OSIsoft PI Integrator for Esri ArcGIS

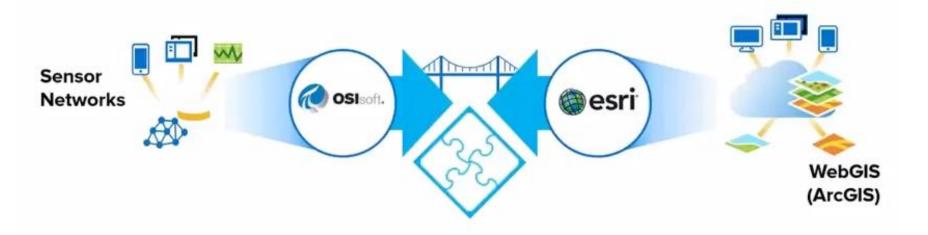
Hans Otto Weinhold Sr. Systems Engineer Friday, June 05, 2015



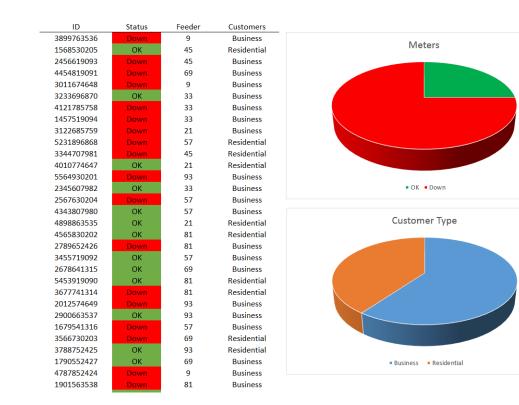


Two Companies One Vision:

We believe data in the hands of smart people can create amazing insights, business improvements, and value

