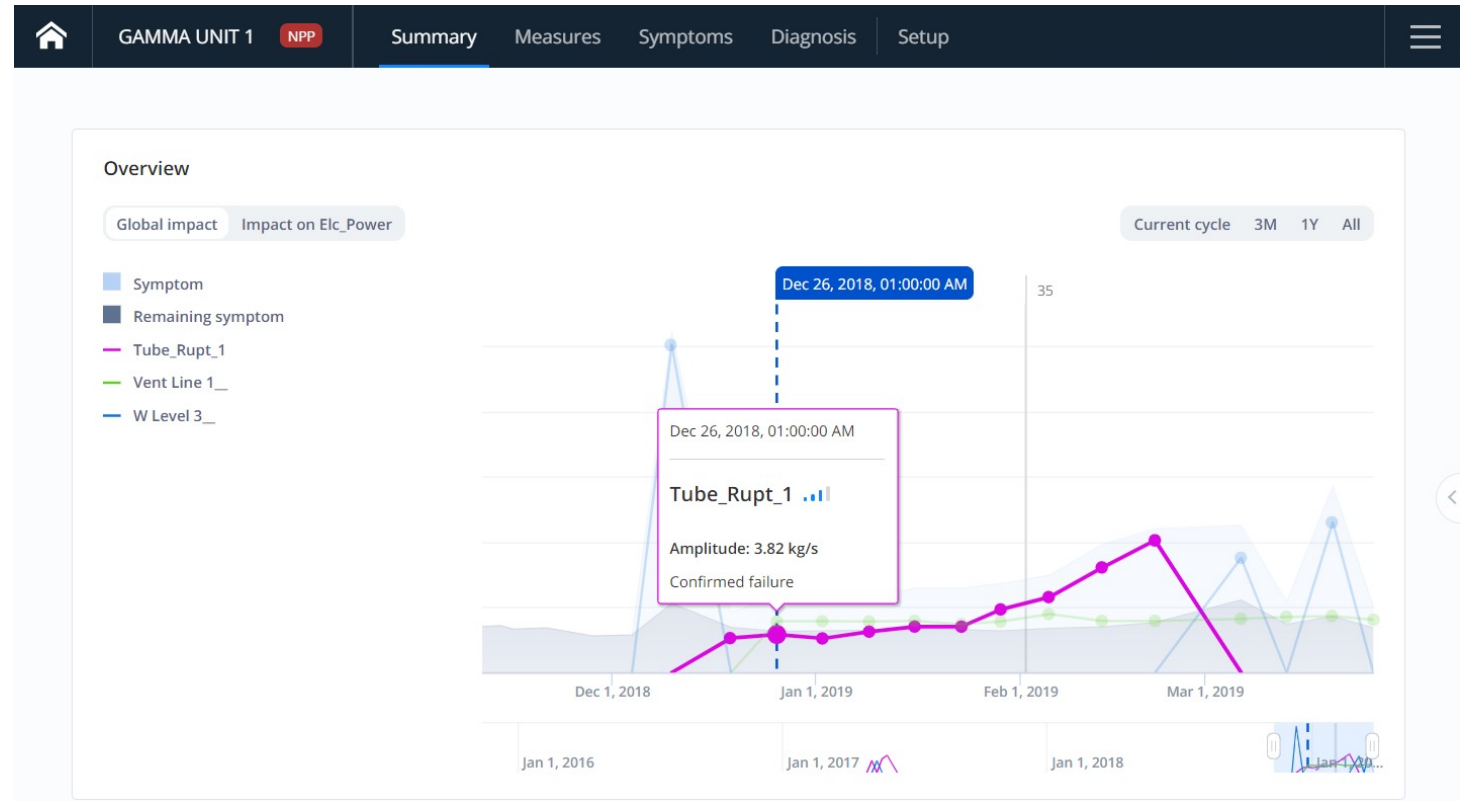# metroscope

Better performance
Less maintenance

Our software

Designed with operating teams

Diagnosis for power plants

- Exploration of the data
