



ROVISYS[®]

Automation & Information Solutions

AVEVA | SELECT
CALIFORNIA

Agenda

1

Introductions

2

The PI System

3

How You Can Be Successful

4

Success Stories and Q&A



Who Am I?



Peter Forney

Group Manager

14 years with RoviSys

Focus on OT Data Infrastructure,
Advanced Analytics, and Digital
Transformation

Globally Located

North America



- Aurora, OH
- Holly Springs, NC
- Southborough, MA
- Atlanta, GA

- Houston TX
- Thousand Oaks, CA
- Kalamazoo, MI

Europe



Netherlands | Ireland

Asia Pacific



Singapore | Taiwan | Indonesia | Malaysia



13

Locations



1200+

Employees

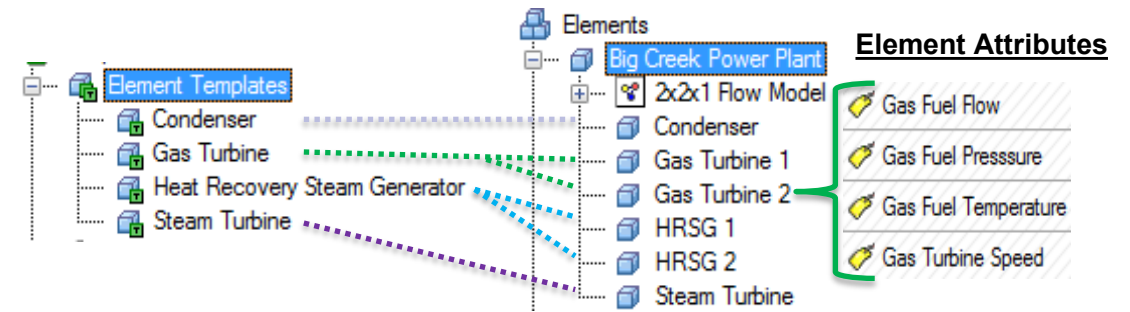
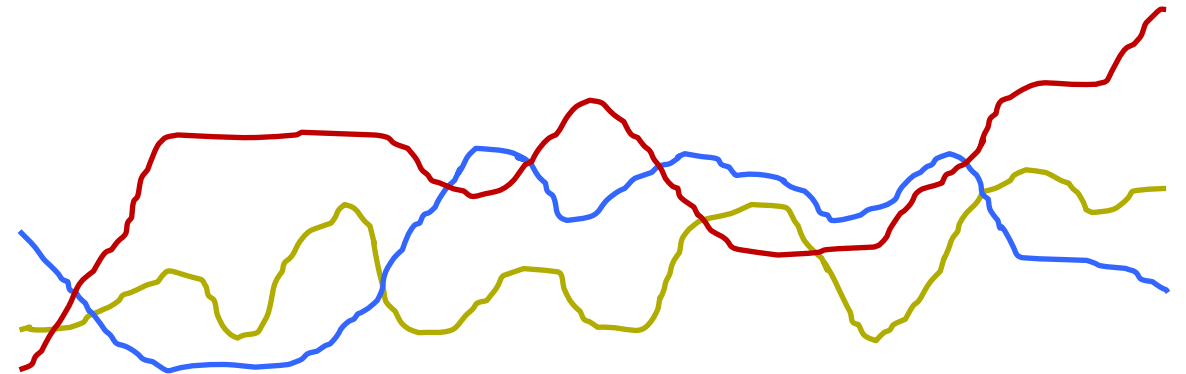
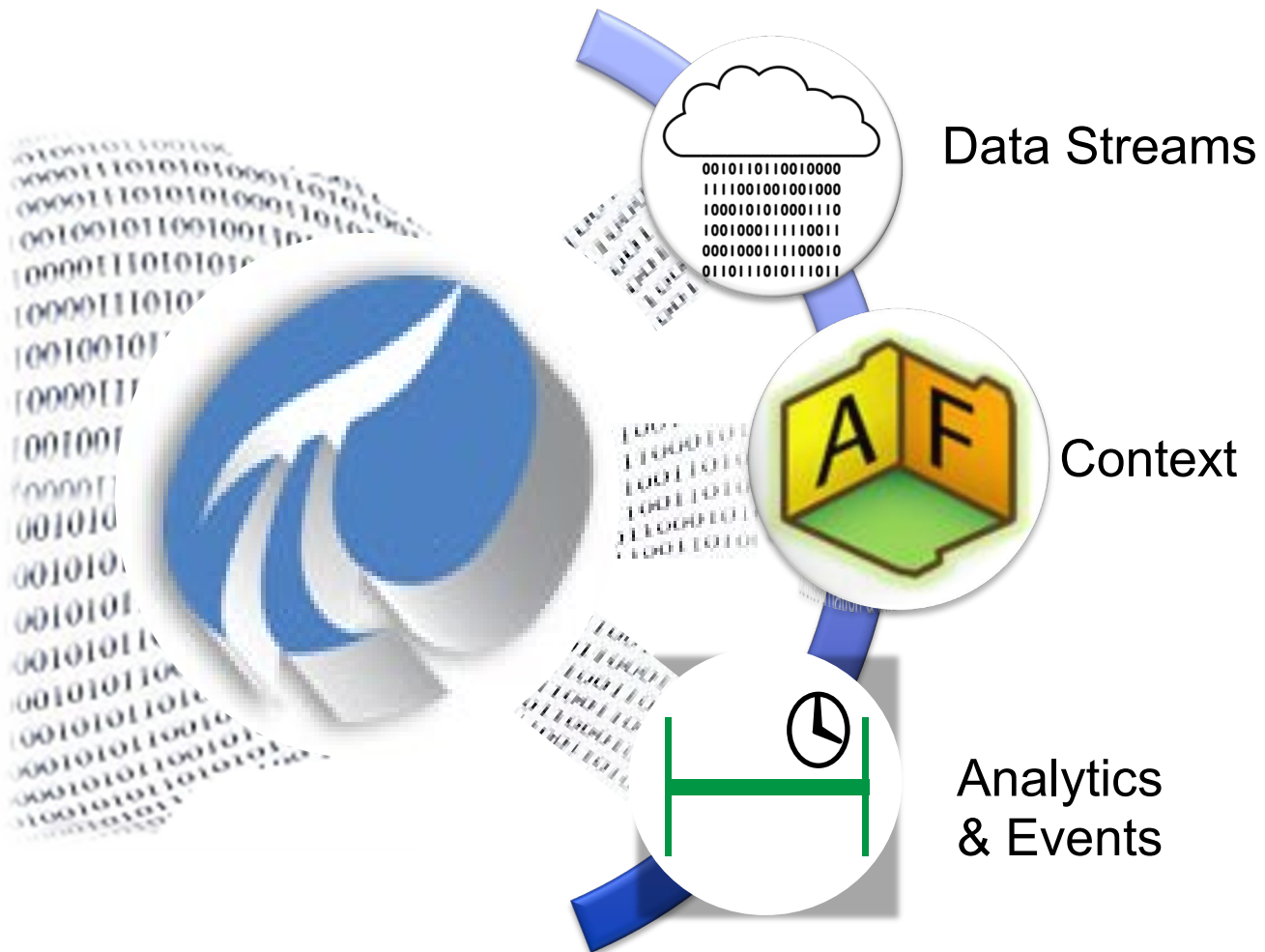


