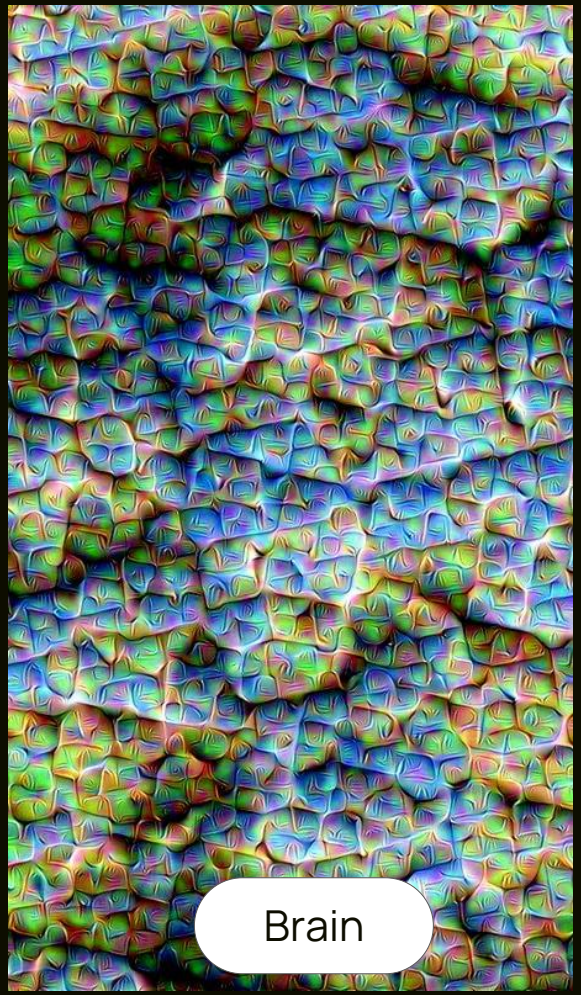
TAPESTRY.

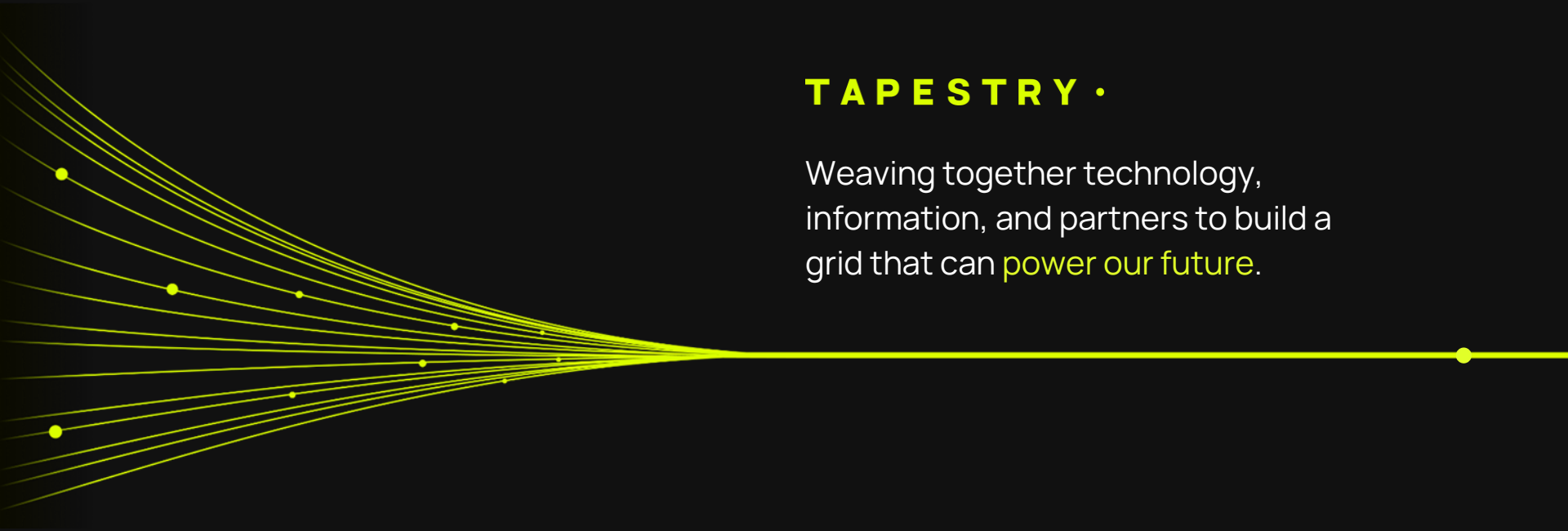
Revolutionizing the Electric Grid
The Transformative Power of AI and Innovation


X, THE MOONSHOT FACTORY
Invent and launch breakthrough technologies that
make the world a radically better place


Waymo


Wing


Brain



TAPESTRY.

Weaving together technology, information, and partners to build a grid that can power our future.

Electricity runs our world, but it's not working for us.

Power outages are up globally

2x

Energy costs are rising for consumers

20%

It takes too long to plan building solar fields

6 years

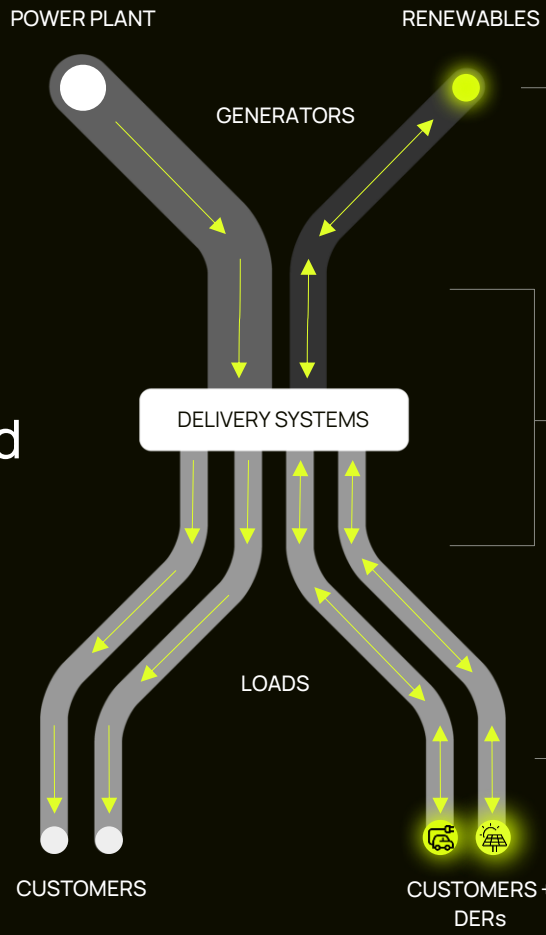
The grid creates a large portion of global emissions

+25%

TAPESTRY.

Two key drivers

- Skyrocketing demand
- Renewables



RENEWABLES

Renewables are distributed and highly variable

BI-DIRECTIONAL FLOW

The legacy grid is designed for one-way flow

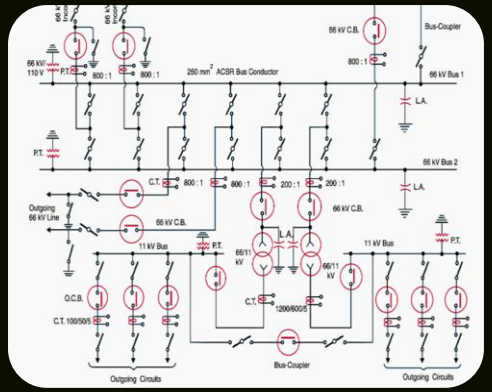
SKYROCKETING DEMAND

Electrification of everything

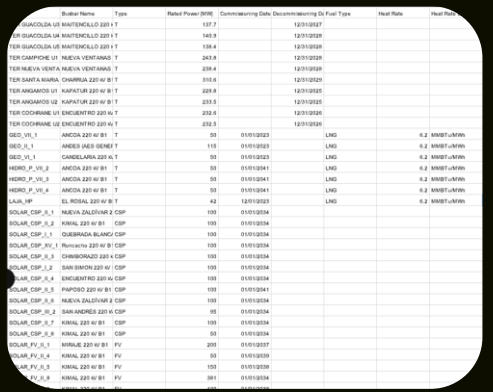
TAPESTRY.

