



OSIsoft Product Strategy

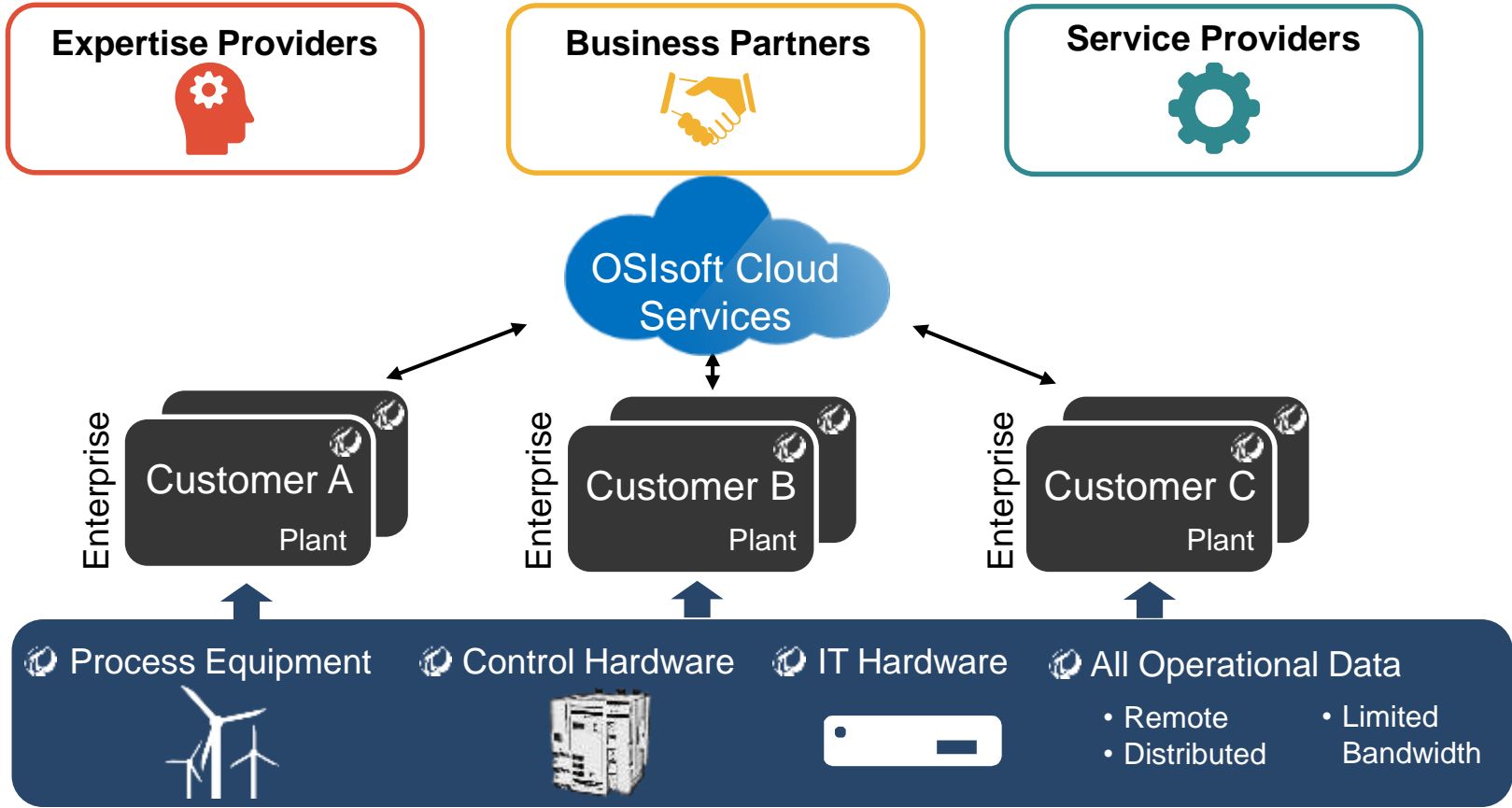
Presented by **Ray Hall**



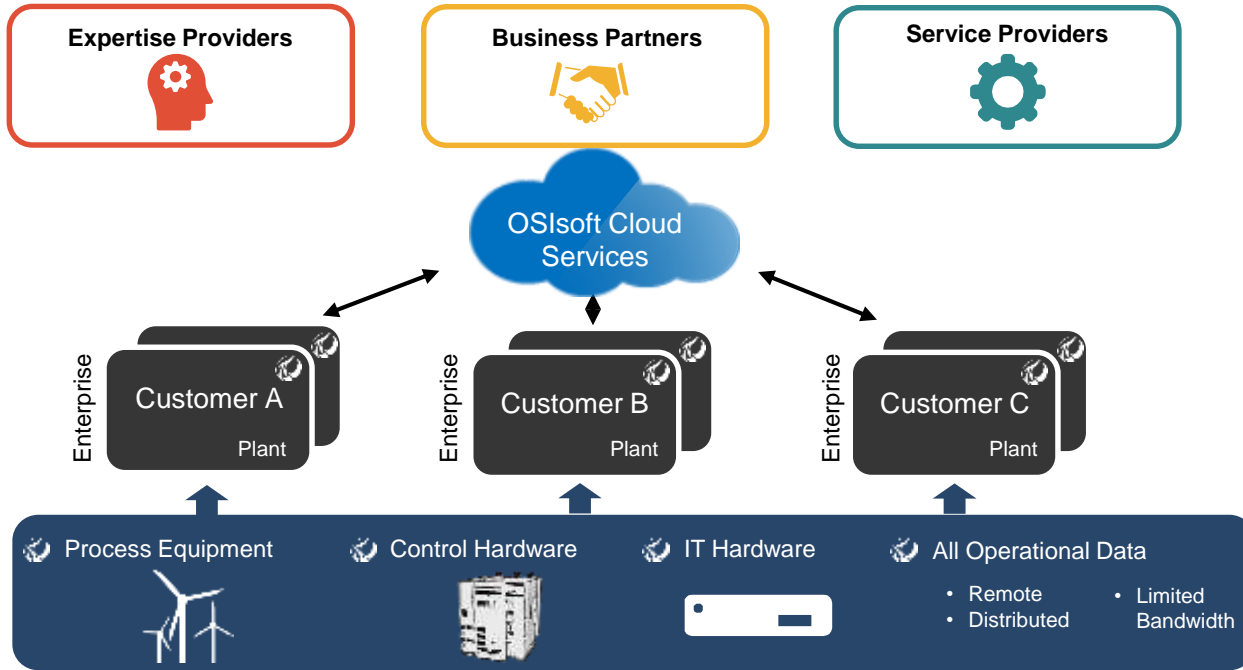
Our Vision: Industrial Digital Transformation



