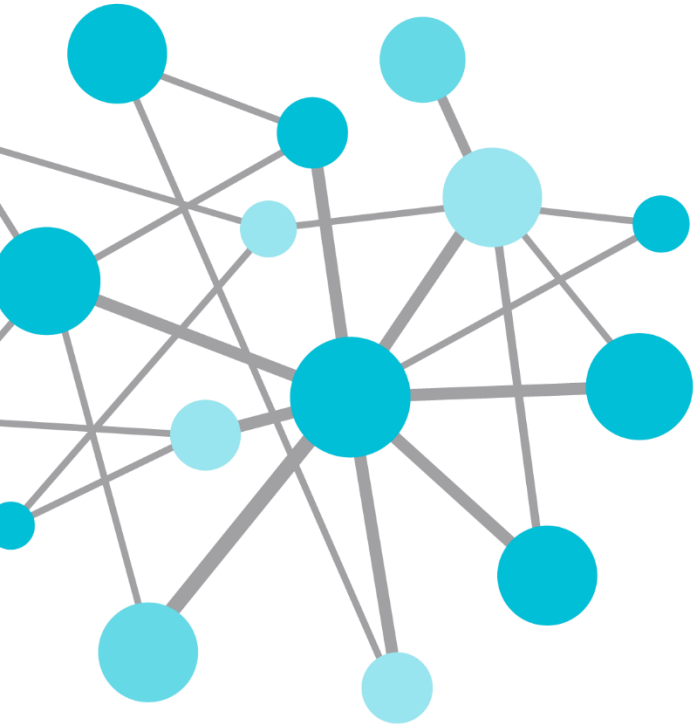

Roadmap: Coming to a PI System Near You

Presented by **Yves Gauthier and Hans-Otto Weinhold**

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Themes

1. Asset-based PI System
2. Event Frames
3. Future Data
4. Mobility/Visualization
5. Downstream Systems
6. Cloud Services

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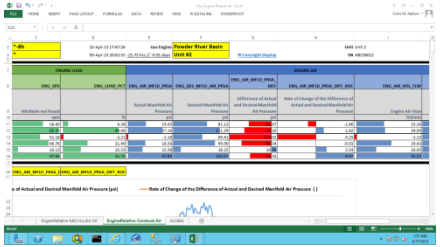
Theme 1: Asset-based PI System

An easier way to manage a PI System

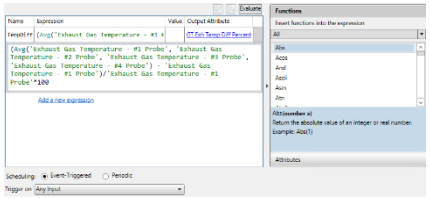
2013



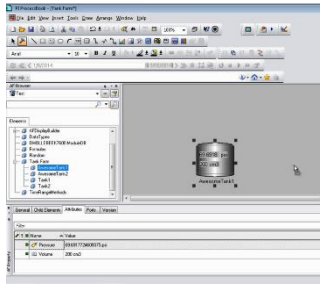
PI DataLink 2013

PI Coresight 2013

2014



PI Server 2014
(Analytics)



PI ProcessBook 2014
AF Display Builder

PI Connectors

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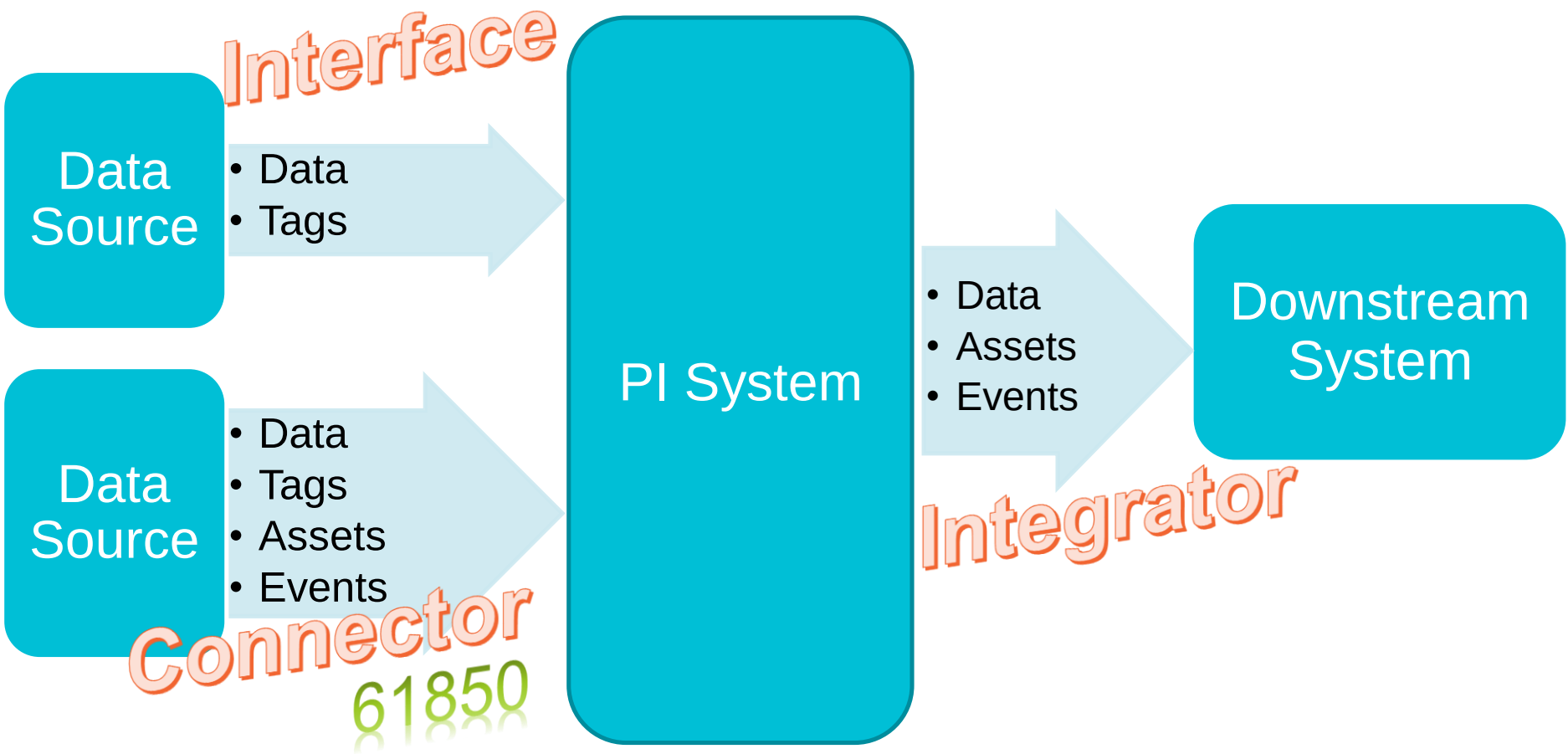