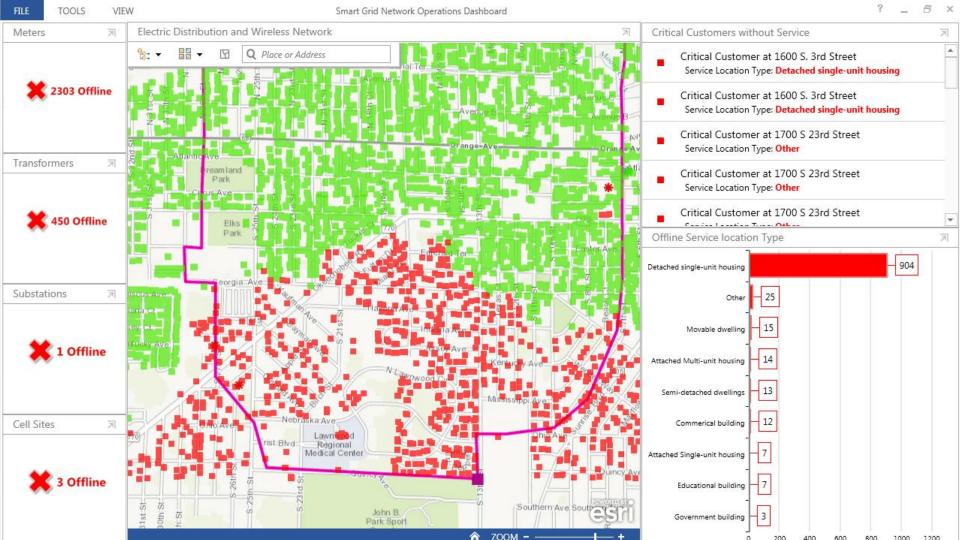


Location as Organization

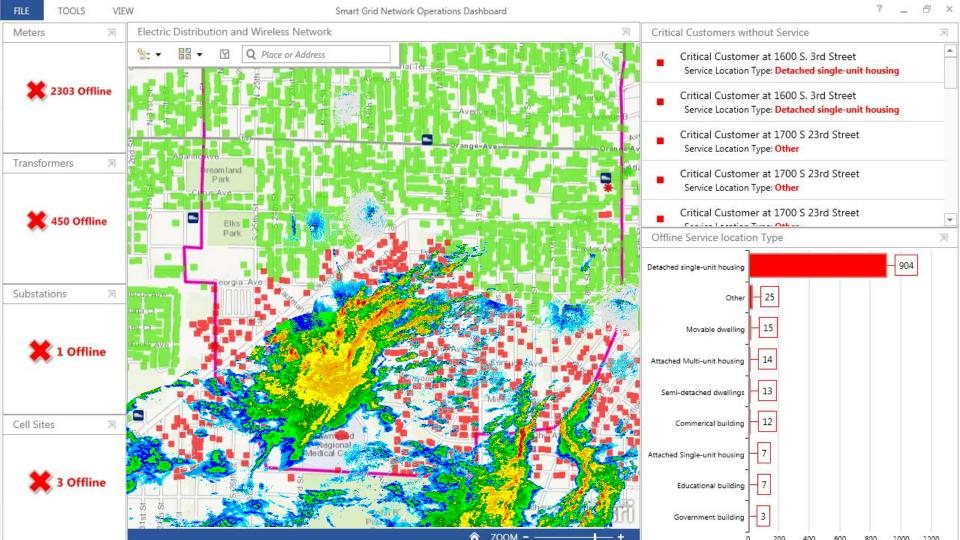


"Everything is related to everything else, but near things are more related than distant things"

-Tobler's First Law of Geography







Operational Excellence with Real-Time GIS

- Improving Operational Planning and Daily Activities
 - proactive network & asset management
 - improving process & operational workflows
 - tracking, reporting, & compliance

- Making Immediate and Actionable Decisions
 - situational awareness for emergency response
 - health, safety, and environment



What existed prior to the PI Integrator for Esri ArcGIS?

Esri GeoEvent

- Stand alone components
- Published SDKs

What exactly have we developed?

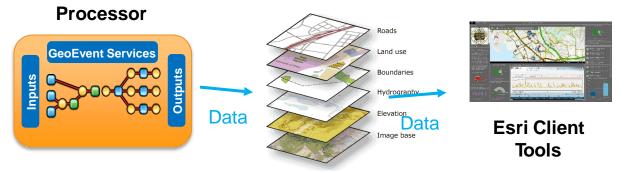
PI System



PI Coresight



Esri Feature Service + Esri Feature Layer



What we have developed?

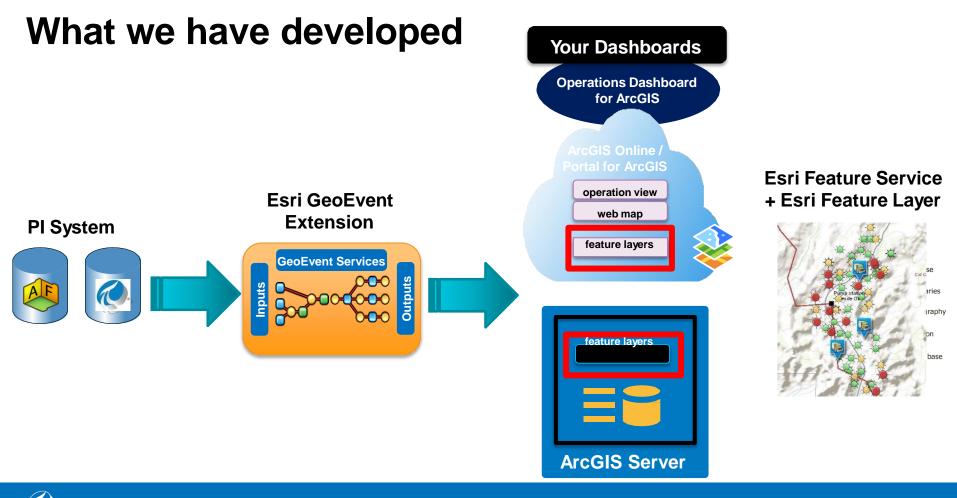
- Wizard-based configuration experience
- Ability to use the ArcGIS Asset listing to create the PI AF Element Structure
- Ability to invoke and embed PI Coresight displays from within ArcGIS

