Condition Monitoring and Anomaly Detection

Real-world Challenges and Successes

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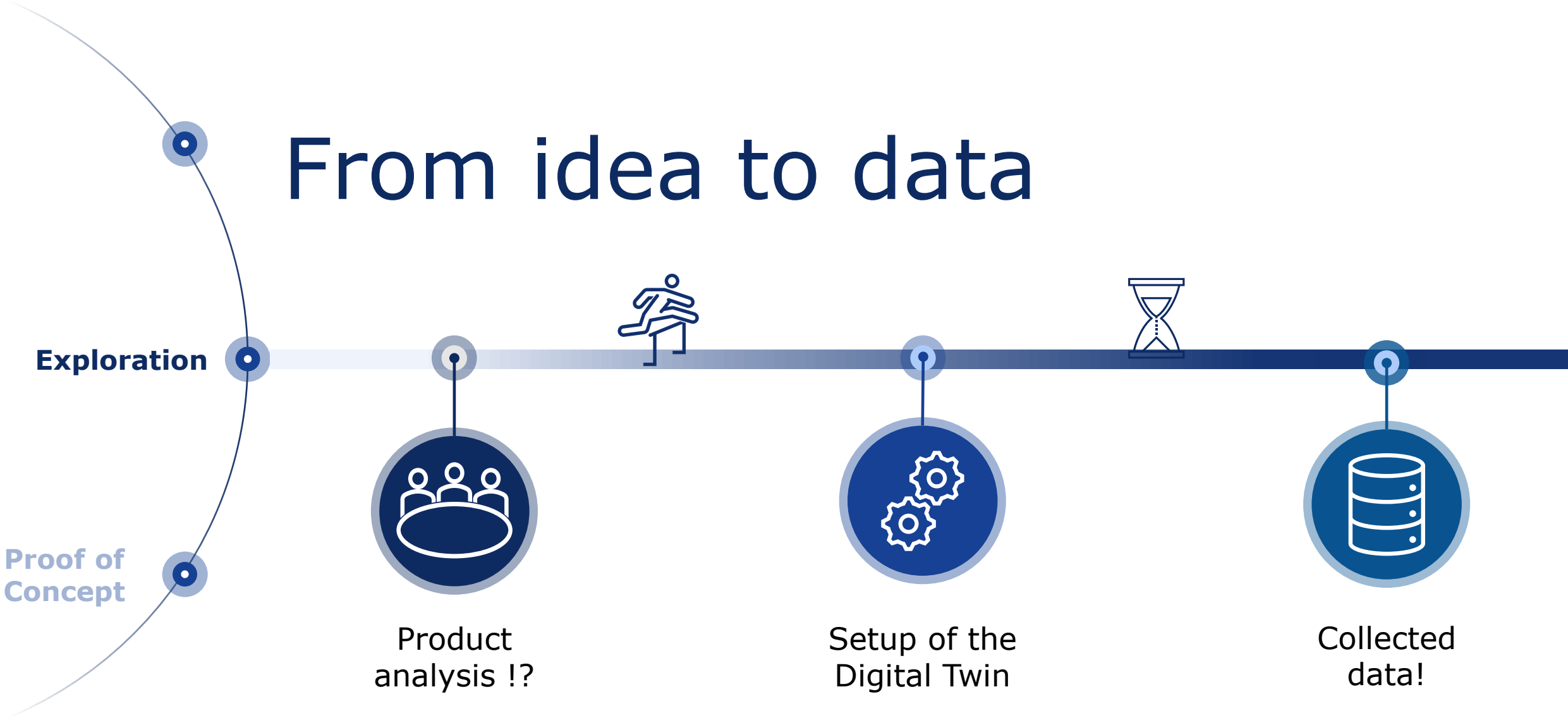
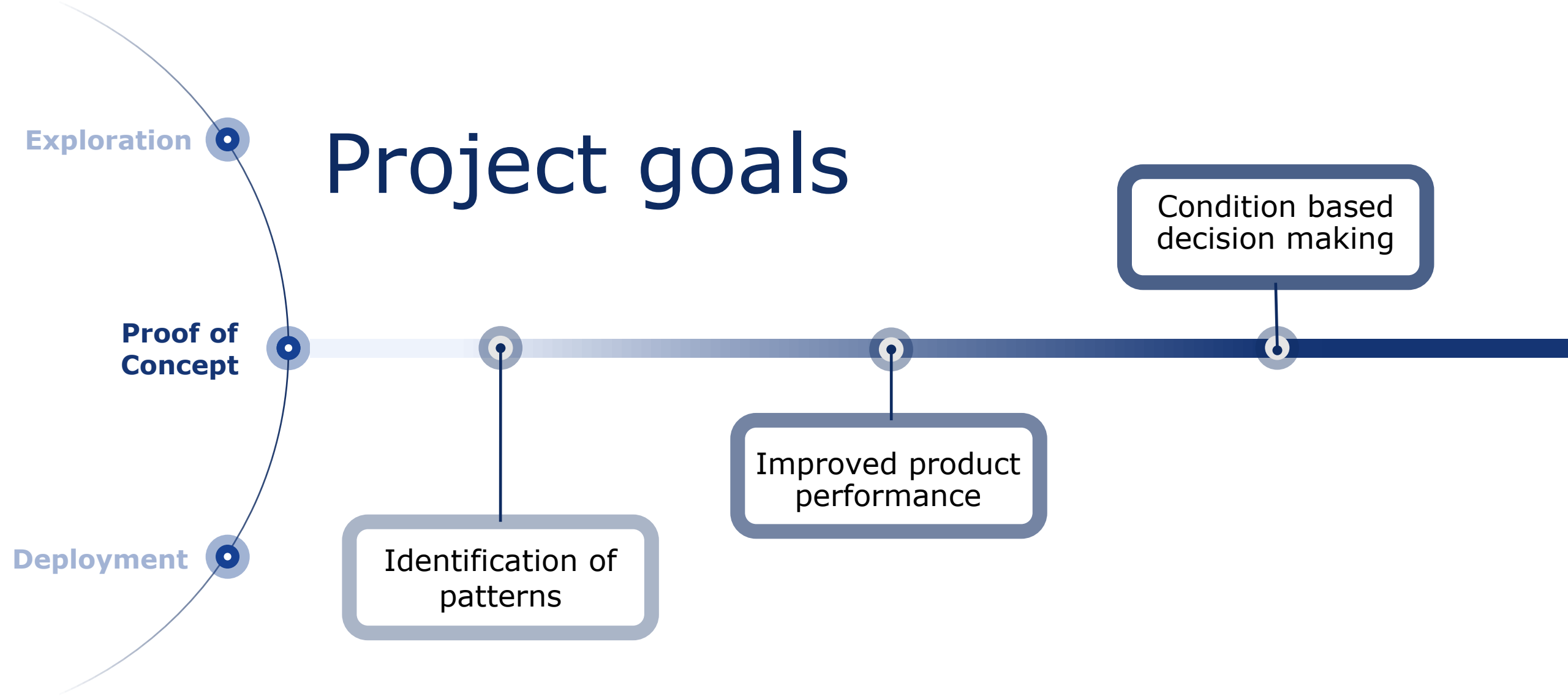
Thomas Zengerle, Ulrich Hüttinger, Norbert Linder

