prAIm

## On-demand predictive maintenance analytics service for shopfloor equipment

prAIm

The prAIm service, available through the Market4.0 Marketplace, is a flexible and easy to use AI driven predictive maintenance service, intended for the industrial/manufacturing sector, that utilises batch sensorial and equipment operational data, through advanced prediction algorithms, to provide on-time forecasts of upcoming equipment breakdowns, thus making it possible to take action to alleviate such failures and estimate production losses.
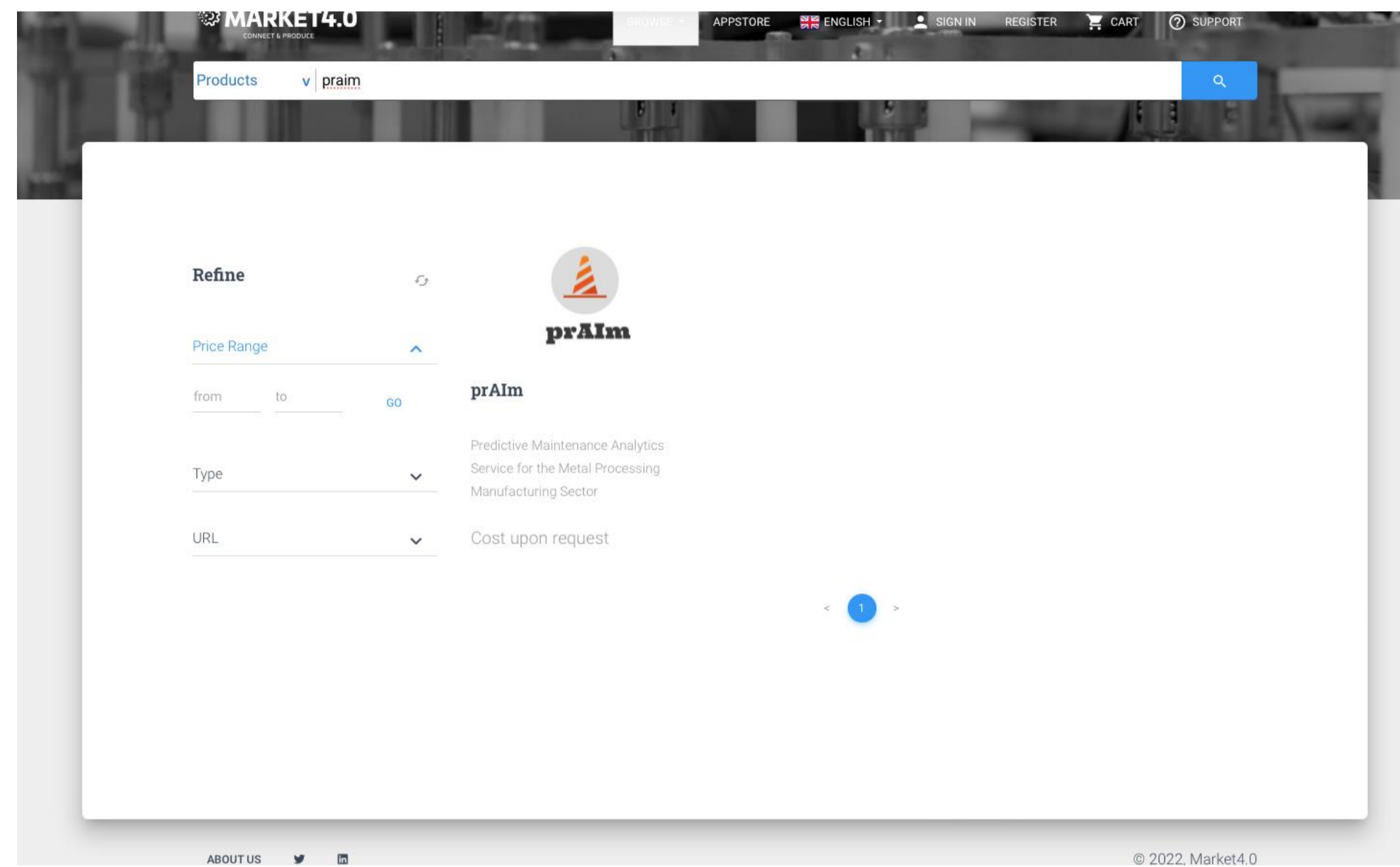
Features

