

## Overview

Palantir partners with utilities across the globe to modernize the grid, reduce risk, improve safety, and adapt to changing demand and production patterns.

Over many years of work in the energy sector, we've helped partners optimize their operations at speed and meet complex challenges like the energy transition with data-driven decisions.

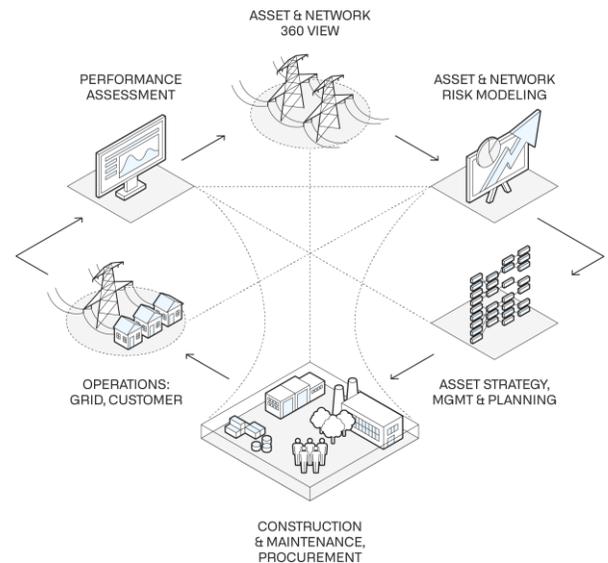
Today, some of the world's largest organizations are using Foundry to navigate supply chain disruptions, optimize load management, and improve demand response.

## The Foundry Solution

Our partners use Foundry to get more out of the data they already have. The platform enables them to integrate petabyte-scale data, from sensors and IoT to third-party sources and internal datasets.

Once data is integrated, Foundry connects analytics to daily operations, powers simulations and 'what-if' scenarios to iteratively improve models, and connects users across business units to drive robust, collaborative transformation.

Foundry brings to life the vision for a connected utility, leveraging a closed-loop virtuous feedback cycle to not only improve each unit individually, but to connect decisions and data across teams for more coordinated operations overall.



Example use cases include:

Power Generation	Grid Operations	Customer Care
→ Supplier Management	→ Asset Failure Investigation	→ Customer Notifications
→ Maintenance Allocation & Planning	→ Emergency Response Operations	→ Service Contracts Management
→ Primary Heat Transfer Systems	→ Work Planning	→ Customer Segmentation & Outreach for Billing
→ Turbine Downtime Minimization	→ Preventative Asset Maintenance	→ Demand Planning
→ Wake Steering	→ Risk Models	→ Customer Experience
→ Site Planning	→ Vegetation Management	→ Next Best Action
→ Trading Portfolio Management	→ EV Network Expansion	
→ Minimizing Carbon Emissions	→ Regulatory Reporting	

## \$475M (AUD)

Est. savings from Foundry monthly recommendations in 4 weeks

## 4 weeks

Time to integrate 4 years of metering data and stand up an operational workflow

### Optimizing Load Control

A large electricity network servicing 1.2M customers across 150K+ distribution points needed to predict electricity consumption patterns to optimize load control.

- <sup>01</sup> Digital Twin - Foundry was used to create a digital representation of all physical assets and data across the grid, bringing together previously siloed data sources.
- <sup>02</sup> Data Integration - Four years' worth of historical metering data were brought together and analysed at all hierarchy levels of the grid.
- <sup>03</sup> Load control analysis - Foundry increased granularity and frequency of load control setting recommendations to weekly, monthly, and quarterly, as opposed to yearly.
- <sup>04</sup> Closing the operational loop - Foundry connects to the external work orders system, enabling workflow creation and on-ground support- helping close the operational loop.

## 4K+

Customers remapped to the right asset

## 66%

Improvement in customer notifications



Common Operating Picture

### Emergency Preparedness & Operations

A major North American utility company's fractured data landscape prevented effective decision-making and coordination to perform de-energization for public safety during wildfire season.

- <sup>01</sup> Planning - Foundry enables meteorologists to analyze incoming weather forecasts from disparate sources, identify which parts of the grid should be monitored for de-energization, and track decisions in an audit trail.
- <sup>02</sup> Preventative Maintenance - Users can run "what-if" scenarios to simulate the impact of weather on asset safety to minimize outages.
- <sup>03</sup> Operations - Foundry provides a live view of weather, assets, planned and current outages, customers, notifications, and decisions in one Common Operating Picture, enabling teams to coordinate during emergency weather events.
- <sup>04</sup> Customer Notifications - Users can track customer details, status, and notifications in real time to ensure proper delivery, particularly for high-risk customers.

## 120x

Est. acceleration of identifying failed assets (days to hours)



Investigative Workflows

### Asset Management & Preventative Maintenance

A utility company wanted to implement risk-informed asset management strategies. To do so, it needed to measure total risk exposure across its network, identify trends to prioritize maintenance and investment, and accelerate detections of asset failures using AI.

- <sup>01</sup> Asset 360 - Foundry integrates data from over 9 systems, including geospatial data, investigation and maintenance records, outages, asset details, and sensor data. The digital twin produces a high-fidelity picture of every asset and its local environment.
- <sup>02</sup> Risk Models - Using the Asset 360, data scientists developed models with Foundry's operational AI layer to identify early warning signs of short-circuits that can start wildfires.
- <sup>03</sup> Preventative Maintenance - Foundry surfaces alerts from these models in its operational workflow layer to analysts who can dispatch patrols to specific areas.