

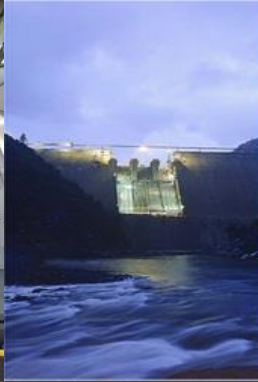


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PIWorld

GOTHENBURG • SEPT. 16 - 19, 2019





Power Generation Session Welcome & Agenda



David Thomason – Industry Principal, Global Power Generation
Rafael Maldonado – Technical Advisor / Industry Champion



The Data Opportunity and Challenge

How Do You Turn this Data in to Accessible and Valuable insights?

DAILY PRODUCTION

Current – 312 MWs Forecast – 340MWs

HRSG Performance

Draft Pressure: -0.5	Firebox Temp: 860°F
WC Stack Temp: 316°F	Outlet Temp: 840°F
Oxygen: 2.5%	Cold Oil Velocity: 6 ft/sec

ALERT!

Pump needs servicing in next 72 hours

WEATHER CONDITIONS

Relative Humidity: 34%
Current Temp: 85 °F High: 92 °F Low: 57 °F
Wind: 8 mph/N



With a Critical Operations Mindset...



**Pervasive
Connectivity
Across
Vendors**

And Make Operations Data an Asset Everyone Can Use in Real Time



Process Engineer



Control Room Tech



Production Manager



Data Scientist



Reporting Analyst



Maintenance Engineer

That's Why We Enable a Data Infrastructure Approach

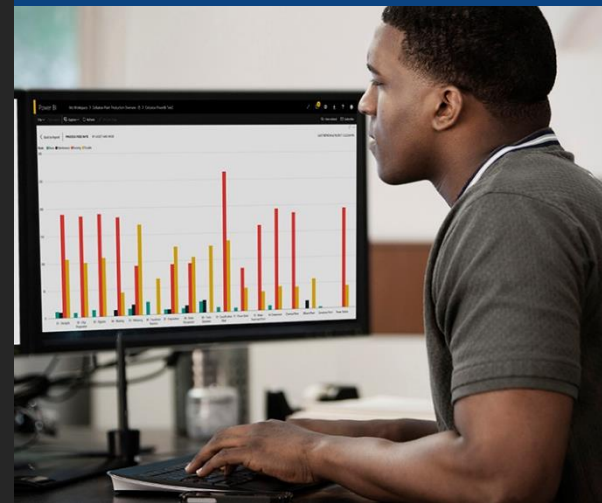
Situational Awareness Real-Time Dashboards