- Data analytics for operational and historical (legacy) data, enabling equipment state detection
- Exploration of the collected operational and legacy data, providing basic statistics
- Prediction of equipment's upcoming operational behaviour, through pre-trained ML algorithms

Benefits

- ✓ On-demand advanced analytics identifying current/past equipment behaviour
- ✓ Prognostic capabilities, forecasting future equipment failures
- ✓ Priced based on the total volume of data analysed and the required duration of the analytics needs
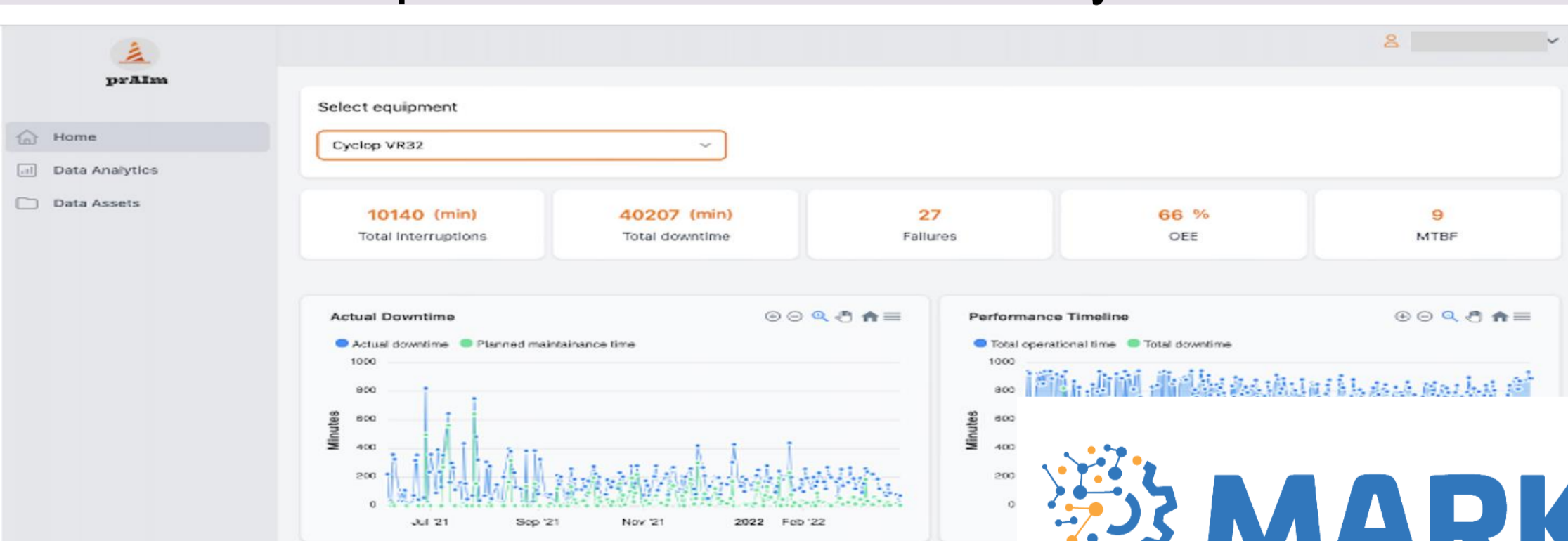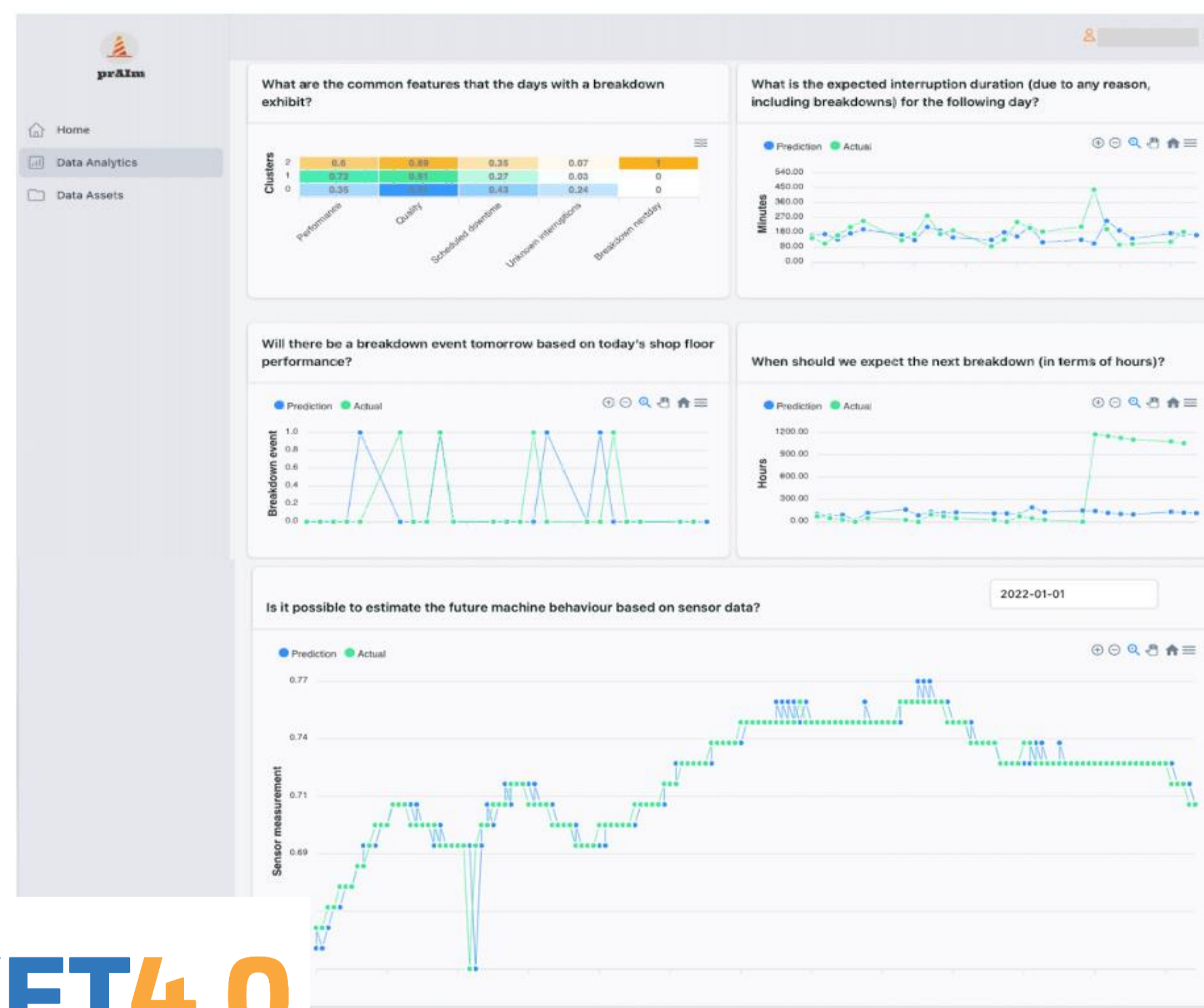
Application validation

prAIm service is validated in real life scenario, utilizing the project's demonstrator (steel processing company) operational shopfloor data.

KPIs evaluation:
- ○ Increase of Total Operational Time (%)
- ○ Improvement of Overall Equipment Effectiveness(OEE) avg. (%)
- ○ Increase of MTBF (Mean Time Between Failures) (%)