Westin Technology Solutions & *e*RIS
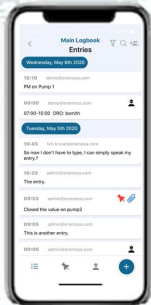## Tim Kruse – Vice President / eRIS Group Leader
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advancing the science of water®

Background

- **eRIS** is a **Data Hub** and Web Application that gives clients tools to **Manage**, **Analyze**, and **Visualize** enterprise data.

- 90+ customers

Customers of All Sizes

Large
- Denver Water
- City of Minneapolis
- NEORSD (Cleveland OH)
- City of Toronto

Medium
- City of Grand Rapids
- Bonita Springs Utilities
- City of Fort Wayne
- Orange County (FL)

Small
- Saginaw (MI)
- Fairfield-Suisun (CA)
- Petoskey (MI)

Problem Statement

The Water Industry and Utilities have a **DATA** problem.
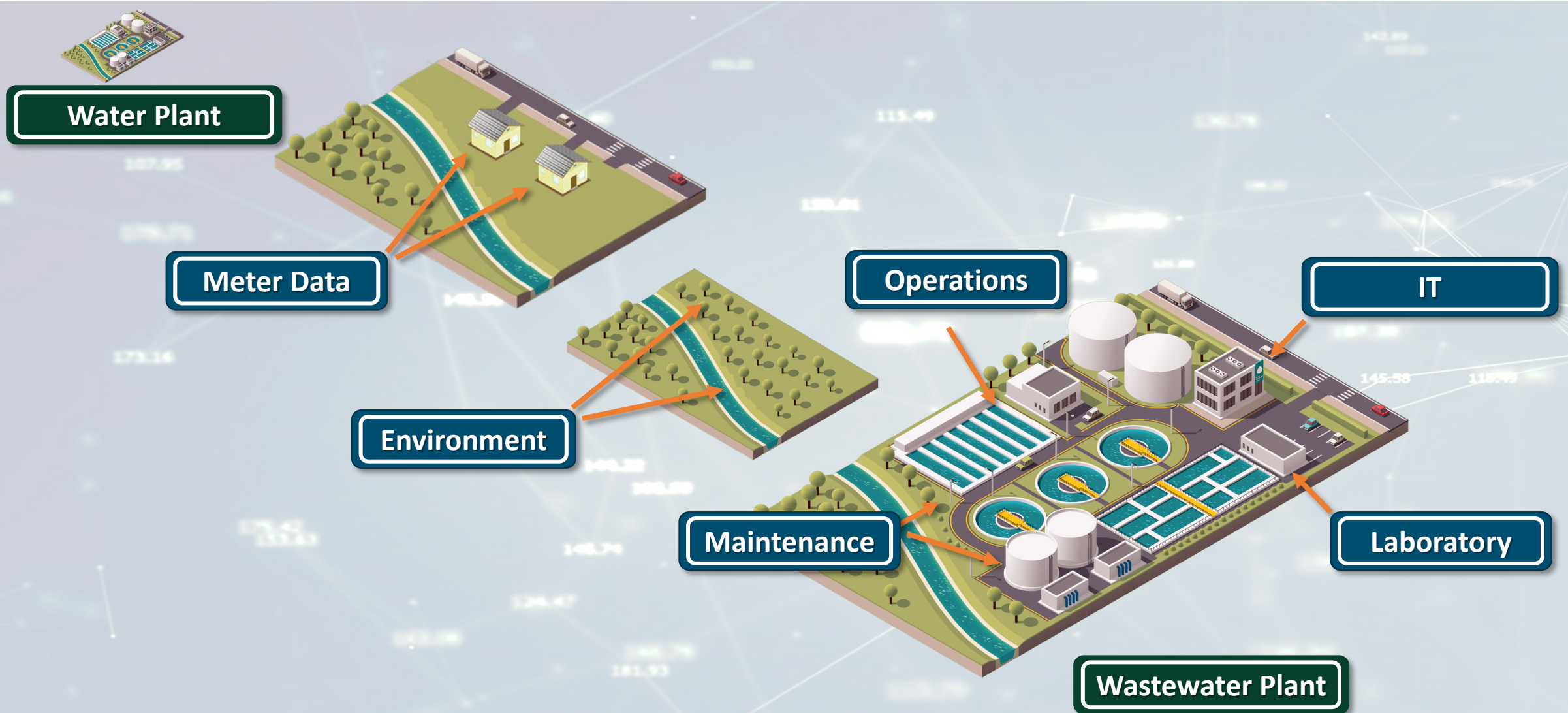
- Too much *or* wrong data collected

- Silos

- New sources

- Limited tools

Utilities have access to vast amounts of data,
but few use it in a significant way.