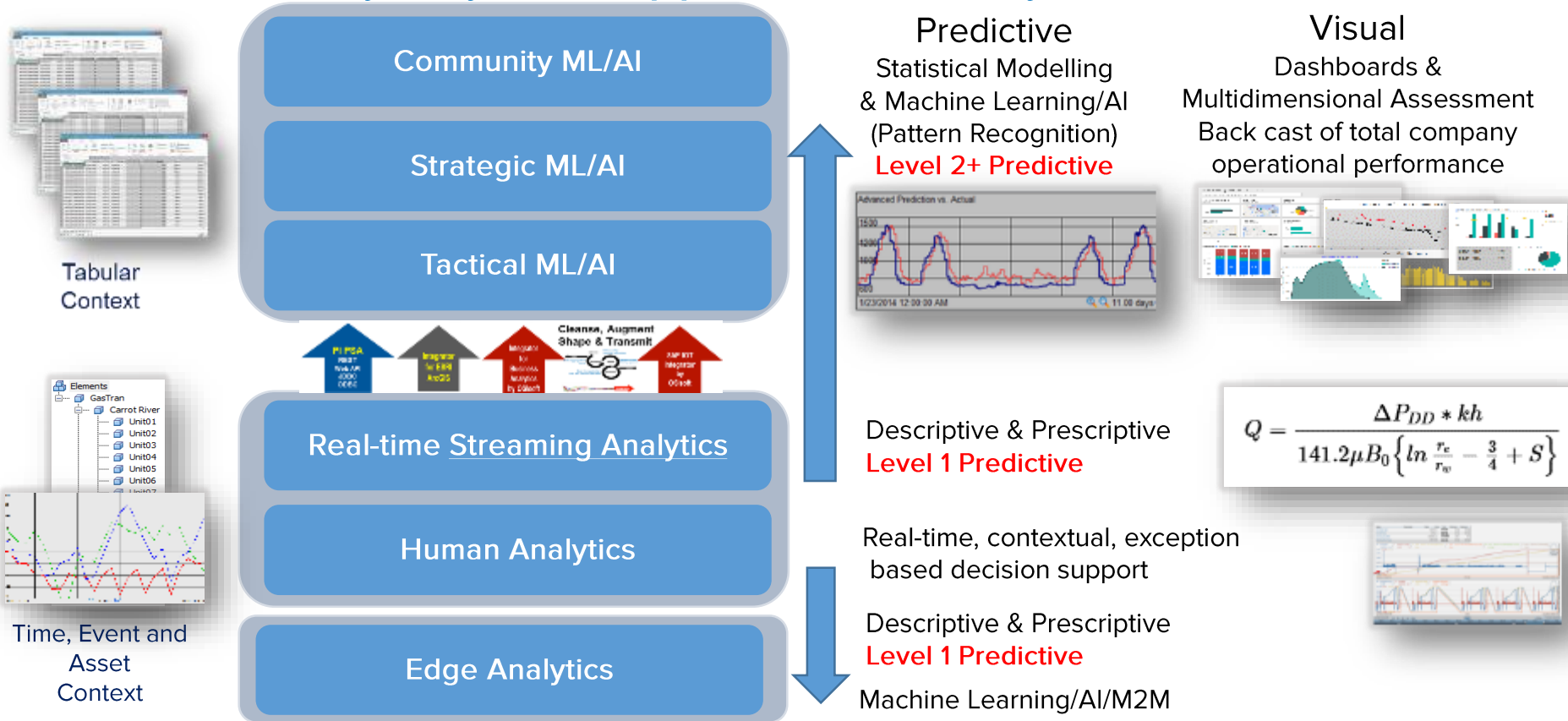
On Demand Exploration Ad-hoc analysis



Third Party Applications Fit for purpose application



An Evolutionary Layered Approach to Analytics



Smart Asset Objects – Configuring the Smart OT Infrastructure

It is time to get information Greedy!

A greatly enhanced digital copy with high business value

- Future data for forecasting
- Production schedule and measure deviations
- Incorporate Financial data, Co\$ of consumables, P&L calcs
- Real-time Contract and Regulatory Compliance KPIs
- Measure current performance vs best possible
- Streaming Analytics to transform data to information
- Event Framing for Starts / Stops, Runtime counters, Process Analysis
- Hooks into Python, R, and Matlab
- Supporting and supplying data for Level 2 Analytics APR, ML and AI

Gas Turbini

HRSG To

Generat

Generators

Smart
Applications

Physical Power
Gen Plant #2

Digital Power Gen
Plant #2

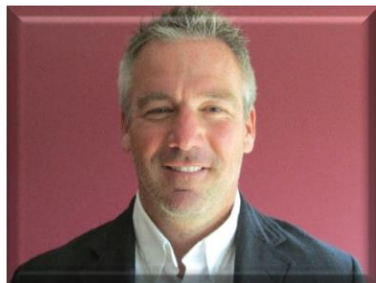
PG Smart
OT Infrastructure

Smart Application Template

OSIsoft Power & Utilities Industry Principals and Power Gen Champions



David Thomason
Global Power Generation



Kevin Walsh
Global T&D and Smart Grid



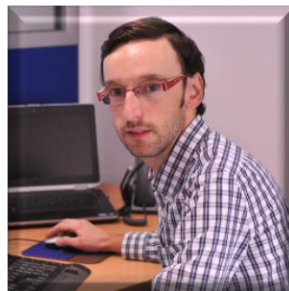
William E. McEvoy
Global DER and T&D



Gary Wong
Global Water



Jerry Weber
Industry Champion



Rafael Maldonado
EMEA Industry Champion

Anderson Amaral
LATAM Industry
Champion



Gold



Silver



Bronze



PARTNER & PRODUCT EXPO

Wednesday: Expo Hours 8:30-17:30



Day 3 TRACKS



- Best Practices
- Marketplace Partner Showcase
- Tech Talks





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- Join one of 16 user groups and collaborate with others in your industry
- Online course discussions
- Industry Asset Based Example Kits
- Ask questions, get answers
- Open to everyone
- It's all free



PI Square

The OSIsoft Community



PI Square
Groups



AF Community
Library



Get Support



White Papers



All Things PI

PI Developers Club

Online Courses

PUBLISHED EXAMPLE KITS

Mineral Processing

Wind Farm Monitoring

Calendar Techniques

Pump Condition Based Maintenance

Distillation Operation

Utilities Cost Management

Transmission & Distribution Substation Transformer Monitoring

Turbine Efficiency

Condition Monitoring

Oil & Gas Well Downtime Tracking

Mobile Asset Performance Monitoring

Transmission & Distribution Feeder Voltage Monitoring

Oil & Gas Well Drilling & Completion

Power Generation Load Forecasting

Hydro Plant Monitoring

Solar Plant Monitoring

Today's Agenda – Presenting this Morning



9:15am-10:00am EDF Renewables - The Epic of Turbine Downtime: Tracking, Automating, and Reporting



10:15am-11:00am EDP - Providing Power Generation Fleet Wide Real-Time Awareness and Key Decision Support via PI AF



11:15am-12:00am Uniper - Impacts across the Organization: Uniper's Digitization Journey with OSIsoft EA deployment

LUNCH – 12:00pm-1:45pm

Presenting this afternoon



1:45pm-2:30pm Engie - The Robin platform



2:45pm-3:30pm Statkraft - Condition Monitoring: Enabling Efficient Maintenance at Statkraft



3:30pm-4:00pm OSIsoft - What you need to know about the PI System, DERS and Cybersecurity

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FUSION

Wednesday

18:30 – 22:30

.....
**Follow the human arrows across
the street, starting at 18:20**
.....





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Questions?

Please wait for
the **microphone**

State your
name & company



Please remember to...

Complete the Survey!

Navigate to this session in
the mobile app for survey