- Detection of abnormal behavior
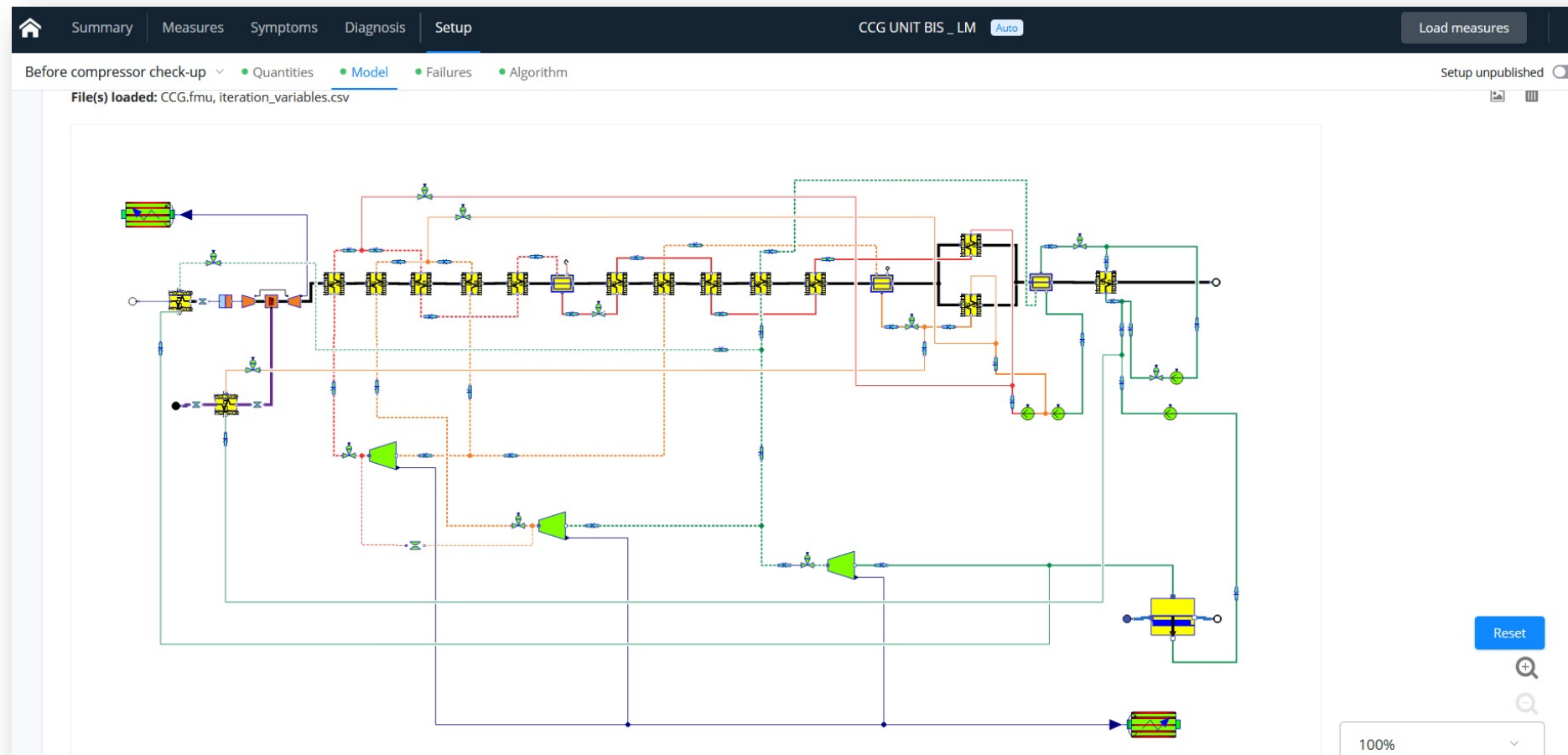- Understanding of root causes

Demo

Our users

We facilitate cross team communication and decision making.