THOUSANDS OF DATA POINTS

MANUAL PROCESSES



SILOED INFORMATION



TAPESTRY.

What if we could build Google Maps for electrons?

TAPESTRY.

Electricity powers prosperity

Source: 2025 Deloitte impact study commissioned by Google and Tapestry

Of a country's GDP can be linked to how much electricity their people use

42%

Estimated annual GDP boost with accelerated energy infrastructure investment (in PJM region of Eastern US)

$20.9B

Estimated increase in total construction jobs (in PJM region of Eastern US)

5%

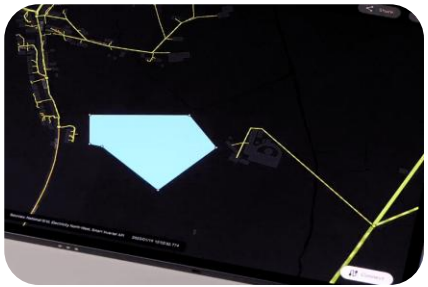
TAPESTRY.

Applying AI to every job across the grid

MANAGE

GridAware Suite

PLAN



Grid Planning Tool Suite

OPERATE

Operations Tool Suite

Advanced AI applications are essential to
meet the twin challenges of accelerating demand and renewables

TAPESTRY.

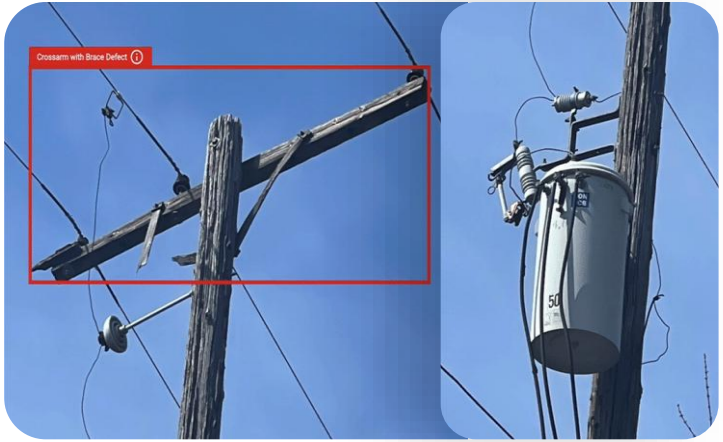
GridAware • Manage

AI to map the distribution grid

Manage

MANAGE

GridAware



4M assets mapped	51K overhead lines	500K Images

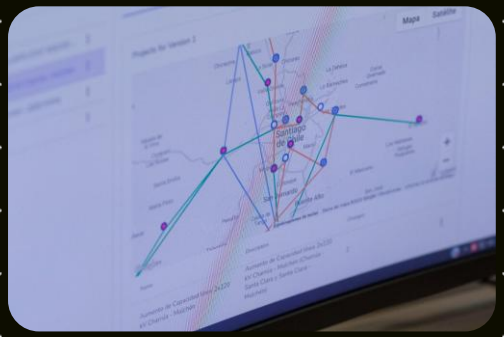
TAPESTRY.

Plan

Simulation and analysis can take planners 2+ weeks

SCENARIO MODELING & DEVELOPMENT

3-10 days



SIMULATION

120 hours

ANALYSIS & PLANNING

2-5 days

TAPESTRY.

Case study • Grid Planning Tool • CEN Chile

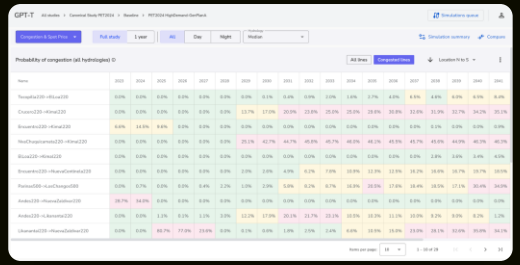
Plan

With Tapestry's Grid Planning Tool, it takes 1-2 days

FASTER

86% faster

From 120 hours to
16 hours for studies.



