

PI System Business Integration

Presented by Michael Luo

Technical Consultant (Sydney)



Millions of Streams amework Pl System Analytics quality ctivity Sensor-based Data Big Data **Business Transformation Enterprise**

Do more with what you have



Technology Megatrends



By **2016**, smartphones and tablets will put power in the pockets of **a billion** global citizens.



Social

Millennials will make to 75% of the

workforce by 2025



Cloud

70%

of organisations are either using or investigating cloud computing solutions



Big data

2.7ZB in 2012, up 48% from 2011, rocketing toward 8ZB by 2015.



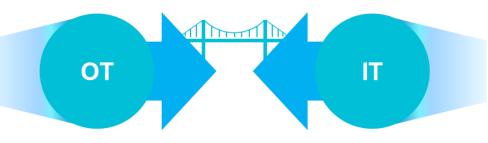
OT/IT Convergence

Democratised data: "....information that once was available to only a select few is now available to everyone" ¹

A system to bridge these 2 converging worlds

Pain Points

- Prepare data for a range needs
- Operational insight
- Ensuring Security & Access



Pain Points

- Create insights from operations & business data
- Unfamiliar with time-series data

¹ http://googleblog.blogspot.com/2008/09/democratization-of-data.html









Geospatial Integration

Vehicle Management & Tracking

Connected Logistics

Emissions and Environmental Monitoring And Control Drilling Optimisation

Leakage Detection and Pipeline Integrity Analytics

> Fuel Management

Regulatory Compliance

Real-time Grid Analytics

Outage prevention and management

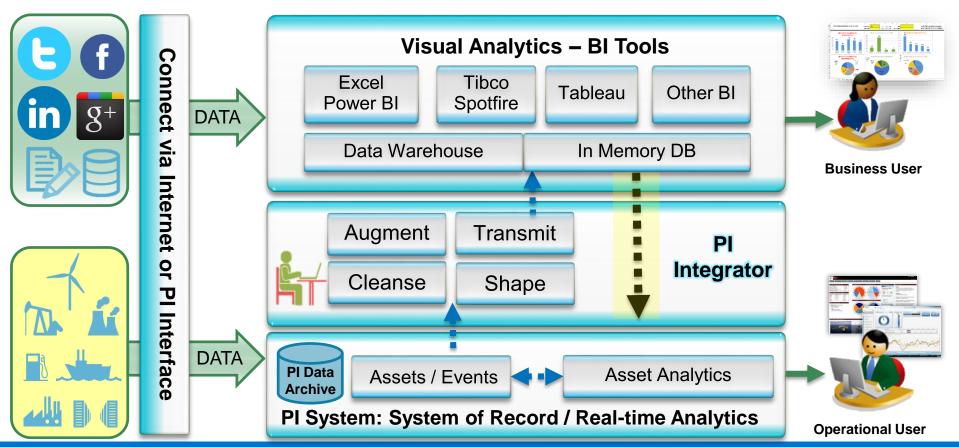
Consumption and Load Analytics

Demand Response Management



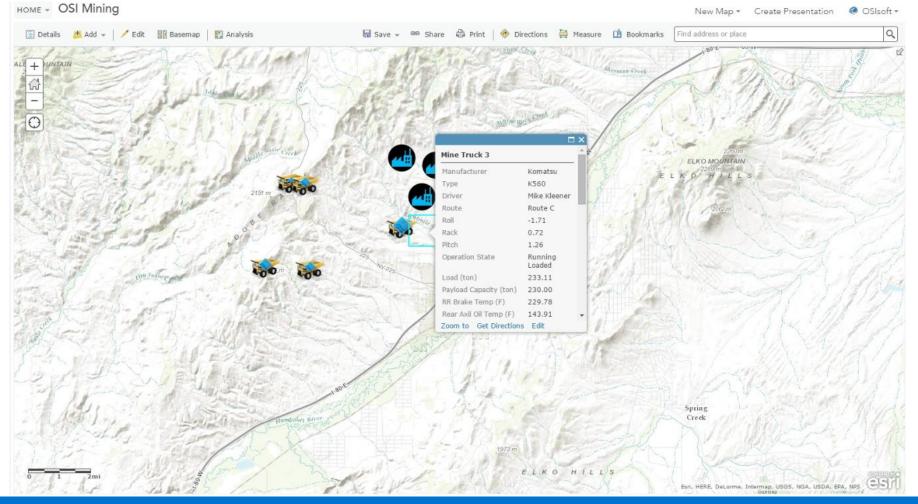
Many experts suggest that up to 80% of all time consumed in big data project can be consumed by smart people working out where and how to extract the data before deriving values from the data

