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# Power and Electric Utilities Track Introduction

AVEVA

# Power & Utilities Industry Team

P&U Industry Lead



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Power & Utilities

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Consulting





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THANK YOU TO  
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EXHIBITORS

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ProcessInnovations  
ProcessPlugins

PROCESSVUE  
Alarm Management Without Limits

RiTECH  
SOFTWARE

SeQent  
Real-Time Decision Solutions

Software  
toolbox

Stratus

7ipi

WIN-911  
THE MOST WIDELY USED ALARM NOTIFICATION  
PLATFORM FOR INDUSTRY AND HET



# DOWNLOAD THE MOBILE APP

Search “Attendee Mobile” in the app store  
and select “AVEVA World 2022”

**SHARE YOUR EXPERIENCES ON SOCIAL MEDIA**



**JOIN THE COMMUNITY  
AND #AVEVAWorld**



PI System Calculation Engine

- Replace PI ACE with established product
- Run custom code using PI data
- Visual Studio not required
- View calculation metrics

# JOIN US FOR OUR EXPO DINNER EVENT TONIGHT!

5:00 – 7:30 PM

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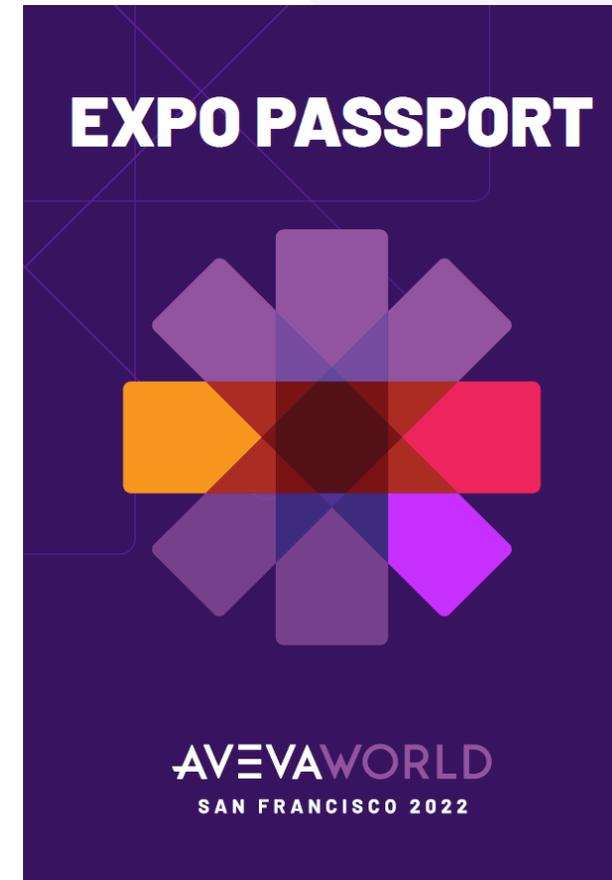
# VISIT OUR EXPO BOOTHS

LAST CHANCE TO BRING YOUR PASSPORT, GET STAMPS  
AND ENTER TO WIN A FREE TRIP TO AVEVA WORLD 2023

## EXPO HOURS

WEDNESDAY: 10:15 AM - 5:00 PM

THURSDAY: 10:30 AM - 3:30 PM



# Sustainability impact study

## Join us on this journey

AVEVA and Capgemini are partnering with customers to validate the digital solutions sustainability impact on plant operations.

If your company is interested in a free evaluation of sustainability KPI improvements, go to the expo and **ask about the sustainability study**.

### Expo Booth

- Energy transition & circular economy
- Capgemini (Partner Expo)



### Use cases

- Accelerate low carbon transition with process simulation
- Process and utility optimization
- Increase reliability and efficiency with predictive analytics
- Reduce waste and energy consumption with information and production management

### Metrics

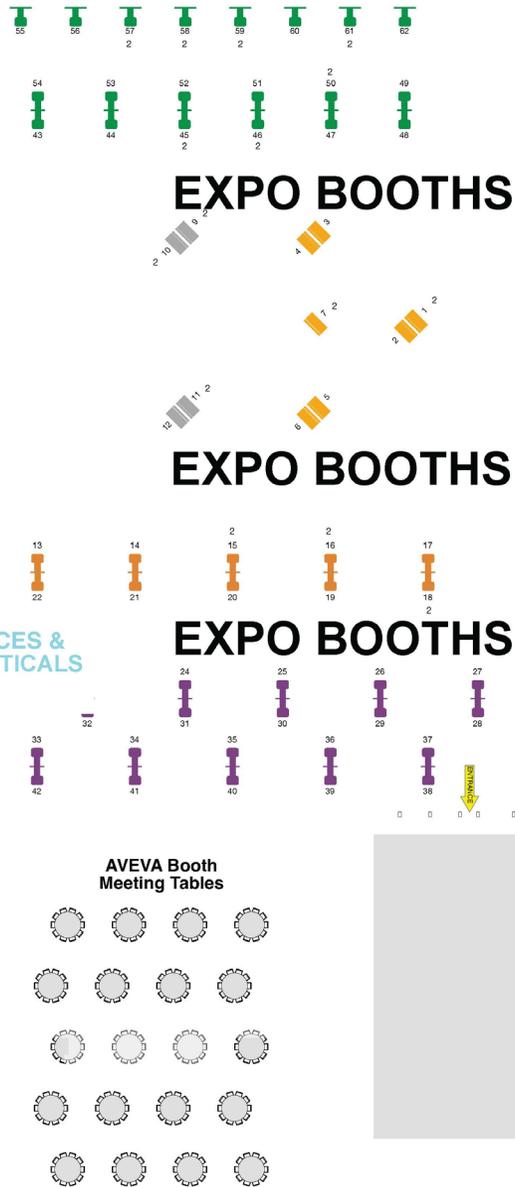
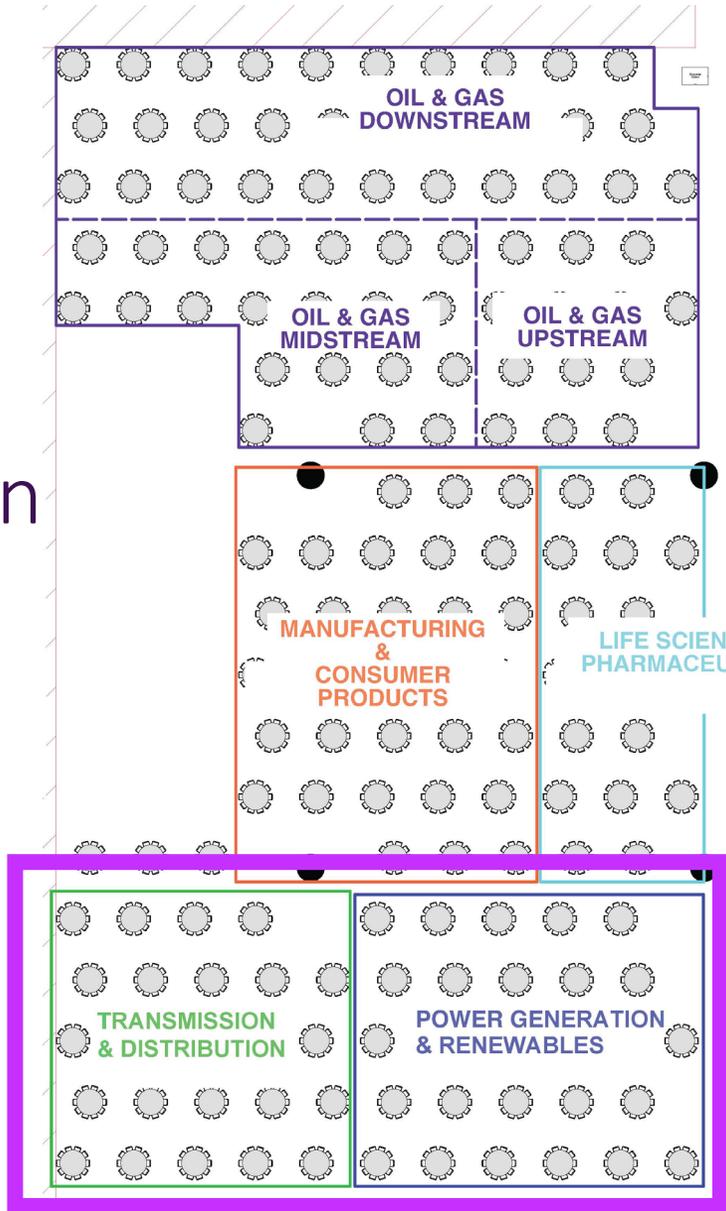
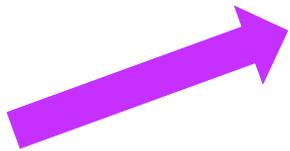
- GHG emissions
- Materials waste
- Energy consumption
- Water consumption

# Industry Areas – Expo Dinner Reception

Expo  
Dinner  
Reception

Industry  
Areas

Level 1



EXPO ENTRANCE

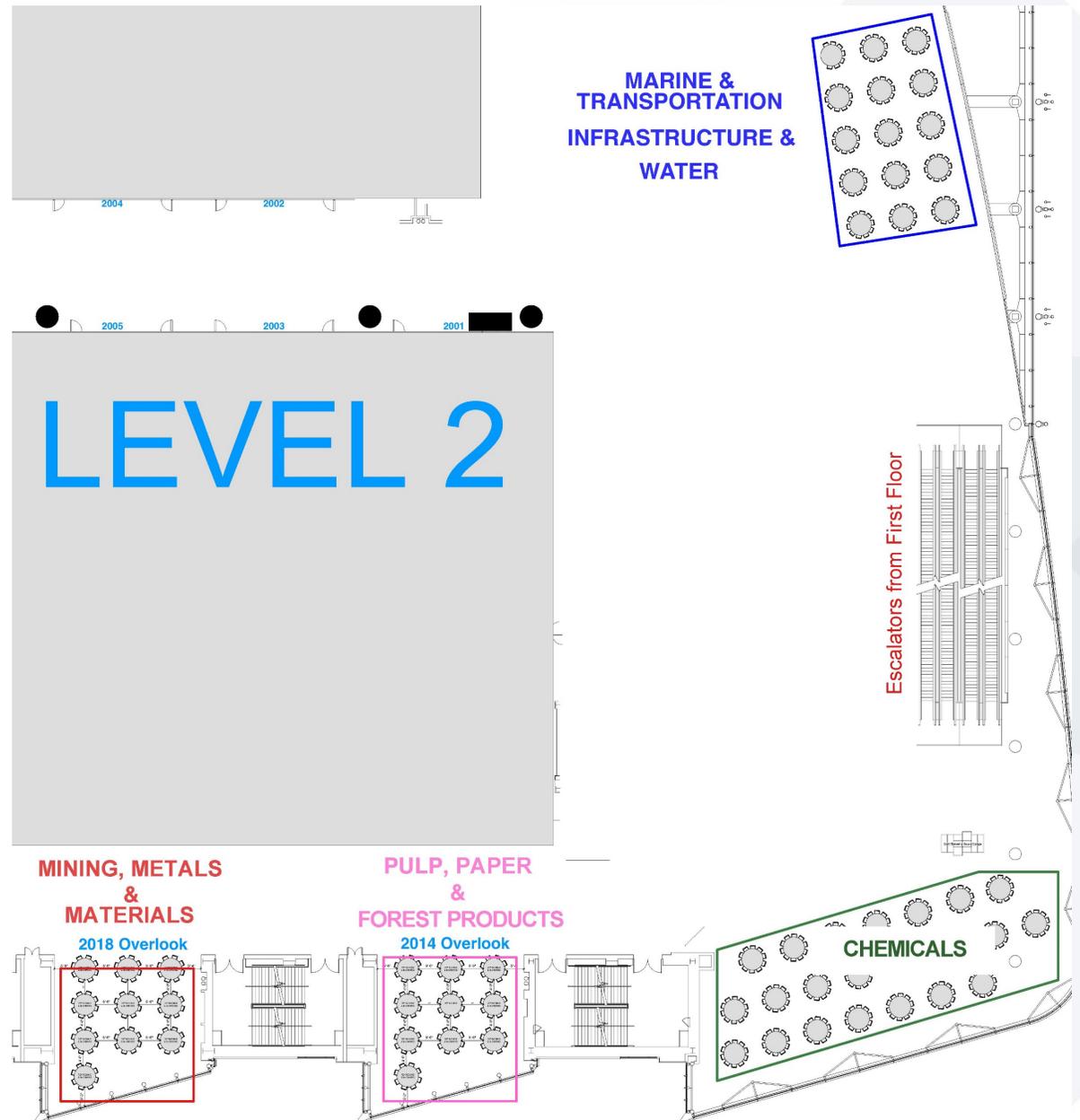
LEVEL 1

Exit

Expo  
Dinner  
Reception

Industry  
Areas

Level 2



# Questions?

Please wait for the microphone.  
State your name and company.



# Please remember to...

Navigate to this session in the mobile app to complete the survey.

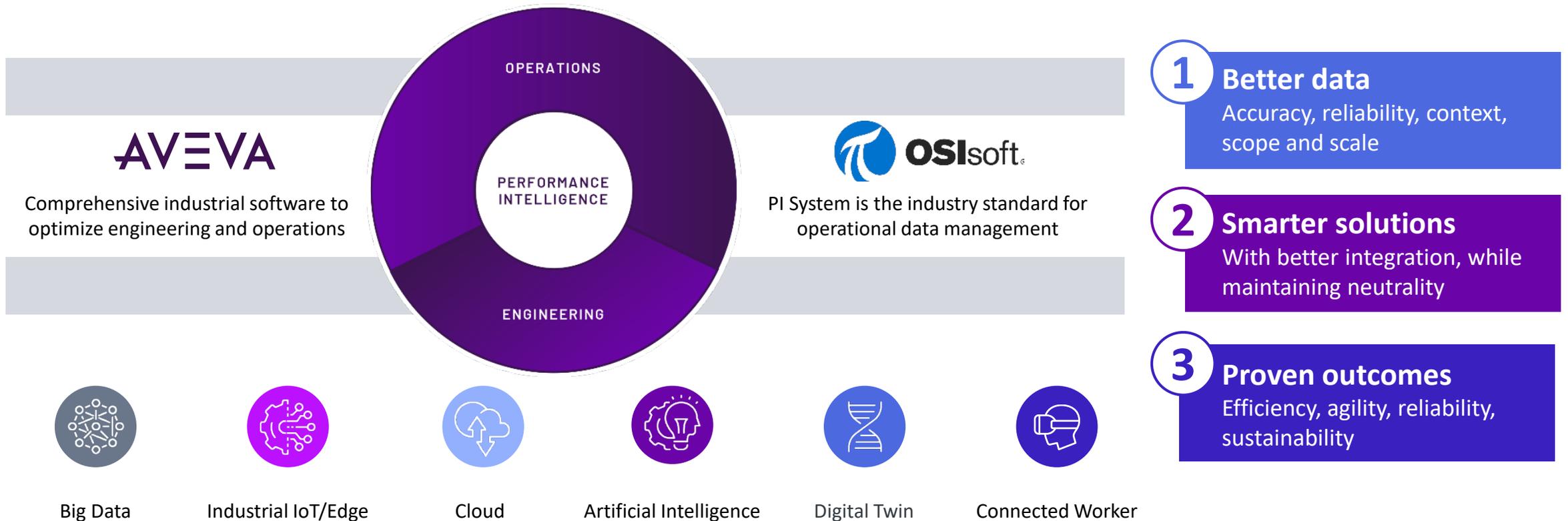


# Thank you!

*“EVERYTHING START WITH DATA.”*

# Bringing together two trusted, world-class software experts

Delivering end-to-end customer value with best-of-breed industrial software



# An Industry in Transition

## Structural Transformation

### Prosumer

- New consumer technologies are changing the physics of the electric distribution grid (Solar, wind, electric vehicles, energy storage)

### Regulatory Compliance

- State renewable Mandates,
- FERC Order 2222,
- US Infrastructure Bill,
- DNO to DSO in Europe/Global

### Global/Societal Trends

- Decarbonization & Electrification,
- Net-Zero Targets for 2050

## Digital Transformation

### Streaming “big data”

- 1M Meters with 7 tags, read at 15-minute intervals = 1B measurement reads/day
- Joined with disparate OT and IT data sources

### Data Management

- Alignment, normalization, asset relationships, etc..

### Data Governance

- Versioning, role-based security, traceability, etc.

### Real-time Actionable Information

- Enterprise-wide *single source of truth* containing the *best available data* with *configurable business analytics* to support *in-game* operational decisions

# TODAY'S AGENDA

## SPARK YOUR INGENUITY

Session	Time
Fire Safety Outage Management at Chelan County using Risk Mitigation and Forecast Alerts	10:55 – 11:20
Archiving Energy Utility Transmission Synchrophasor Data in the PI System with custom AF at PG&E	11:30 – 11:55
Past, Present and Future of Power Grid – CAISO Moving to Community Data Sharing	12:05 – 12:30
DGA - Duval's Triangle as Custom Symbol in PI Vision at Tenaga Nasional Berhad	14:00 – 14:25
CFB Simulation Success Story at NRG Energy	14:35 – 15:00
AI-enabled Online Monitoring and Diagnostics of Enel's Geothermal Power Plants	15:10 – 15:35
Innergex leverages AVEVA Operations Control to expand operations and growth in green energy	16:00 – 16:25
Idaho Power Uses PI System Products to Optimize Water Utilization Along the Snake River	16:35 – 17:00