EASIER

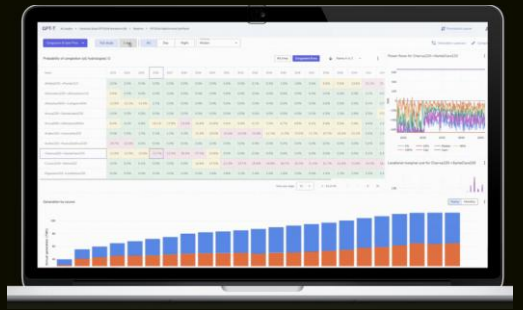
30x scenarios

From one scenario at
a time to 30 in parallel.

SMARTER

Intuitive decision support

And finer granularity simulation -
exploration with AI

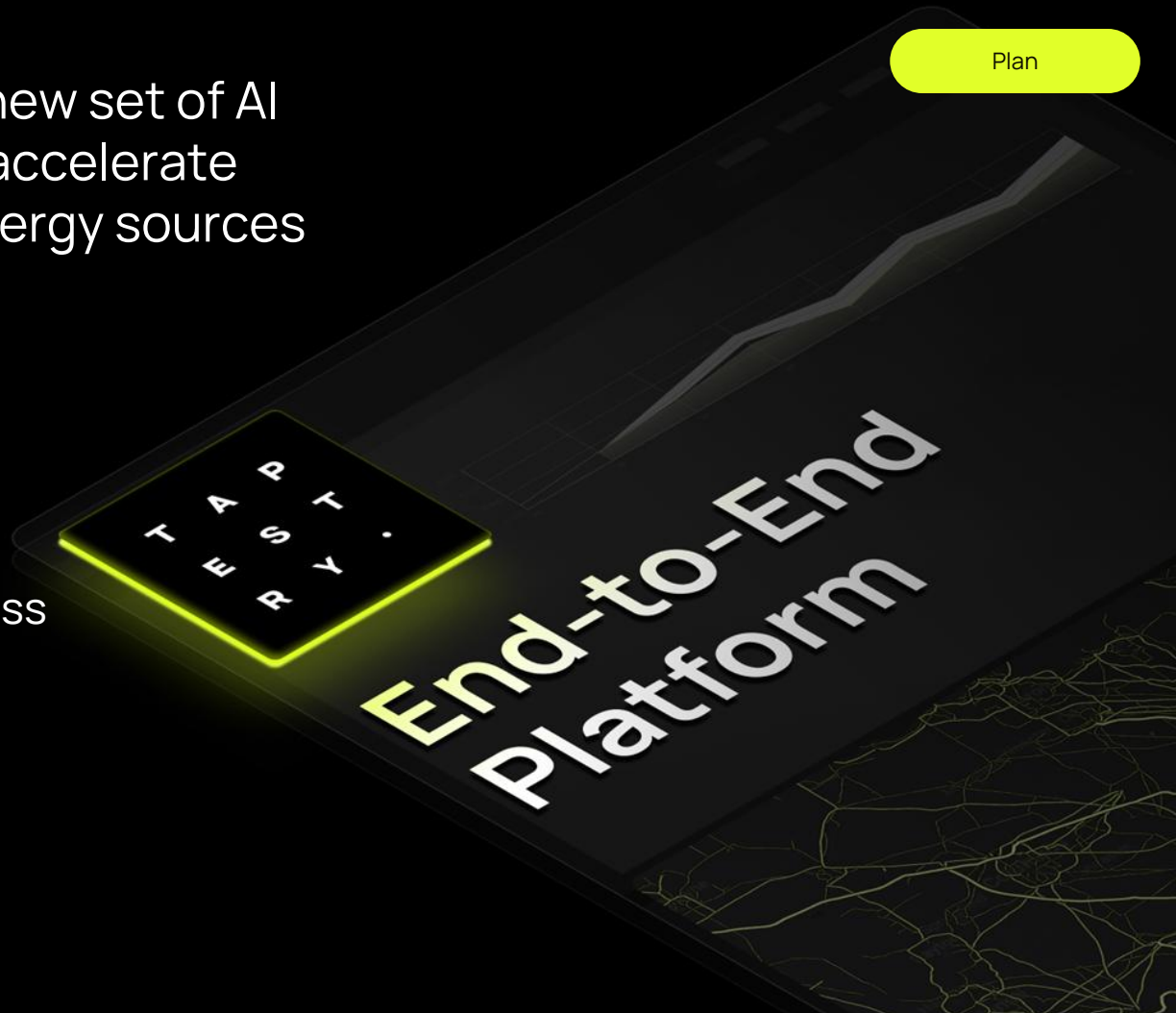


TAPESTRY.

Plan

Tapestry is developing a new set of AI tools and models to help accelerate the connection of new energy sources to PJM's grid

This is the first time artificial intelligence is being used to manage an entire energy interconnection queue process



TAPESTRY.