The Solution
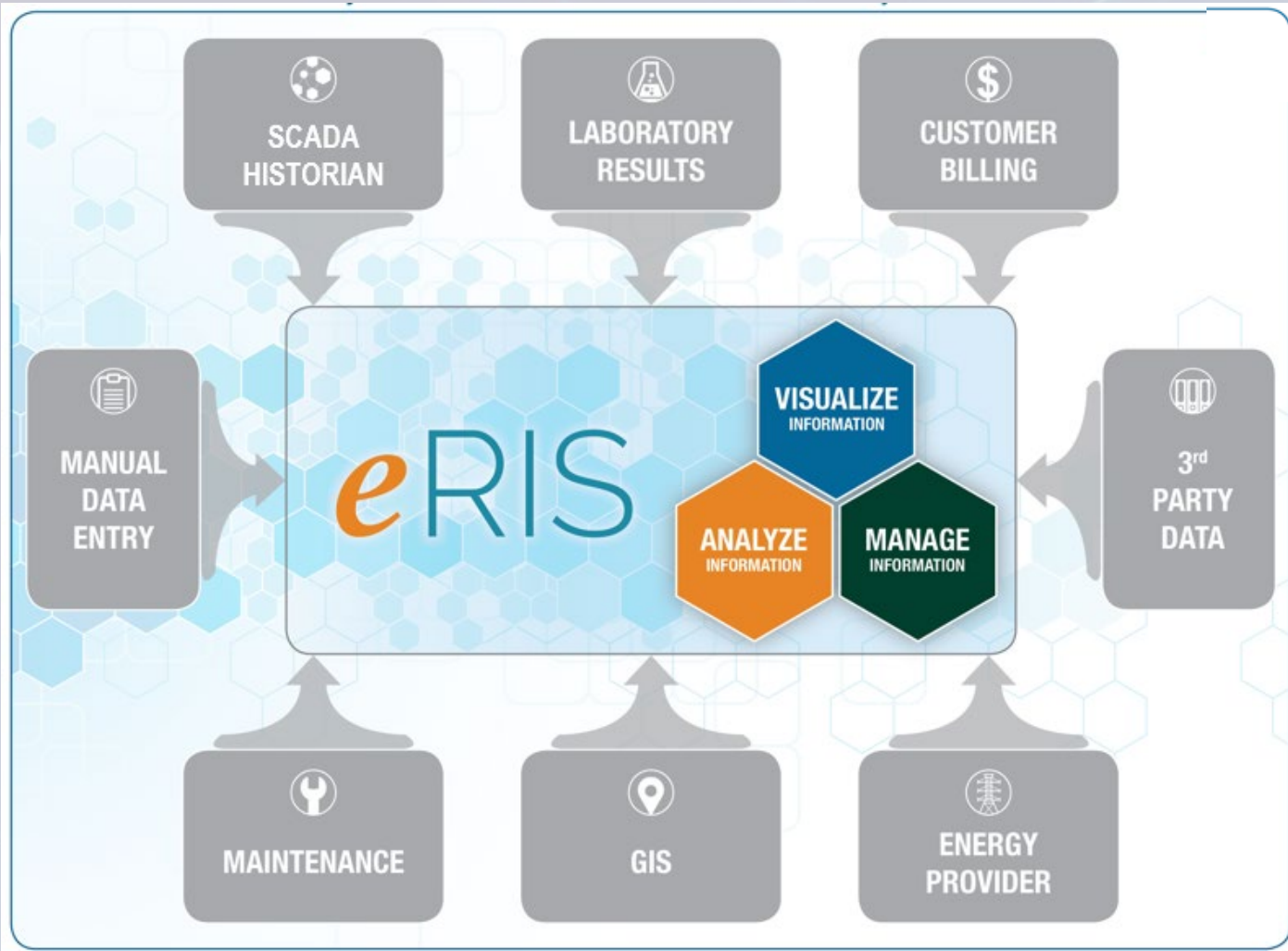
4 Steps to Achieve the Digital Promise