An Evolving Ecosystem



An Evolving Ecosystem



Focus Areas

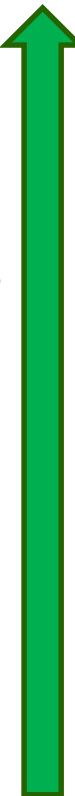
Display and Data Sharing

Fleet-Wide Operations Questions

PI Vision

Evolution of the PI System

Accessing all Operations Data



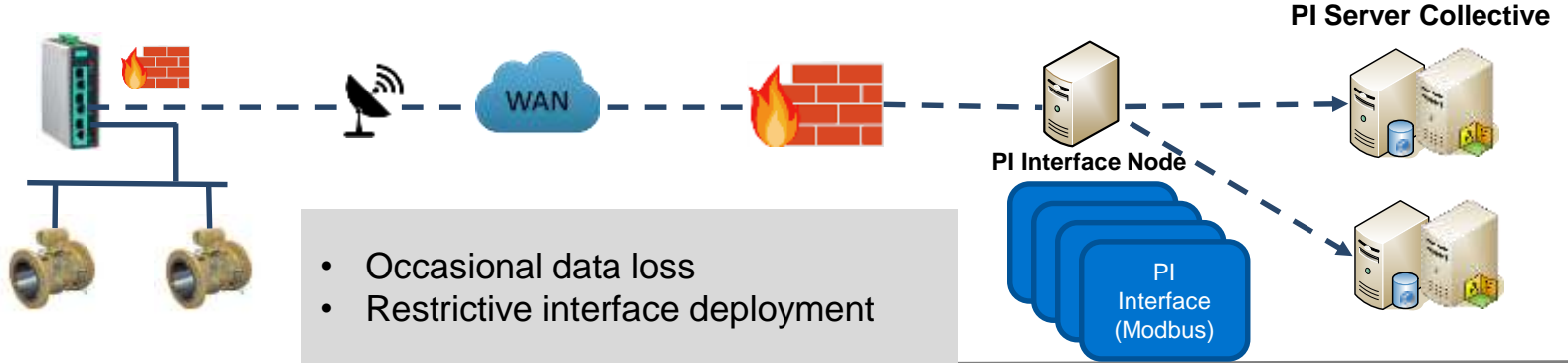
1

Accessing all Operational Data

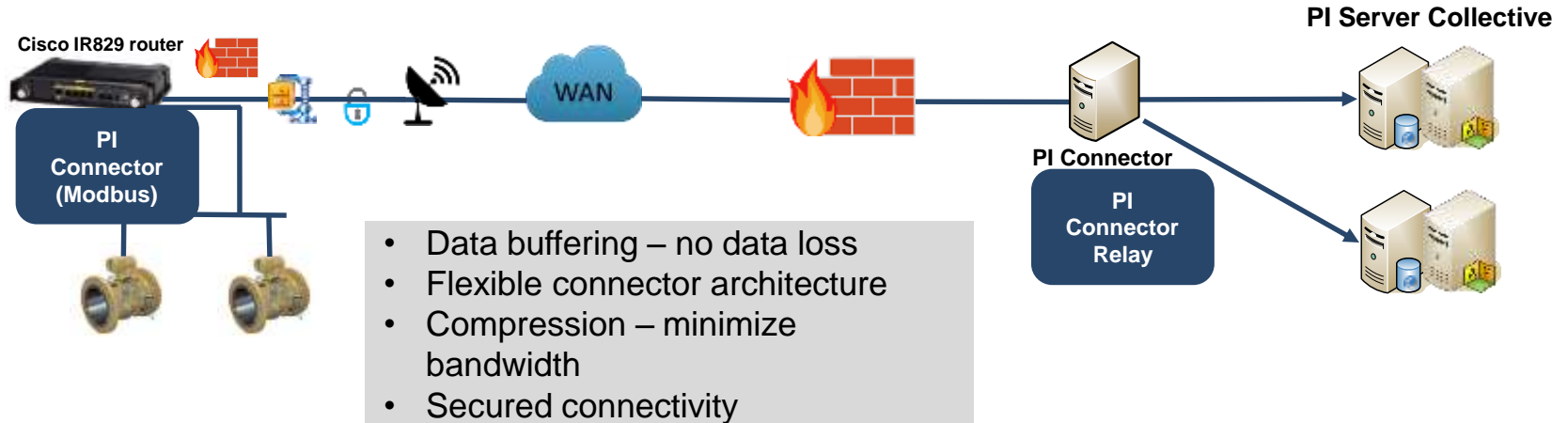


TransCanada Extends PI System Connectivity to the Edge

Before



After



Source Categories

Your Equipment

Control Hardware