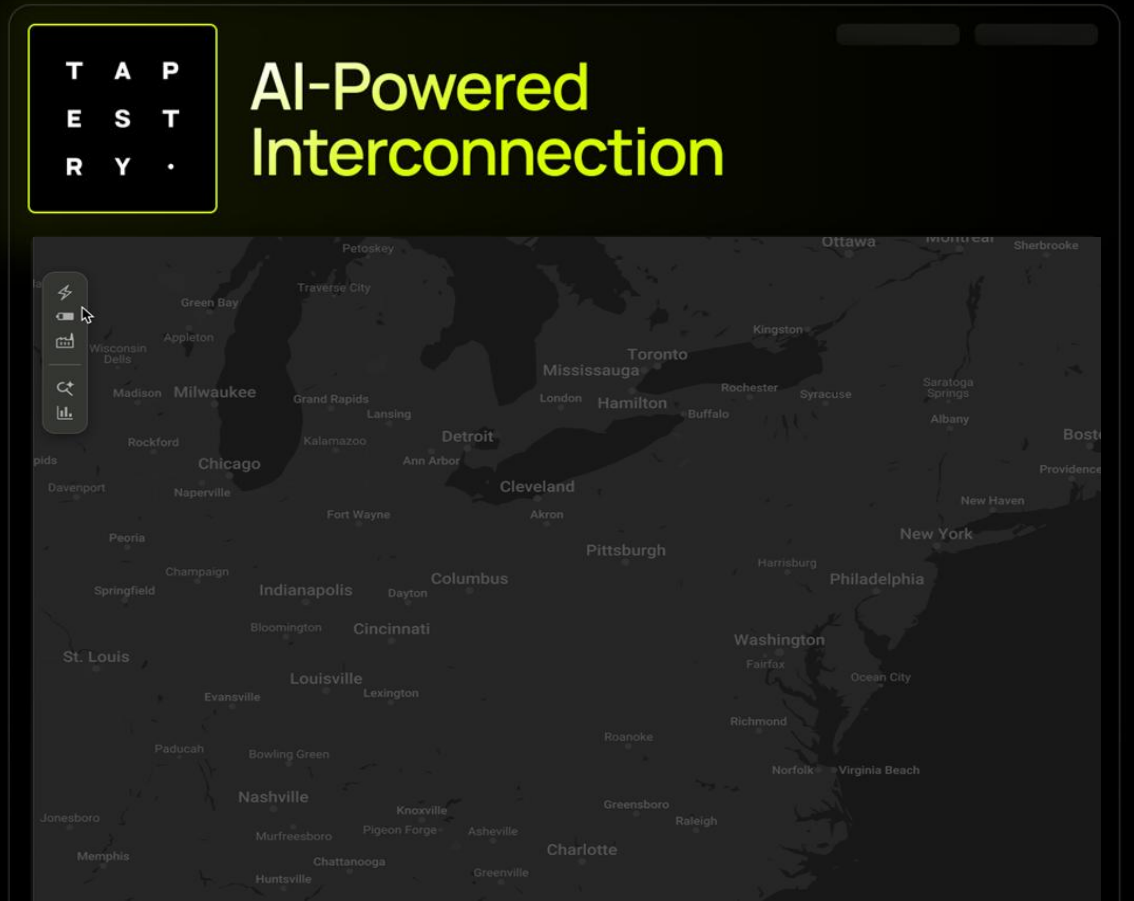
Plan

Interconnection application automation

Faster approvals
Automatic checks speed up new energy connections

Verifies requirements
