

JULY 28, 2022

Realizing sustainable and resilient grid infrastructure

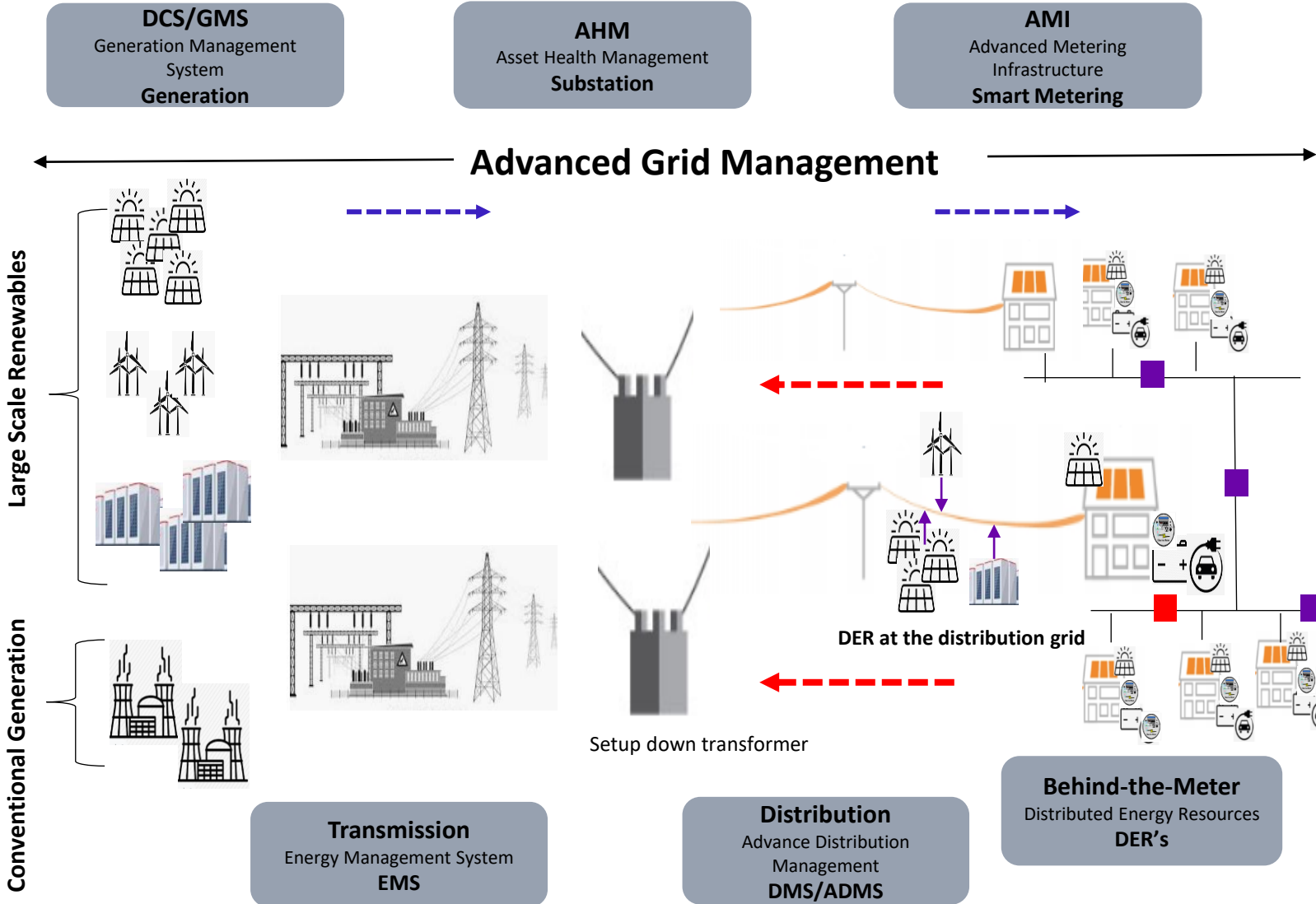
Grid Modernization

Sue Quense, Senior Vice President, Americas, AVEVA

AVEVA

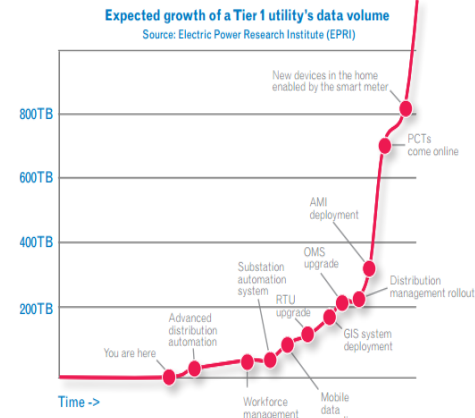
Shift from Uni-directional to Bi-directional

Complex and dynamic end-to-end energy supply chain requires a more coordinated and integrated approach



Emerging Trends

- **Community System of Data –Enterprise wise visibility and accessibility**
 - Everyone wants access to the data
- **Scalability & security concerns due to large volumes of data generated in DER & new IoT assets**
 - 10x to 100x scale - Volume, Velocity & Variety





Feedback from Utilities



- ✓ **1000+** utilities worldwide
- ✓ **100% of the 20 largest** utilities in North America
- ✓ **100% of ISO/RTO** in North America

- Challenges:
 - Adapting to a changing climate and energy transition, human resources, supply chain issues and cyber security
- Goals:
 - Driving reliability, mitigating climate change risks, leveraging innovation, and optimizing investment