Configuration Portal Web App

AF Asset Extractor

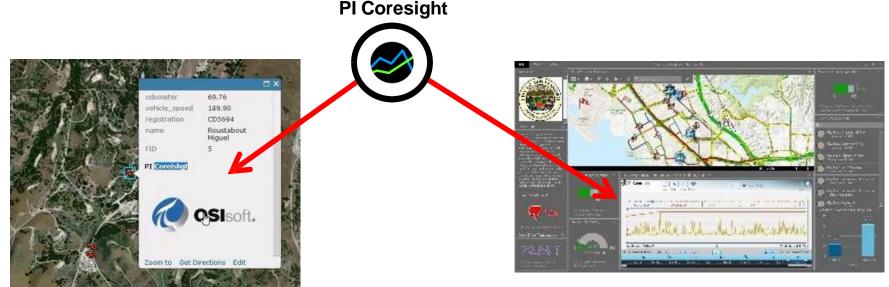
PI Coresight Endpoint Creation

🔥 🖓 PI Geo	Services Home Geo Services - Administration -	😥 PI Geo Services	🕼 PI Geo Services	Services Administration+ Tools Help
New home / services / new Create new Geo Service			home / services / AlohaNuiEnergy / SubsLeeward	
		PI Asset Extractor for Esri ArcGIS Extract your Esri ArcGIS map features as PI AF assets	Layer SubsLeeward X Substations on the leeward coast Created on 05/01/2014 07:5216 (2014-05-01T19:5216 31) All Features Fields StreamServer DisplayServer ArcGIS	
Name	Name of your Geo Service	Load features Read assets automatically from a Feature Layer URL	This layer is exposed as a DisplayServer within the services directory C Configuration	
Description	Description for your Geo Service	This should be an address to an ArcGIS Feature Layer, exposed via MapServer or FeatureServer. If you wish, it may include an Esri-designed query (to restrict elements, e.g. to only Wells in Texas).	PI Coresight Server	dev-coresight.
✓ StreamServer ✓ DisplayServer Create		Address Addres	Sharing Ad hoc display	Allow ad-hoc PI Coresight displays
				https://esri.pigeo.pipreview.com/api/services/alohanuienergy/a
			AF Button Image	https://esri.pigeo.pipreview.com/content/img/display/analyse-a



Embed PI Coresight in to ArcGIS Visualization

- Display Pop-ups OR
- In Esri ArcGIS Operations Dashboard



Esri Operations Dashboard

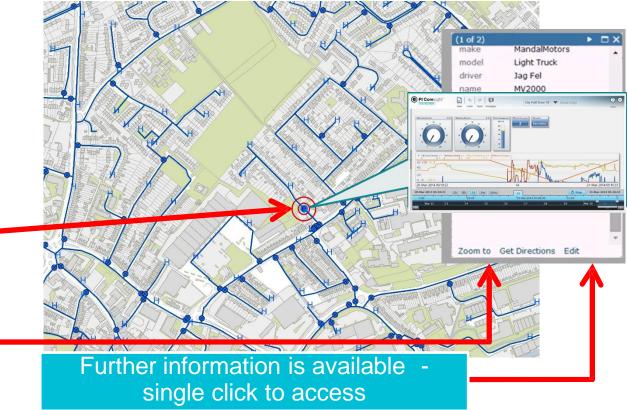
PI Coresite Link inside of ArcGIS Pop-up