From idea to data



Project goals



Exploration

Proof of Concept

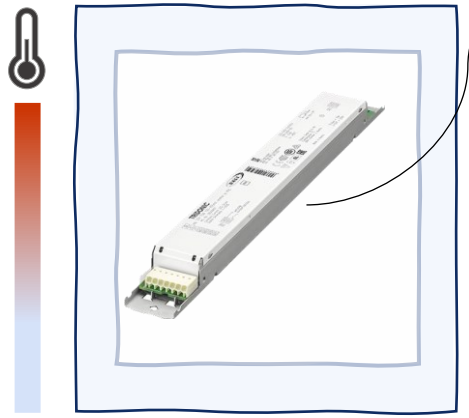
Deployment

Digital Twin

Data Collection

HASS Chamber

highly accelerated stress screening



Storage & Analysis

Data Base Logger

Time Series Data Base

.csv raw data

Analysis and Anomaly Detection

Visualization

Raw data visualization

Approach

Exploration

Proof of Concept

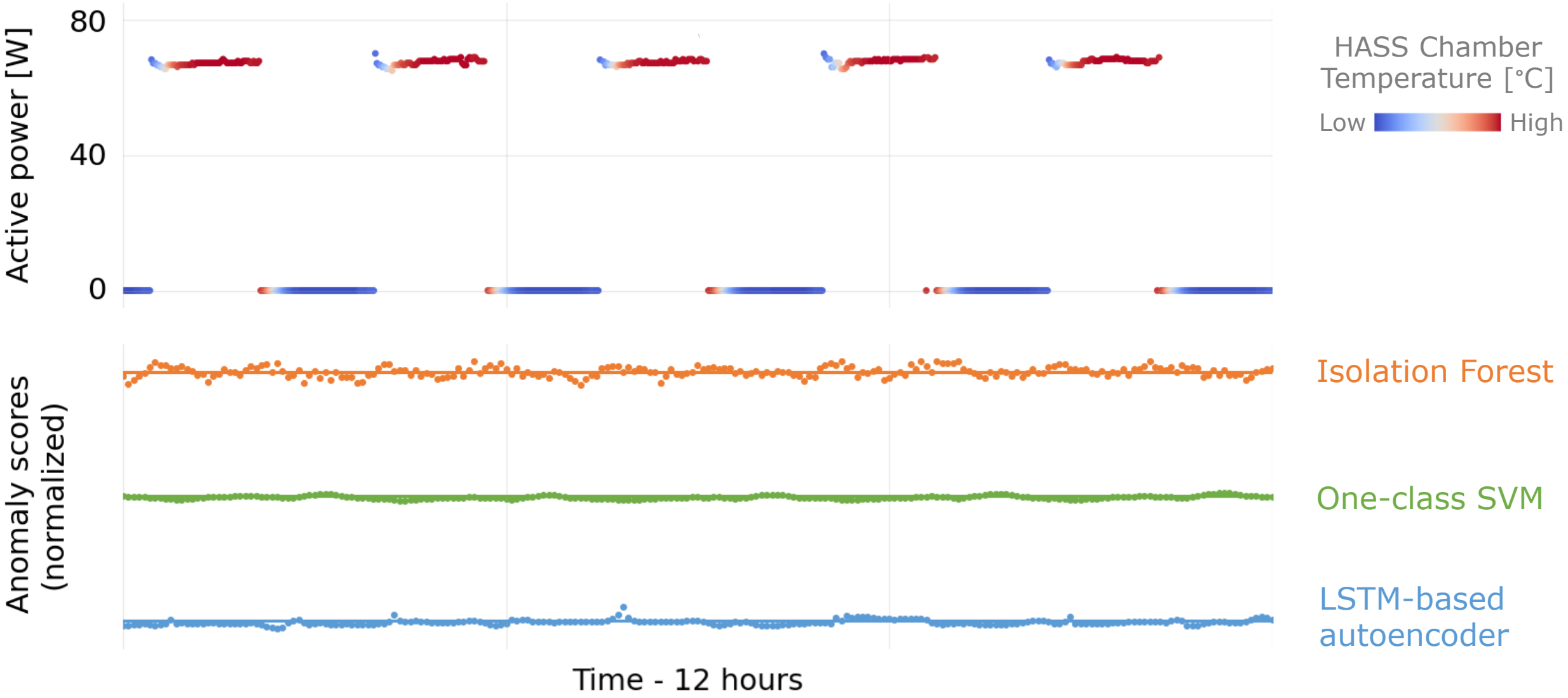
Deployment

Explorative Data Analysis

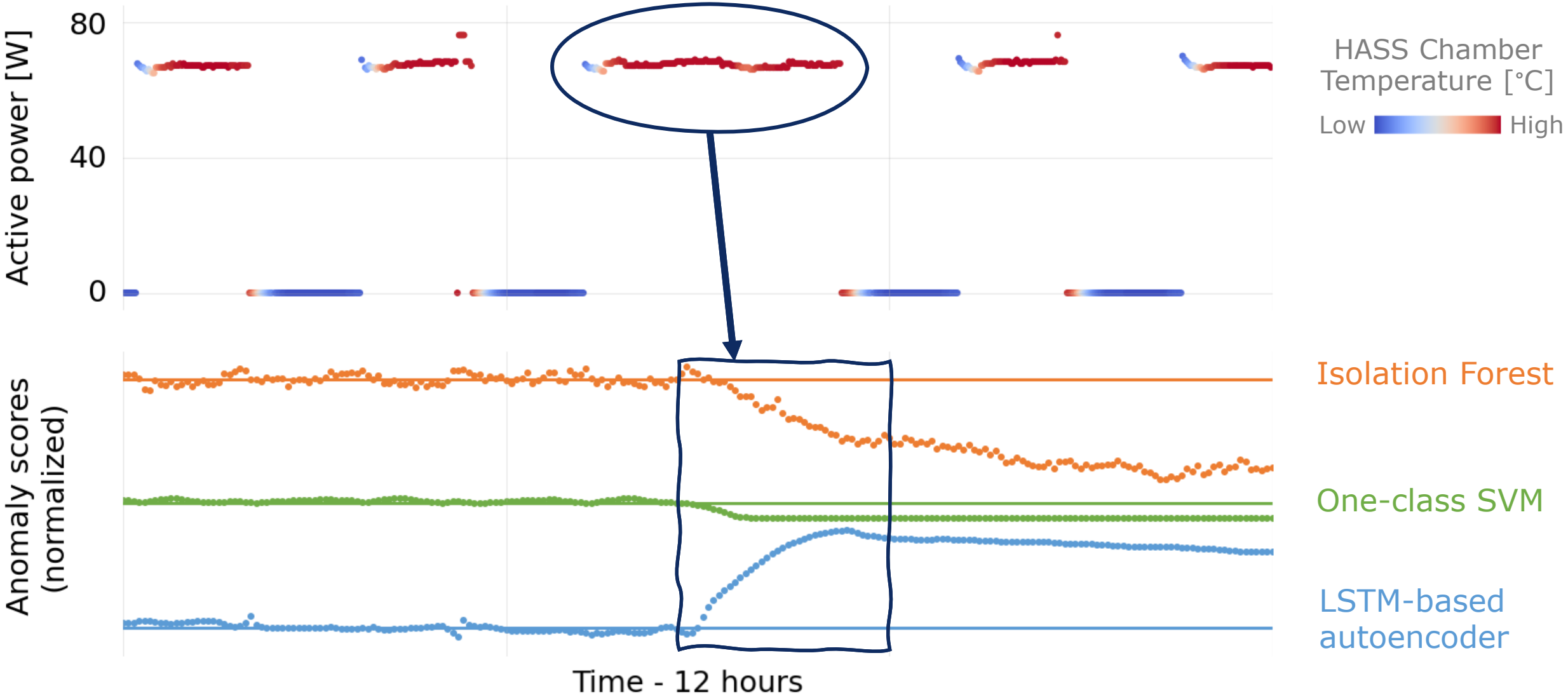
Pre-Processing

Modelling

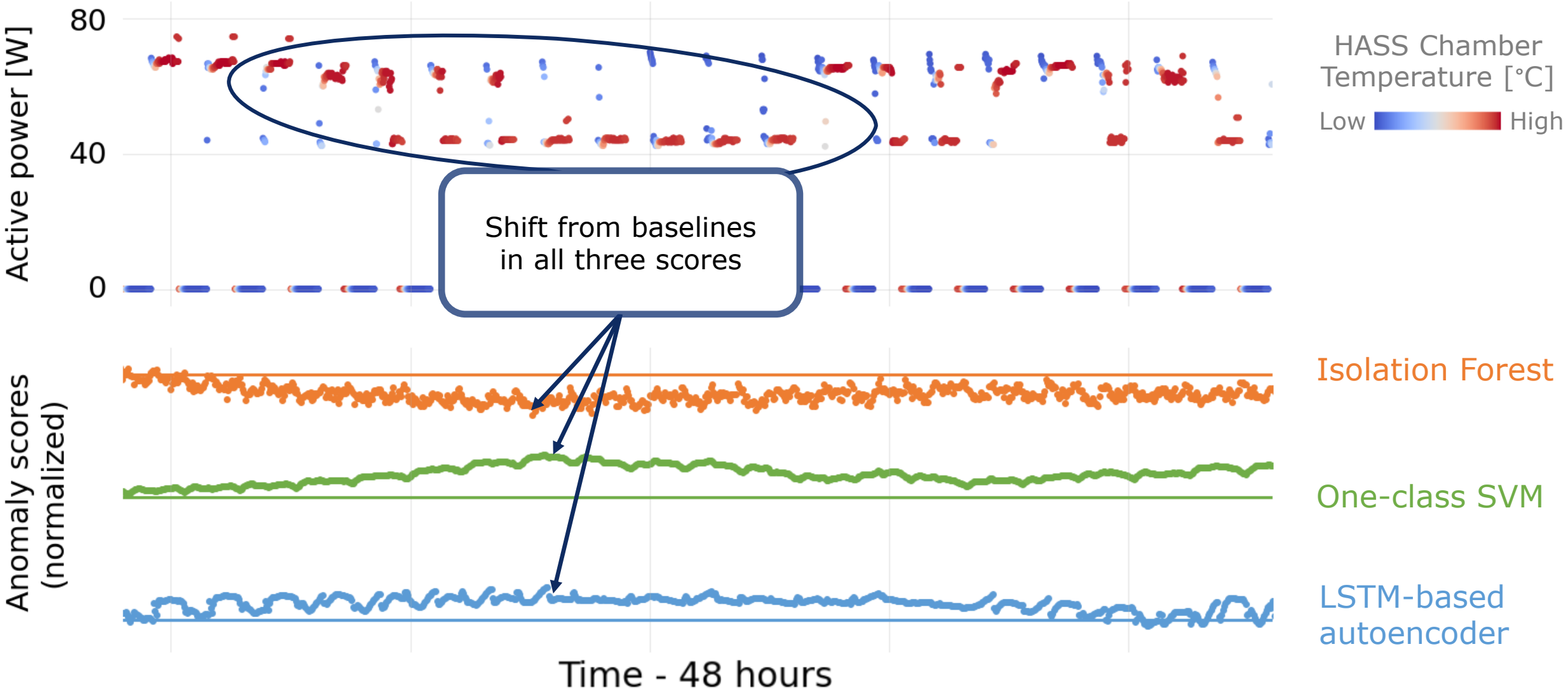
Data Insights - Normal driver behavior



Data Insights - Longer cycle



Data Insights - Value drop



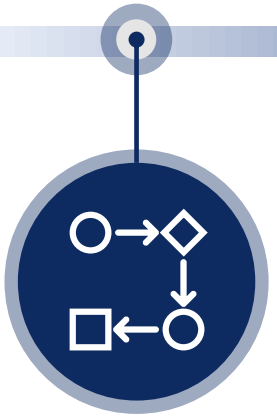
Next steps

Proof of Concept

Deployment

