



# WELCOME

# Water & Facilities Management

Gary Wong, Industry Principal, Global Water  
Scott Smith, Industry Principal, Facilities & Data Centers



# Housekeeping Notes

Please silence your cell phones and limit your conversations



# PARTNER & PRODUCT EXPO

Today's Expo Hours  
10:00 AM – 7:00 PM  
Golden Gate and Yosemite



# GET READY FOR DAY 3 !

## HILTON

- Opening Session & Product Track
- Best Practices Track
- Partner Marketplace Showcase

## PARC 55

- Developer Track & Tech Talks
- PI Security Workshop – Not just for Security Gurus!

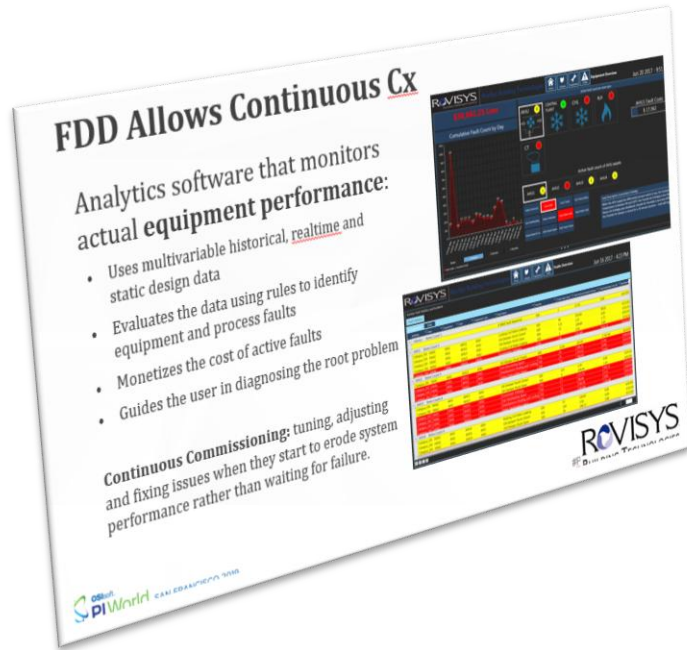


# TRAINING LABS START TOMORROW

All labs require pre-registration

*Check the back of your badge for room locations  
and visit the registration desk with any questions!*

# Rovisys and Auros Group



**FDD Allows Continuous Cx**

Analytics software that monitors actual equipment performance:

- Uses multivariable historical, realtime and static design data
- Evaluates the data using rules to identify equipment and process faults
- Monetizes the cost of active faults
- Guides the user in diagnosing the root problem

**Continuous Commissioning:** tuning, adjusting and fixing issues when they start to erode system performance rather than waiting for failure.

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**ROVISYS**  
Real-time Performance Insights

Derek Drayer – Rovisys  
Craig Stevenson – Auros Group

## FDD and EA Modeling



# University of California Davis



Joe Yonkoski  
Nico Fauchier-Magnan

## Sustainable Innovation

# NASA, JACOBS and SAS

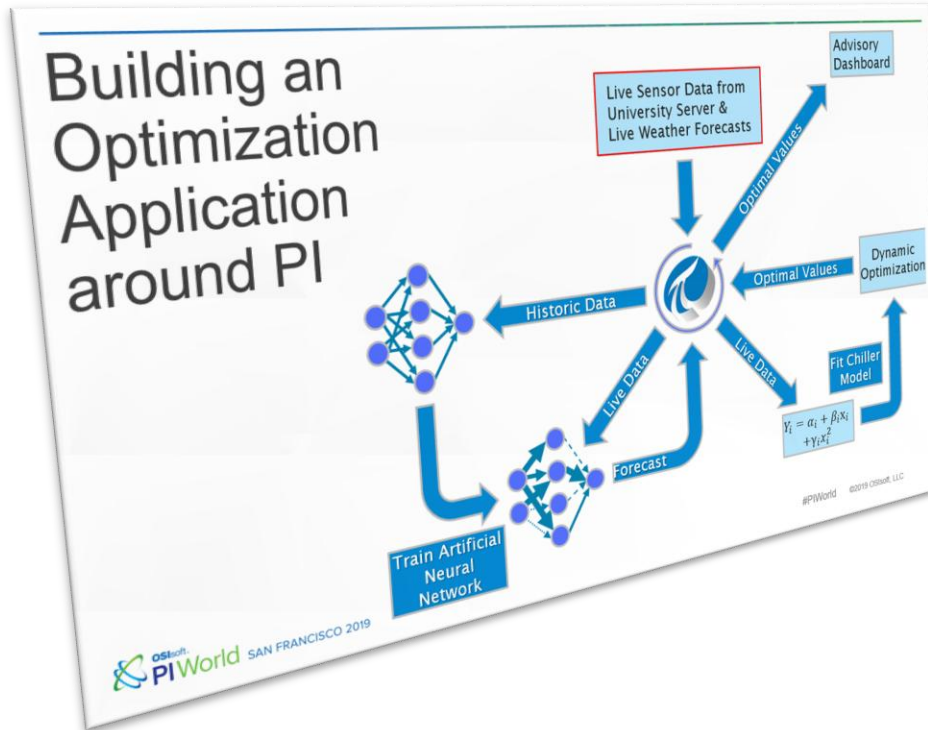


Robert Poche – Jacobs  
Abel Henson – NASA

## Predictive Analytics



# The University of Utah



Kody Powell, Ph.D.  
Pratt Rogers, Ph.D.

## Forecasting and Dynamic Real-Time Optimization

# California Water Service

Gary Winkler – Cal Water  
Greg Dumas – DST Controls

## Digital Transformation in Water Production

- SOX Compliance
- 30 reports automated into 1



**California Water Service**

- Largest regulated water utility west of the Mississippi
- Founded in 1926
- Grew to serve 484,900 residences and businesses throughout the state.

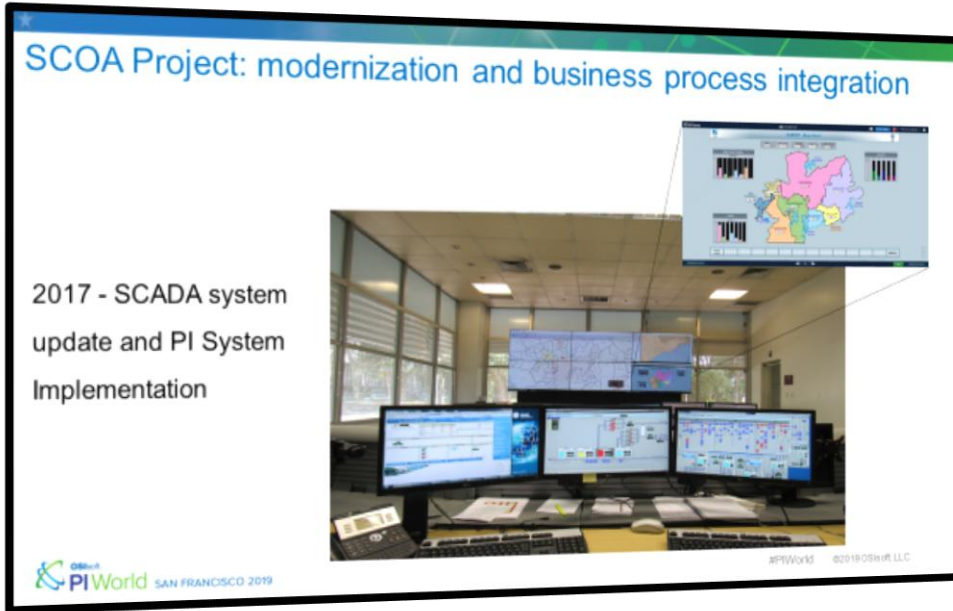
**Most Outstanding Water Project of 2018**

**Award from American Society of Civil Engineers**

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The slide features a map of California with various service areas labeled: Chico, Oroville, Marysville, Redwood Valley, Eureka, Ukiah, Northern Butte, Colusa, Central Office (San Jose), Colusa, Salinas, King City, Wasco, Kern River Valley, Bakersfield, Anaheim Valley, Westlake, East Los Angeles, and Rancho Dominguez. A circular logo for California Water Service is also present.



