

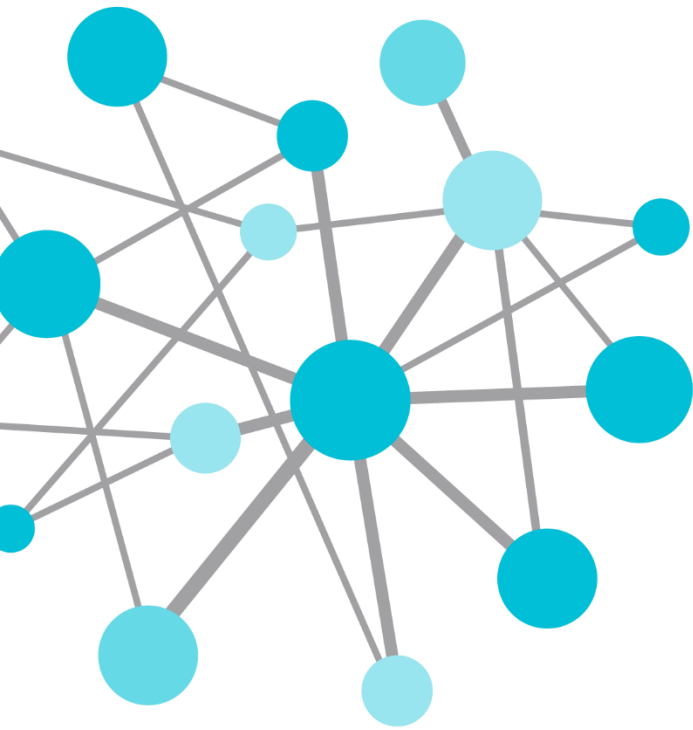


Topics on the Road(map)

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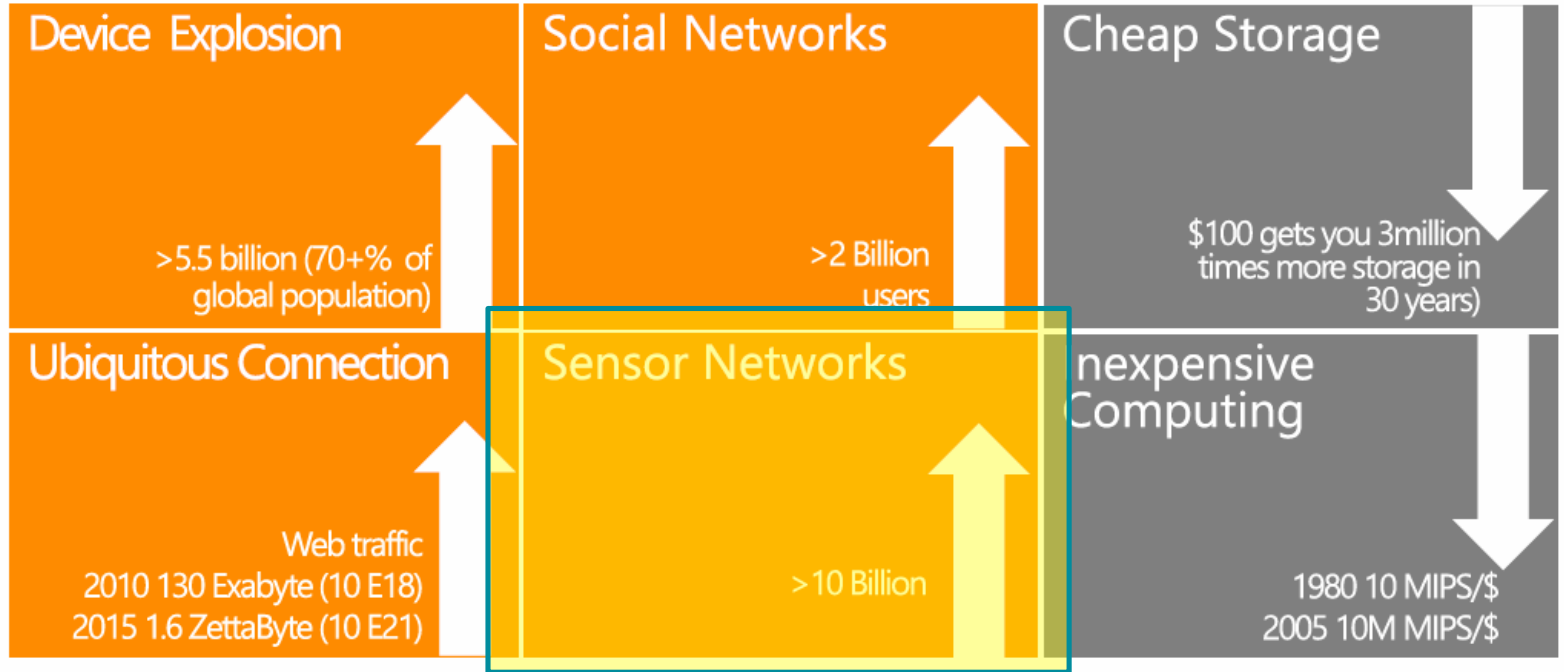
Topics

- PI and Big Data
- Connecting Space and Time (already covered)
- Interfaces vs. Connectors
- PI CoreSight 2014 (already covered)
- Future Data in the PI System
- PI Cloud Connect



