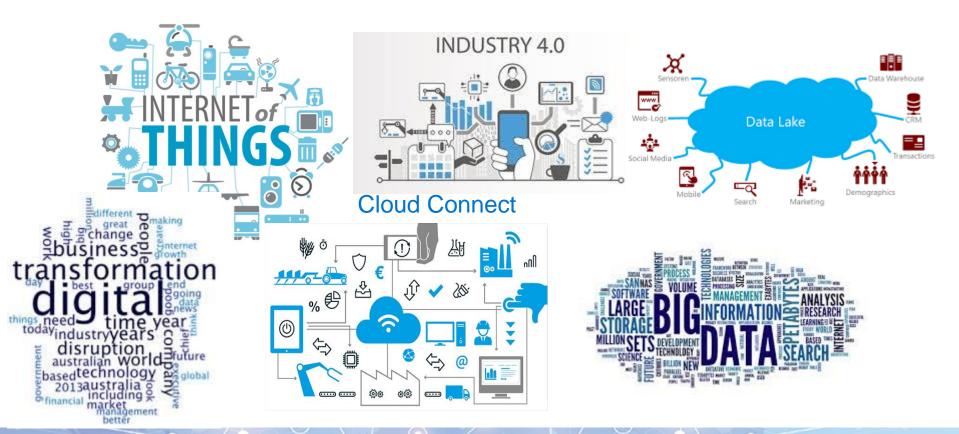
Digital Transformation





Buzz words or do they really help?



Know your Business Challenges

Operational Excellence

Asset Integrity & Reliability

Predictable Delivery

Empowered People

Identify focus areas and prioritize on value



Where can I find my Enterprise data?



Do I meet my global targets



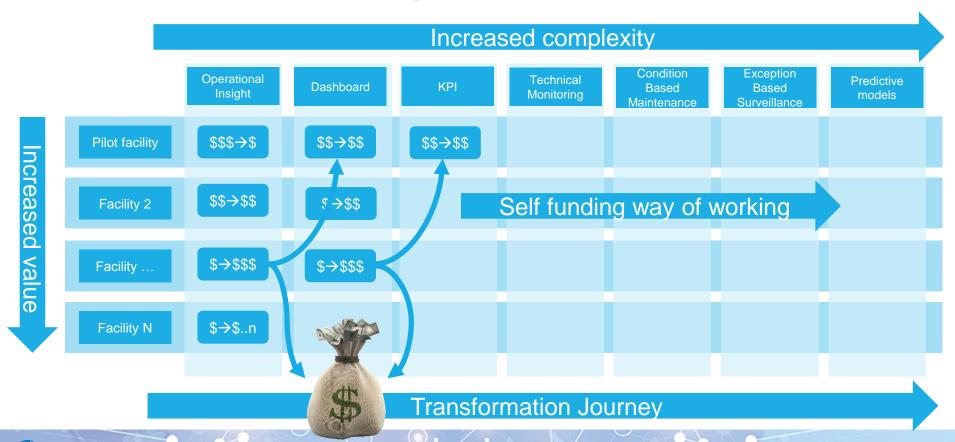
Equipment running compared to other sites