1 – Connect Everything

1 – Connect Everything

Benefits

🔒 **Connect with Security**
- On premise
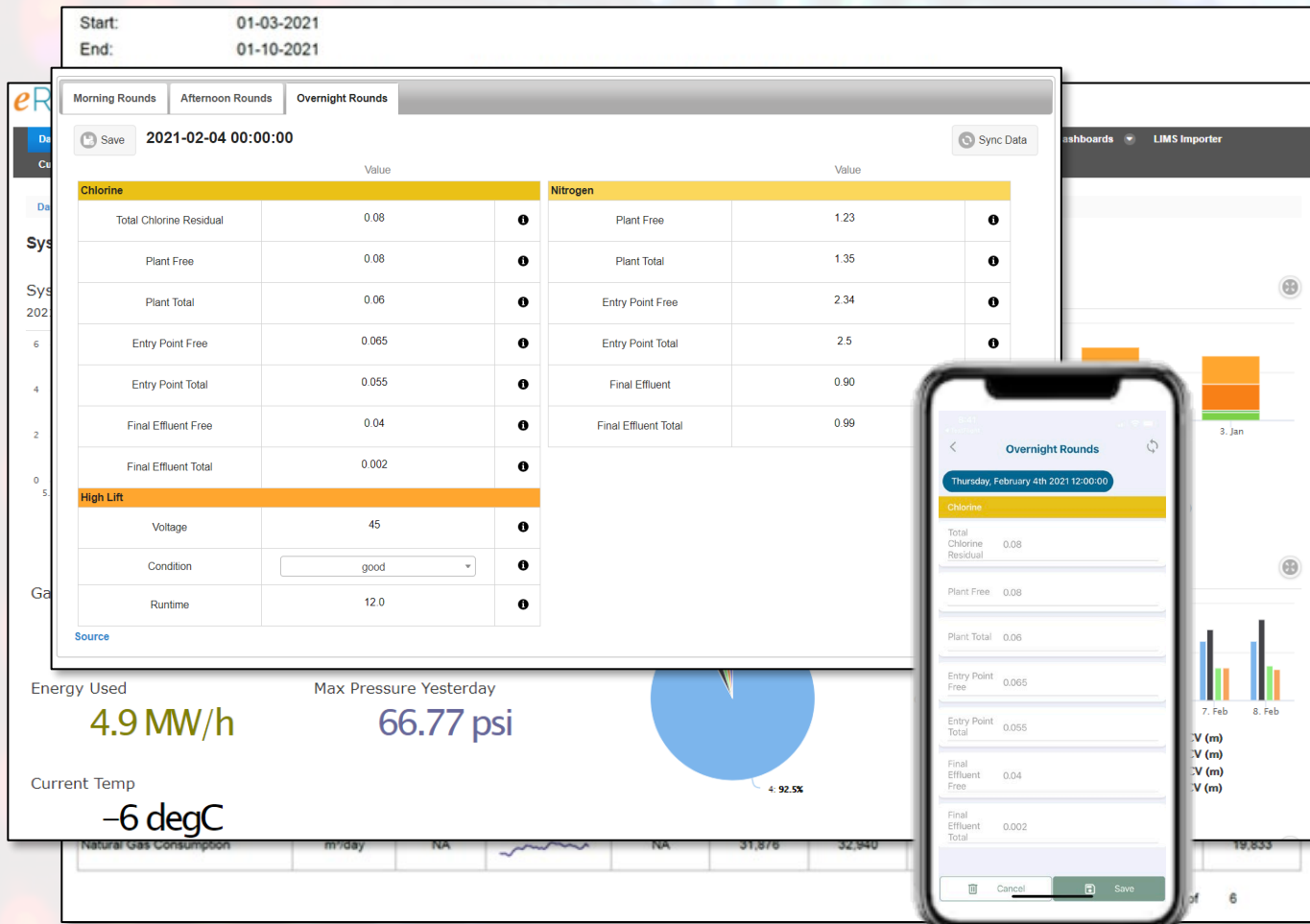- Read-only
- Controllable access rights