Equipment Vendors

IT Hardware

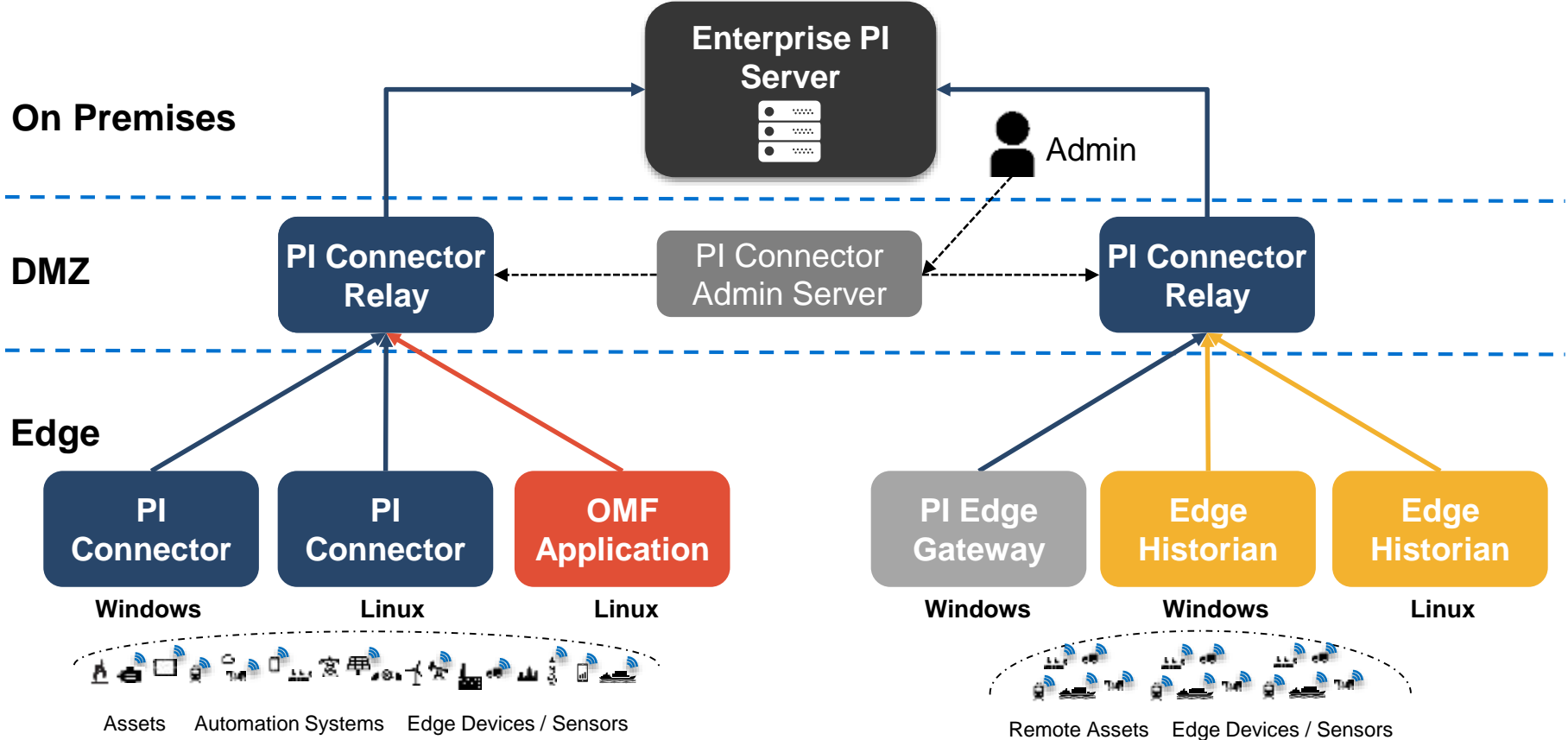


**Rockwell
Automation**



Cisco IR809 router
Cisco IOx (Linux)

Next Generation Data Collection Architecture



Evolution of the PI System

2

Current Focus: Evolution of the PI System

Expand



Increase the **volume & velocity** of operations data

Extend



Associate **quality** information with measured values

Ease



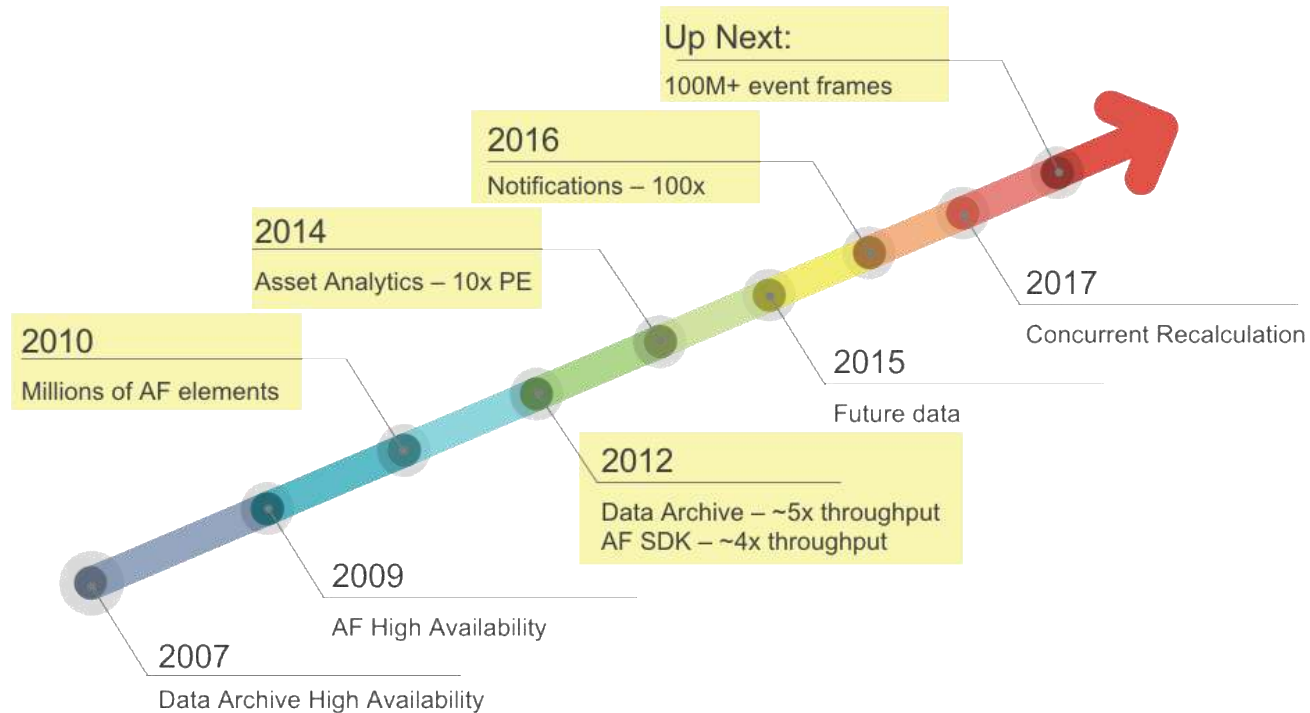
PI system tools designed to work across the enterprise

