



The Next Evolution of Utility Data

Utilyze improves temperature forecasts and visualizes weather and infrastructure data on interactive maps to strengthen grid resilience

Forecasting Challenges

- Electricity demand is **highly sensitive to temperature**, especially during extreme heat.
- Temperature forecast errors introduce **uncertainty into load predictions** and operational planning.
- Weather, outage, and infrastructure data are **often fragmented** across separate systems.

Operational Consequences

- **Less accurate load forecasts** make it harder to anticipate peak demand.
- **Unexpected weather conditions** can increase operational strain and complicate resource allocation.
- **Limited geographic and historical visibility** makes emerging infrastructure risks harder to understand.

Major Outages

100

outages per year affecting 10,000 or more customers per event

28 hrs

to completely restore a major outage event



2 hrs for avg outages vs 28 hrs for major outages

Reduce Outages

Pinpointing the cause of an outage sooner shortens estimated time of restoration and lifts customer satisfaction scores.

Outage Costs

\$1.1B

Duke Energy storm costs, 2024 season · \$550 per customer

\$700

customer losses over a 28 hour event, at \$25/hour



\$100–500 utility O&M vs \$700 borne by customers

\$20 + \$70
per customer

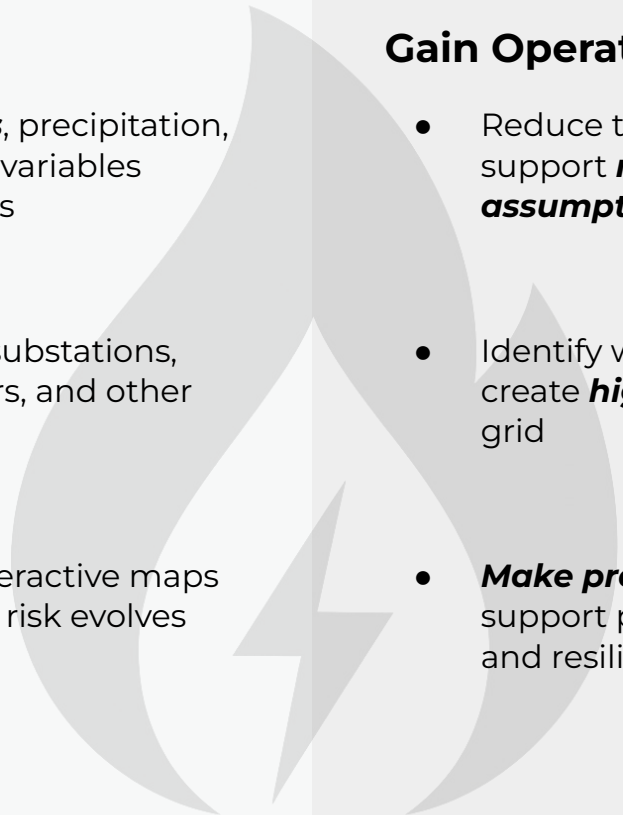
A 10% cut in restoration time and truck rolls saves \$20 per customer in O&M; a 10% cut in customer losses saves another \$70 per event.

Improve Forecast Visibility

- **View *temperature forecasts***, precipitation, lightning, and other weather variables alongside infrastructure layers
- **Visualize *conditions*** across substations, feeders, transmission corridors, and other critical assets
- **Display *forecast data*** on interactive maps over time to understand how risk evolves geographically