• **Low Risk**
- Dozens of industry connectors
- No data warehouse
- No data ownership disputes
- Easily expandable

• **Fast Deployment**
- 1-2 Days
- Immediate results

2 – Take Control of your Data

Benefits

- **Add Focus with Dashboards**
  - Cut through the noise of data overload
  - Combine data from siloed systems
  - Limitless combinations and designs

- **Take Charge of Manual Data Entry**
  - Replace Excel "hell"
  - Store data in secure database
  - Extend reach through mobile app

- **Automate Reporting**
  - Remove manual touches of source data
  - Flexible delivery methods
  - Online Approval workflows

2 – Take Control of your Data
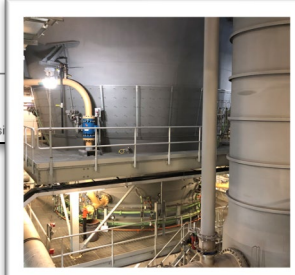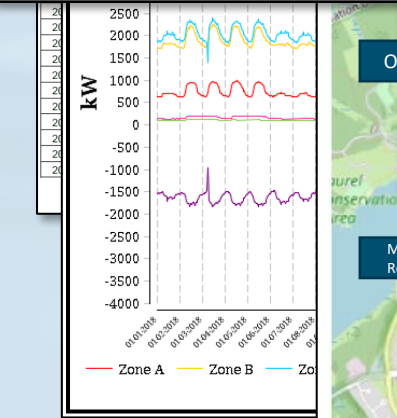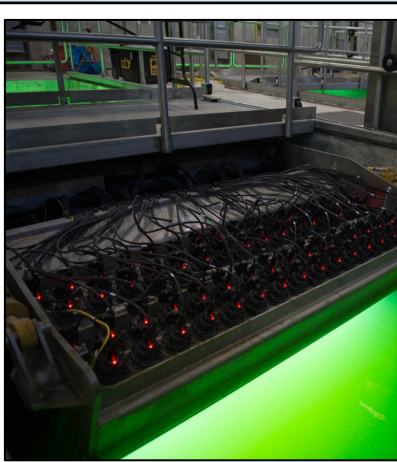

Benefits

- **Achieve Self-Serve Data Mart**
  - Saved queries & trends
  - Report library
  - Multiple websites

- **Capture Operator Logs Digitally**
  - Meet regulatory & compliance guidelines
  - Expand operational awareness
  - Web & Mobile Applications
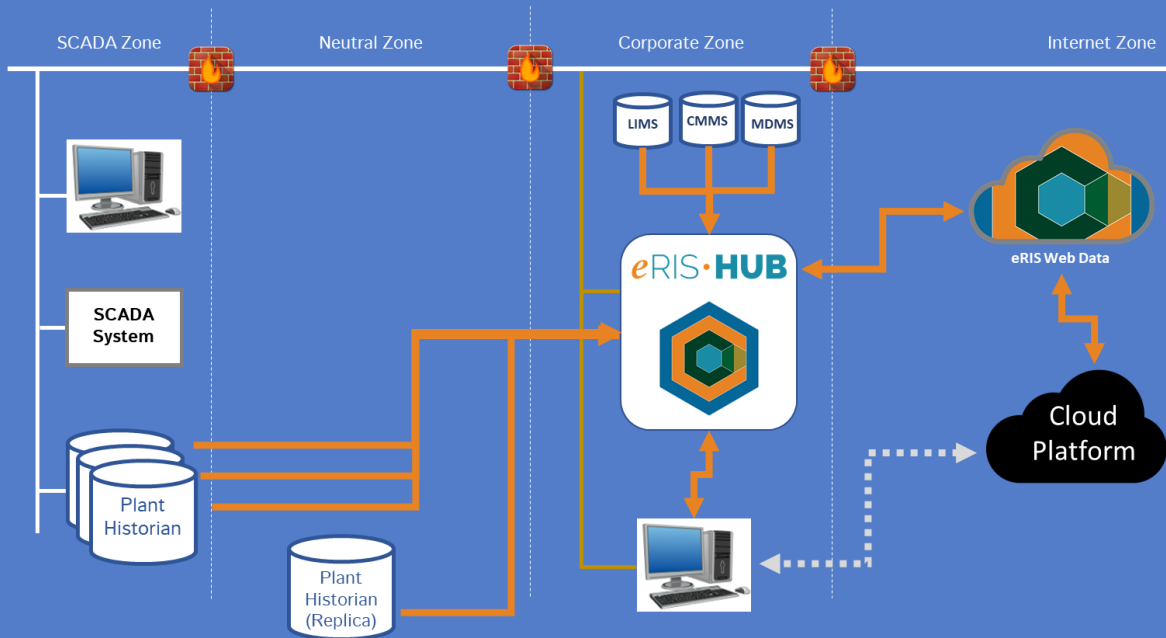
3 – Use Data to Drive Operational Decisions

