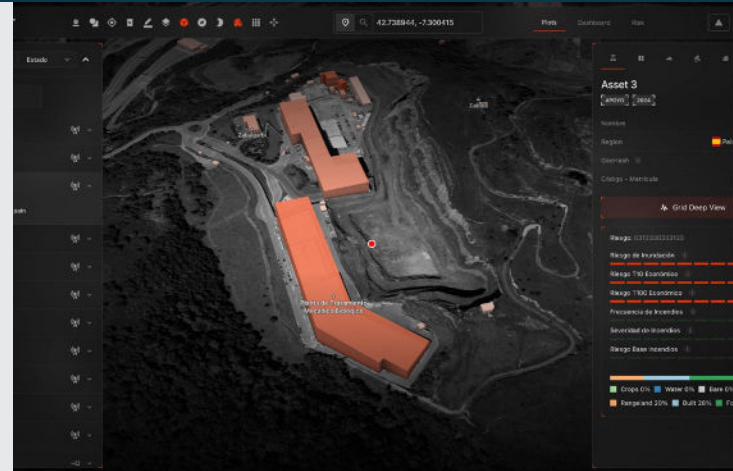


SUCCESS CASE 6.2026

PREDICTERRA by Woza Labs

PREDICTIVE ALLOCATION OF FIELD RESOURCES FOR CLIMATE-READY NETWORKS



THE CHALLENGE

UFD, the electricity distribution company of the Naturgy Group, operates a large low- and medium-voltage network across diverse Spanish geographies, exposed to a wide range of climate-related risks. In recent years, UFD has faced a **new operating context**:

- More frequent and intense extreme weather events, increasing the probability of climate-driven faults and outages.
- Growing electrification of demand and distributed generation, adding stress to LV and MV networks.
- Strong pressure to improve continuity indices and customer experience while controlling OPEX.

Operations have progressively evolved towards a more proactive and optimised model, further improving outage planning, reducing interruption times and enhancing cost efficiency.

THE SOLUTION: PREDICTERRA

To address this challenge, UFD partnered with Woza Labs to deploy *Predicterra*, a **climate risk intelligence platform designed for critical infrastructure**.

Predicterra uses AI, geospatial analytics and remote sensing to transform climate and asset data into a living model of risk at asset and grid level. For UFD, this capability supports anticipatory and optimised planning of field resources ahead of severe weather events.

The solution:

- Integrates UFD's asset registers and incident histories with multi-source climate and environmental data.
- Generates short-term risk forecasts (hours to 14 days) for specific zones, feeders and assets, indicating where failures are most likely to occur.
- Provides asset- and grid-level risk scores, combining hazard intensity with network criticality and customer impact.

MAIN ACHIEVEMENTS

Validated prediction accuracy

Strong alignment between predicted risk areas and incidents observed in the analysed network zones

Proactive incident management

UFD's operations teams can now anticipate failures days in advance and focus on the most critical assets.

Smarter field resource deployment

Field resources are pre-positioned ahead of severe weather events, in line with estimated risk levels.

Reduced OPEX and interruption times

More accurate deployment contributes to lower OPEX and shorter interruption times for customers.

Scalability across the network

The same engine can be extended to new regions, hazards and use cases, making Predicterra a strategic platform.

Spatial risk corridors

Clusters of high-risk grids matching where incidents actually occurred, giving clear zones to prioritise.

Long-Term Planning

Decades-ahead simulations to test scenarios, evaluate alternatives, and plan with confidence.

KEY SUCCESS FACTORS

From UFD's perspective, the success of the initiative was driven by the following key factors:

A digital twin that behaves like a planetary engine

Not a static replica, a physics-informed, AI-driven simulation, capable of modeling the real world.

Enterprise × startup, one team

UFD's scale and governance paired with our speed and focus aligned on outcomes, not deliverables.

Validation at every step

Hypothesize, test, prove, deploy. Each iteration earned its way into operations.