Gain Operational Insight

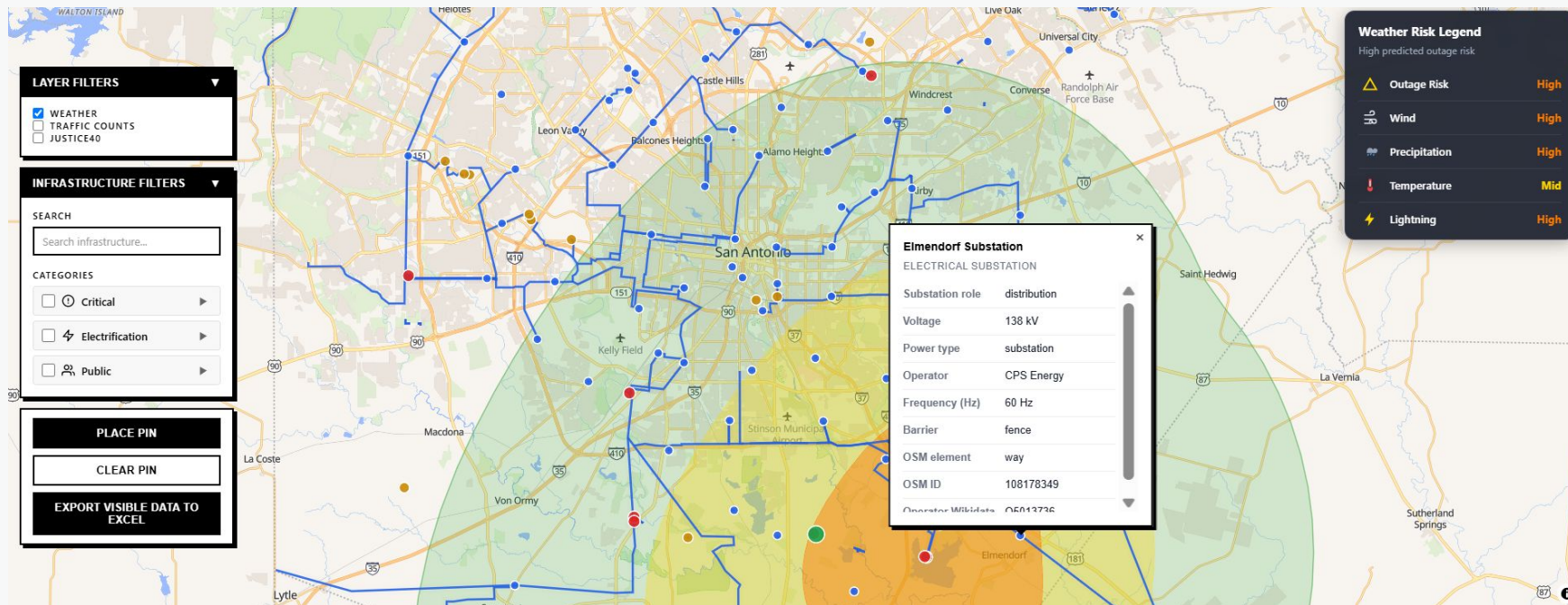
- Reduce temperature forecast error to support ***more reliable load and planning assumptions***
- Identify where weather conditions may create ***higher operational stress*** across the grid
- ***Make predictive weather scenarios*** to support preparedness, resource allocation, and resilience planning



