

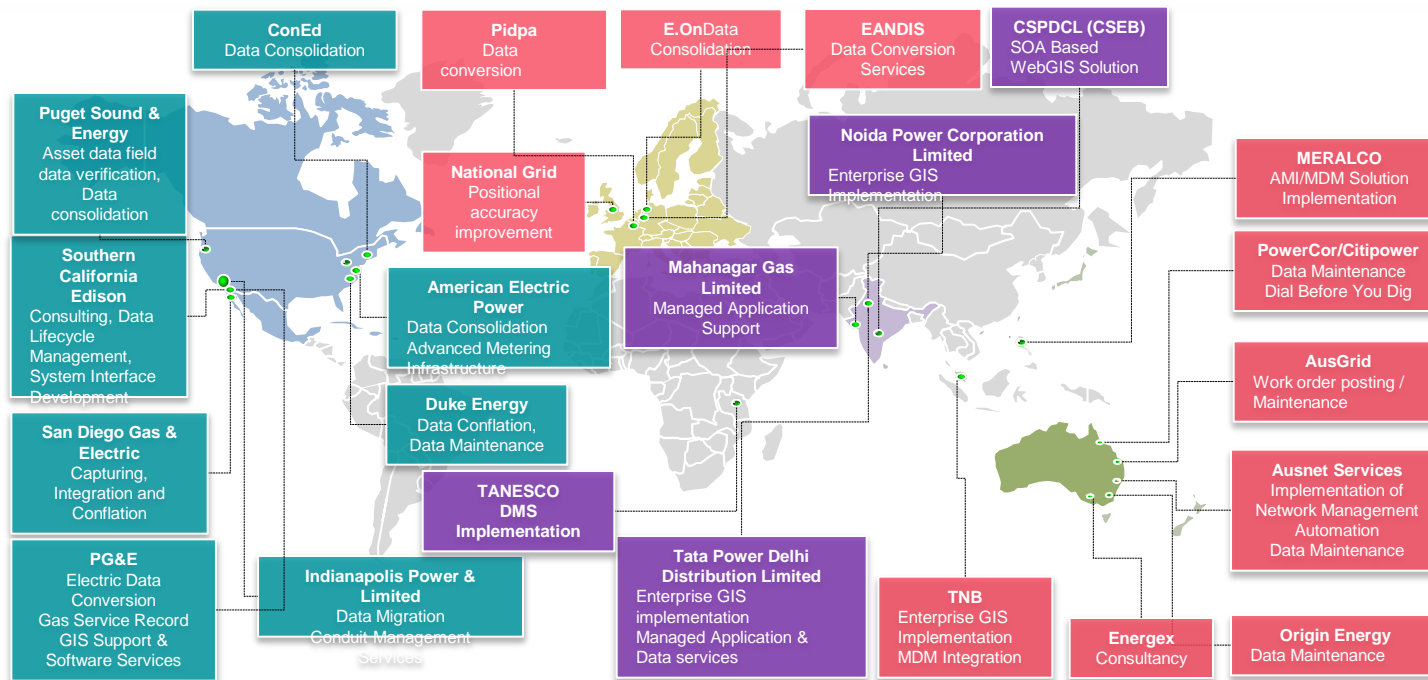
Smart Utility Transformation...

... driven by data



John Renard, Cyient - BU Head, Utilities & Geospatial

WORKING WITH UTILITIES ACROSS THE GLOBE



20+ Mn

Hours of expertise on IT/Utilities Systems

5,000+

Employee Strength

5 of the top 10

Utilities globally

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WHY SMART?

Technology Trends

- Advances in IoT
- Next Gen, Cloud, SaaS...
- Image & Video Recognition
- Mobility Platforms
- GIS, RFID

Pressures on Utilities

- Ageing Asset Base
- Ageing workforce
- Tighter Regulation
- Micro Generation
- Renewables

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The Utility of the Future Needs to Be:

Smart

- ✓ Leverage new technologies and business processes to deal with the unexpected
- ✓ Build capability to ensure reliability.
- ✓ Inform customers through efficiency programs of the need to reduce consumption

Secure

- ✓ Secure and reliable energy supply
- ✓ Electric utilities especially are the source of significant cyber attack risks
- ✓ Total security of power generation assets, including nuclear power plants

Sustainable

- ✓ Manage exposure to climate-change through deployment of new technologies
- ✓ Integration of renewable generation into the Grid (edge of grid)
- ✓ Able to cost effectively renovate its infrastructure

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THE KEY ATTRIBUTES OF “SMART” VARIES

