

1400MGE

## AI and Environment

### Realization

Determine the main factors influencing the deterioration of the power plant while preserving the environment

### Available data

Plant environment data, weather data

### Modeling

classical methodology to the Data Science : Data Cleaning, Statistical Analyses (Correlation Table), Modeling: Building a statistical model using artificial intelligence methods to explain a variable and thus find factors influencing the phenomena to be explained.

Time lag: The data from the power plant are supposedly correlated with a time lag that had to be determined to estimate and take it into account.

Conclusion

### Added value

The aim was to provide, through statistical tools, a better understanding of the phenomenon and the influential factors in order to allow the implementation of organizational changes and preventive actions adapted to the problem. A report of recommendations has been made thanks to the AI to anticipate the phenomena and extend the life cycle of the plant.

Year of Achievement

2020

Sector

Data Science / AI

Client

Inovsys



10 000 €



3 people including 2 Axiodis



Value Added

Factory life cycle extension