Expand the PI System: Performance and Scalability

Expand



Increase the **volume & velocity** of operations data



Extend the PI System: Data Quality

Extend



Associate **quality** information with measured values

Data Collection



Collect quality information from source systems

Storage



Natively associate quality information with data

Asset Analytics



Calculations take into account quality of inputs

Developer Technologies



Ingress and egress of data with quality via programmatic means

Visualization



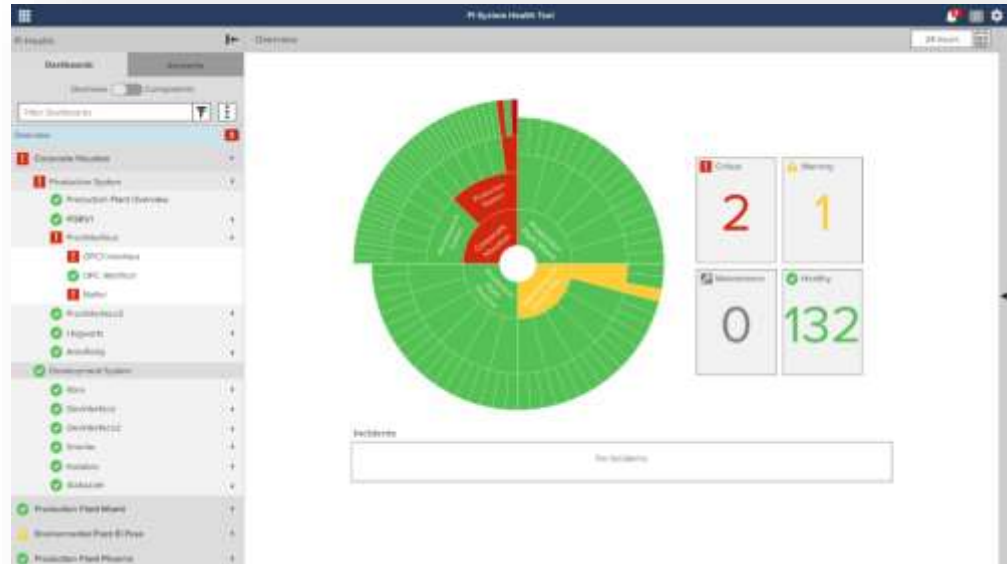
Display data with quality information

Ease of Use with the PI System: Management and Administration

Ease



PI system tools
designed to work
across the enterprise





3

Visualizing Operations Data

What We Hear About Visualization...

“People want their data **where they are**, not where the system is”

“I have a tough time selling ProcessBook internally because it's **powerful** but to the end users **it looks heavy and old** and other tools have **5% of the functionality but look better and work over the web** and they win.”

“... that ability for an **end user** to be able to go in and configure it and get an **integrated experience** has **not been there**”

PI Vision: A Critical Piece of the Infrastructure

Today



PI ProcessBook

Display Editor
Process Monitoring



PI Coresight

Ad Hoc Analysis
PB Display Viewer



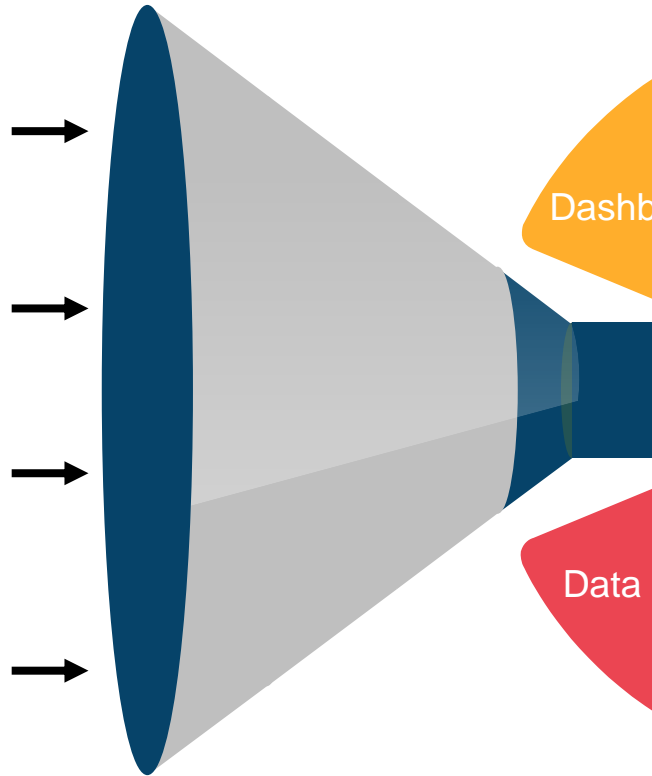
PI WebParts

Dashboards

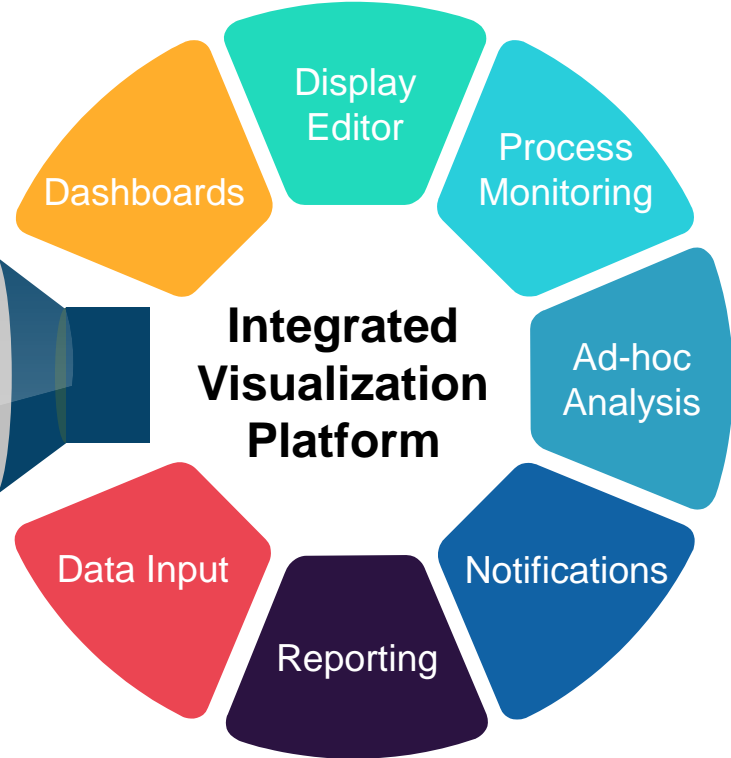


PI Manual Logger

Manual Data Entry



Tomorrow



PI Vision Roadmap

2016

- **New Display Editor**
- Monitoring
- Phone / Tablet
- Event Details
- PB Viewer
- Ad Hoc Analysis / Event Comparison

2016 R2

- **Event Search**
- Trend Configuration
- Event Details
- Adhoc Analysis / Event Comparison
- Event Detail (phone)

2017

- **Collections**
- Events Table
- Graphic Library
- Pinned Events
- Scatter Plot
- Drill-in Navigation



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Fleet-Wide Operations Questions



What is a Deep Query vs. a Wide Query?