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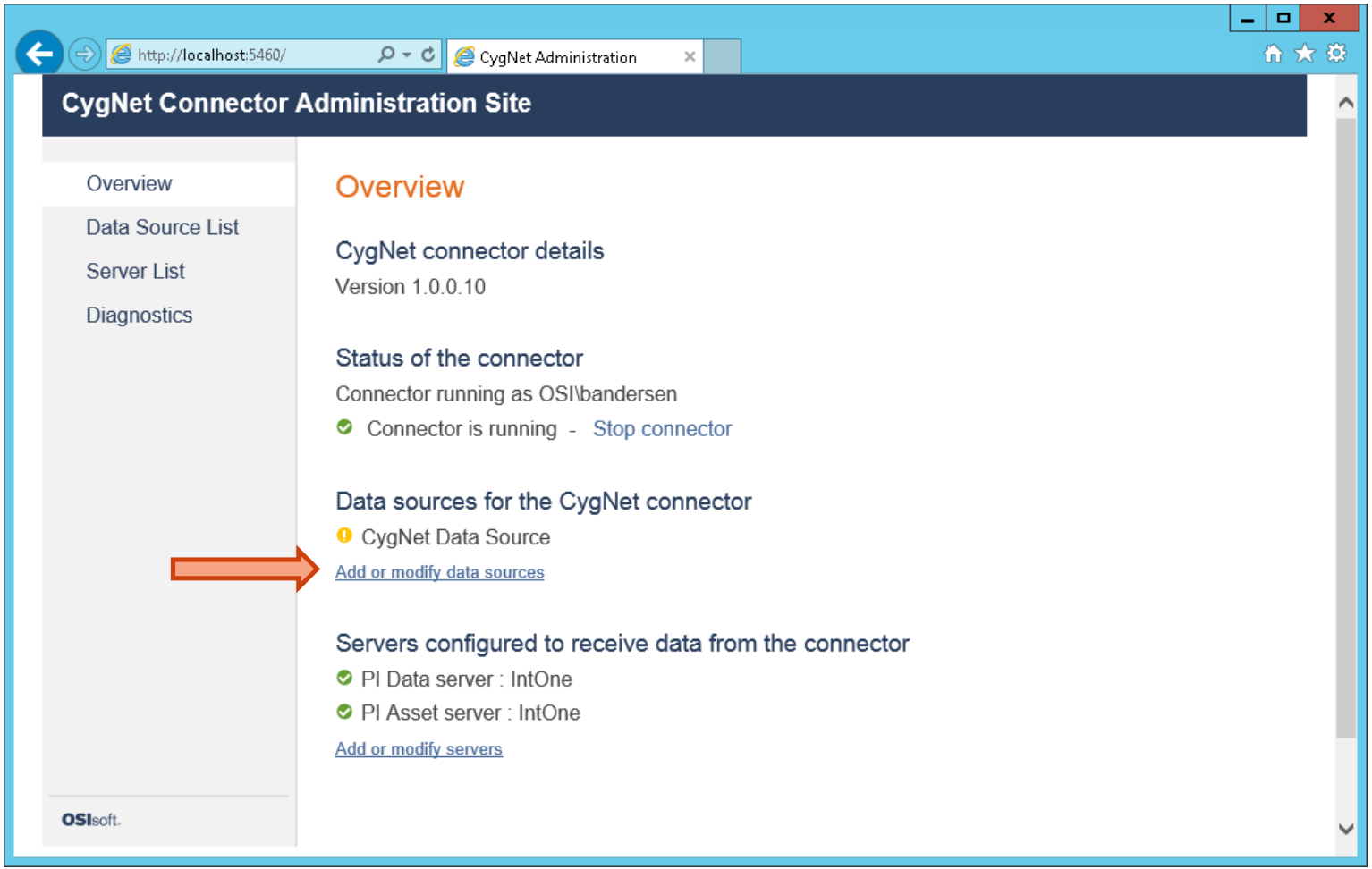

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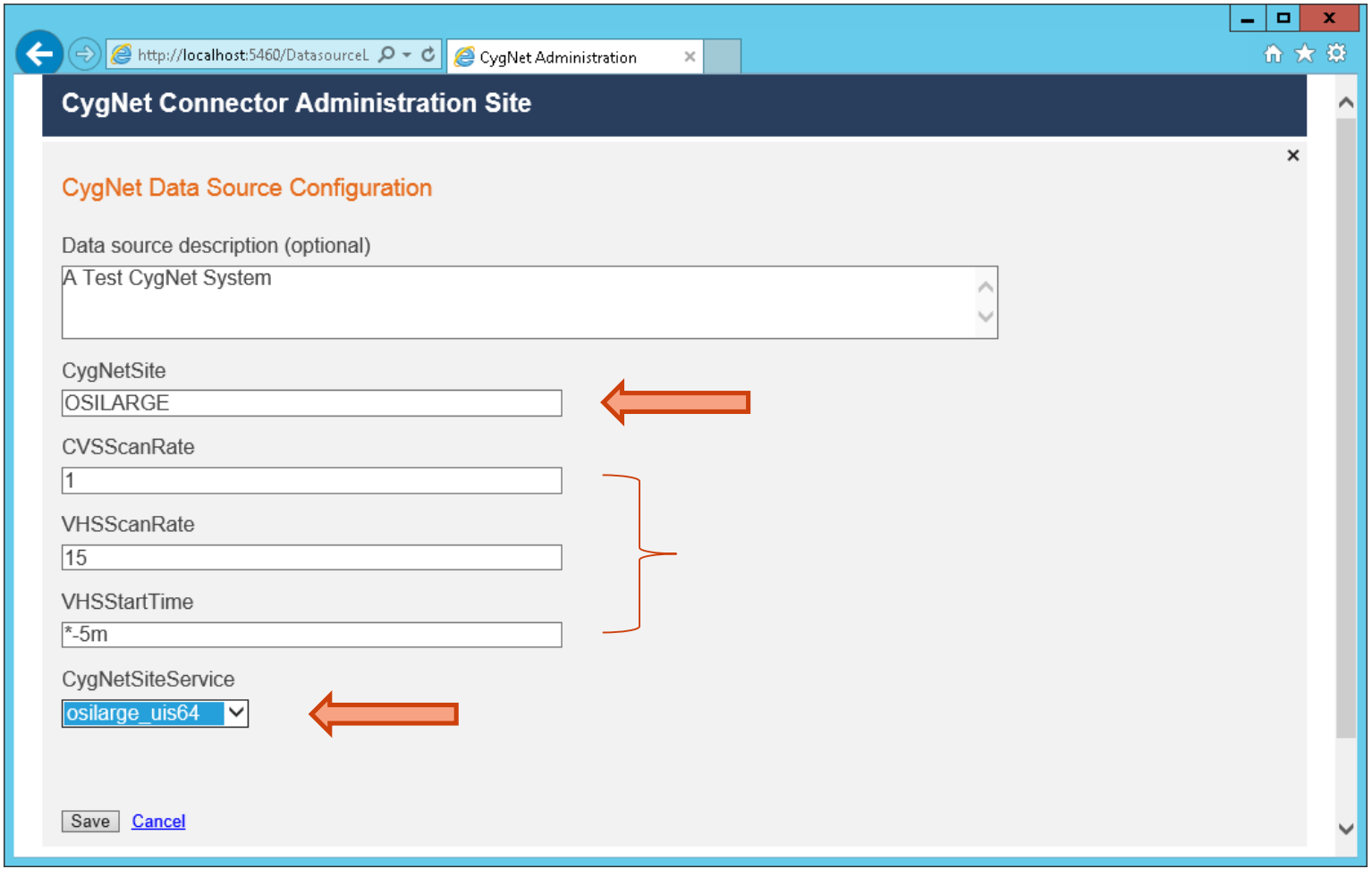

