



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Deployment challenges

Current process to enable DOE deployments



- Building blocks to enable the minimum viable product

Challenges and opportunities



- Smart meter data remains only usable off-line
- IEEE 2030.5 enabled inverters can also be a real-time source of measurement data
- Data models and standards for describing measurements
- Integration with DERMS

Challenges and opportunities



- Requires up to date network models
- Network model calibration
- Network model validation
- Network model maintenance

Challenges and opportunities



- Should be based on actual congestion, not congestion due to modeling or data artefacts
- Should be integrated w.r.t. network voltage management
 - Boosting voltage can throw solar of the network, ie reduce export limits
- Benchmarking
- Day-ahead estimates of DOEs for market (participants)
- Customer rights?

Challenges and opportunities



- Communicate to retailers / VPPs / aggregators / markets
- Aggregate up to the TNSP/DNSP connection
- Fallback values in case communication drops
- Compliance? Cross checks between smart meter and inverter data