Deep Query



For meter at 123 Washington St, which days in the last 20 years had missing readings?

Wide Query

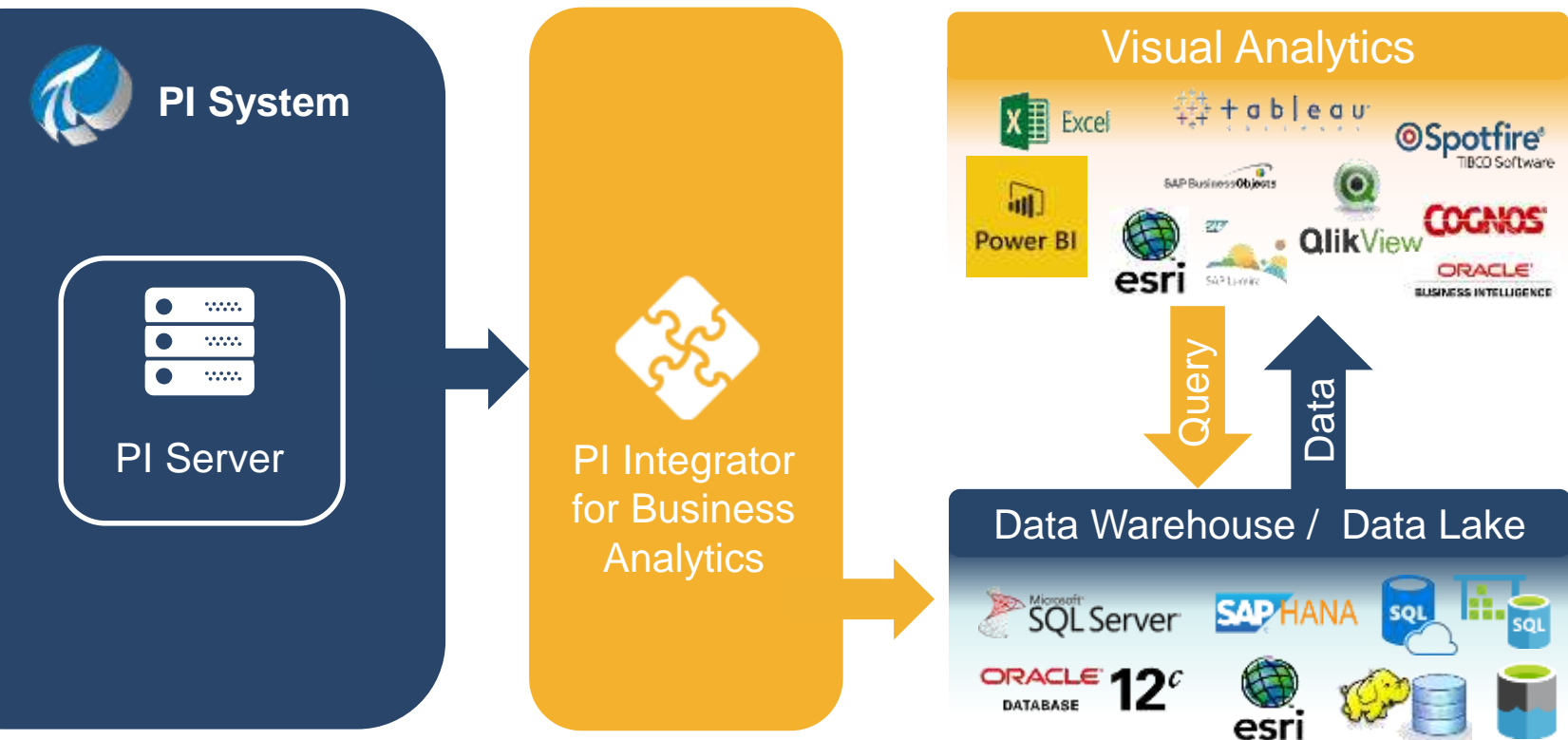


Which meters in zip code 85901 had missing readings yesterday?

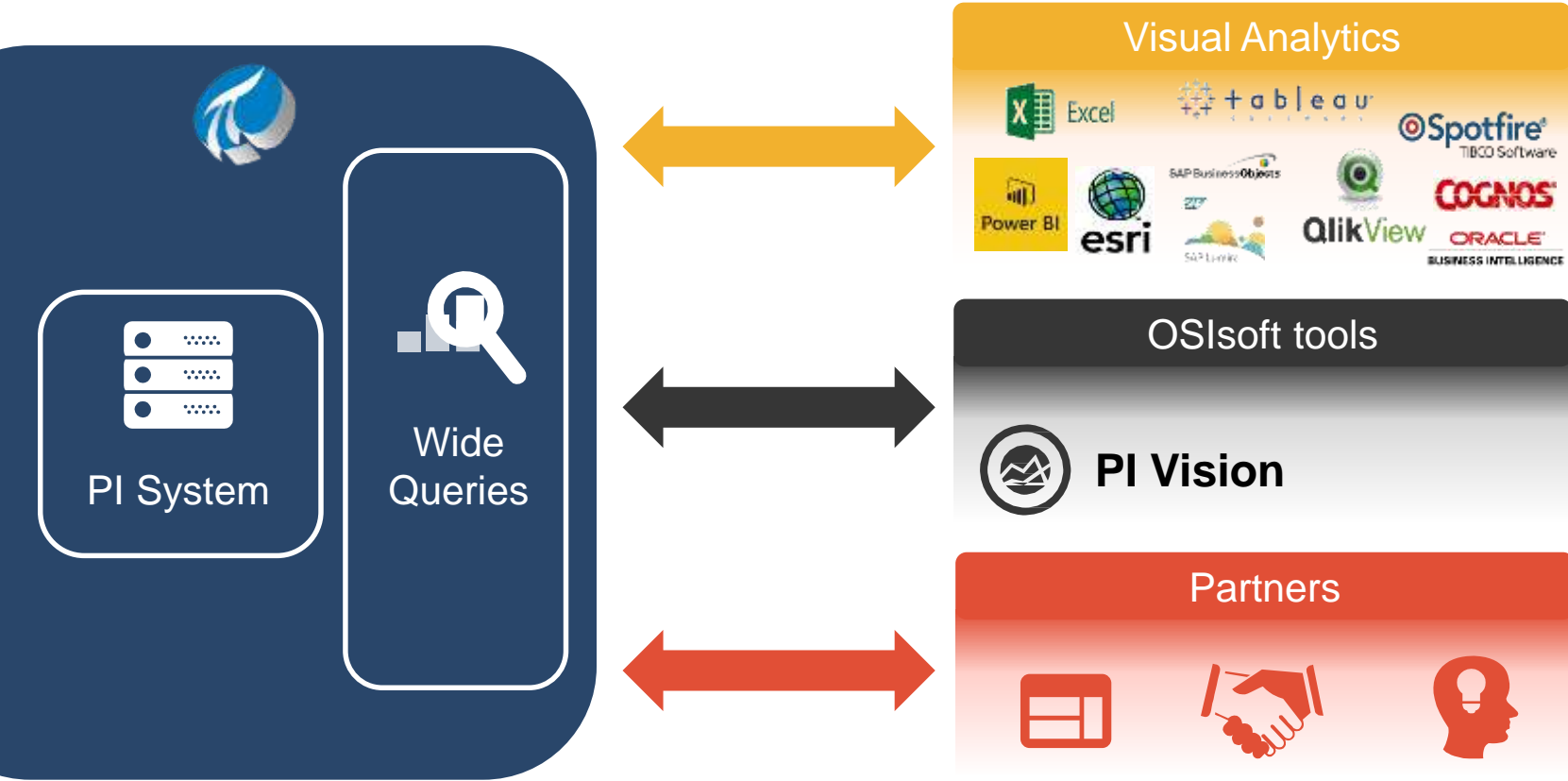
How does a Wide Query Help Me?

- Fleet asset performance
- Pattern Searches
- Aggregates across assets
- Performance diagnosis
- Asset maintenance diagnosis

You Can Do This Today Using PI + Integrators



Direct Access from PI Vision, Partner Apps, and BI Tools



Complimentary Capabilities

Integrators

Blend operational data with business data for complex analyses

Wide Queries

Native query surface for fleet wide questions

APIs

Open APIs for custom built solutions needing to query PI

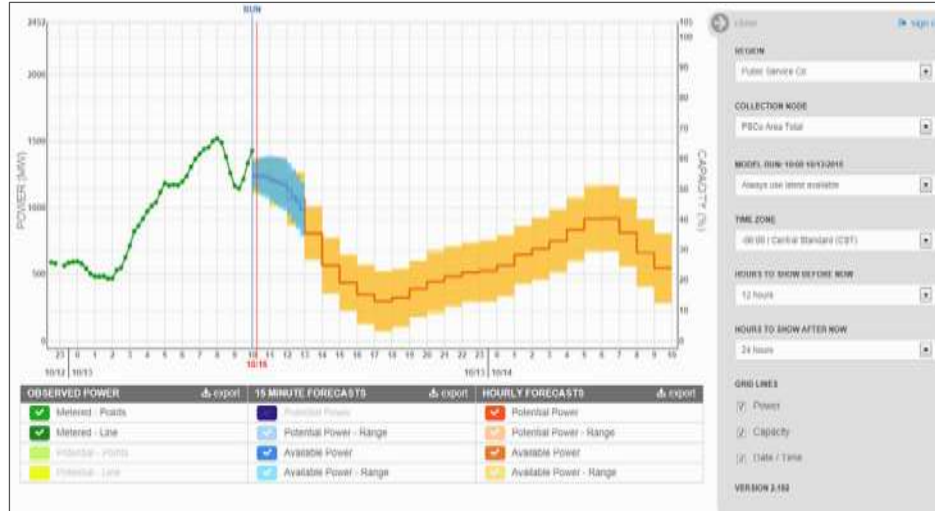


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Complementary Cloud Services

Example Community: Knowledge Exchange

To improve wind forecasting, Xcel Energy “went to the experts, the National Center for Atmospheric Research



“Savings/ Efficiencies are roughly estimated Over the last six years at \$46 million.”