\$220MM+

Revenue

The PI System

And Keys to Success



Downtime

Startups

Shutdowns

Process Excursions

Shifts

Environmental Excursions

Event Frame Attributes

- Pressure.Avg
- Product Loss
- Reason Code
- Temp.Max



Plan to scale

Collect all the data you can

Embrace the PI System

- ▶ What is your network & server architecture?
- ▶ How will it grow and change over time?
- ▶ Leverage best practices
 - ▶ Tag Naming Standards
 - ▶ Redundancy
 - ▶ Templatize equipment





- ▶ It's difficult to predict what you will want in the future
- ▶ Storage is cheap
- ▶ Think beyond traditional data sources
 - ▶ Weather
 - ▶ Lab
 - ▶ Field
 - ▶ Meter
 - ▶ Costing

- ▶ Use it!
- ▶ Train your team
- ▶ Integrate PI into your operations



How You Can Be Successful

Program Management and Governance

- ▶ Identify Use Cases
- ▶ Understand your prerequisites
- ▶ Focus on solving the problem
- ▶ Formalize the value proposition
 - ▶ Be sure to highlight your successes



Choose a Champion



- ▶ A single point of ownership
- ▶ Set them up for success
- ▶ They can and should advocate for the PI System

- ▶ You can't do everything
- ▶ Avoid Analysis Paralysis
- ▶ "A good plan [aggressively] executed now is better than a perfect plan executed next week." ~ George Patton





- ▶ You don't need to be the expert in everything
- ▶ Leverage outside experience
- ▶ **But you can't outsource everything!**

Transform your Culture

- ▶ Organizational Change Management
- ▶ Communicate
- ▶ **This can be disruptive!**



Digital Transformation Success Stories



The Problem



Our Solution



Project Result

LADWP was struggling with a lack of visibility into the state of their assets and overall performance and lacked good data to support engineering improvement efforts. They embarked on digital transformation journey to modernize how they collect and utilize operational data across the organization.