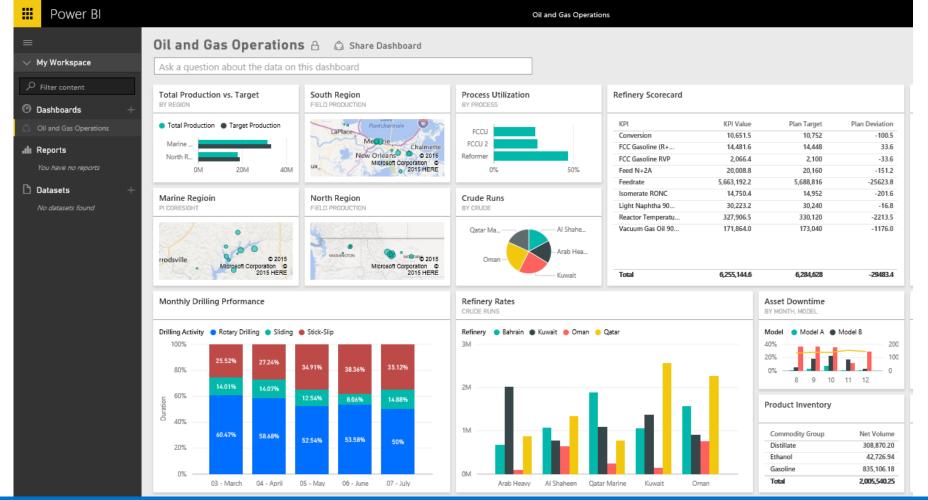
PI Integrator for Business Intelligence



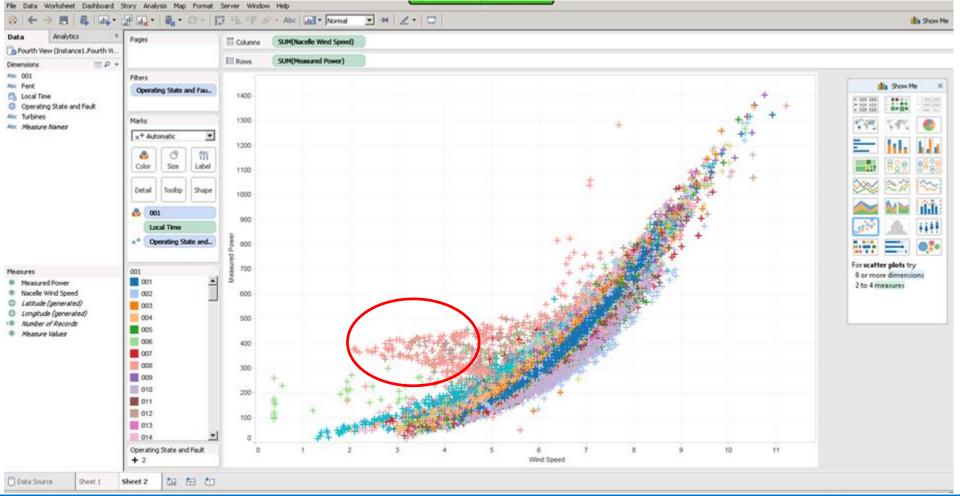
PI Integrator Suite

- ESRI ArcGIS (Available now)
- Compatible with ESRI GeoEvent processor
- Bl Edition (2015 Q3)
- Works with any software with an ODBC data source connection
- Data Warehouse Edition
- Create Facts & Measures in Microsoft SQL
- SAP HANA Edition (2015 Q4)
- Automatically creates Virtual Tables via Smart Data Access (SDA)









Transforming Business and Empowering People



Our managers and engineers are able to get a better idea of how the asset is performing.

Enables us to make faster and better decisions regarding asset performance, which should lead to better production and lower costs!



...spending less time copying and pasting and more time analysing the data.



"



How can You Do more with what you have?

Next Steps?

- Release Target
 - Technical Deployment Details

- Start the Conversation Today
 - Architectural Review
 - AF Readiness
 - Data Aggregation
 - Security Model



Contact Information

Michael Luo mluo@osisoft.com **Technical Consultant OSIsoft Australia Pty Ltd**



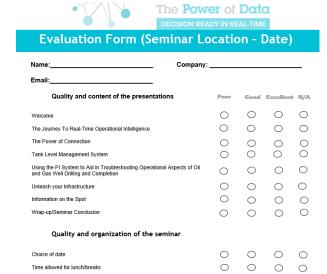
Questions

Please wait for the microphone before asking your questions

State your name & company

Please don't forget to...

Complete the Survey for this session



Choice of presentations



감사합니다

Danke 谢谢

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado