



SPgroup

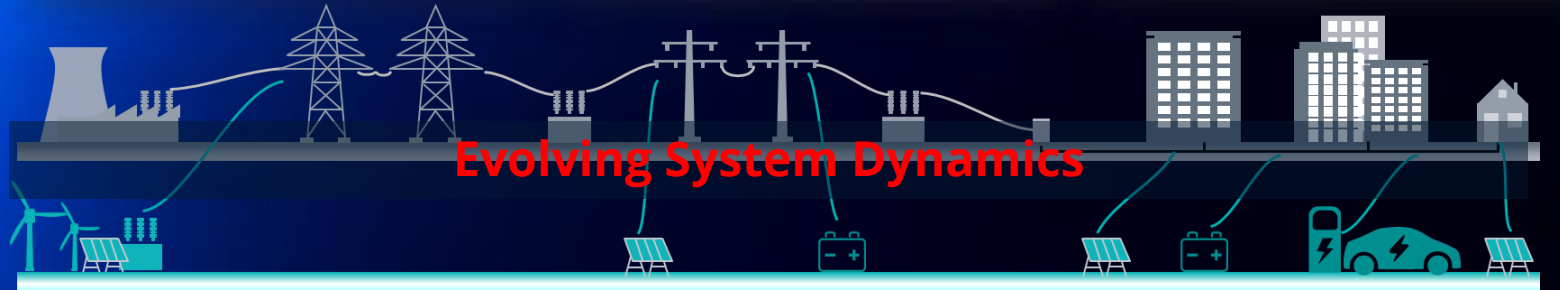
Empowering the Future of Energy



Data Driven Operation

In God We Trust, All Others Must Bring Data

Evolving Future Landscape



Upholding Network Reliability

Maintaining our position as the world's most reliable power grid

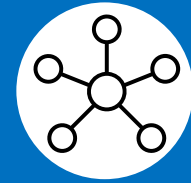


Digital Disruption



MORE INSTRUMENTED

Internet of things, Robotics, AR, VR



MORE INTERCONNECTED

Connection/integration among sensor, system and people;



MORE INTELLIGENT

Computer Vision, Machine Learning and Artificial Intelligence



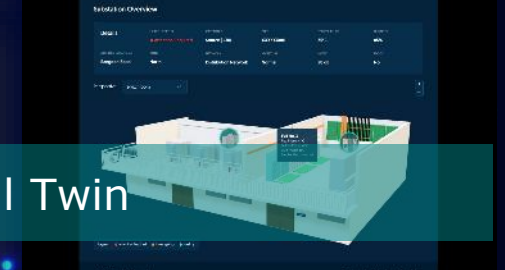
Computer Vision, AR & VR



Intelligent Control & Monitoring Systems



IoT, Sensors & Asset Digitalisation

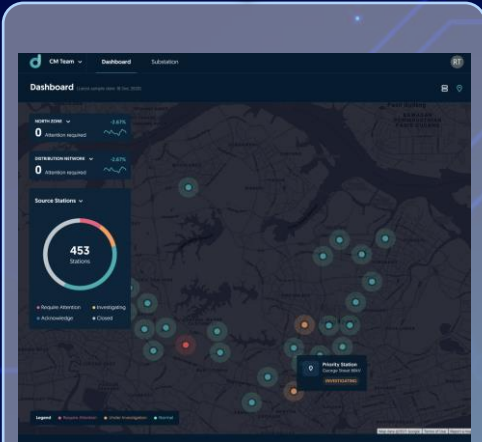


Digital Twin

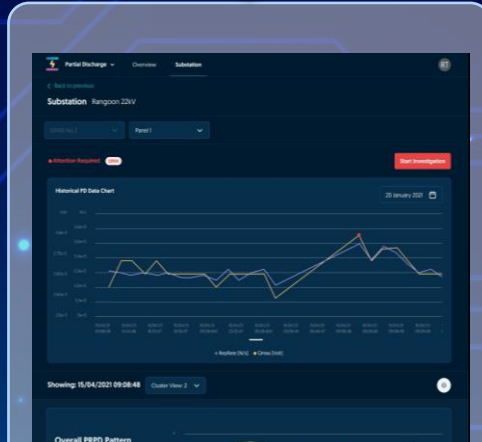
Digital Vision



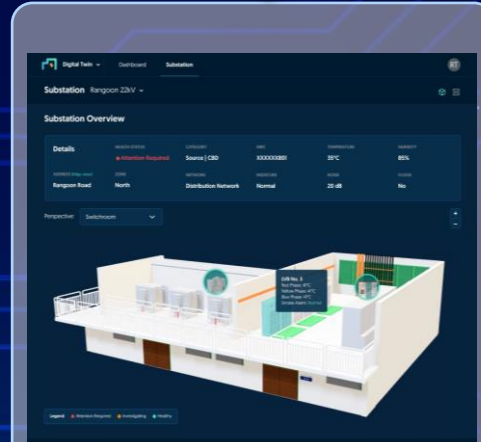
Distributed Data Sources



Condition Monitoring



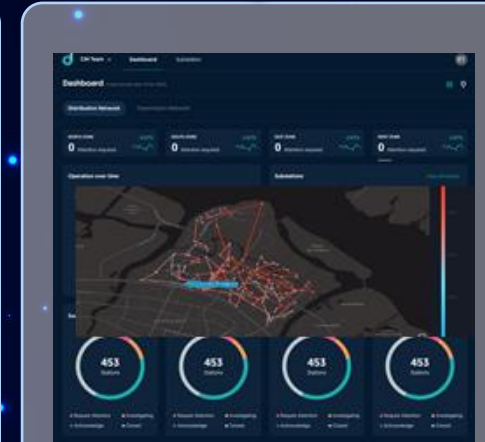
Partial Discharge



Digital Substation



Asset Performance



Network

Digital Twin



Challenges



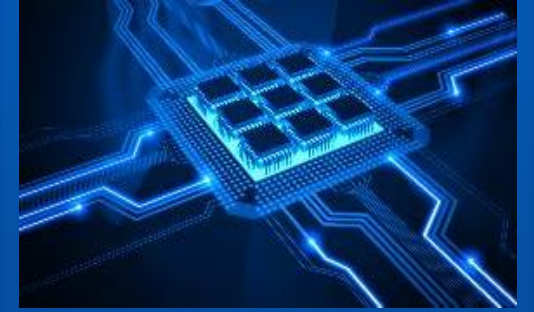
Data
Quality



Data
Architecture

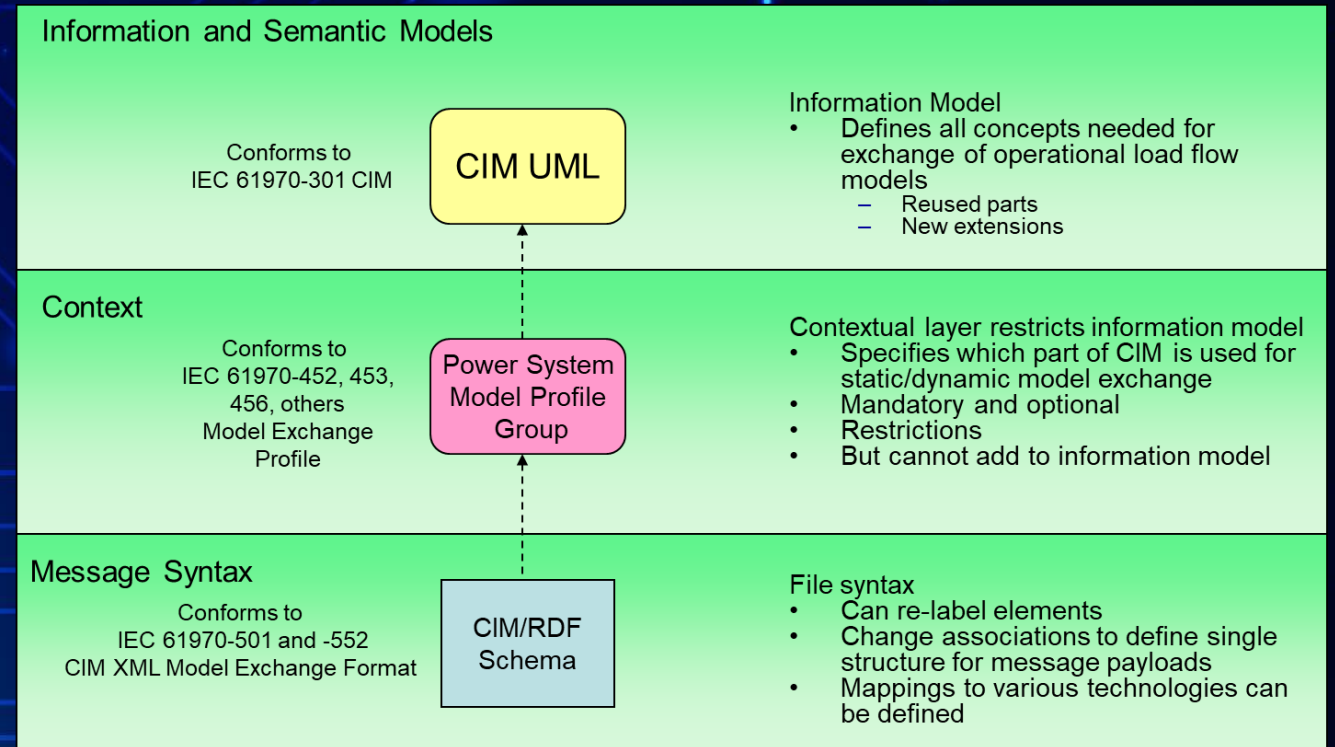
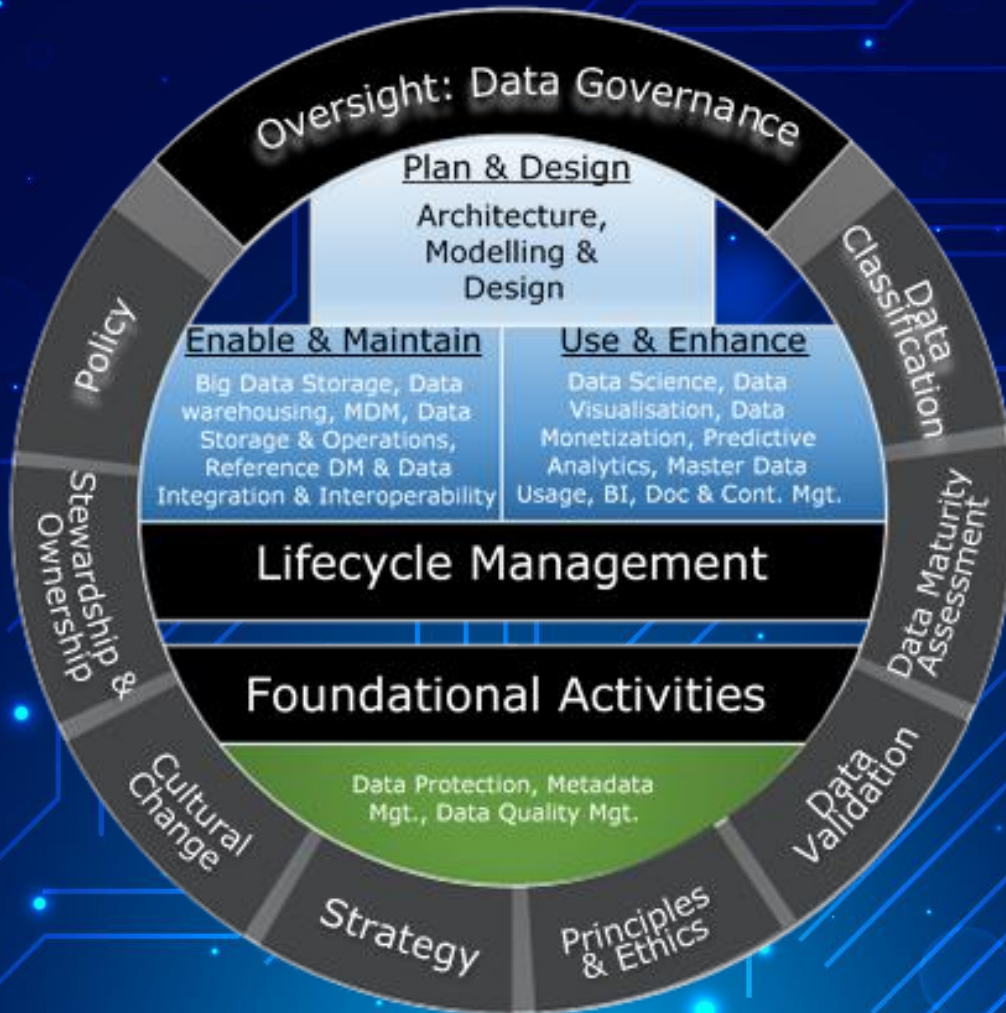


Data
Governance



Data
Interoperability

Moving Forward





**Data Management is a marathon
and not a sprint!**



SPgroup

Empowering the Future of Energy

Thank You