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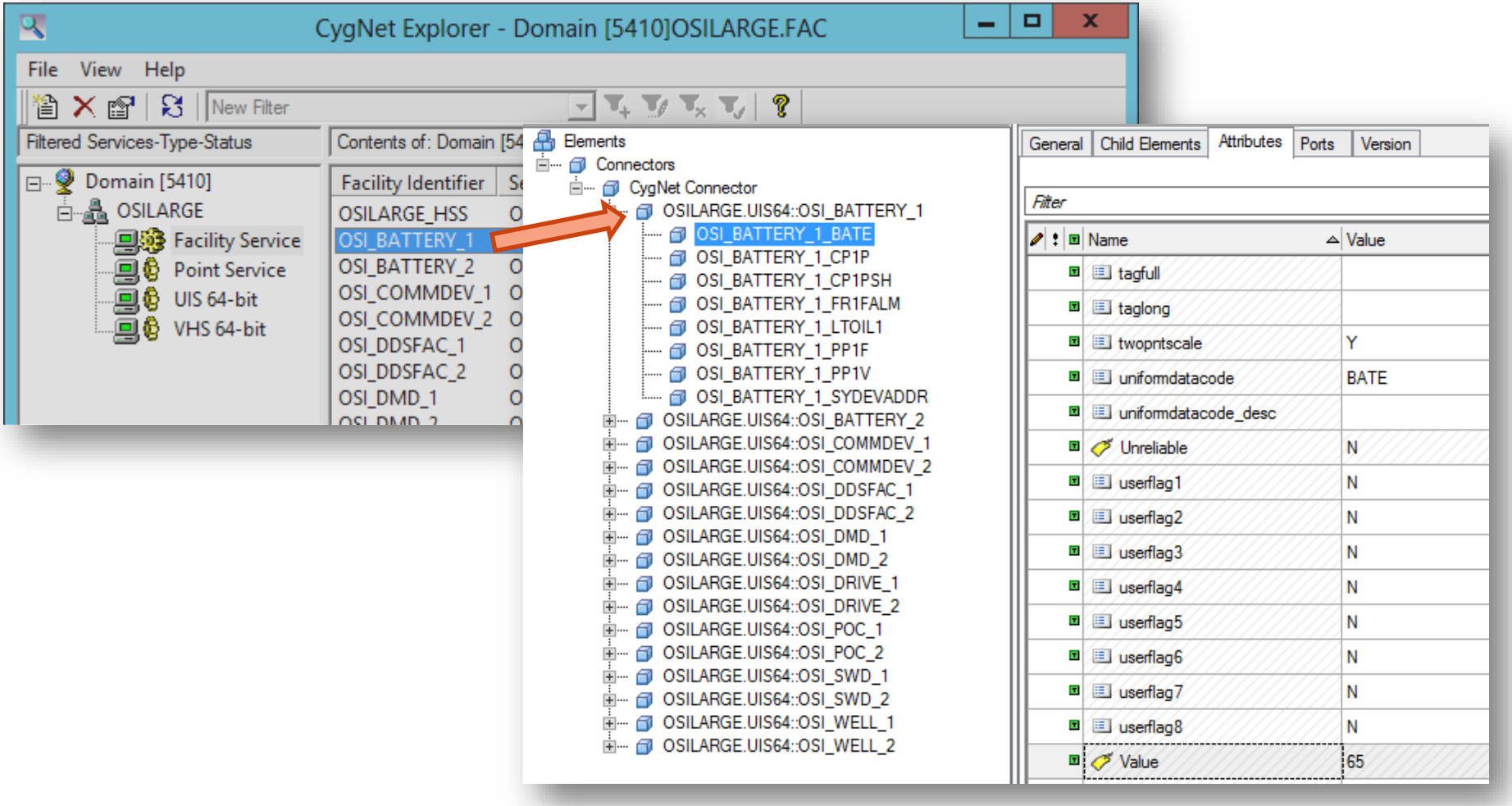

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Programmatic Access for Asset-based PI

- PI ODBC
- PI Web API including OData
- Programmable Analytics

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Theme 2: Event Frames

Capability of the PI System to record and analyze important process or business events

Industry	Event Frames	Value
T & D	Startups & Shutdowns	Respond to MW dispatch requests
T & D	Equipment failures	Increase grid reliability
T & D	Day and peak hours analysis	Understand if a situation is critical
Oil & Gas	Pump vibrations, downtime, ramp ups	Safety, optimization, asset reliability
Oil & Gas	Truck offloads into facility storage	Inventory Tracking
Metals & Mining	Rolls of Aluminum	Quality, roll comparisons
Chemicals	Batches, processing steps	Equipment effectiveness
Life Sciences	Batches, unit procedures, phases	Product quality, regulatory

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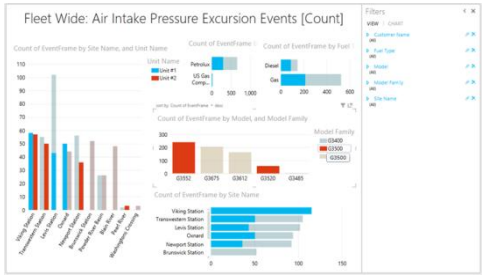
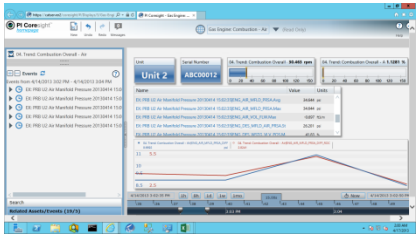
Event Frames

2013



OLEDB Enterprise 2012

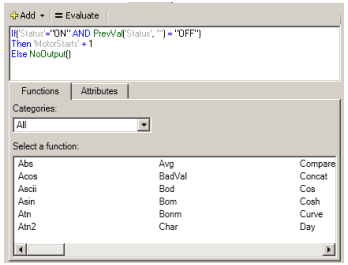


Coresight 2013

- PI Web Services
- BES/MES Interfaces
- EF Generator

2014

PI DataLink 2014



Analytics in PI Server 2014

Batch to Event Frame Migration in PI Server 2014 R2

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PI DataLink

- PI DataLink 2014 released in April
  - Event Frames functions
  - New AF template filter function
  - Tag search enhancements
- PI DataLink Server 2014
  - Developed in parallel with PI DataLink 2014
  - Release in June

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Coming Soon for Event Frames

- PI DataLink Server 2014
- Overlay trend in PI Coresight
- RtReports
- PI Notifications

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Themes

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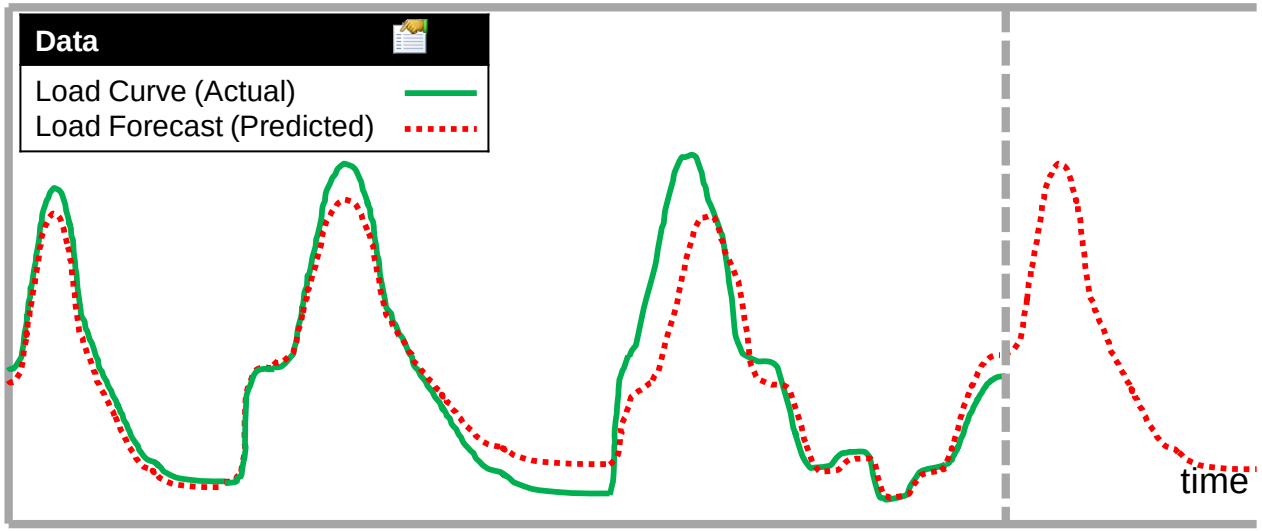
Theme 3: Future Data



- PI Server 2014 Release 2
- Visualization enhancements

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Theme 4: Mobility/Visualization

- Web-based technologies
- Multiple devices for each user
- Notify you of exceptions instead of relying on monitoring

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PI Coresight 2014

- Fast and easy access to PI System data
- PI ProcessBook display viewing in any browser
- New mobile web site designed for small screens and accessible on any device

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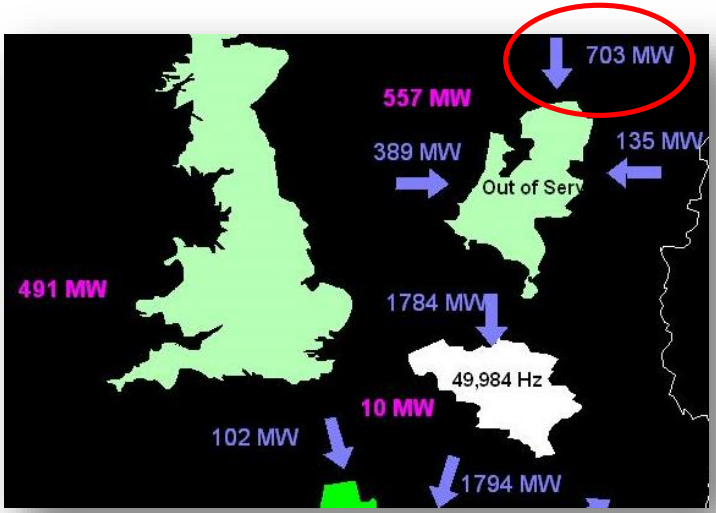
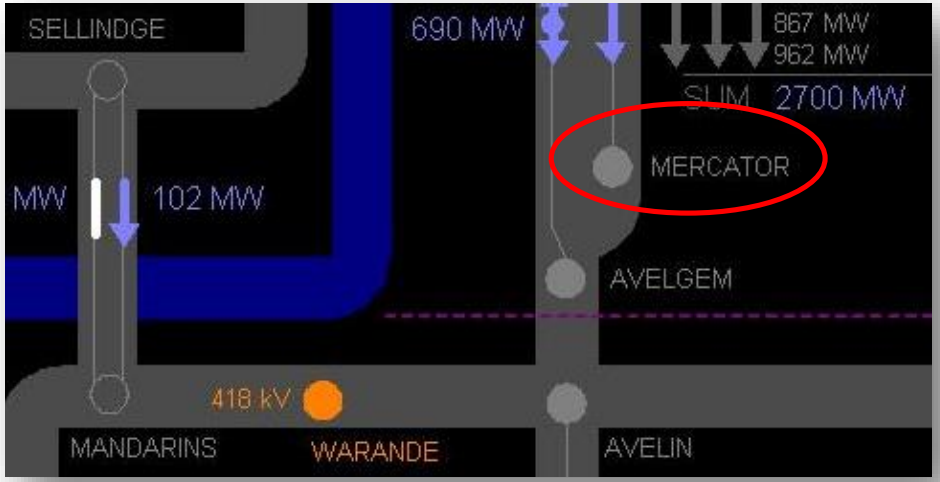
PI ProcessBook 2014

- Link Asset Framework assets to images





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Upcoming Visualization Releases

- PI Coresight 2014
- PI Manual Logger 2014
- PI ProcessBook 2014
- PI WebParts 2013 - *released*

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Research around visualization

- Apps for Office web add-in
- Modern User Experience Project
- Finish moving from Microsoft Silverlight to HTML5 in PI Coresight

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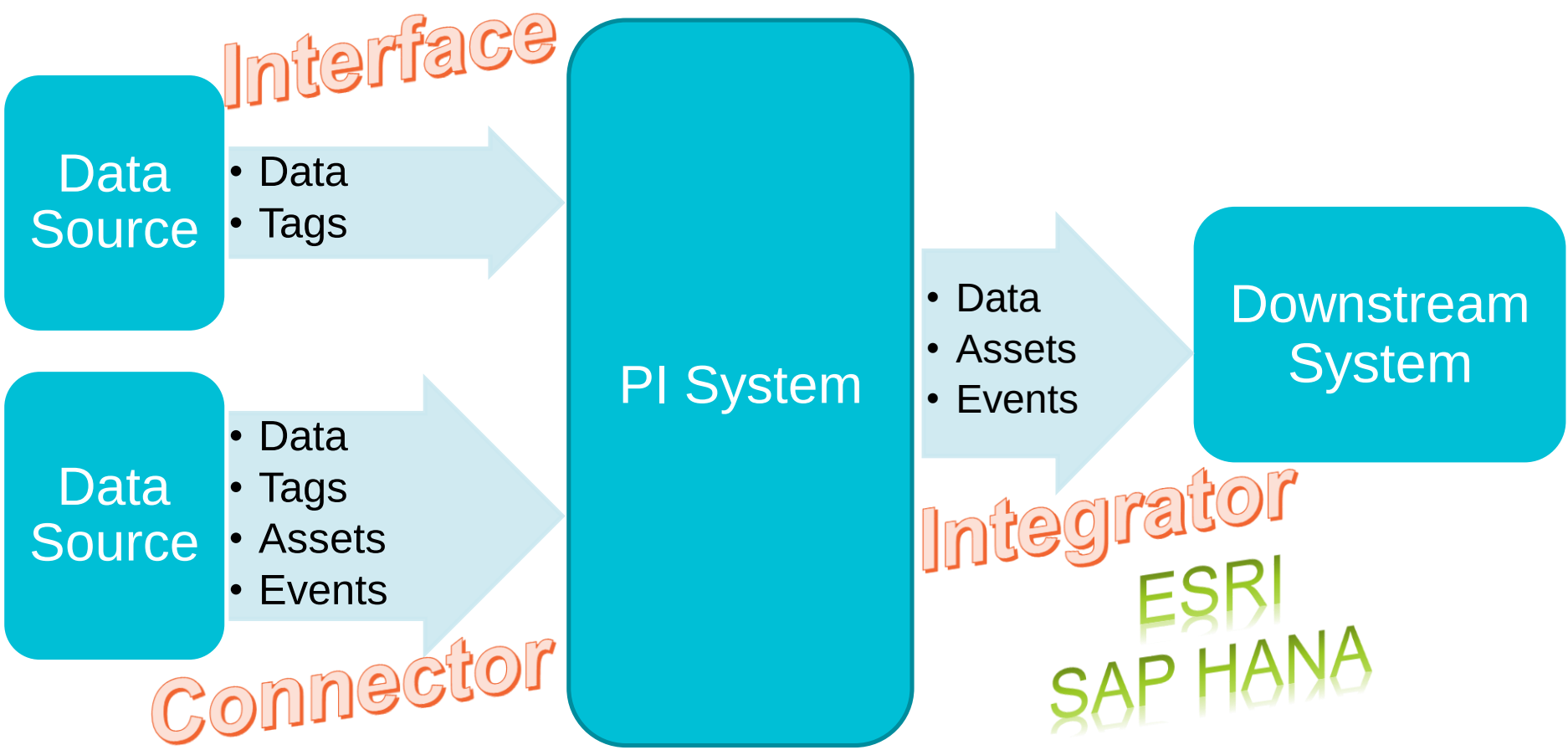