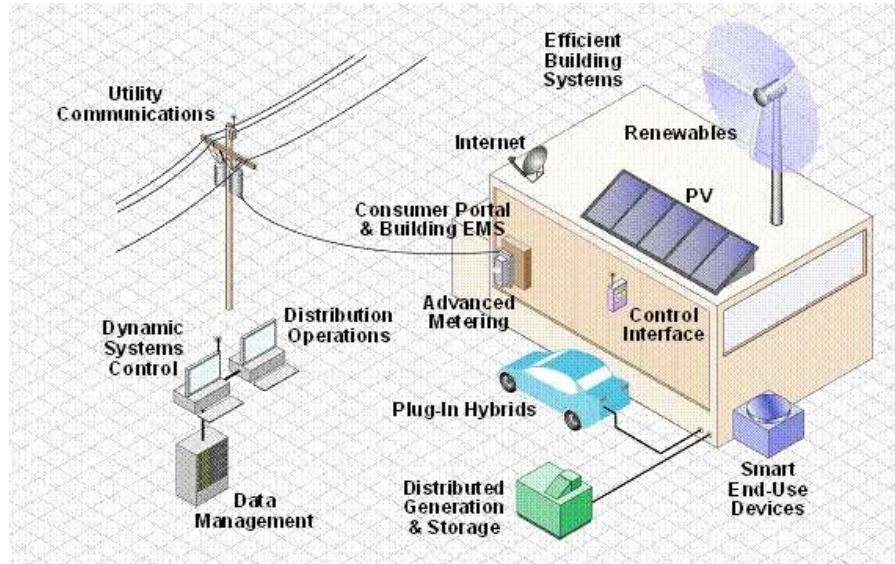
Opportunistic

Green

Analytical

Intelligent

Standards driven



Accommodating

Motivating

Demand Side
Management

Smart Appliances

Quality

Resilient, Self-
healing

Electric Storage,
Electric Vehicles

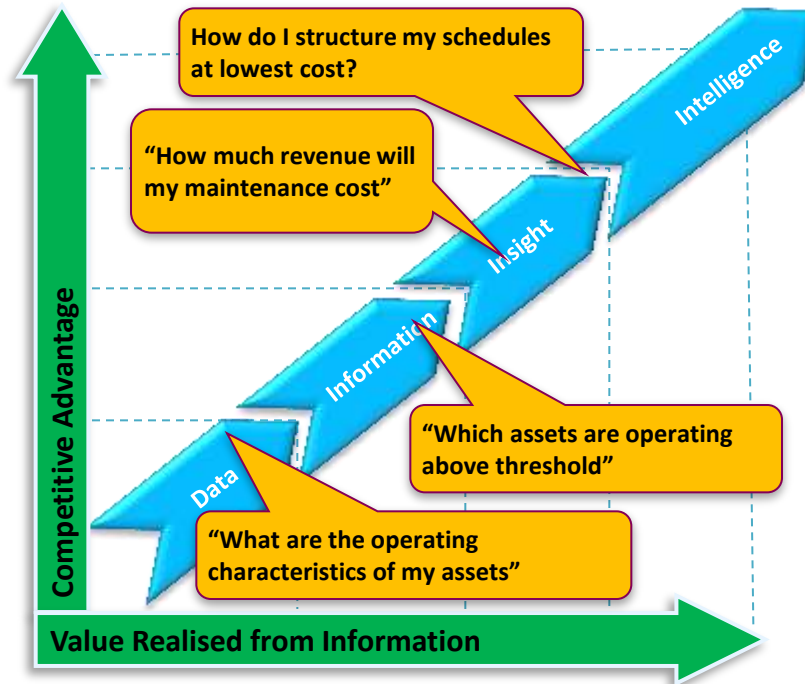
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SOME MAJOR HURDLES TO ADDRESS

- Regulation
- Slow-Moving
- Financial Constraints
- Technology

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SMART UTILITIES ARE DRIVEN BY DATA



Focus on 'Right Information, Right People, Right Time' rather than "Features, Functions and Service"

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SMART UTILITY CHARACTERISTICS



Energy Efficient and Agnostic

Culturally and operationally focus on delivering as efficiently as possible. Embracing interoperability



Data Driven

Mining the 'gold' within their data in order to drive innovation

Super-processes

Single purpose business process will be superseded by "super processes"

Convergence

Foundational technologies will drive integration of traditional systems & processes

Smart Utility

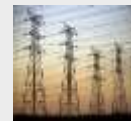
Automation

automated solutions that protect the grid, monitoring real-time condition



Trusted Advisor

Customer engagement to reduce demand/carbon footprint and energy spend



Two Networks

communications infrastructure, in conjunction with the electric infrastructure.



Foundation Technologies

like AMSs, PMUs, and sensors will underpin the smart solutions

Transition Start

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THANK YOU - QUESTIONS?



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