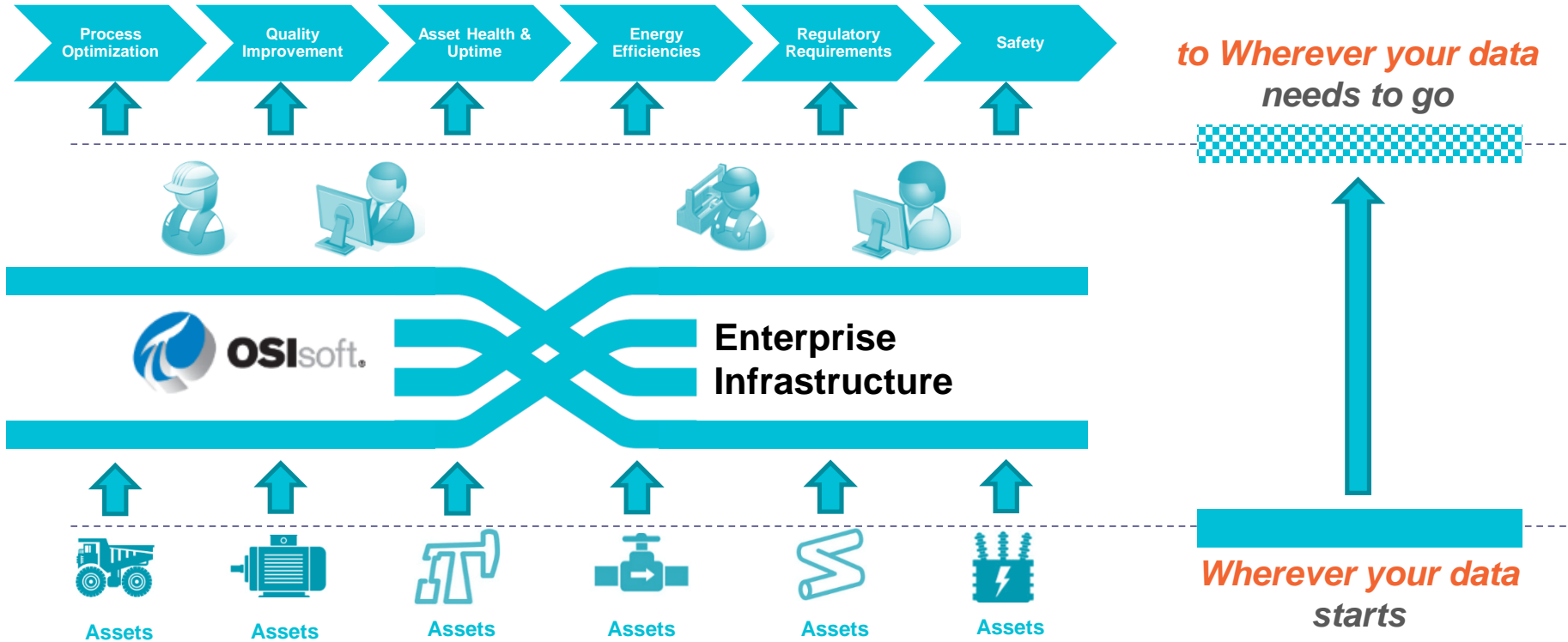
in-fra-structure [in-fruh-struhk-cher]

“It can be generally defined as the set of **interconnected structural** elements that provide **framework supporting** an entire structure of development¹”

SCADA/DCS/PLC/HMI

Asset-equipment/device

An Infrastructure for the Enterprise



Scaling an Infrastructure to the Enterprise



Multiple Sites, Multiple Systems, Multiple Users, Multiple Businesses, Simplified Governance

Context: Critical for scale and valuable insights

Operational Context

Time-series data

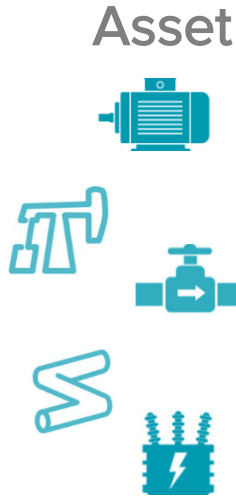
- Temperature
- Pressure
- Flow

Asset details

- Name
- Model
- Manufacturer

Process

- Well drilling
- Site



High Value Insights Require Data Context

Which asset performs best?

Which conditions are optimal?

What are the indicators of failure?

What leads to unsafe conditions?

What causes quality issues?

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Global Megatrends



IOT

- Predictive behaviors
- Operational efficiency
- Asset management



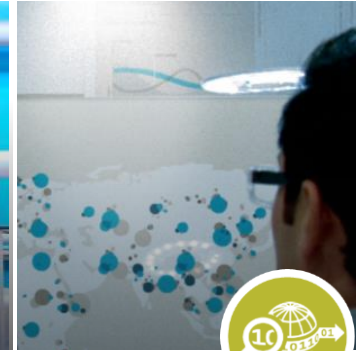
Cloud

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



Mobility

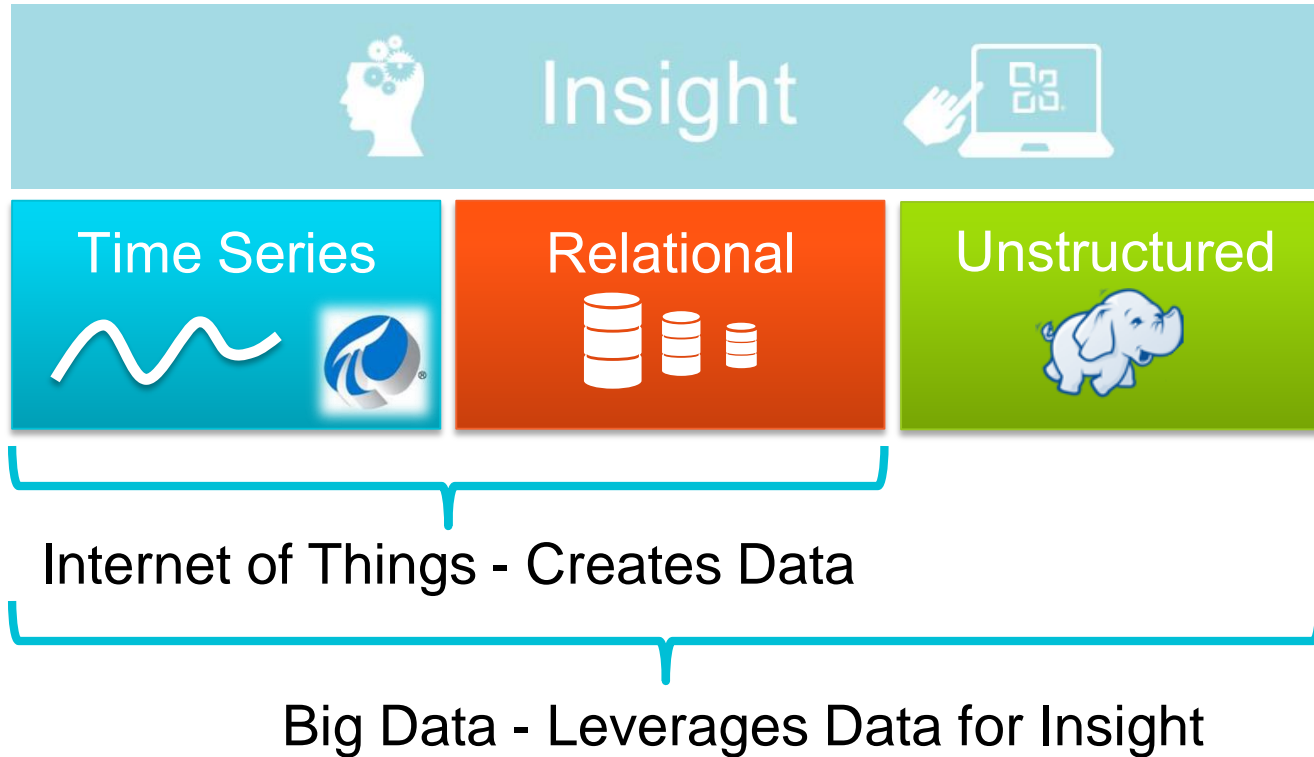
- Connecting people
- Real time context
- In situ decisions



Big Data

- Combined business and operations insights
- Wide scale analytics

The PI Systems essential role in Big Data Initiatives



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OSIsoft PI System 2015 Developments



**Predictive Analytics /
Simulations**

**Integration with Big
Data Analytics**

**Integration with
Business Systems**

OSIsoft 2015 Investment In Your Infrastructure



Data Aggregation & Analytics

Sensor Data Capture

Asset-equipment/device

SCADA/DCS/PLC/HMI

Predictive Insights

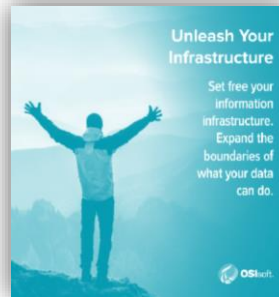
Data Driven Insights

Visualization/Reporting

Analysis



- PI Connectors
- PI Cloud Connect
- SAP Hanna Integrator
- PI Integrator for ESRI
- PI in the Cloud



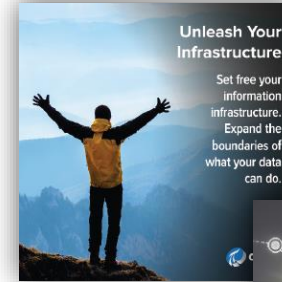
- PI Server 2015
- PI Asset Calculations
- PI Event Frames
- Future Data

- ProcessBook Displays in PI Coresight
- PI Coresight Mobile

Summary: Real-time 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”



Thank You

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