Integrated Real-time Information

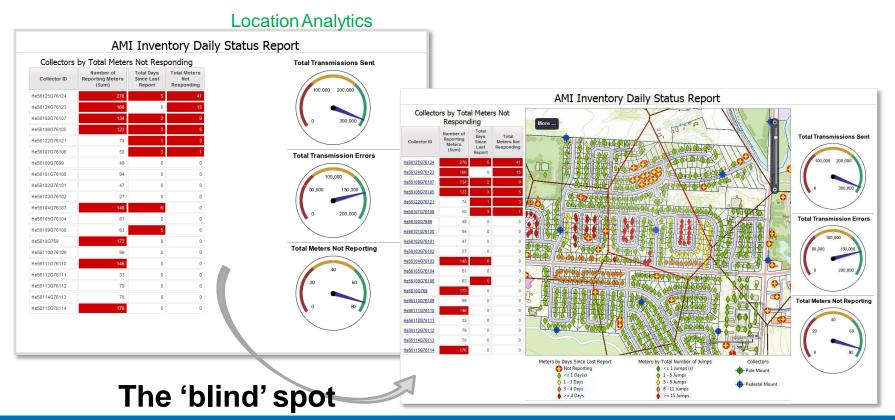


Operator clicks on the Asset on GIS display

Real-time information from the PI System for this Asset is displayed

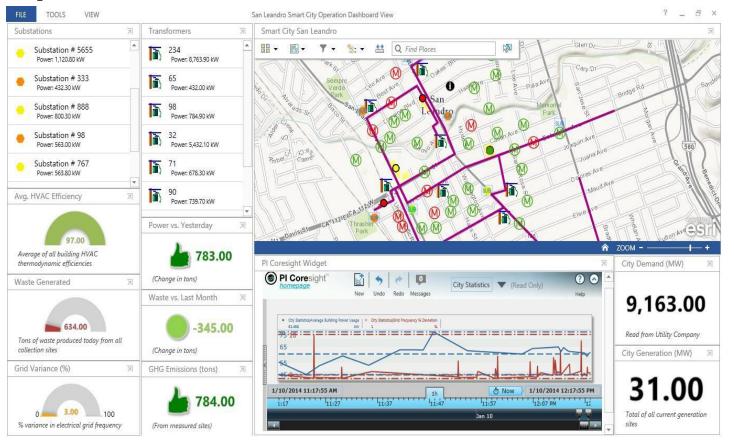


What are Utilities doing with PI System and ArcGIS?