Benefits

- **Monitoring Events**
  - UV lamp replacement triggered WOs
  - Plant incineration autogenous burn control

- **Manage by Exception**
  - Track Key Performance Indicators
  - Documented feedback loop
  - Integrated workflows

- **Analyze & Visualize Information**
  - Energy Management
  - Water Balance
  - Leak Detection

4 – Move from Reactive to Predictive

eRIS·HUB // Cloud Platform Integration

Benefits

- **Leverage Predictive Algorithms**
  - Powerful calculation engine
  - Combine data from all systems
  - Limitless possibilities

- **Extend to Cloud-based Tools Easily**
  - Normalize data sets
  - Validation
  - Merge data
  - Augment or fill gaps
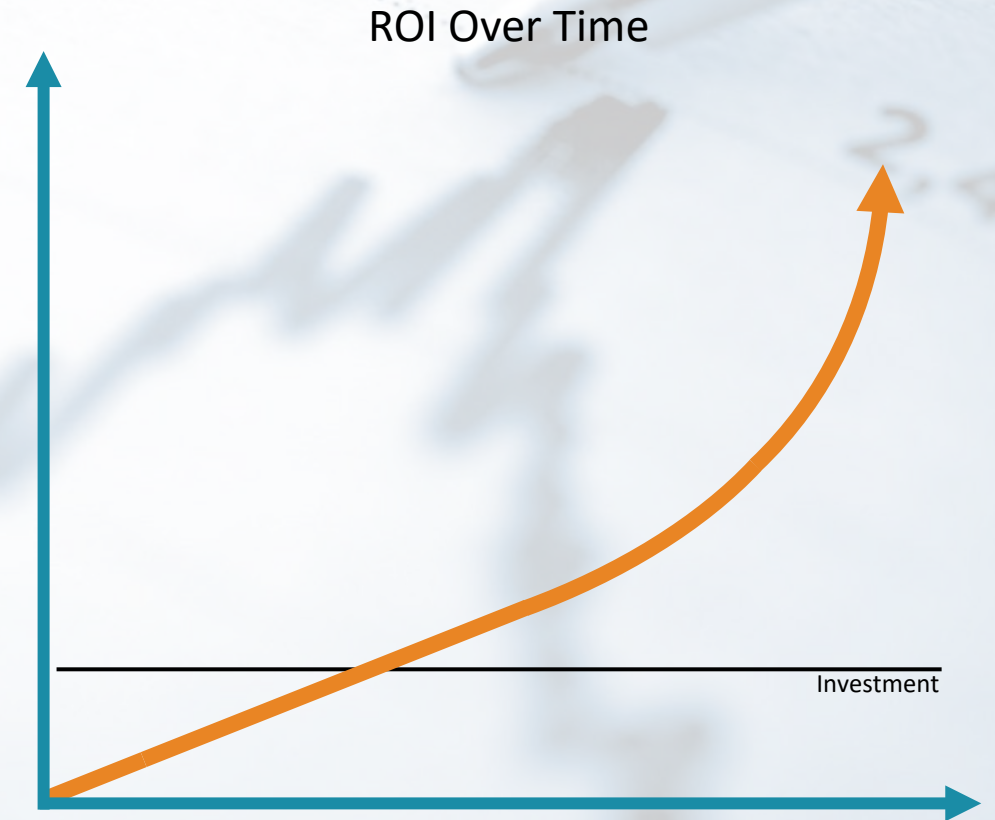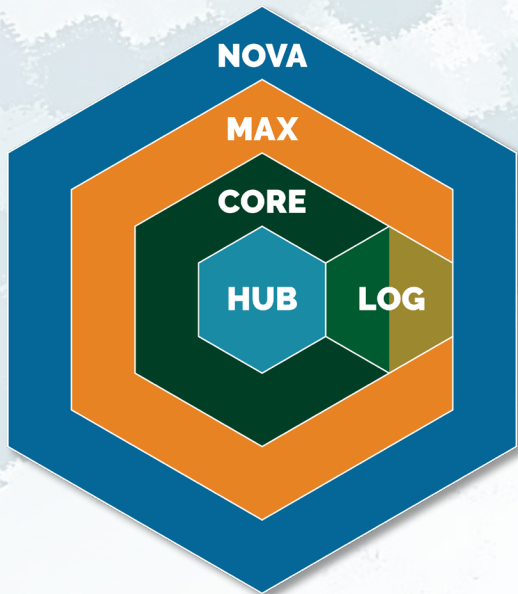 - Built-in tools for secure data sharing

