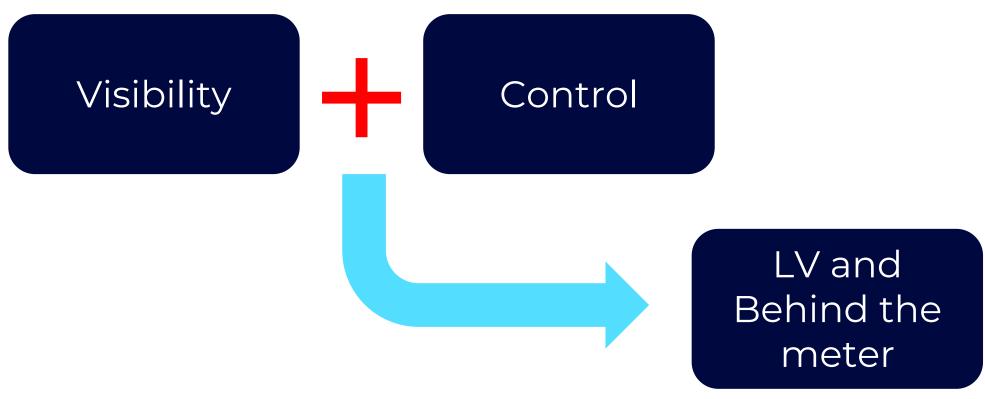
LV Data Management Discussion

13 June 2024





Our goal: Use data to enable an intelligent, dynamic network – to the edge and beyond





Control

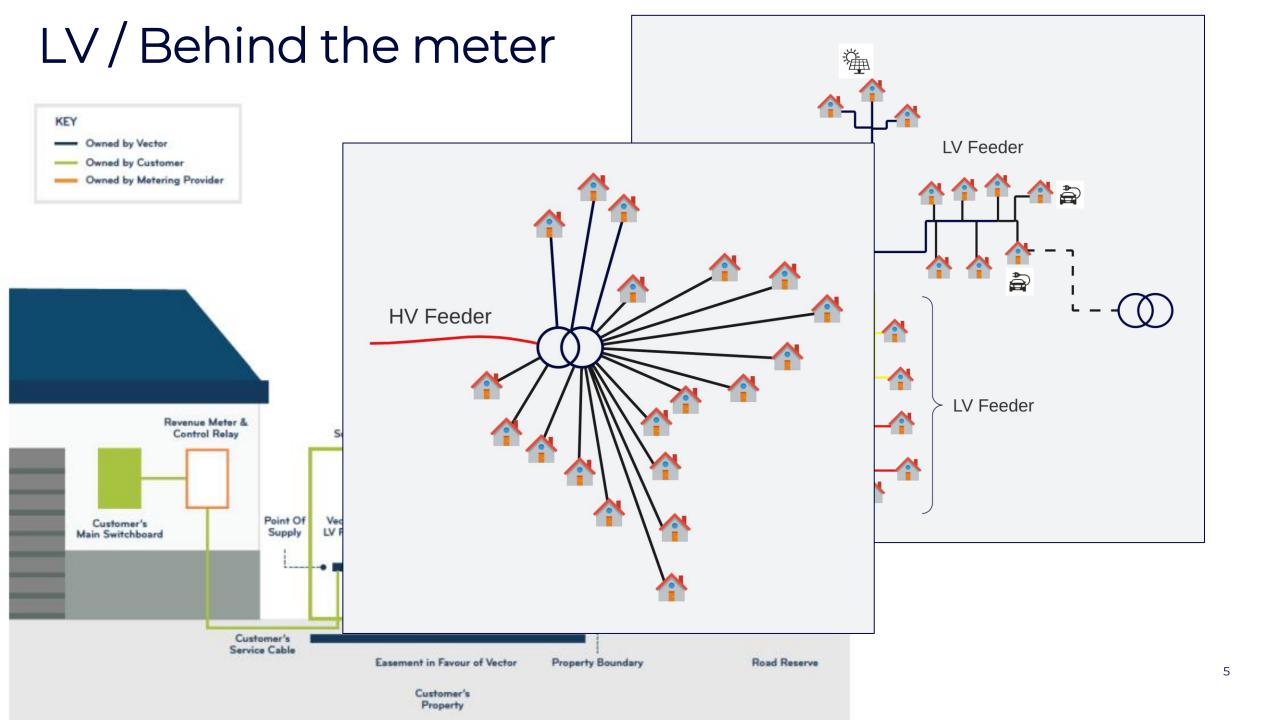
HV LV DSO

HV - ADMS (SCADA)

