

THE DOT FACTOR

RELIABILITY PREDICTION THROUGH
ASSET MANAGEMENT SCENARIOS



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THE CHALLENGE



Electricity transmission and distribution operators **lack predictive tools** to anticipate the **impact of their asset management decisions** on **network reliability**, particularly regarding the SAIDI (system average interruption duration index)



Current approaches are **reactive** or based on aggregated variables, making it **difficult to plan investments**, justify costs, and improve service reliability

ELECTRICITY UTILITIES OUGHT TO HAVE ACCESS TO STRATEGIC AND OPERATIONAL DECISION-MAKING TOOLS



THE ANSWER

Key priorities include:

Improving network reliability

Optimizing investments and maintenance

Transitioning to predictive, data-driven approaches

Supporting digital transformation

Aligning with international best practices (ISO 55001)

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THE ANSWER

Developing an **Asset Management Scenario Simulator** through three steps:

1 Data collection

Creation of a database with historical transmission business data (~10 years)

-  Infrastructure age
-  # customers
-  CAPEX
-  Sales
-  OPEX
-  SAIDI



2 Correlation analysis with SAIDI

Development of tests on the predictive power of data through correlations between model variables and SAIDI

3 Development of forecasting models

Development and testing of machine learning models, such as supervised algorithms and multivariate time series regressions.



THE IMPACT

1

Enhanced decision-making

The **predictive simulator** allows operators to anticipate the effect of **asset management decisions on network reliability (SAIDI)**, supporting more robust and strategic planning.

2

Optimized investments

By testing scenarios of maintenance and investment under budget constraints, companies can **justify CAPEX/OPEX and maximize value.**

3

Innovation and competitiveness

Adopting a scalable, **data-driven solution that strengthens compliance** and positions the company at the forefront of digital transformation.

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