Production-grade solution engineered for operational use

Built by engineers for operators, production software, not slideware.

Grounded in science & data

Climate and geospatial science fused with asset telemetry, evidence over opinion.

WAY FORWARD

New Regions

Expand the engine into new geographies and climate regimes.

More Asset Classes

Extend modeling to substations, transformers, pipelines, and critical facilities.

Advanced Environmental Models

Integrate vegetation, wildfire, soil, and hydrology simulations.

Deeper Operational Integration

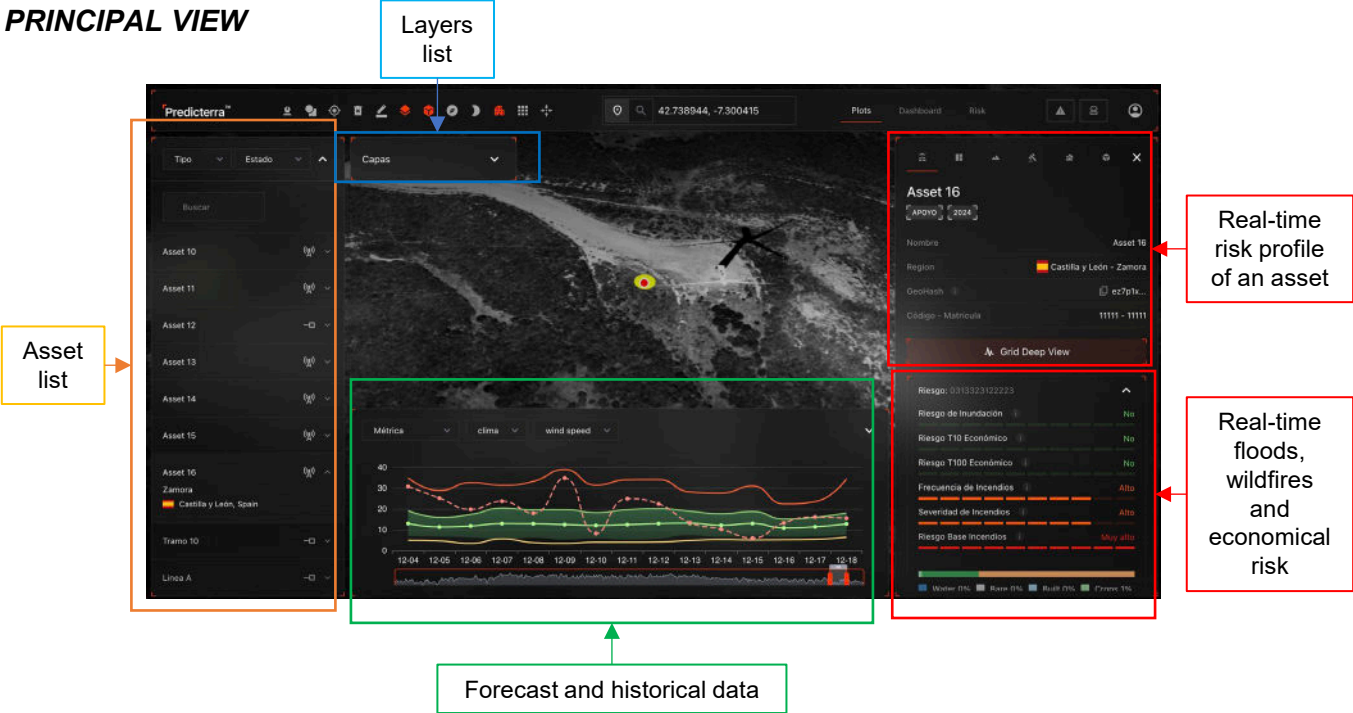
Connect Predicterra directly with internal tools and workflows.

Continuous Intelligence

A system that learns from every incident and improves itself in real time.

PREDICTERRA'S MAIN VIEWS

PRINCIPAL VIEW



RISK VIEW