Diverge - DERMS



LV / Behind the meter KEY Owned by Vector LV Feeder Owned by Customer Owned by Metering Provider **HV** Feeder Transforme ***** LV Phase LV Feeder Revenue Meter & Customer's Control Relay Substation building Point Of Vector's Vector's Customer's LV Frame Transformer Supply Main Switchboard Vector's **HV Cable** Customer's Service Cable Property Boundary Easement in Favour of Vector Road Reserve Customer's Property



Visibility

Connectivity / Topology

HV & LV

Performance / Operation

- How are devices connected to the network.
- Electrical hierarchy.
- Essential context for all data.
- More challenging at the fringe.

- How is the network performing.
- Readings from devices over time.
- Long-term historical performance.
- Real-time

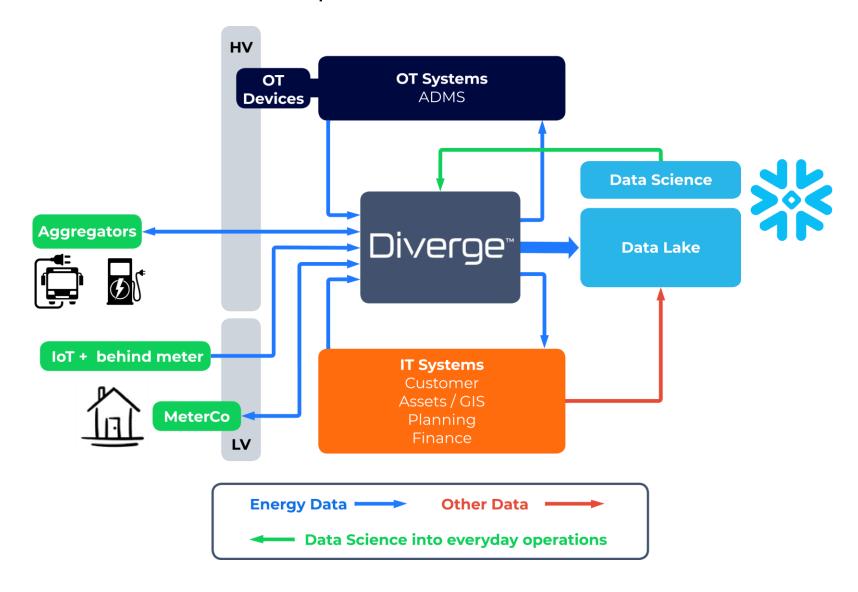


Making the data useful to achieve visibility

Focus areas		From	То
	Increase Volume	30 minutes Few ICPs	5 minutes Many/all ICPs
	Reduce Latency	Daily	Intra-day Near-Realtime On-Demand
	Increase Variety	Vector owned	Smart Meter Data Smart Devices 3 rd Parties / Aggregators
_	Leverage Data Science / Al	Analysis	Creation of new data AI / Machine Learning Predictive
V vector	Operationalize	Demonstrate Run Reports	Self-serve Plumbed-in Part of daily operations