Instantly confirms land rights, equipment, grid impacts

Streamlined process
Easier application process for developers and PJM



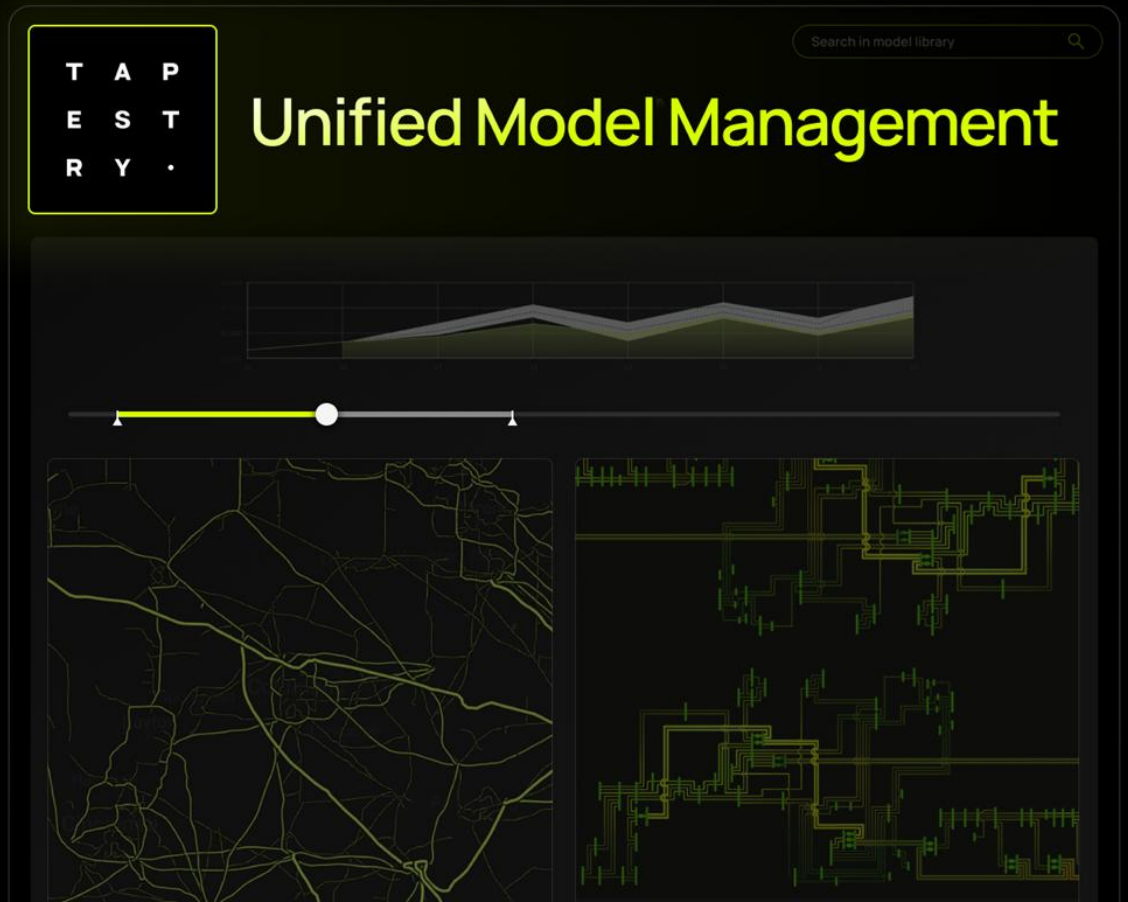
TAPESTRY.