Return on Investment

eRIS

1 – Connect Everything

2 – Take Control of your Data

Foundational to ROI

3 – Use Data to Drive Operational Decisions

Quickly Realize ROI

- Save time

4 – Move from Reactive to Predictive

Significantly Build ROI

- Reduce mistakes

- Reduce OPEX costs

Exponential ROI

- Build confidence

- Reduce OPEX

- Influence CAPEX cost

- Optimize CAPPEX

- Reduce GHG emissions

- Sustainability

ROI Over Time

Investment

Product Alignment

	Step 1 *Connect*	Step 2 *Control Data*	Step 3 *Data Driven*	Step 4 *Predictive*
eRIS·HUB	✔			
eRIS·LOG		✔		
eRIS·CORE	✔	✔		
eRIS·MAX	✔	✔	✔	✔
eRIS·NOVA	✔	✔	✔	✔

Our Uniques

eRIS

Speed of Installation

Shorter projects, with less IT involvement, reduce risk with faster ROI

Our Customers are Our Partners

Collaboration with our Water Partners drives product direction and builds mutual success

From Operator to Executive

Everyone can connect to the information they need using a familiar interface
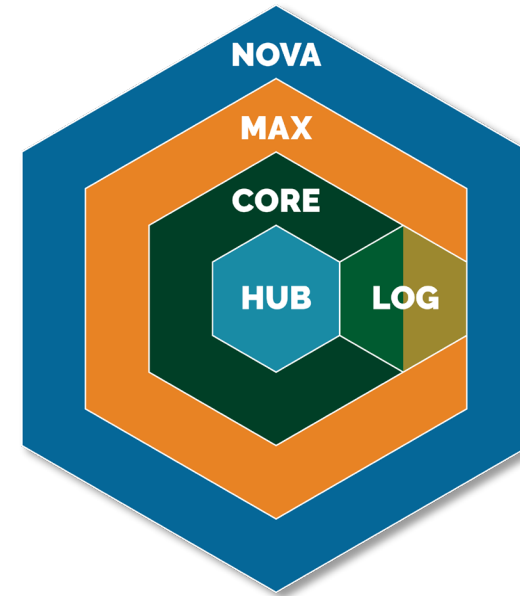
How can WRF Help?

- Utility Partners interested in developing advanced analytics

- Cloud-based AI/ML or other vendors with data intensive tools

- Regional Utilities who struggle with secure data sharing

Advanced Analytics	Cloud / On-Premise Collaboration	Regional Partner Cooperation
• Filtration • Aeration • Biosolids • Stormwater	• No/low-cost pilots • Quick and easy setup • Library of industry connectors • Proven summarization, aggregation, and cleansing tools	• Bidirectional data sharing • Security concerned • Flexible sharing architectures

Questions?

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