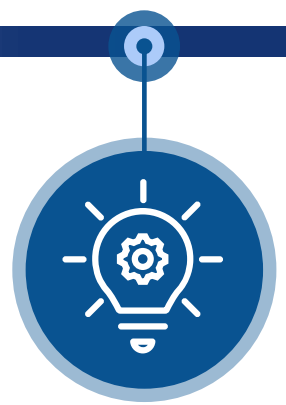
» ongoing

Keys to success



Data pipeline evaluation

Global implementation



Knowledge!

Deployment

» ongoing

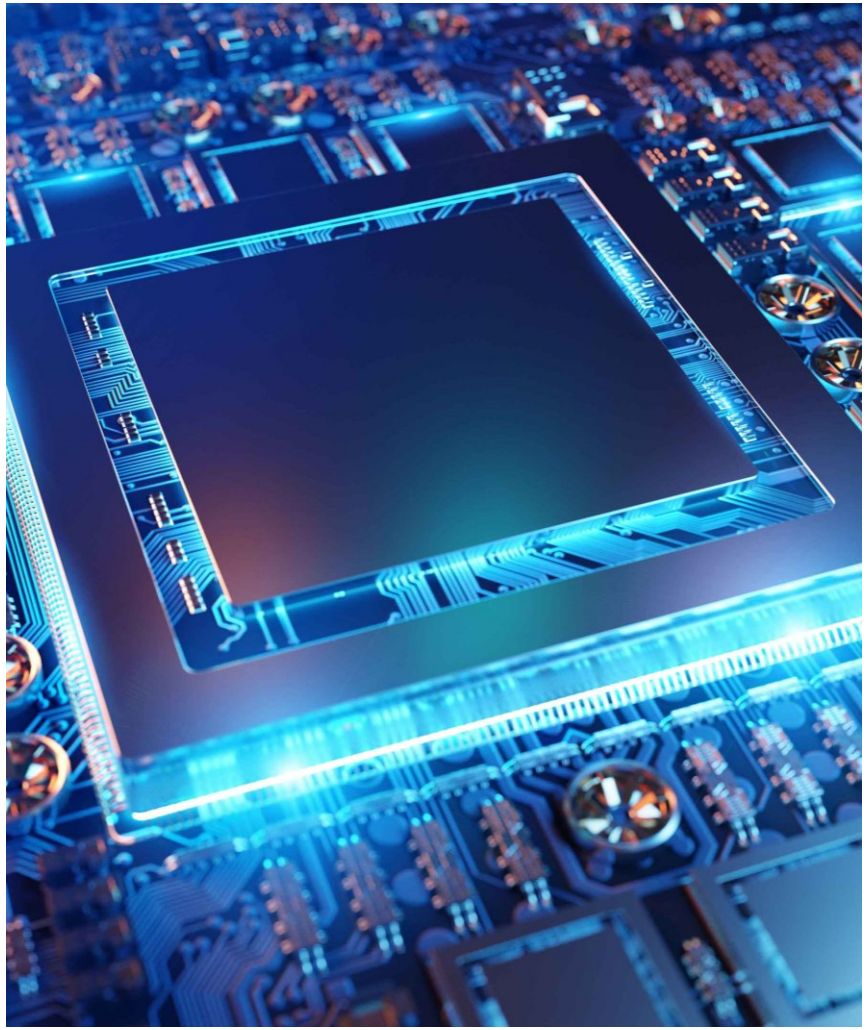
Lessons learned

Freedom to explore possibilities

Keys to success

Data Science projects are dynamic

Support from high level management



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