



Presented by Miguel Chavero – Industry Principal





OSIsoft Power and Utilities Industry Principals



David Thomason Global Power Generation



Kevin P Walsh T&D and Smart Grids

Chris Crosby Global Nuclear & Renewable Energy



Miguel Chavero EMEA Power and Utilities





William E. McEvoy Distributed Energy Resources

Gold Sponsors



Silver Sponsors



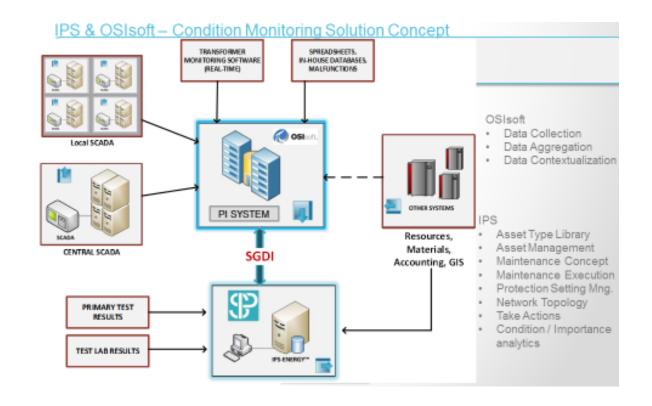
















Jože Bizjak (MSc) (Mr)

joze.bizjak@ips-energy.com Area Sales and Application Manager



TIME	CUSTOMER	TITLE
9:30-10:00	FINGRID	Developing Power System Operations: Combining Visualization and Online Analysis Using the PI System – Antti-Juhani Nikkilä
10:15-10:45	W ides	Intuitive Interpretation of Big Data Using Esri ArcGIS and the PI System – Jan F.X. Urbanus
11:00-11:30	arriander	Value of Realtime Data for Improved Grid Performance – Robin Hagemans
11:45-12:15	entega	Data Acquisition from Distributed Power Plants and Integration into the Business Intelligence System – Zijad Lemeš
14:15-14:45	ČEP\$,a.s.	PI System as Part of An Existing TSO Infrastructure – Martin Tauer, Lukas Sedlacek
15:00-15:30	Stream Stream	Achieving Operational Efficiency at PowerStream – Vince Polsoni