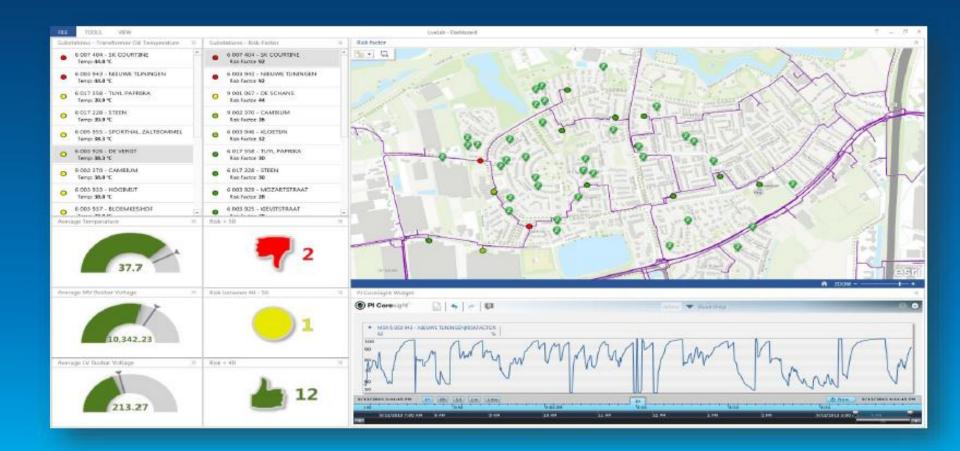


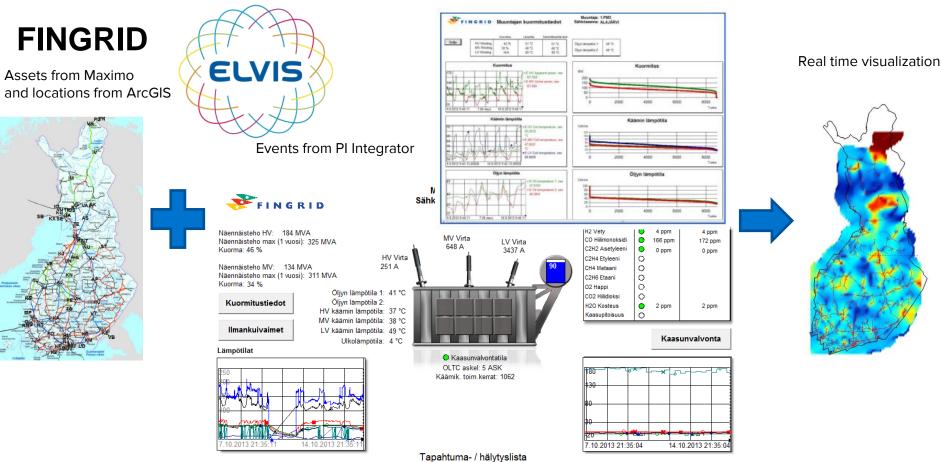


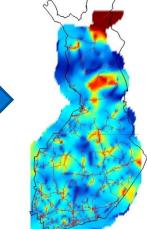
Operational Performance View



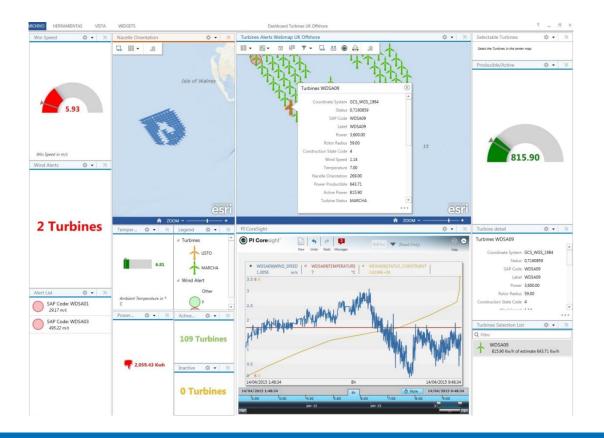
Alliander Experience Center



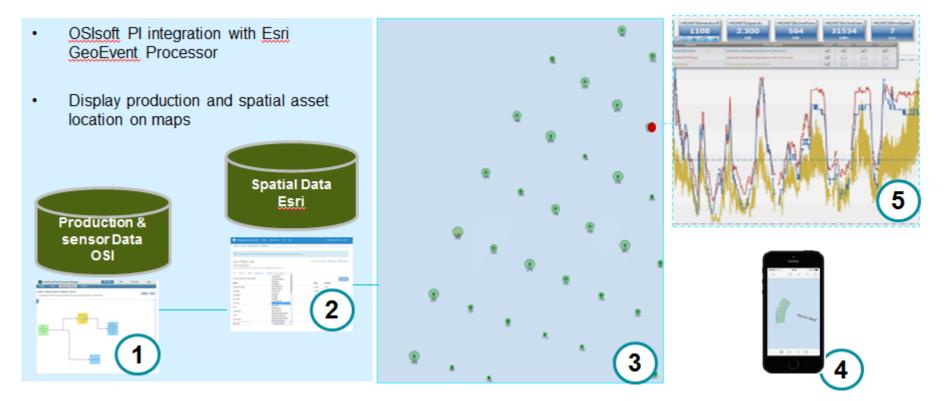




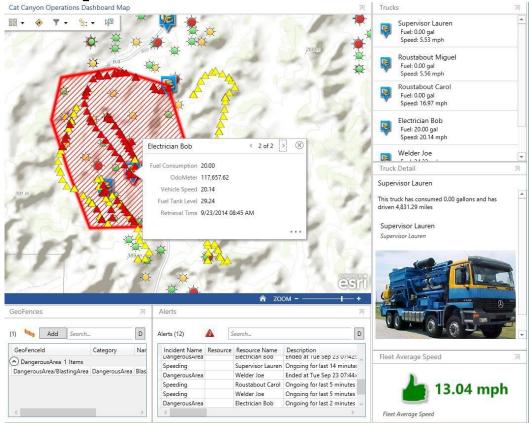
Iberdrola Renewables



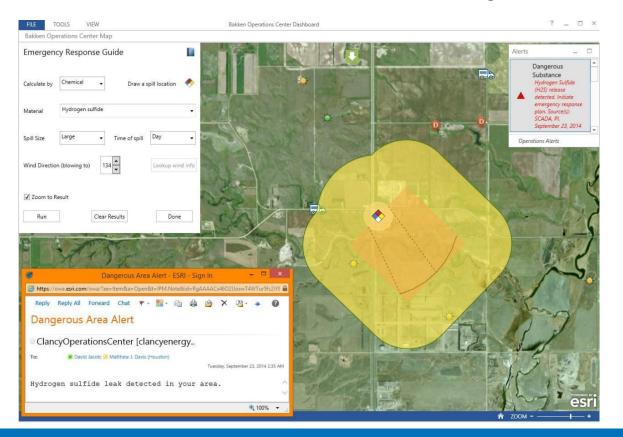
DONG Energy



Worker dispatch



Environmental Health & Safety

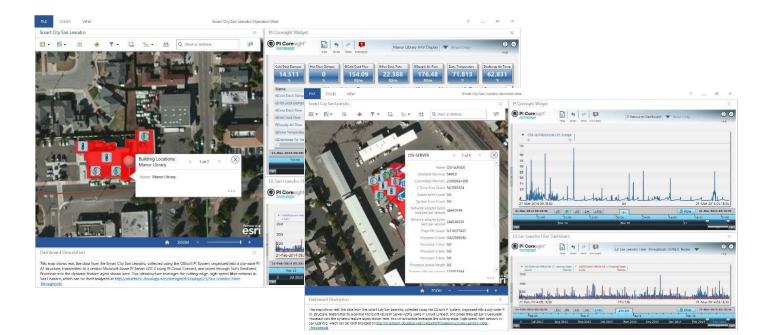


What are Cities doing with PI System & ArcGIS

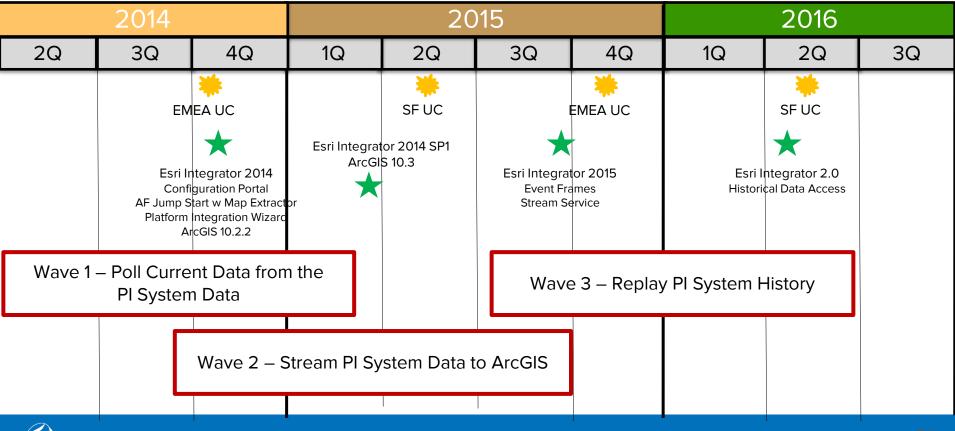
- Facilities
- Mobile Assets
- Utilities
 - Power
 - Water
 - Gas
- Environmental Monitoring
 - Air quality
 - Noise levels



Facilities & Energy Management



PI Integrator for Esri ArcGIS - Roadmap



PI Integrator for Esri ArcGIS

- 1. Configurable Integration
- 2. Deliver real-time data across the organization on any device, any app, any time
- 3. Designed for non-technical users
- 4. Increase speed of deployment
- 5. Global support at enterprise scale
- 6. Greater agility to meet evolving business need

Bringing Space and Time Together



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Questions

Please wait for the microphone before asking your questions

State your name & company