Problem

Limited visibility into asset and reservoir performance. The data they did have was buried and difficult to access.

They implemented a PI Historian and embarked on a training and use case generation journey

Solution



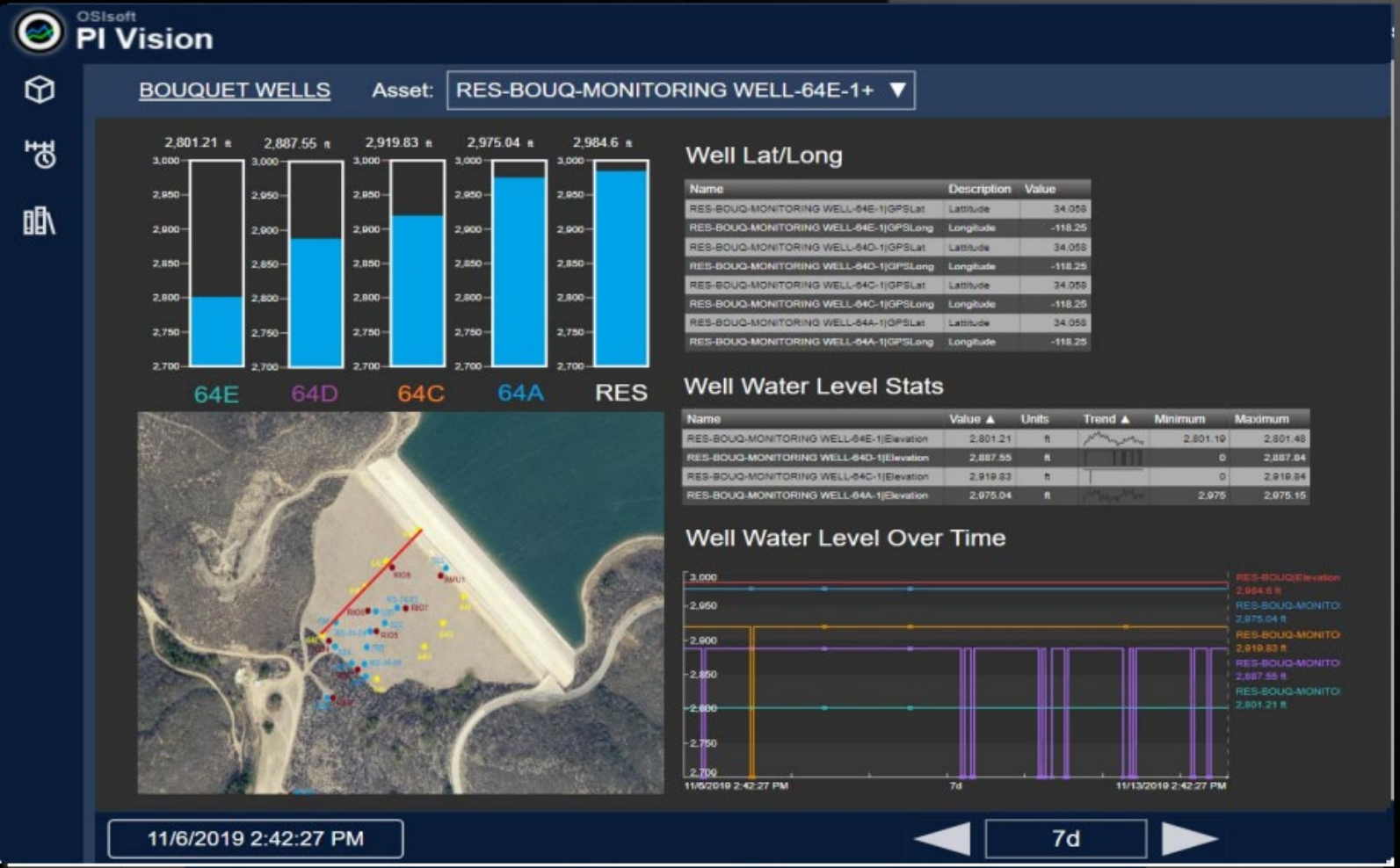
Result

Created over 120 use cases for the PI system across the and implemented 5 use cases as part of a pilot