How can I prevent downtime

How is my

Build a Vision, Strategy and Approach



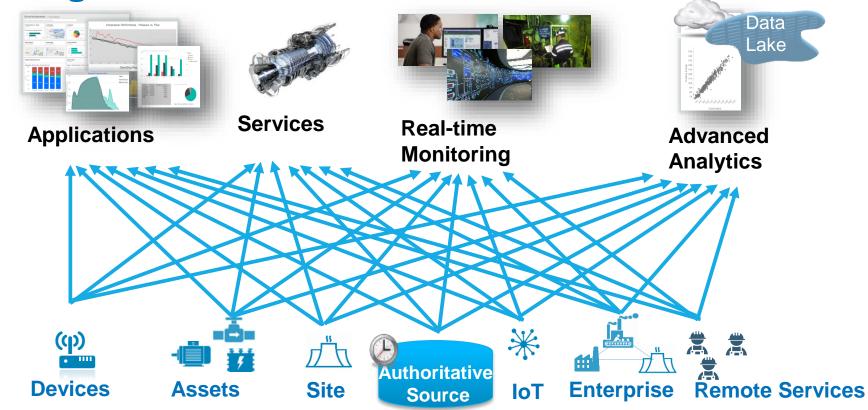
Success Factors







How to get access

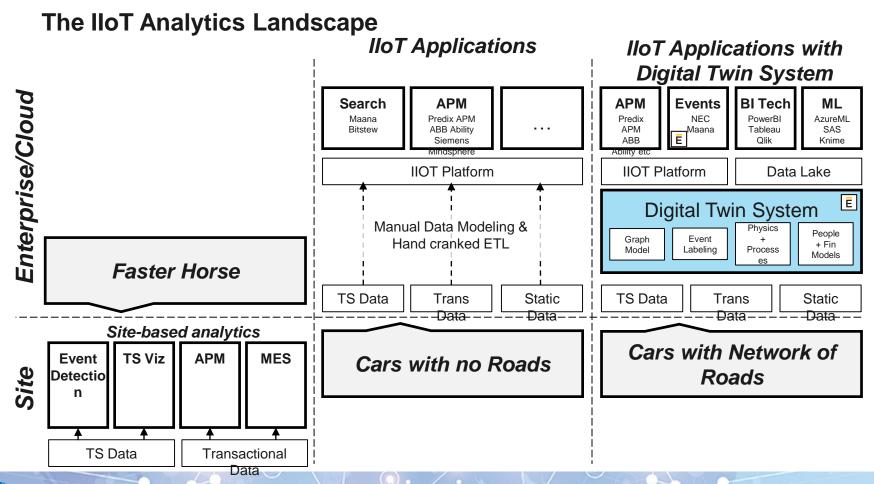


Challenge – Data readiness

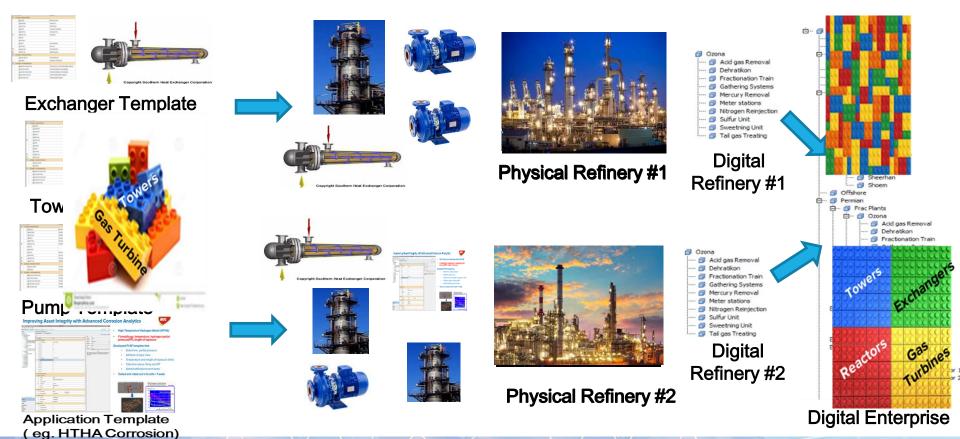


correlation Solve analysis, periodicity analysis, failure **Problems ANALYTICS: METRICS,** Gain Insight BENCHMARKING. AGGREGATES, FEATURES **DATA READINESS GAP** RELIABLE DATA FLOW, INFRASTRUCTURE, Move/Store PIPELINES, ETL. STRUCTURED AND **UNSTRUCTURED DATA STORAGE** INSTRUMENTATION, LOGGING, SENSORS, EXTERNAL Collect **DATA, USER GENERATED CONTENT**