- Kasen Huwa,
Senior Business Manager
XcelEnergy



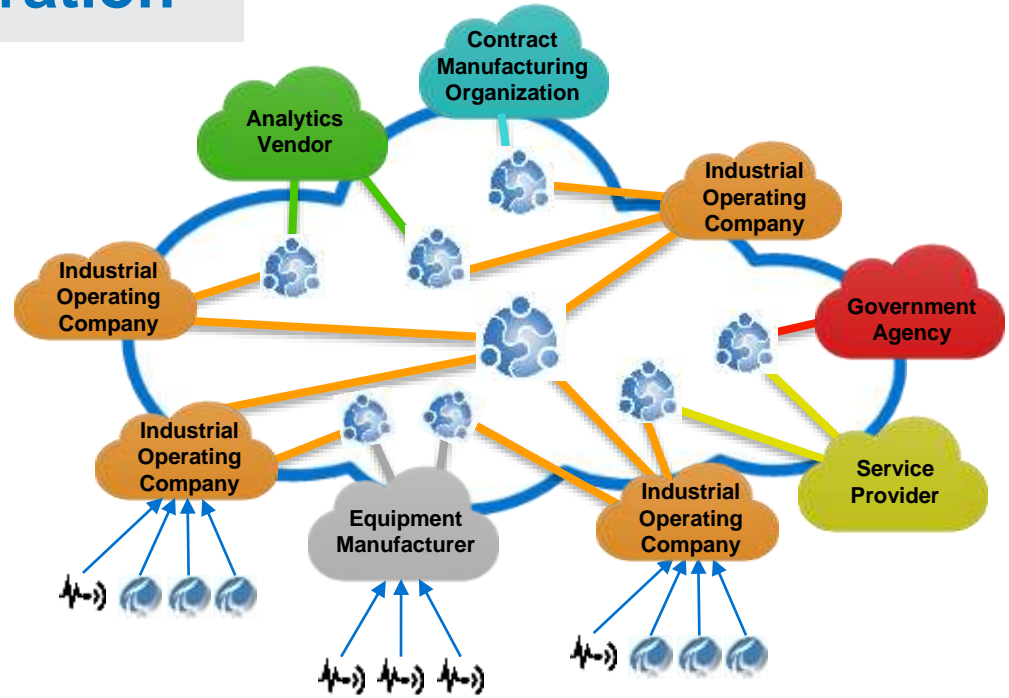
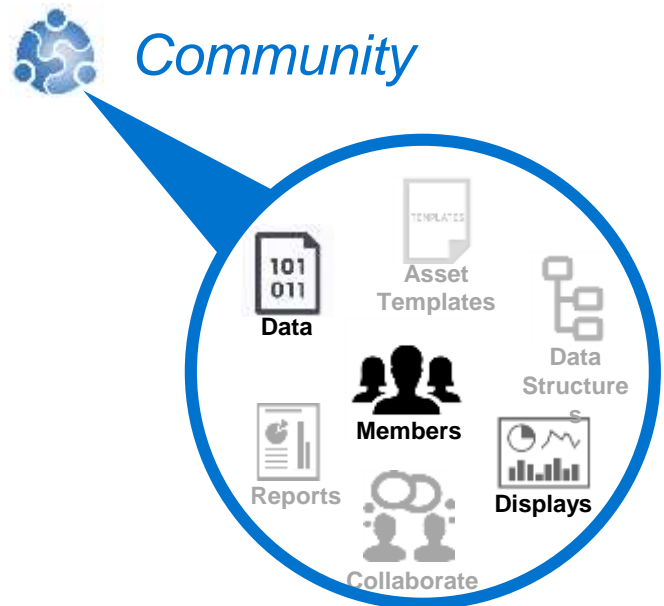
Power/ T&D