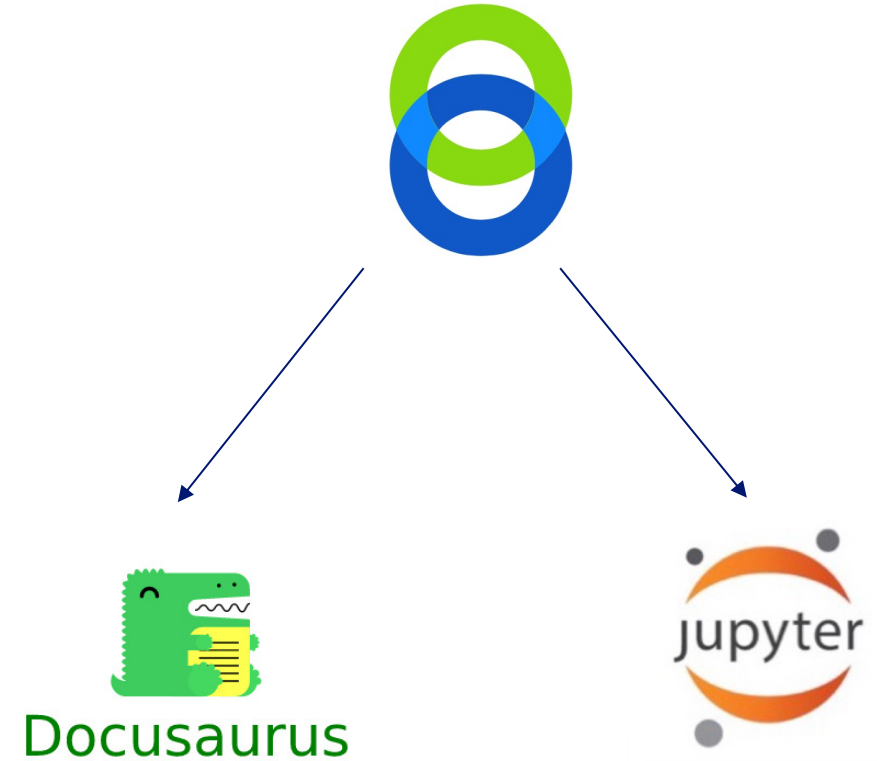| Who	Where	When	Goal
Operators / plant managers	On site	Daily 24/24h	Live supervision of operations
Monitoring teams	M&D center	Weekly	Support decision + explorations
Corporate, asset manager	Corporate	Monthly	Fleet view + maintenance programmation

Map of your plant

Faults are automatically located and qualified.
Their magnitude, impact and likelihood are quantified.

The map gives a full overview of plant's common problem, detected by Metroscope.

Cloud ecosystem

- Secure and safe storage of the data
- Virtually unlimited performance to calculate diagnosis on several nodes in parallel
- Regular and seamless updates and bug fixes
- Integrated tools like Docusaurus and Jupiter for creation own reports

Cloud infra located in your country
Compatible with Azure

A "few" facts about Metroscope

59

Plants

equipped worldwide

2000

GWh

saved in 2020

90%+

Reliabilty

reported by customers

Testimonials

"By partnering with Metroscope, we are providing customers around the world with critical information to anticipate repairs, increase plant performance and increase competitiveness."

Catherine Cornand, Senior EVP Installed Base Business Unit **Framatome**

*"*Framatome will develop two novel digital twins for use with Metroscope, a software package that connects digital twins and their associated fault libraries and monitors them with an algorithm to detect problems early on*."*

DOE, Department of Energy in the USA

Testimonials

"Our Nuclear fleet trusts Metroscope, a fast-growing startup supported by the Group"

Xavier Girre, Group Senior Executive Vice-President, responsible for the Finance Division of **EDF**

"We saw Metroscope in action on nuclear plants. Their technology is powerful, based on the secured and scalable capabilities of Azure Cloud, and definitely they will be active partners for Microsoft in the future"

Laurent Curny, General Manager, Enterprise at **Microsoft**

Thank you
for your attention

How does it work?

The Digital Twin

- Builds live symptoms for the plant

- Symptoms = Measurements – Expected Values

Metroscope diagnosis algorithm

- Embedded in the software

- Root Causes Analysis by magnitude and likelihood

- Diagnostics = P (Failures | Symptoms)

Sensors

Digital Twin → Expected behavior → Symptoms

Failures library

Software

Diagnostics