ENTERPRISE DIGITAL TRANSFORMATION
Integrated approach for Smart Grid Development

POTENTIAL BENEFITS
- Higher customer satisfaction due to greater reliability and interconnectedness of resources
- Better accountability of grid assets
- Increased reliability with minimal human interaction
- Enhanced employment of non-wired alternatives
- Ability to monitor and control Distributed Energy Resources (DER)
- Better visualization and operational understanding
- Forecast supply and demand with greater accuracy

1. RADAR GRID SENSITIVITY AND MONITORING
- As smart devices and sensors are deployed, gain insights to run advanced grid analytics

2. ENHANCED USE OF DER
- Collect sensor data into a central control station to monitor, forecast, and control RTUs
- Leverage both utility-owned and third-party-owned assets to cost-effectively maintain reliability and power quality

3. OUTAGE ANALYTICS AND DASHBOARD
- Automate state analysis and develop switching schemes for exponentially more situations
- Determine outage root cause, predict occurrence, and restore faster

4. DER INTEGRATION & INTERCONNECTION
- Perform Integration Capacity Analysis to find grid bottlenecks
- Determine optimum placement for DERs

5. BLOCKCHAIN
- Using blockchain, customers can participate in peer-to-peer settlements for energy generation activities resulting from Rooftop Solar and other DER participation

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