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Downstream Systems

- PI Integrator for Esri ArcGIS
  - Technology Preview now
  - Release July 2014
- PI Integrator for SAP Hana in development

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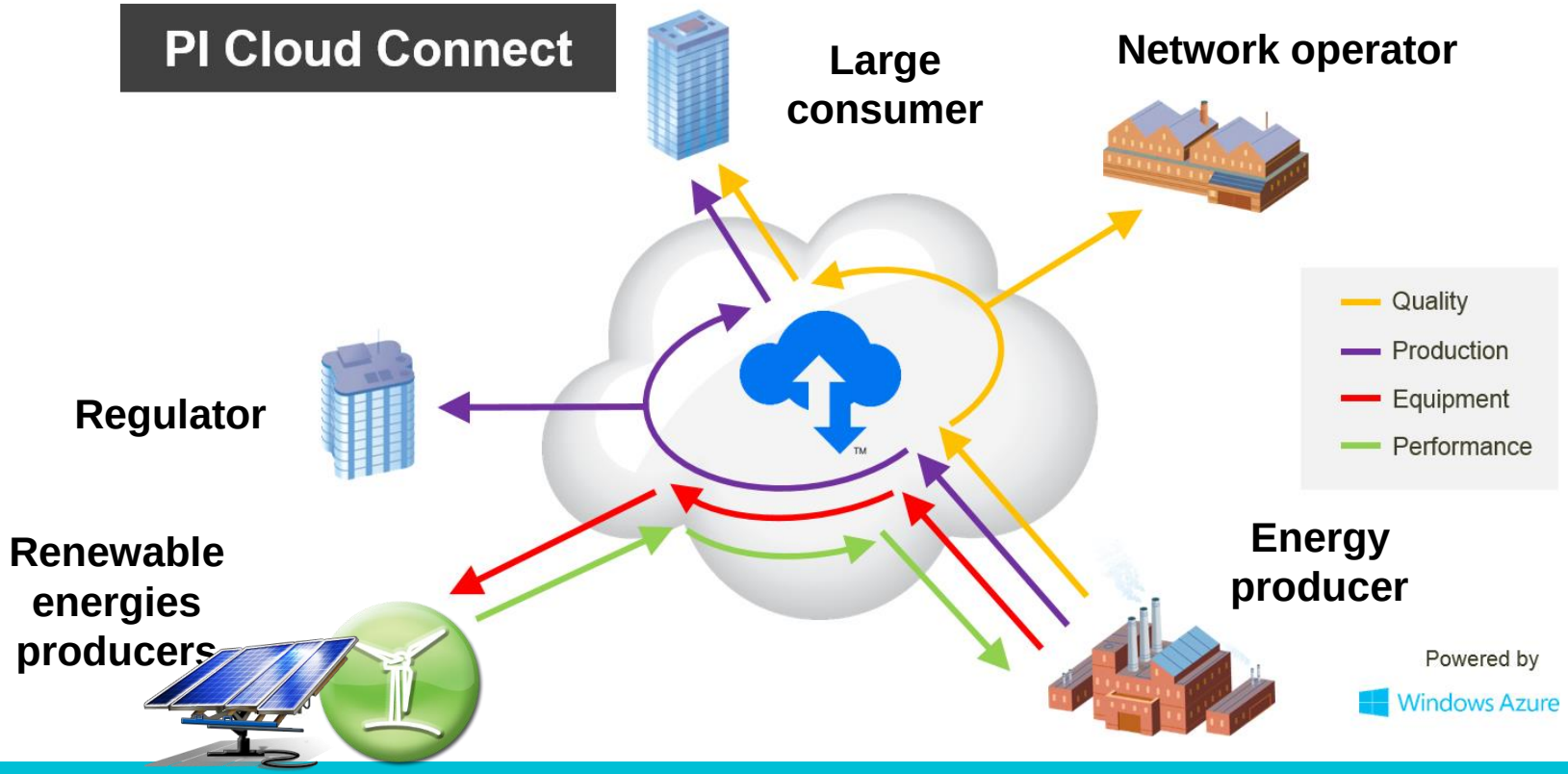
Theme 6: Cloud Services



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Cloud Services growing month by month