TSO Industry Pain Points







Asset Management



Regulated Tariff



Capacity Planning



Smart Grid Integration



Renewables Integration

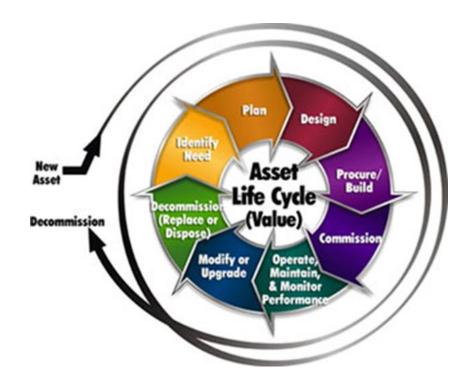


Compliance

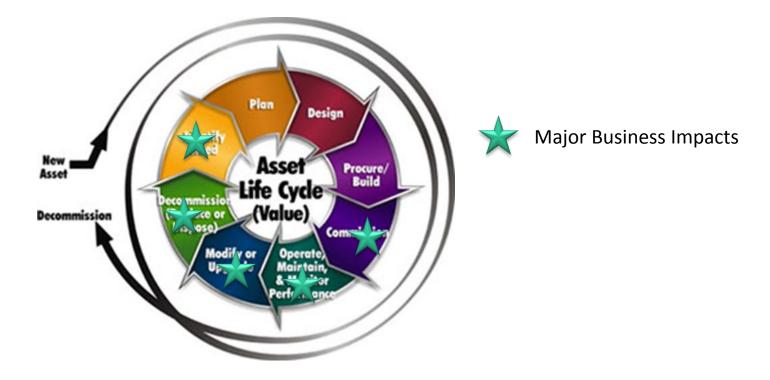


New Industry Trends: GIS Integration, TSO/DSO collaboration

Setting the context

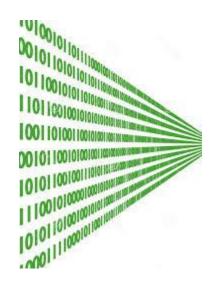


Setting the context



The Art of Possible

The Challenge



Billions of data streams

Multiple data sources



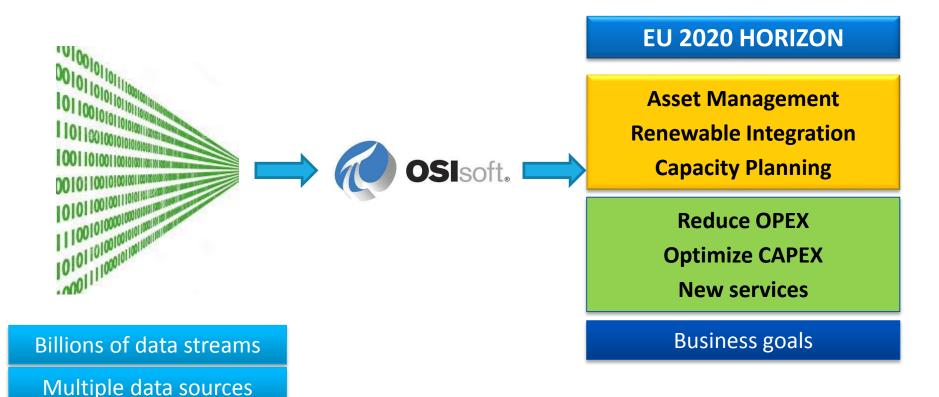
EU 2020 HORIZON

Asset Management
Renewable Integration
Capacity Planning

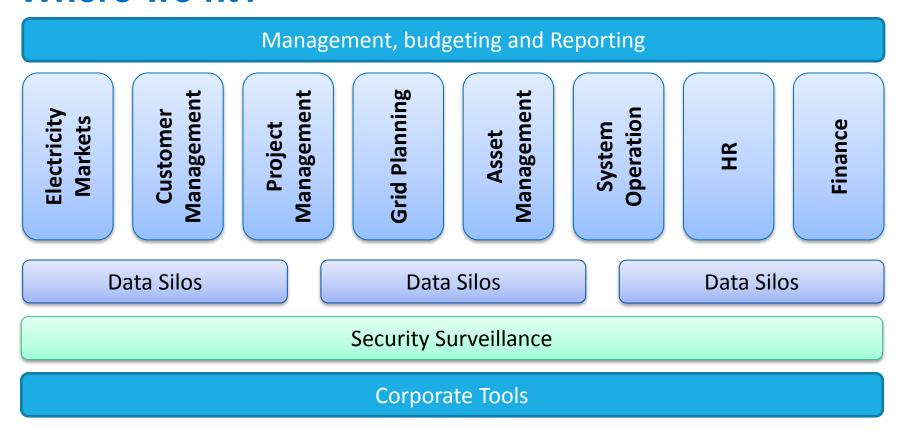
Reduce OPEX
Optimize CAPEX
New services

Business goals

The Vision

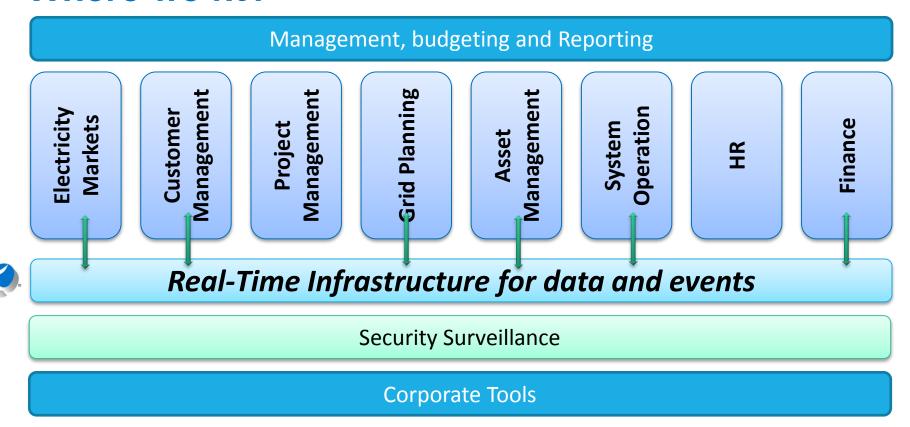


Where we fit?