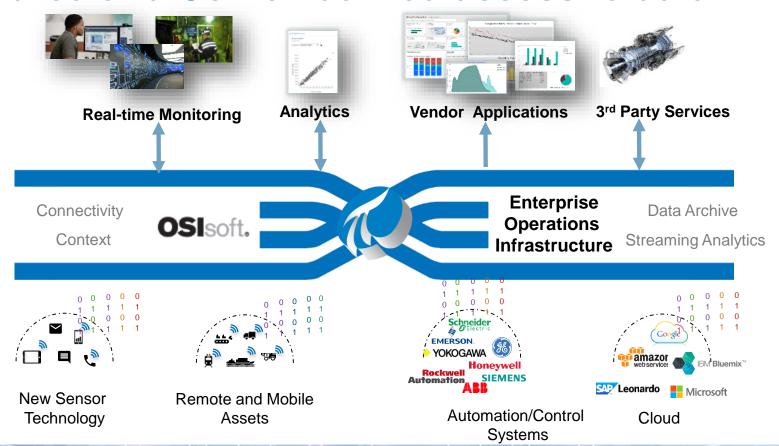
- **Siloed** Data locked up at industrial sites, no event log
- No Context Time series sensor data lacks context
- Trust Physically-generated data – 50x higher drift issues (e.g. sensor calibration, noise)
- Maintenance Expensive to build and maintain data models
- Analytics Unable to use machine learning and other big data technologies



The power of context with Digital Twins



Structured and Contextualized access to data



Data lake or Swamp?





Data Lake

Real-time Operations

Enterprise Insights

Enterprise Intelligence & Data model

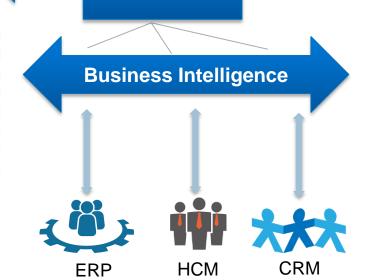
Dashboards

Reports

Machine learning

Artificial Intelligence

Modelling and simulation



Business Data

ETL

Direct push from source



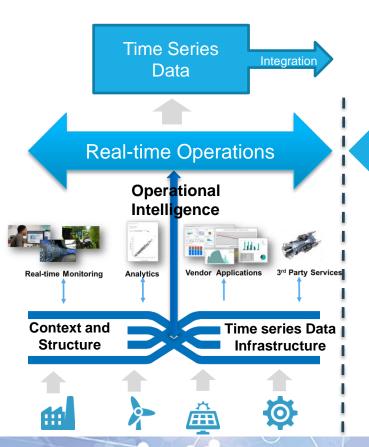






From Swamp to Data Lake





Data Lake

Enterprise Insights

Enterprise Intelligence & Data model

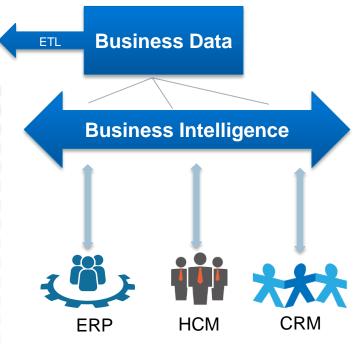
Dashboards

Reports

Machine learning

Artificial Intelligence

Modelling and simulation



Digital Transformation

Roadmap to Success

COMPANY and **GOAL**

Transformation from a local reactive model to a corporate predictive model



CHALLENGE

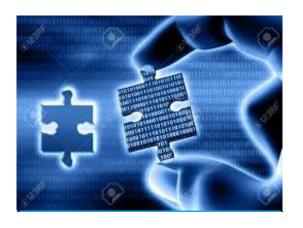
Digital Transformation is complex, time consuming and costly

- · Many data sources
- Diversity in standards
- Localized Governance model
- · Difficult to justify and fund



Understand your business challenges, prioritize on value, build a vision and create a roadmap with small steps in solution building & deployment

- Get uniform access to data
- Create Digital Twins to standardize tools and use cases
- · Unlock the data in a structured way
- Use the benefits of each small step to fund the next step in the journey



RESULTS

Predictable and value driven journey for Digital Transformation

- Company standardization
- Reusable solutions
- Success transformation from Reactive to Predictive



Contact Information

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Questions

Please wait for the microphone before asking your questions

Please state your name & company

Please don't forget to...

complete the Post Event Survey

감사합니다

谢谢

Merci

Gracias

Thank You

Danke

ありがとう

Спасибо

Obrigado