Unleash the Power of Big Data

Key Trends





Insight



Time Series



Relational



Unstructured



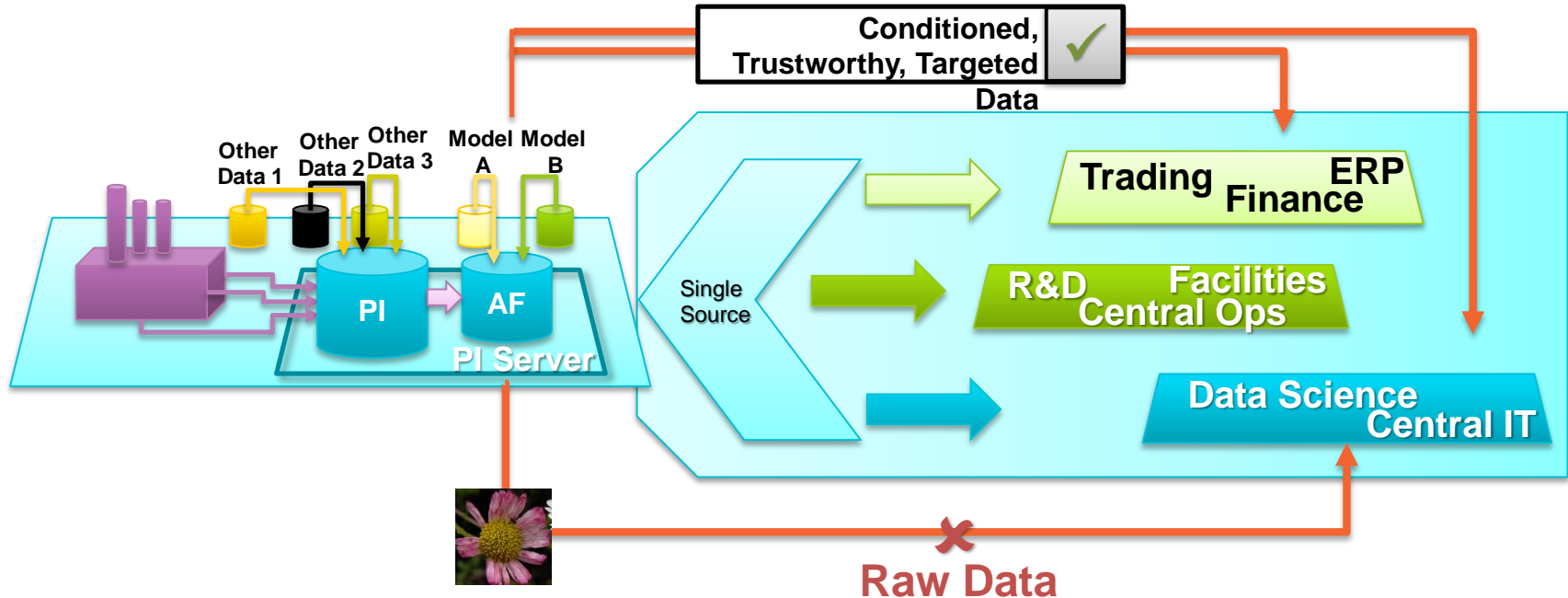
Real-time Data isn't perfect



The Truth about Real-time Data

- Naturally incomplete
- Doesn't look like SQL (unevenly spaced, no transactions)
- Subject to errors in measurement
- Varies in fidelity

Decision-Ready Data



Big Data and the PI System

From an OSIsoft perspective Big Data is three separate categories of things:

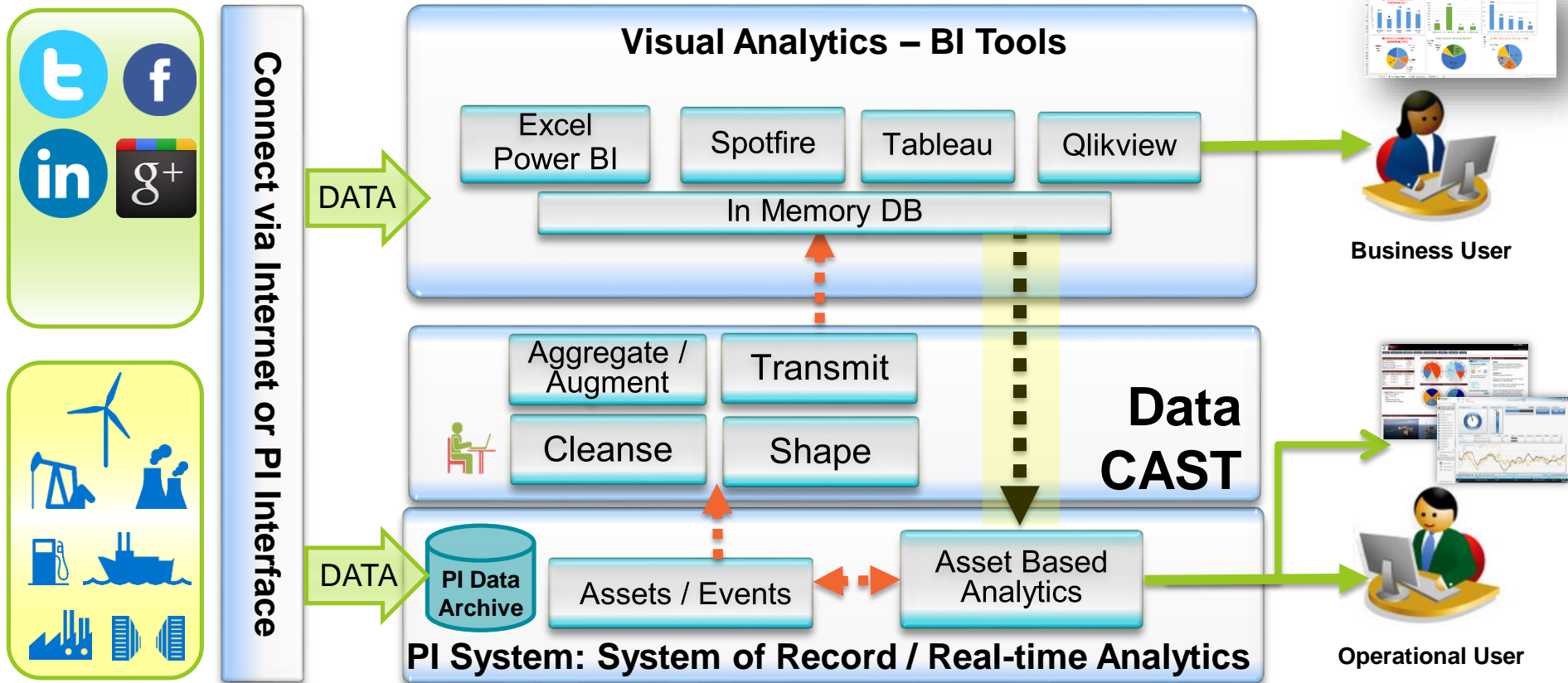


Bring calculations to the data

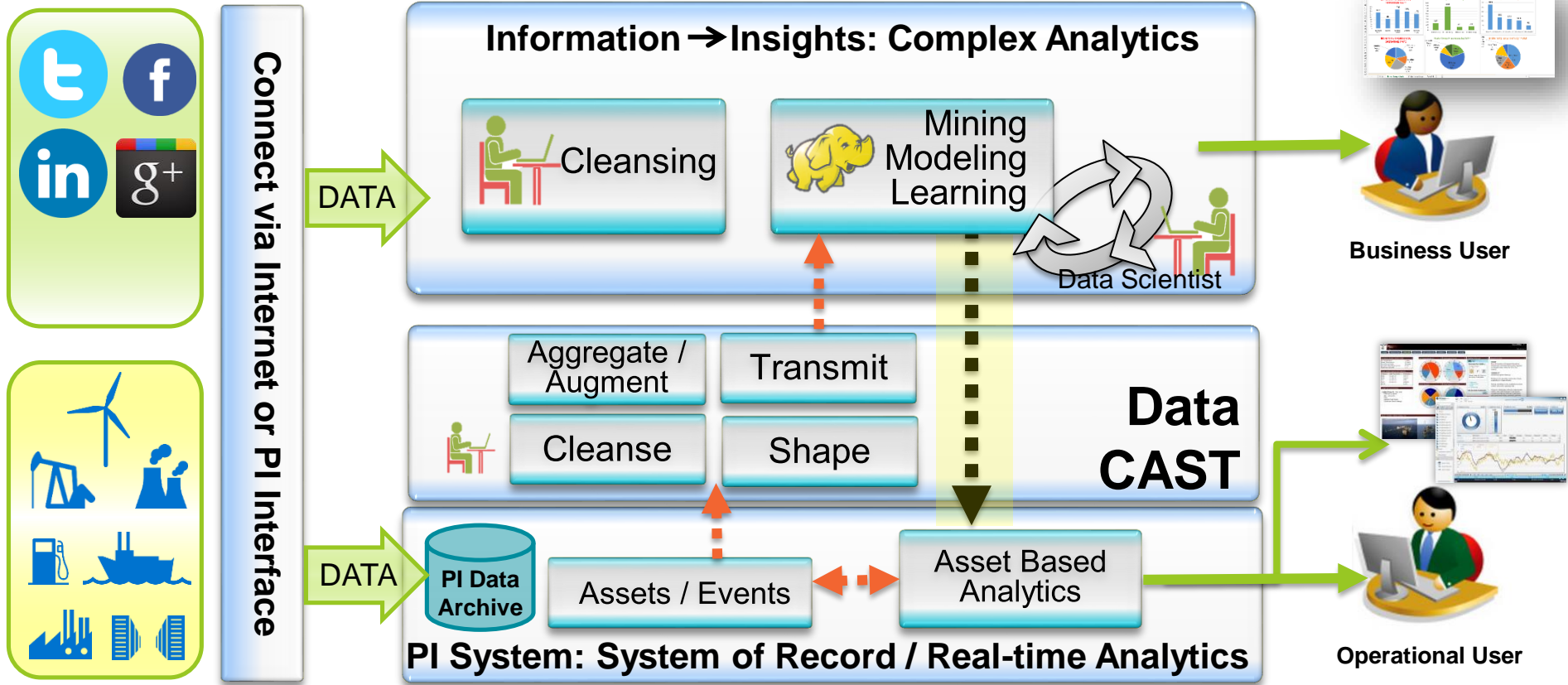
Systems of engagement vs systems of record

Identify the conversation

PI Infrastructure for Visual Analytics



PI Infrastructure for Statistical Analytics

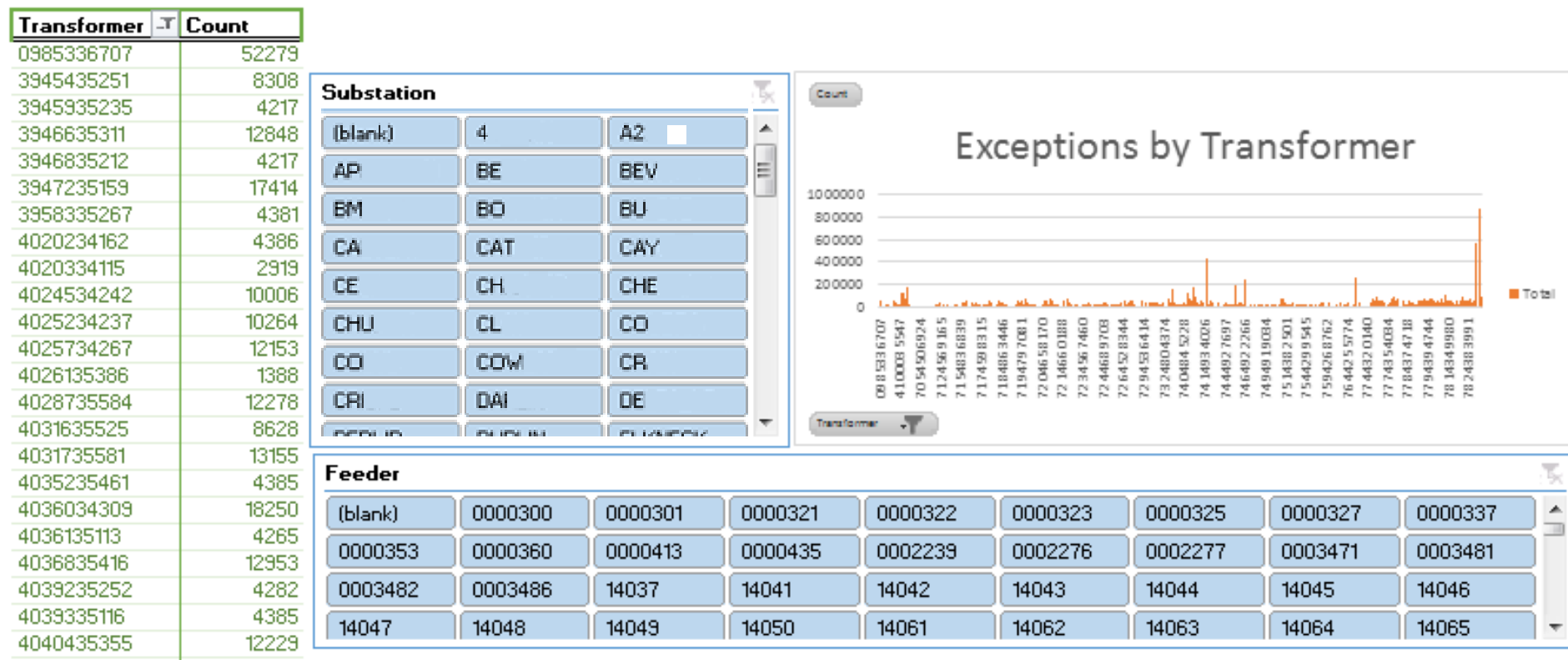


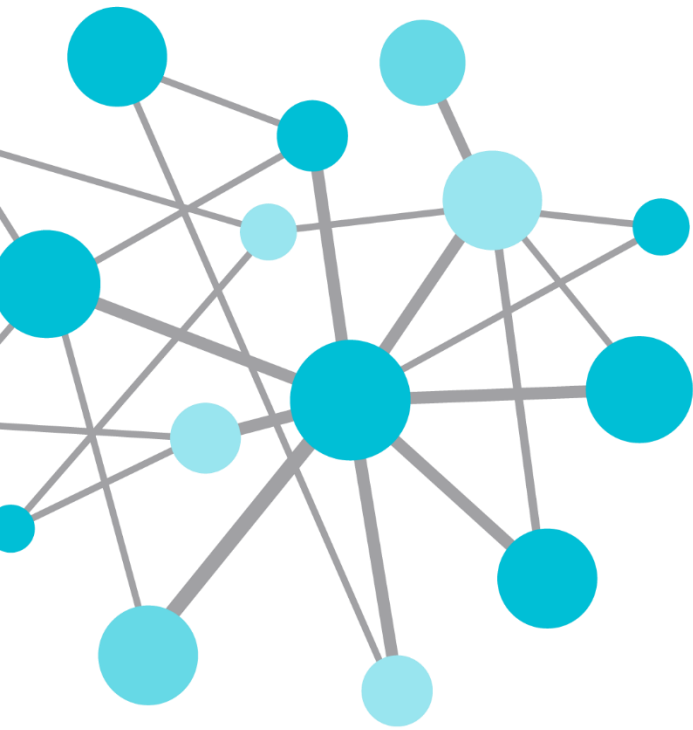
CAST Features

- Fully leveraging PI AF/EF on any PI AF Model, any style
- Curated, Trusted Data Publication
- Published Data is complete and relevant
- Support Small and Large Publications
- Evergreen Publications
- Enable Collaboration
- Feedback into the PI System

Cleanse, Augment Shape Transmit = CAST

Direct Visual Analytics

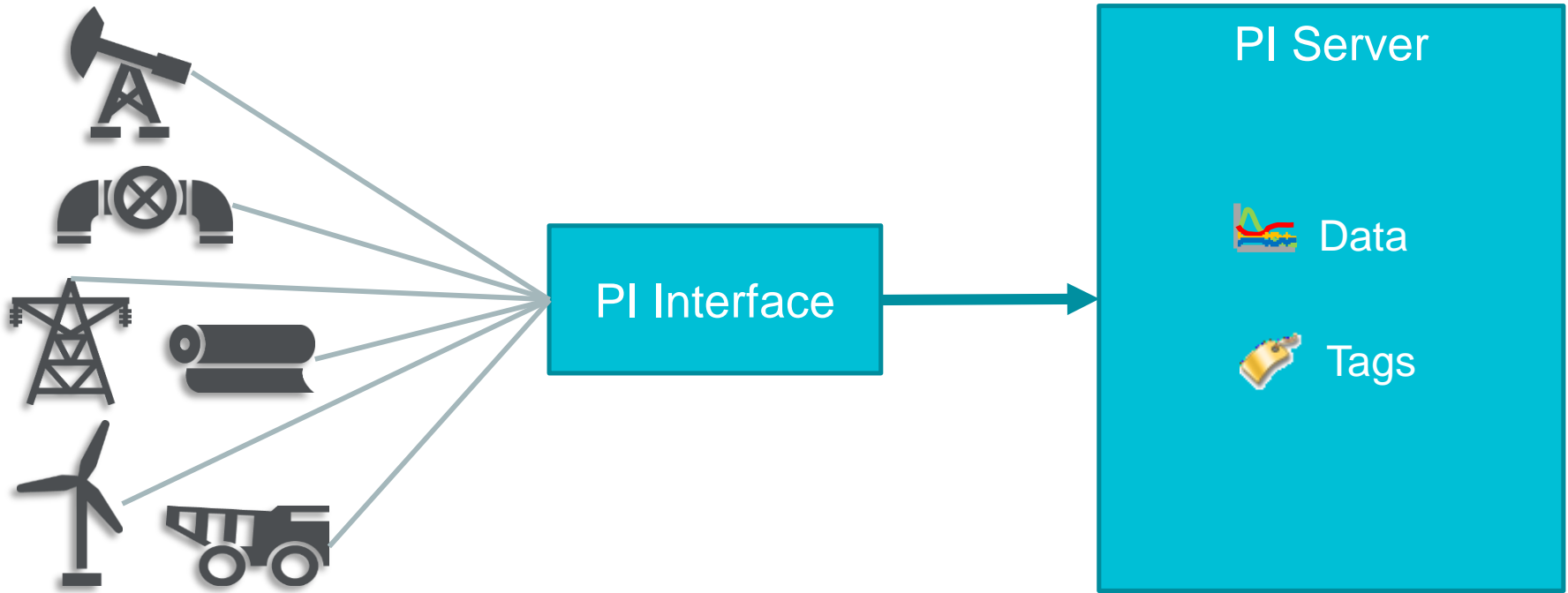




Interfaces vs. Connectors

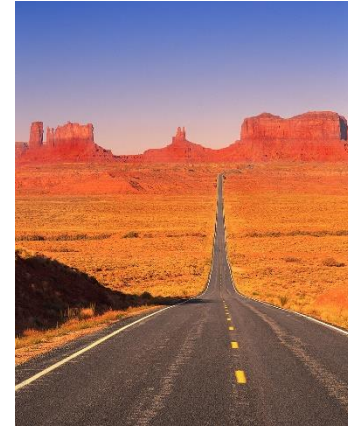
PI Interfaces:

Proven and reliable data collection



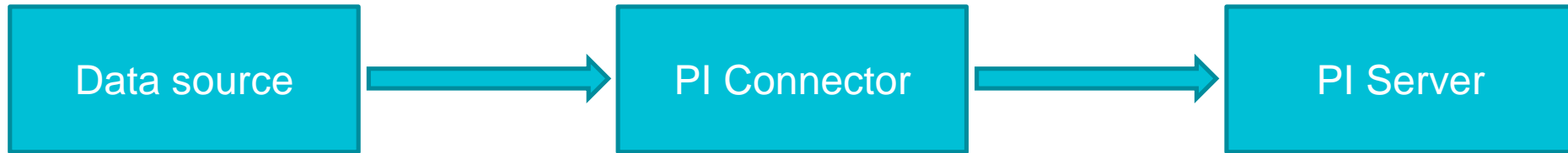
Challenges We Have Heard

- Spend lots of time configuring tags
- Challenging to configure interface
- Time consuming to build an asset model
- Collect high speed data
- Collect data from many new systems



Can I opt out of collecting some of the data?

GOAL – Make it easy for you to collect data



Under development:

1. Filter out asset types you don't want
2. Filter out data you don't want from a specific asset type
3. Preview of what will be created in PI Server



PI Connector for CygNet



- CygNet SCADA system collects data from various assets, such as:
 - Batteries (Oil treatment facilities)
 - Communication Devices
 - Wells
- Real-time data and metadata



PI Connector for EtherNet/IP



- EtherNet/IP standard managed by ODVA
- Industrial Protocol over Ethernet based on CIP

PI Connector

- Class 1 messages
- High rates (<10millisecond)

PI Server



Tags



Data






Assets

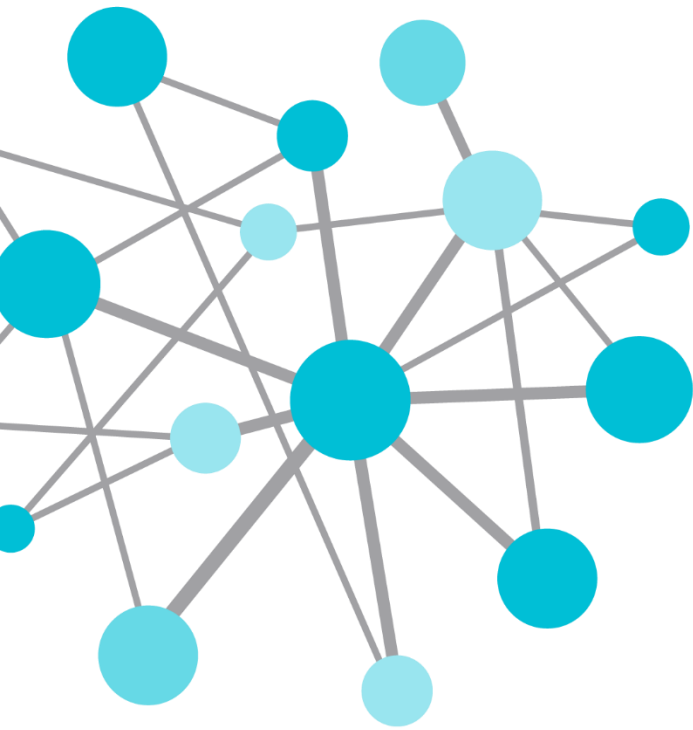


Events

On the road

- PI Connector for CygNet 
- PI Connector for EtherNet/IP 
- PI Connector for Kongsberg 
- PI Connector for DC Systems RTscada
- PI Connector for Wonderware Historian





Future Data in the PI Data Archive

PI Server 2015: Future Data

STORE



ANALYZE



MONITOR

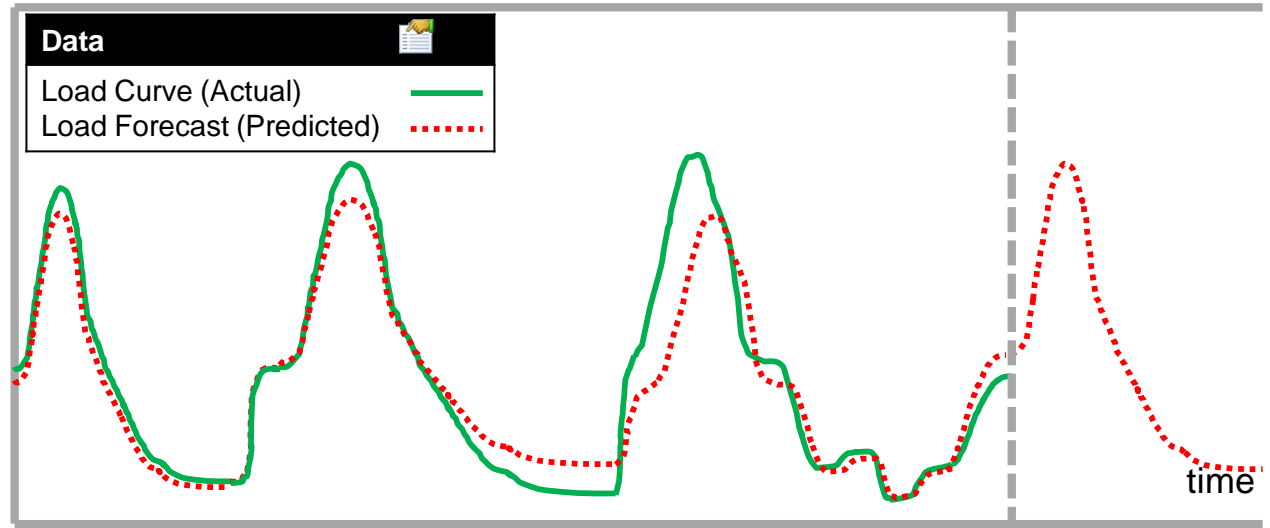


REPORT

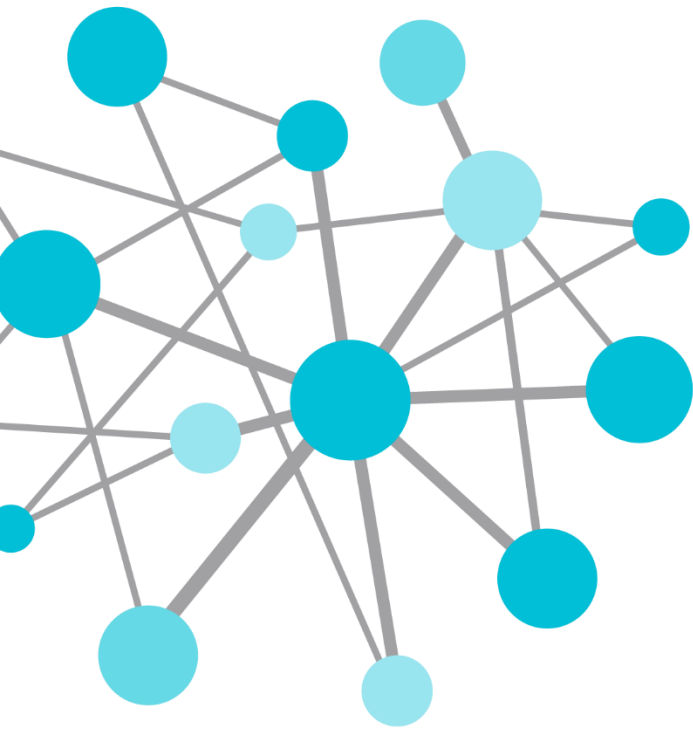


PI Server 2015 lets you manage large amounts
of both historical and future data.

Future Data

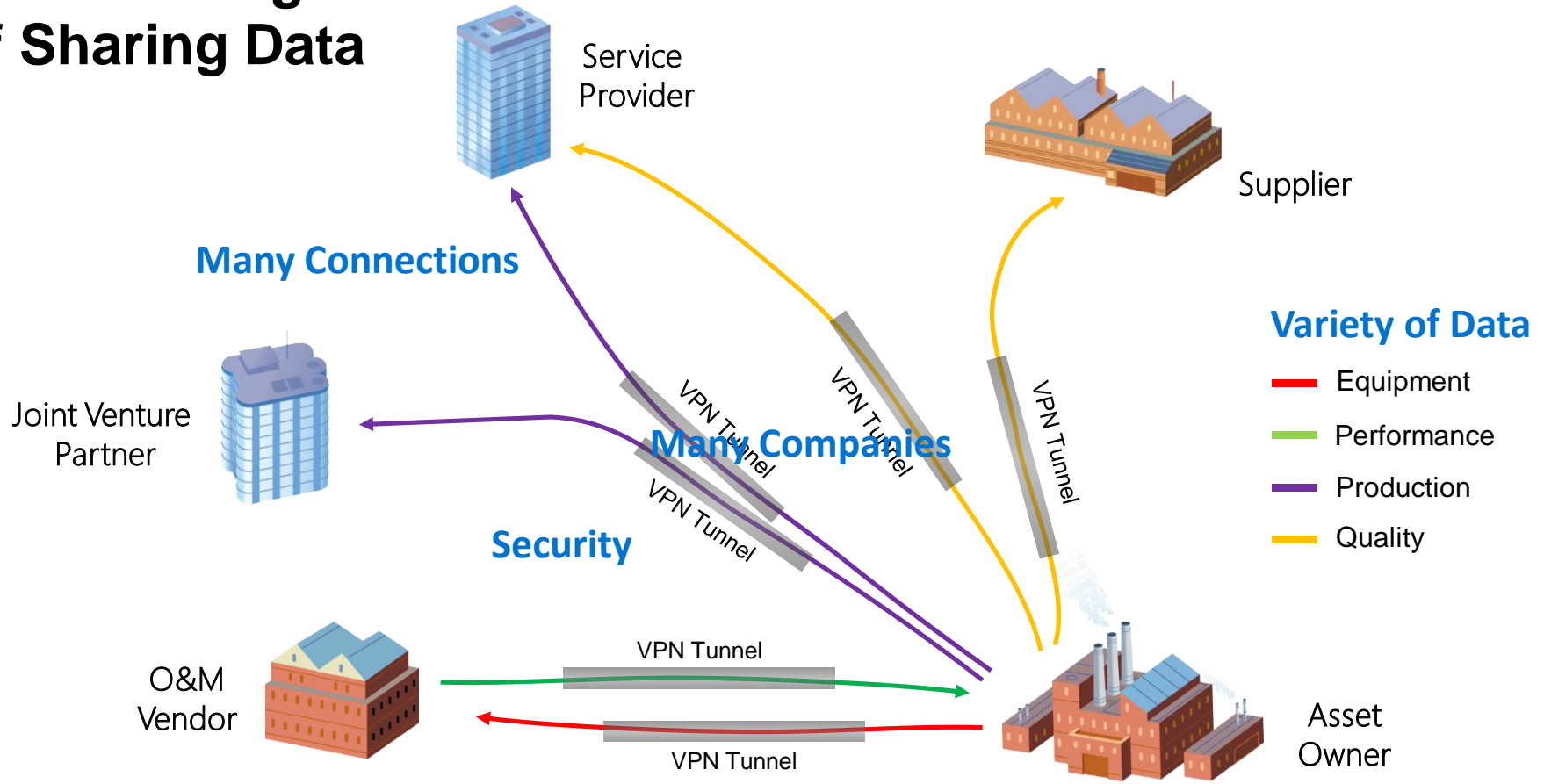


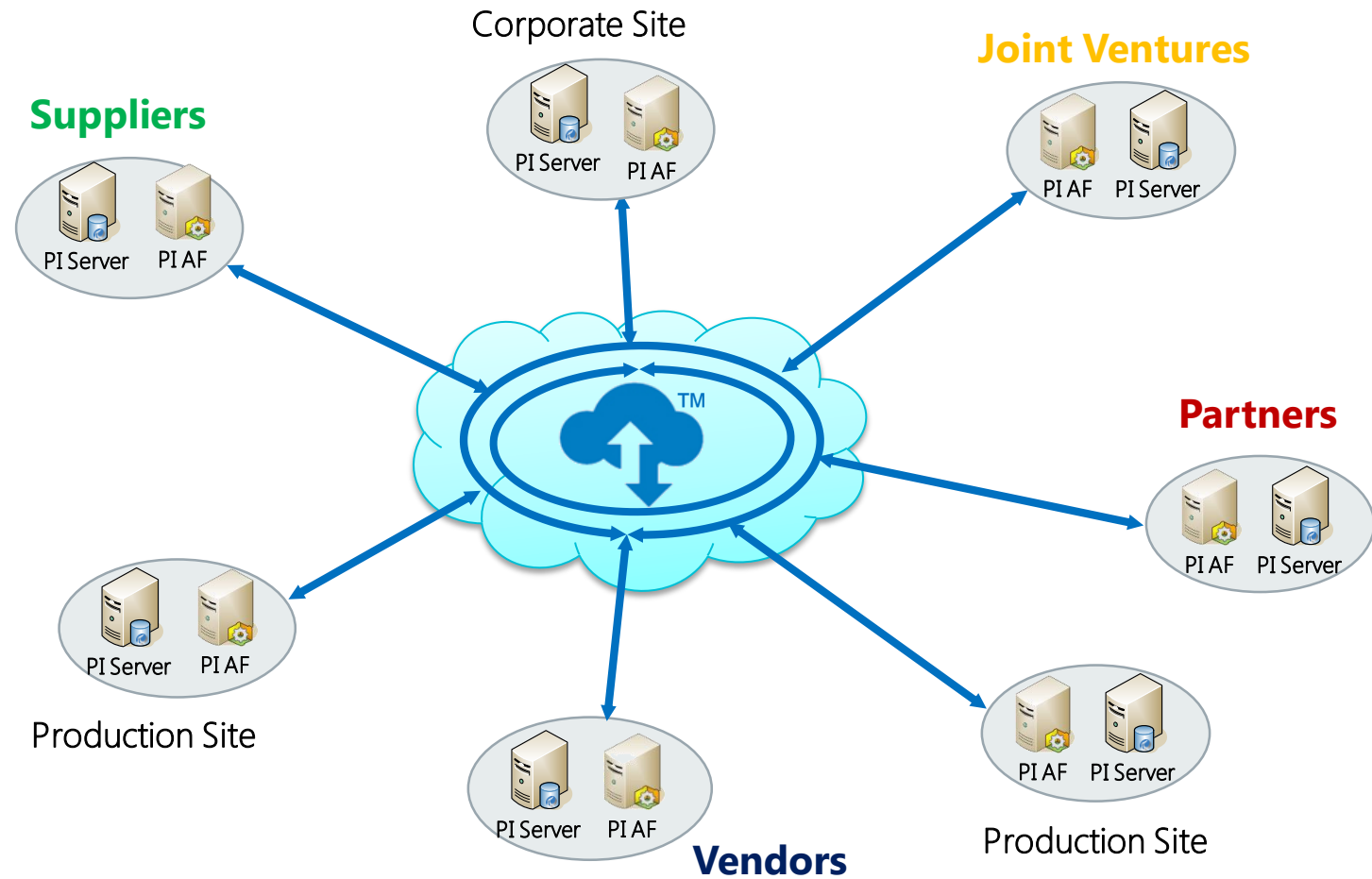
- PI Server 2015
- Visualization enhancements
- Batch Database to Event Frames Migration integrated
- Beta available now!