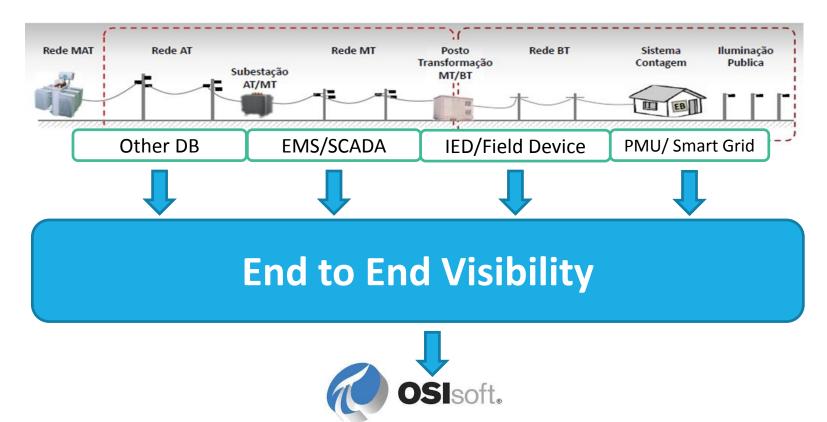


Where we fit?

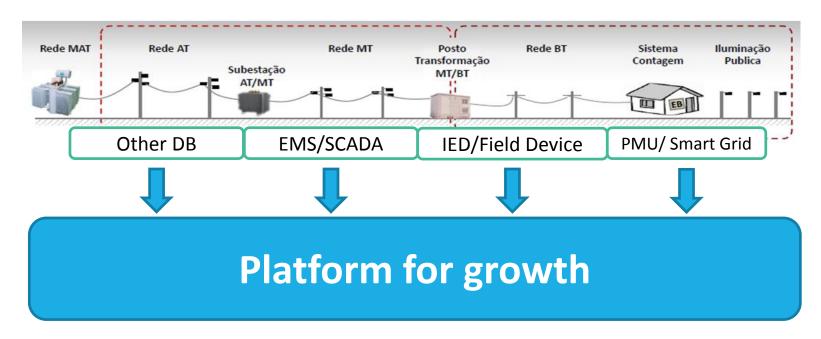




The Vision



The Vision



DER/Smart Grid Asset Health / Cond Mnt

Renewables Integration

Frequency Control Hidden Opportunities



Infrastructure Context Enables OT and IT Data Integration





What's Next?

20

What's coming?





Smart Microgrid





An Evolving Generation Landscape







Natural Gas

Coal

Solar PV & CSP

Traditional Power Generation

Renewable Generation





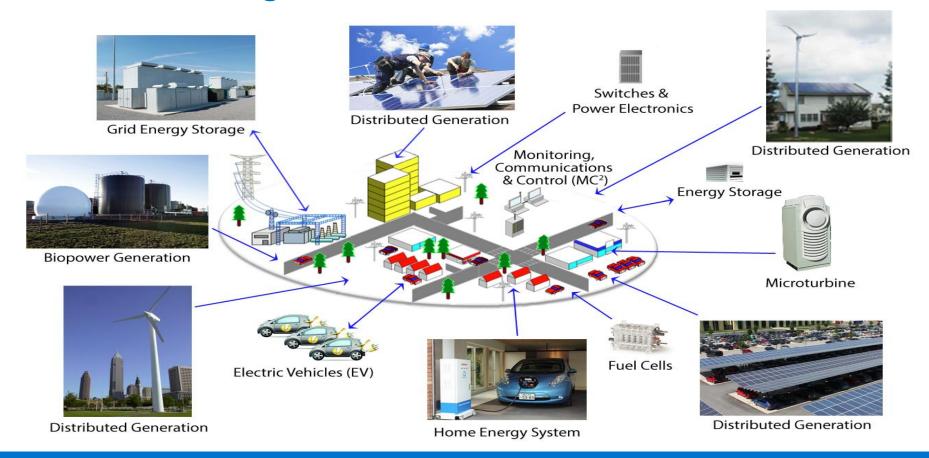


Hydro

Nuclear

Geo-thermal / Biomass / Tidal / Battery

And Still Evolving ...