Solution: Visualize Weather & Infrastructure Risk On Interactive Maps

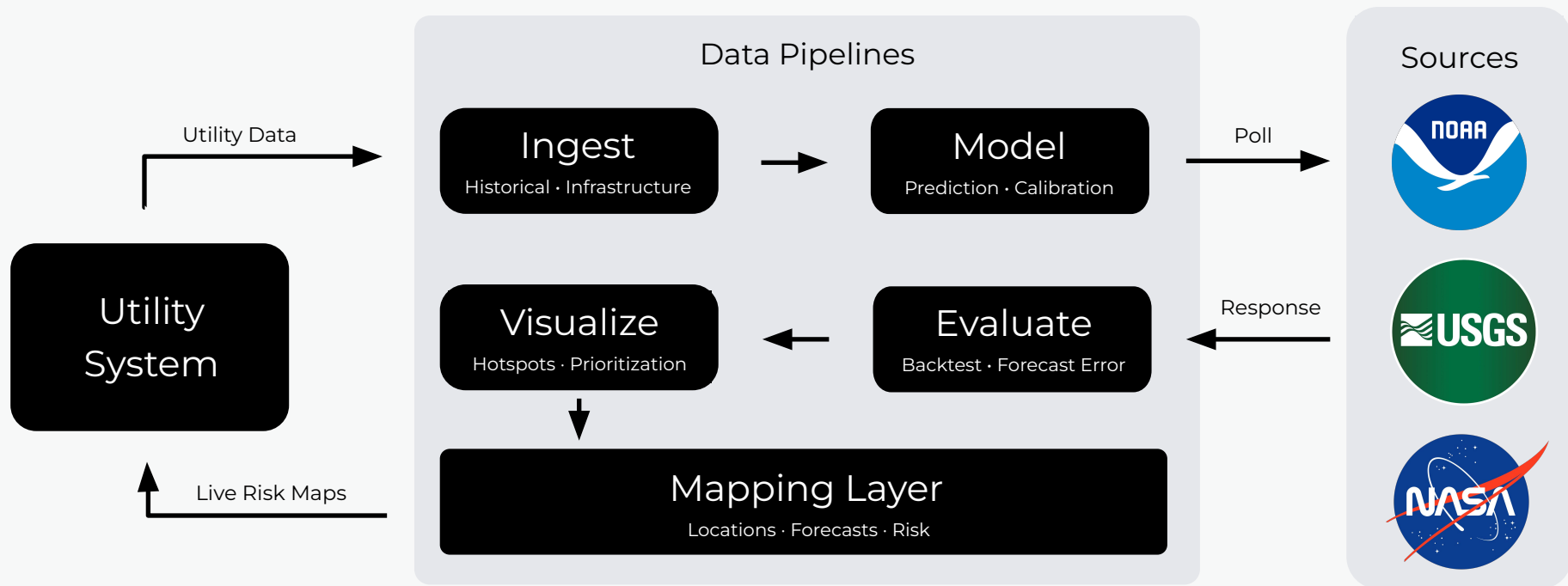
UTILYZE

Galileo combines improved temperature forecasts with interactive infrastructure maps, helping utilities plan for grid resilience



[Utilyz Demo](#)

Galileo combines weather, geological, and geospatial data so utilities can dynamically forecast load and visualize data in real-time



EV Planning Demand



- Utilize built a volunteer community [mapping tool with AEG](#) to explore electrification planning and community equity mapping to expand EV pilots

Resiliency Demand



- CPS Energy granted municipal partners [\\$1.5M to build digital twins](#) for simulating various resilience scenarios highlighting the demand for this technology

AVERAGE METERS

50,000
meters

A mid-sized electric utility typically manages 40,000 to 60,000 metered connections across its service territory.

MONTHLY SAAS FEE

\$1.00
per month

Utilyze prices outage risk prediction on a simple per-meter basis, scaling directly with the size of the utility's service area.