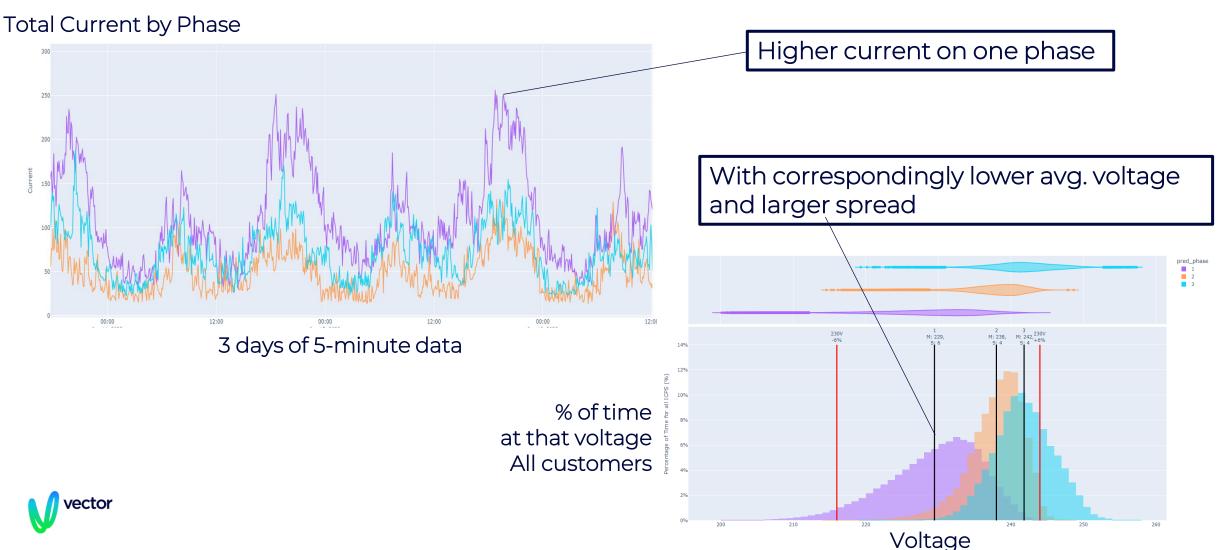
Data to Action: operationalisation





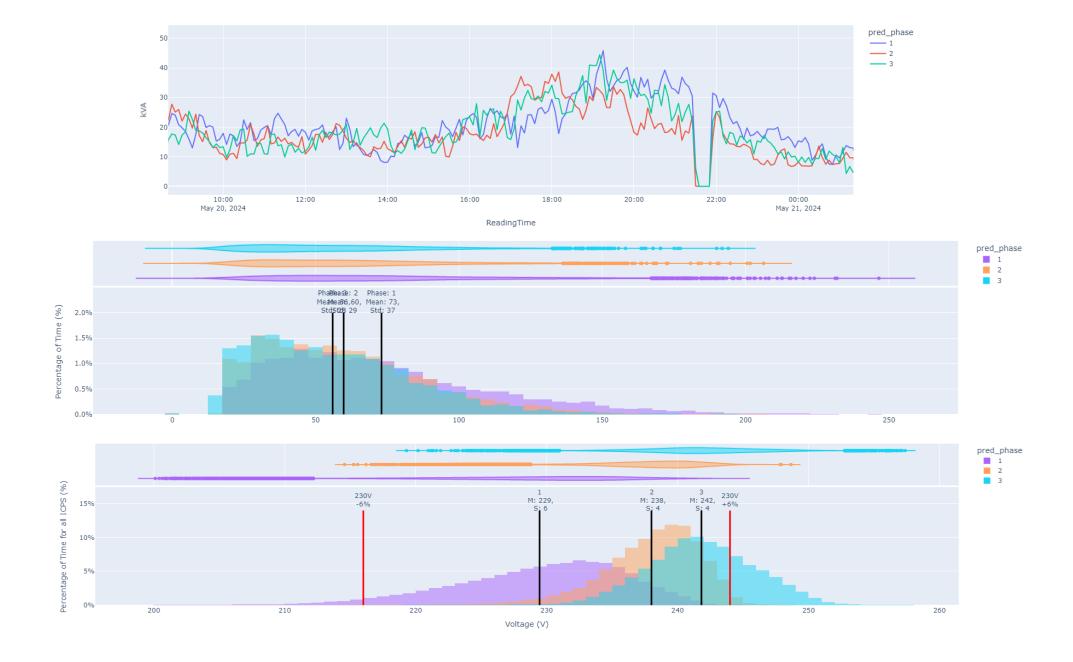
Transformer Phase Mapping

Phase Mapping 45 of 108 ICPs gave strong indication of imbalance



Results charts





TX 1694 - Voltage (Month average) and phases