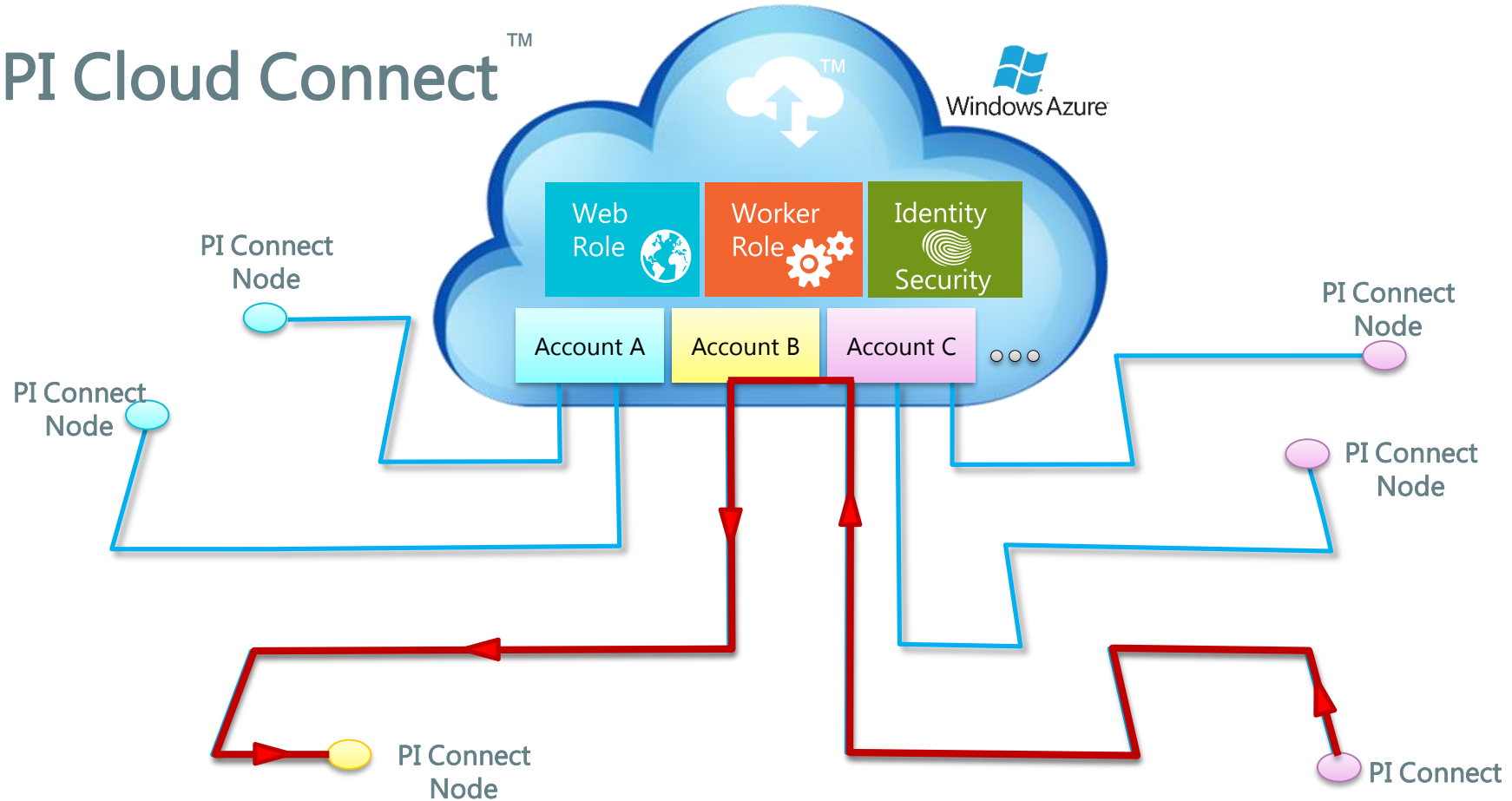
PI Cloud Connect

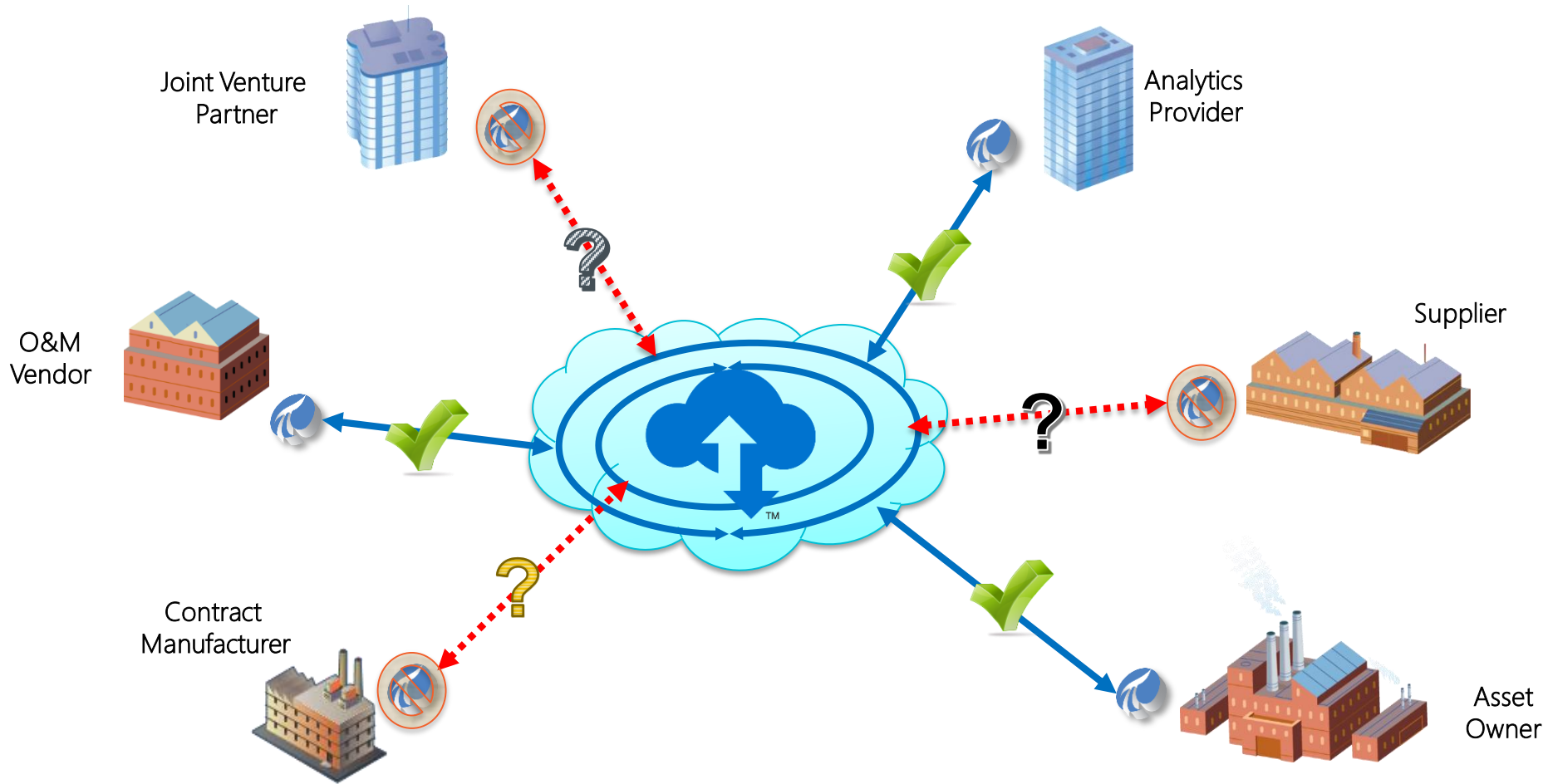
The Challenges of Sharing Data





PI Cloud Connect™





Solution: Connected Services Agreement

Software

- Custom PI System software bundle needed to successfully deliver value services
 - PI Interface(s)
 - PI Server(s)
 - PI Visualization tools

- Pay-as-you-Grow Subscription Terms / Non-Perpetual
- Pricing Metrics Based on Assets Monitored
- Offered to Suppliers who do not Own the Equipment

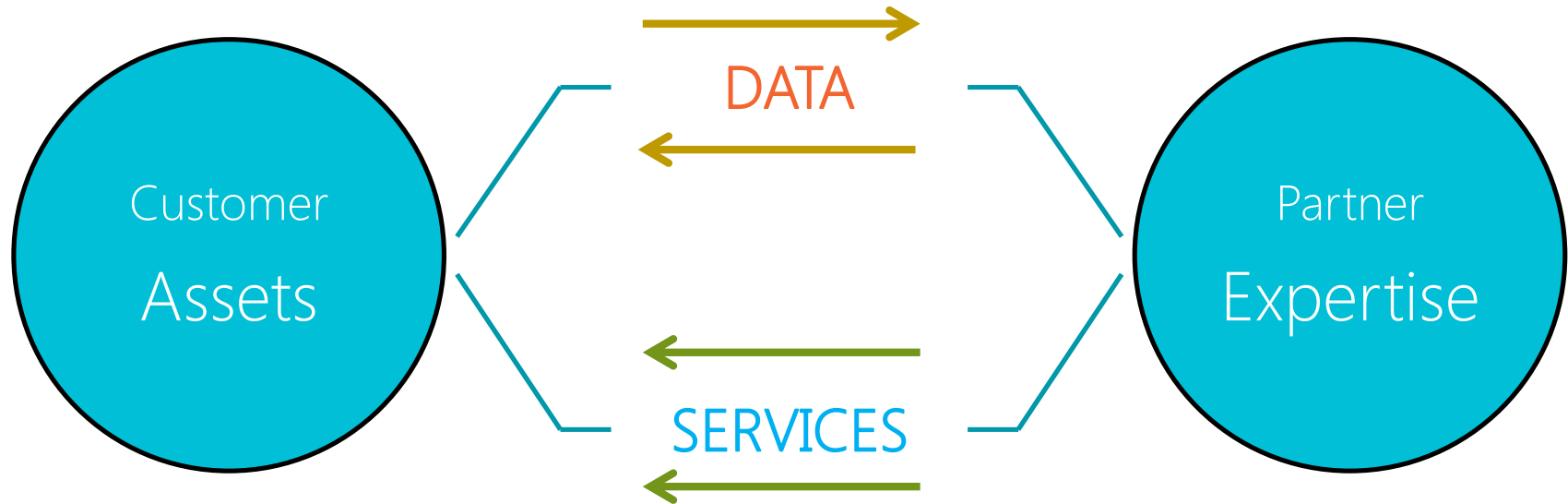
Cloud Services

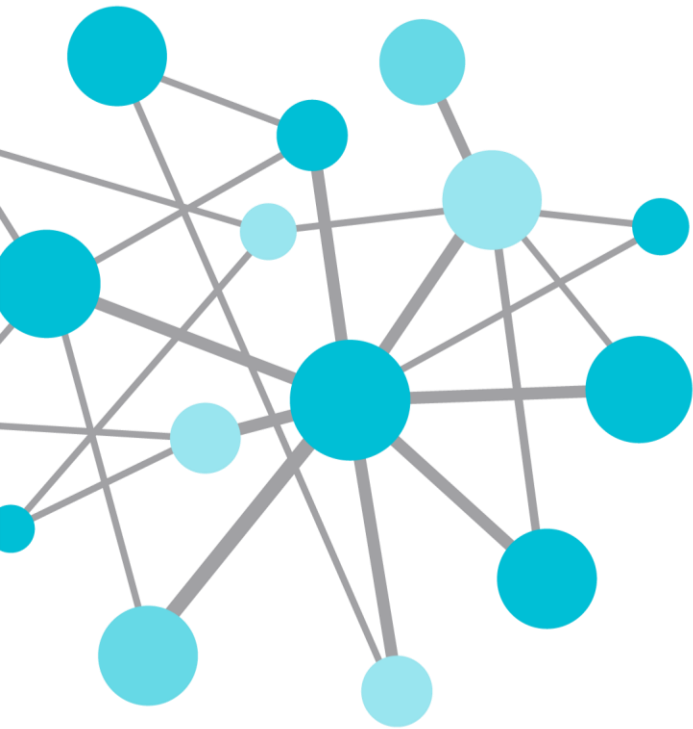
- PI Cloud Connect

Support Services

- SRP
- Start-Up Services Package
- OSIsoft NOC Monitoring

What does this look like?





THANK
YOU

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