ESTIMATED ANNUAL COST

\$600k
per year

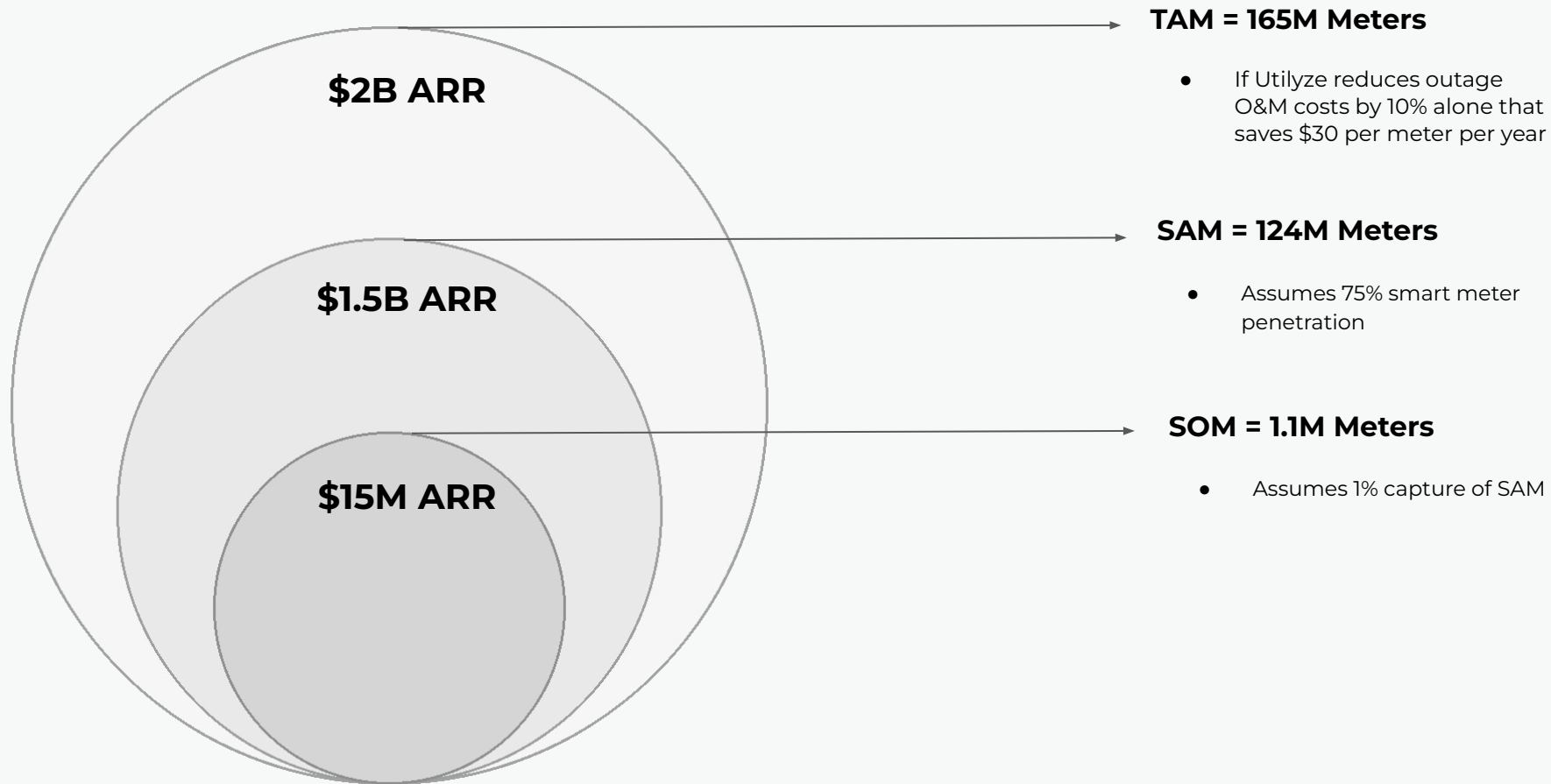
The average utility can expect to invest \$50,000 per month, or \$600,000 annually, in load and outage prediction that protects against unplanned scenarios.

Utilities

- **Buyer** — VP Grid Operations, Director of Load Forecasting, or System Planning teams.
- **Wedge** — Demonstrate lower temperature forecast error against existing benchmarks and visualize changing conditions across the grid.
- **Land** — Pilot Galileo in selected service territories, providing accuracy reports and interactive weather maps

Data Centers

- **Buyer** — Director of Data Center Operations, Energy Management, or Infrastructure Resilience.
- **Wedge** — Benchmark temperature forecasts to support cooling demand planning and visualize weather exposure across facilities.
- **Land** — Pilot site-level forecasting, measuring accuracy and mapping changing weather conditions over time.



Electric Utilities

119M

electric smart meters
installed in the US



72% of all electric meters are smart · each square = 1%

3,000

electric utility
operators in USA



2/3 electric utilities in the US are publicly owned

Scalable
deployment

Coverage extends across an entire service territory using meters that are already in place, with no new hardware to install.