- PI Cloud Integrator for Esri ArcGIS
- PI Cloud Access

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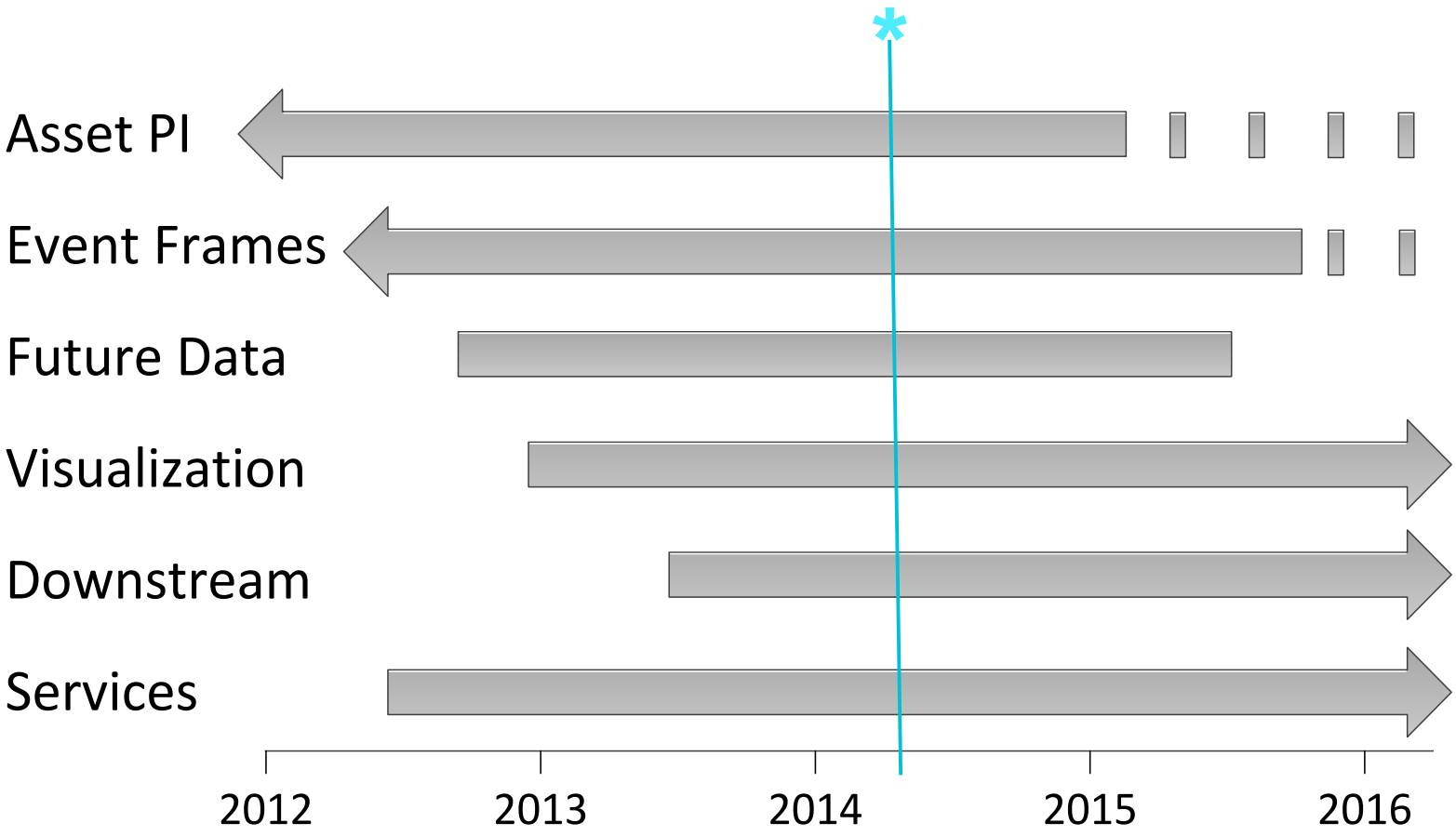

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Conclusions

- Use PI Asset Framework in new (and old) projects
- PI Event Frames provides a new way to analyze data.
- PI ProcessBook displays go mobile with PI Coresight 2014
- PI Cloud Connect makes it easy and secure to share real-time data with business partners

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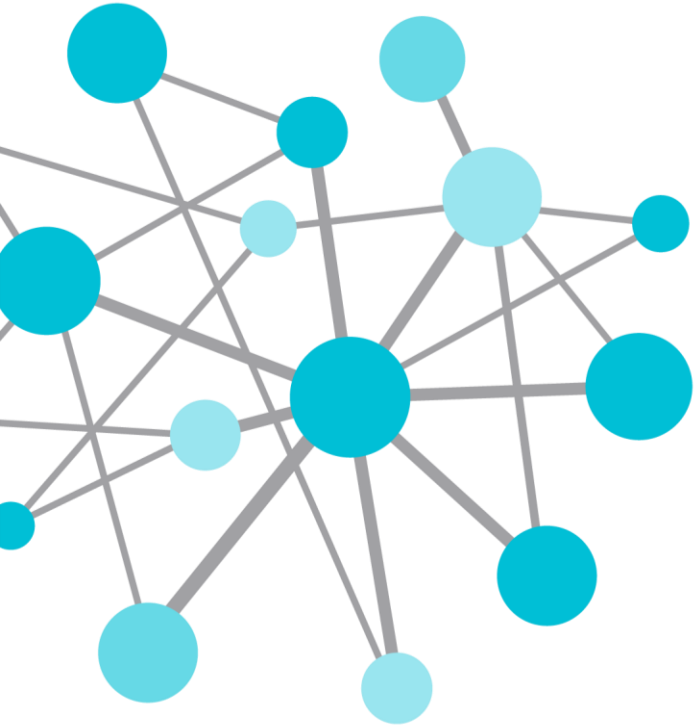

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