Plan

The first unified model of PJM's grid

Single view
Combines dozens of models and databases into one, cloud-based platform

Streamlined model management
Consistent, up-to-date data across the grid



TAPESTRY.

Load forecasting • Operate

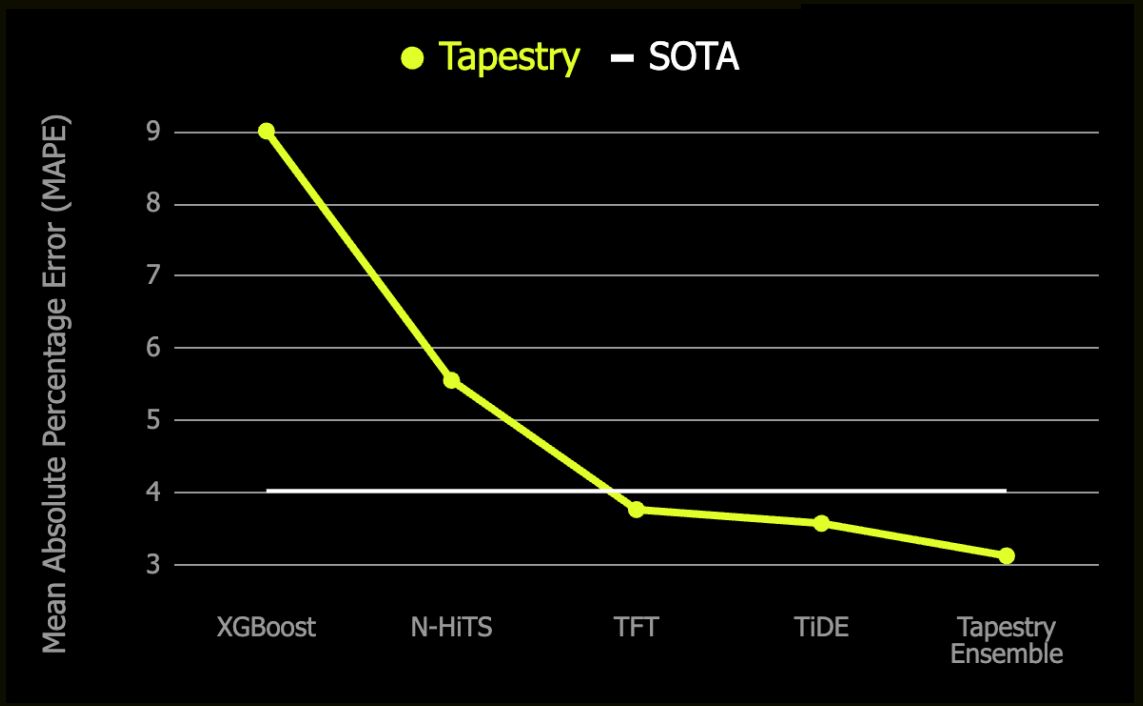
Operate

Deep Learning models beat classical grid operator models

22%

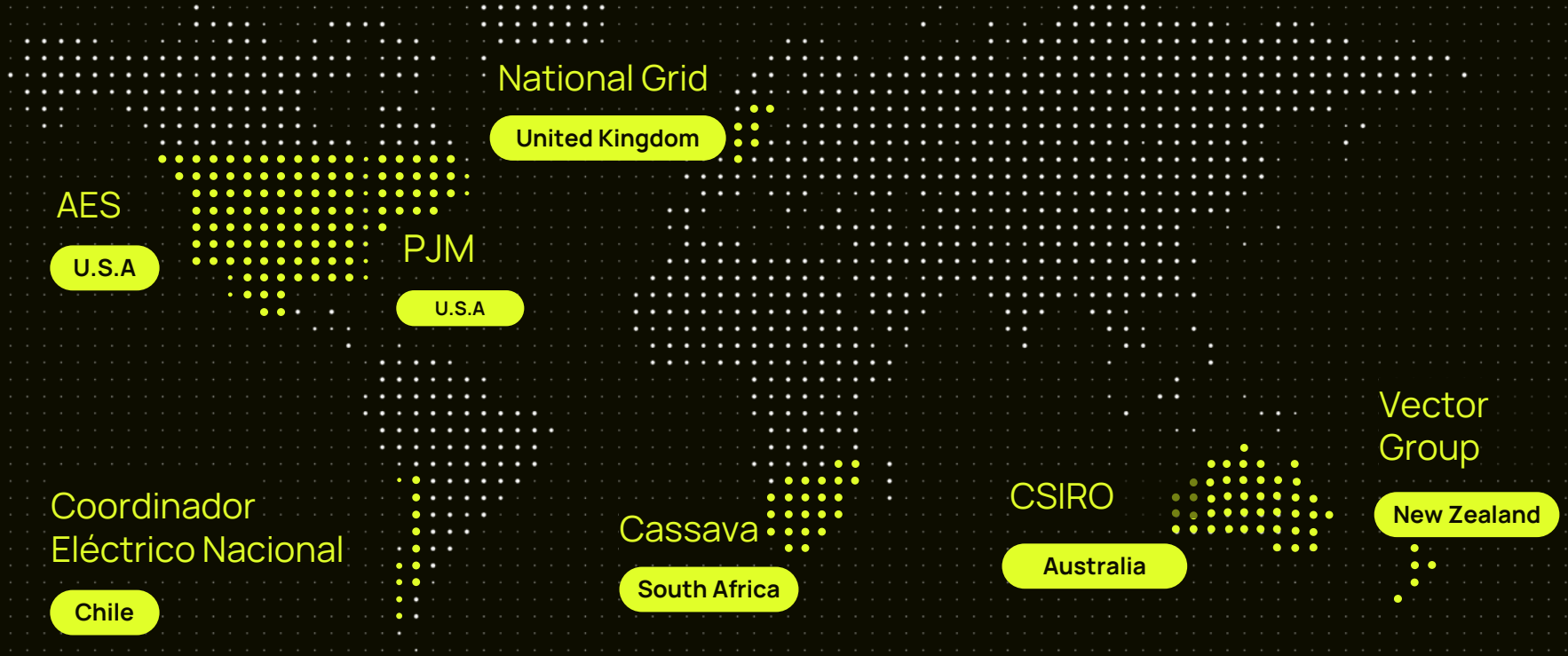
Improvement

SOTA = State of the Art



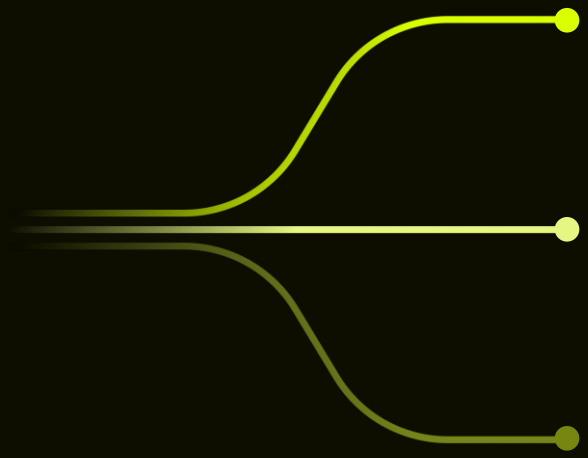
TAPESTRY.

Innovating with partners around the world



TAPESTRY.

If we work together, we can ensure AI will make the grid, not break the grid.



DATA ACCESSIBILITY

Robust datasets and open standards and protocols help AI models deliver the best conclusions, recommendations, and predictions.

CROSS-DOMAIN EXPERTISE

AI, software and grid experts need to work together to transform critical processes and build agile energy infrastructure.

PARTNERSHIPS

Chile's innovative approach and trust made them an ideal partner. Replicating this trust-based approach can unlock similar progress towards clean, reliable, and equitable grids globally.

TAPESTRY.

TAPESTRY.

THANK YOU