LADWP
Success Story

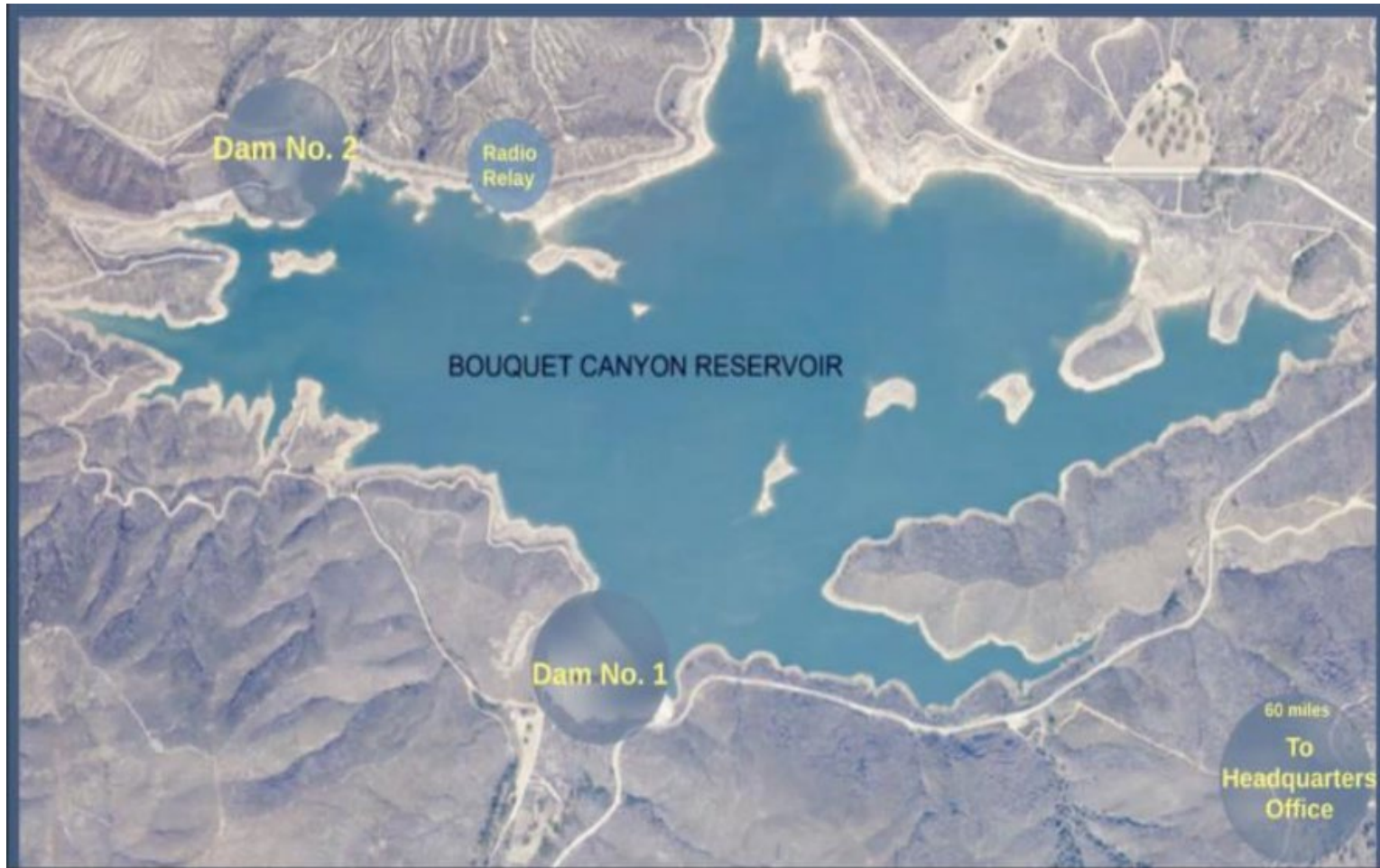
LADWP

Well Monitoring



LADWP

GIS & Maintenance Integration



The Northeast Ohio Regional Sewer district was swamped in disparate information silos. They turned to the PI system as an enterprise-wide single source of truth across the organization. This centralization had the added benefit of improving operations visibility and reducing report compliance time.



Problem

Difficulty sharing information and reports in a coordinated fashion from their regional treatment plants

Implemented the PI system as centralized data infrastructure and single source of truth.

Solution



Northeast Ohio Regional Sewer District

Success Story



Result

Drastically reduced the complexity and effort to generate reports and reduced the number of data silos



THANKS!

Any questions?

You can find me at Peter.Forney@rovisys.com