# Sabesp

Silvana Franco – Sabesp  
Diogo Ávila de Castro – IHM

## *Sabesp's SCOA Portal*

- One of the world's largest water and wastewater company
- Water security
- Transparency


# Great Lakes Water Authority

Betty Thomas – GLWA  
Ali Abdallah – GLWA

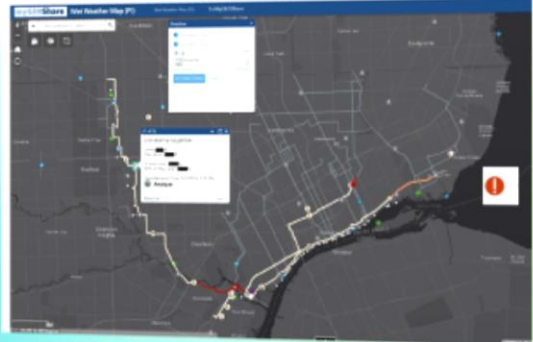
## *Real-Time GIS Data for Optimized Operations*

- GovTech 2018 Operations Award Winner
- Reduced main breaks
- Improve response times

### Sewer Services: Wet Weather Map



- Features:
  - Pop-up box with attribute information
  - Interceptor segments' capacity
  - Outfall sites discharging
  - Raining
  - Forecasted precipitation
  - Driving directions
  - Mobile app




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# BRK Ambiental

Marcia Sintra – BRK  
Wagner Ferreira – BRK

## *Dams Safety and Hydraulic Structure*

- 8x less time to collect and analyze data
- Reduced risk of dam over-topping
- Demo



BRK Ambiental PI Vision

- It allows an analysis of the historical of the behavior of the structure supporting in the decision making.

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# Contact Info



**Gary Wong**

[gwong@osisoft.com](mailto:gwong@osisoft.com)

Industry Principal, Global Water  
OSIsoft



**Scott Smith**

[ssmith@osisoft.com](mailto:ssmith@osisoft.com)

Industry Principal, Facilities @ Data Centers  
OSIsoft



謝謝 KEA LEBOHA  
 TAPADH LEIBH 고맙습니다  
 БАЯРЛАЛАА MISAOTRA ANAO  
 DZIĘKUJĘ CI NGIYABONGA TEŞEKKÜR EDERIM GRACIES OBRIGADO شكرا SALAMAT  
 DANKON TANK TAPADH LEAT  
 KÖSZÖNÖM DANKIE TERIMA KASIH GRACIES  
 СПАСИБО  
 PAKMET CIZGE  
 GO RAIBH MAITH AGAT  
 БЛАГОДАРЯ GRACIAS MAHADSANID  
 TI БЛАГОДАРАМ  
 TAK DANKE MAHANSANID  
 RAHMAT MERCI  
 HATUR NUHUN  
 GRAZZI ПAKKA PĒR  
 PAXMAT САГА  
 CẢM ƠN BẠN  
 WAZVIITA  
 FALEMINDERIT  
 TI БЛАГОДАРАМ  
 СИПОС  
 DANK JE EΥΧΑΡΙΣΤΩ GRATIAS TIBI  
 AČIŪ SALAMAT MAHALO IĀ 'ŌE TAKK SKALDU HA  
 GRAZZI ПAKKA PĒR  
 PAXMAT САГА  
 SIPAS JI WERE TERIMA KASIH  
 UA TSAUG RAU KOJ  
 TI БЛАГОДАРАМ  
 СИПОС  
 MULȚUMESC  
 HVALA FAAFETAI  
 ESKERRIK ASKO  
 HVALA ХВАЛА ВАМ  
 TEŞEKKÜR EDERIM  
 GRAZIE  
 DI OU MÈSI  
 ĎAKUJEM  
 MATUR NUWUN



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THANK YOU