Transmission, Distribution and Smart Grids





Metering

OSIsoft in Transmission & Distribution









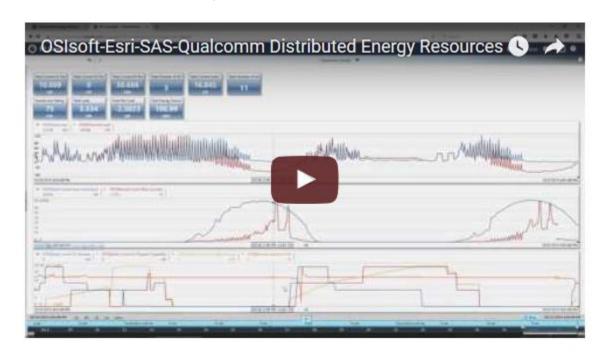
Res Solar

Renewables Batteries

Smart Homes

Smart Grid

https://youtu.be/HZx7Naz8oO8



What's coming?

IIoT Gateway Examples



Monico



Cisco



Dell



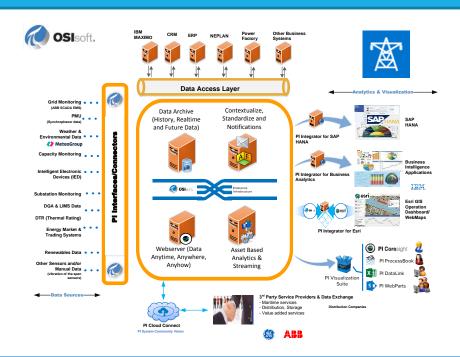
Digitalization era is in front of us



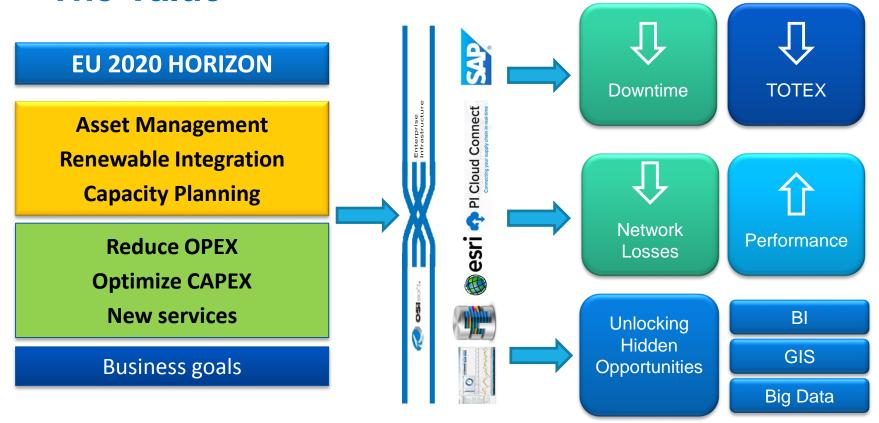
Integration is a must for success



A right data infrastructure accelerates the journey



The Value



Osisoft.com/TSO







Partner Expo



CBM Pod





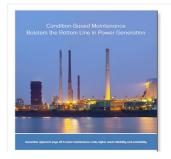


http://www.osisoft.com/ corporate/power-cbm/

Learn More: Real-Time Asset Monitoring for Power Generation

The PI System provides power generators with a universal data infrastructure that is capable of collecting, managing and analyzing information from multiple isolated sources across the enterprise and presenting that data in a way that allows management, engineering, operations and maintenance staff to share information and solve problems faster.





PowerGen and T&D PI User Groups

Join to discuss best practices, white papers, share news, and exchange ideas.

Objectives:

- Identify Best Practices
- Share knowledge and ideas across our industry
- Foster communication with OSIsoft regarding our industry needs

This is NOT an avenue for sales presentations or marketing



Power Generation Group:

https://pisquare.osisoft.com/groups/power-gen

Transmission and Distribution: https://pisquare.osisoft.com/groups/td



Have questions?

- mchavero@osisoft.com
- kwalsh@osisoft.com
- jsirois@osisoft.com
- Visit the PI Square Booth





Contact Information

Miguel Chavero

mchavero@osisoft.com Industry Principal OSIsoft

Kevin Walsh

kwalsh@osisoft.com Industry Principal OSIsoft





Questions

Please wait for the microphone before asking your questions

State your name & company

Please remember to...

Complete the Online Survey for this session



http://ddut.ch/osisoft

감사합니다

Danke

Gracias

谢谢

Merci

Thank You

ありがとう

Спасибо

Obrigado