Data Centers

5→10%

of all US electricity usage
from 2025 to 2028



solid = today · light = projected growth by 2028 · each square = 1%

1,900

data center
projects underway



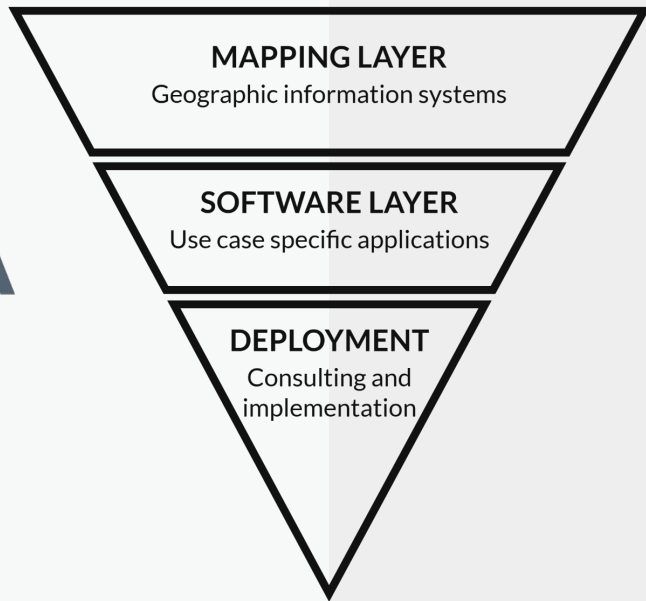
1/3 of data centers could be fully off-grid by 2030

Direct
incentives

Operators are paid on uptime, so avoided downtime is a line item they already measure and budget against.

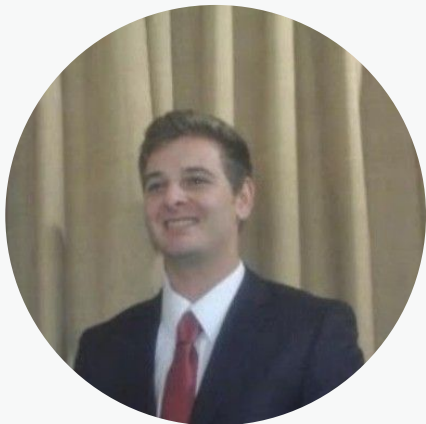


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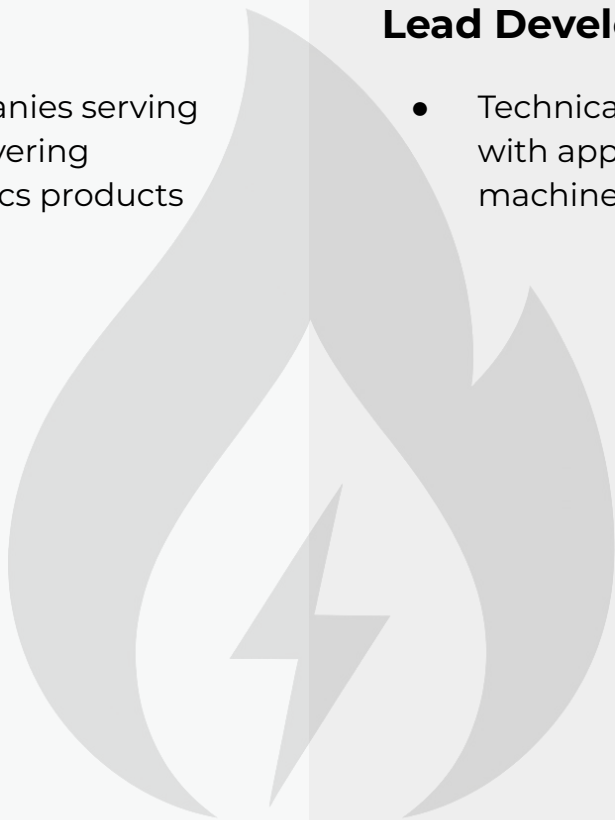
CEO — [Kenneth Anshewitz](#)

- Strategy experience at companies serving banking and utility clients covering payments and outage analytics products



Lead Developer — [Alvis Yan](#)

- Technical expertise in software development with applied AI research experience in machine learning for healthcare products



Organizational Inputs

- **Pilot sponsor** to coordinate forecasting evaluations, identify users, and measure success.
- **Historical weather and load data** to benchmark accuracy and assess operational relevance.
- **Operational feedback** from forecasting, grid planning, or data center teams to identify priority use cases.

Technical Resources

- **Forecasting compute resources** to run Galileo, evaluate predictions, and support pilot deployment.
- **Data access and integration** support to connect weather forecasts with existing infrastructure and mapping systems.
- **Pilot funding and technical support** to validate accuracy, develop dashboards, and prepare for commercial deployment.



The Next Evolution of Utility Data

Utilyze is seeking to partner with utilities and data centers to pilot predictive temperature and mapping software