Generation

Transmission

Distribution

An Ecosystem of Communities Enabling Sharing & Collaboration

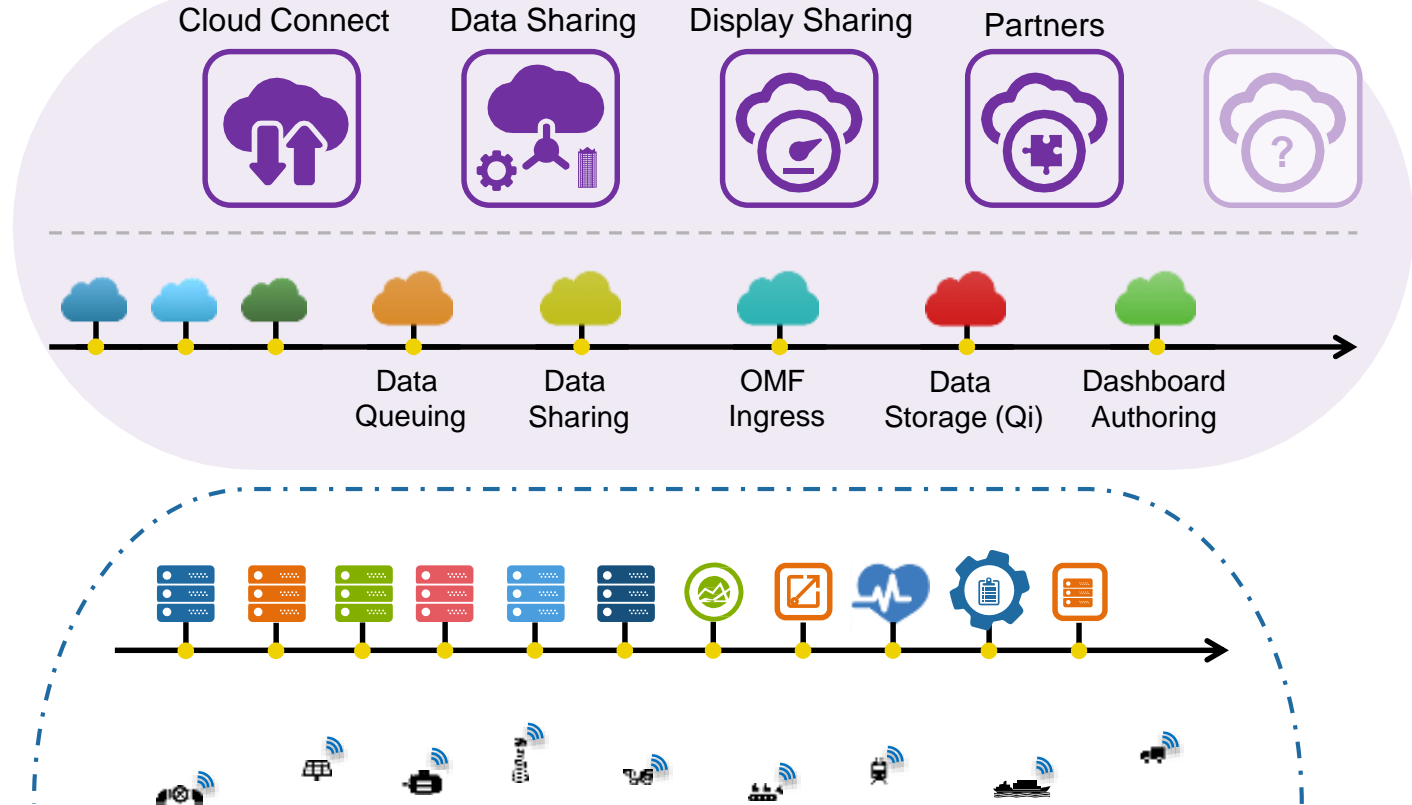


Building complimentary capabilities

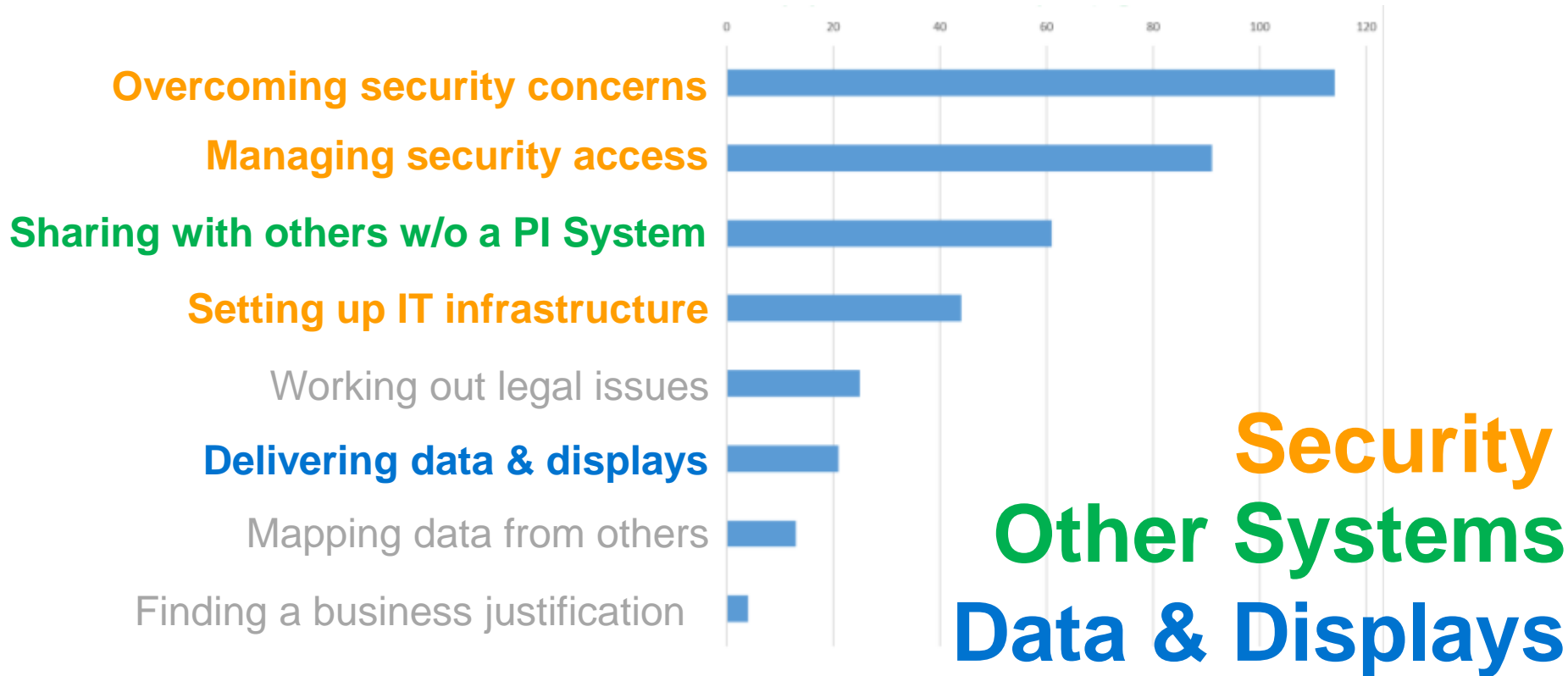
Commercial
Cloud Services
Offerings

Cloud Services
Platform

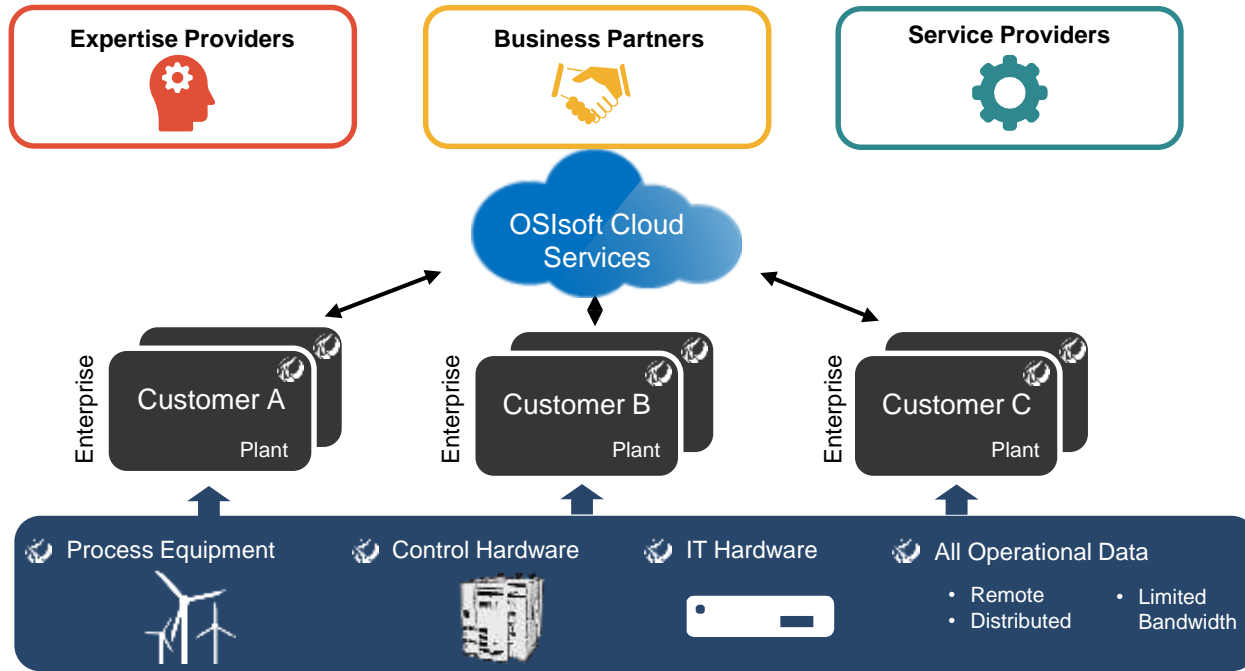
On-premises
capabilities



Challenges of Sharing Information with External Parties



An Evolving Ecosystem



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Questions

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



State your **name & company**

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감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado





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