



An ITEA Smart engineering project

VMAP Analytics

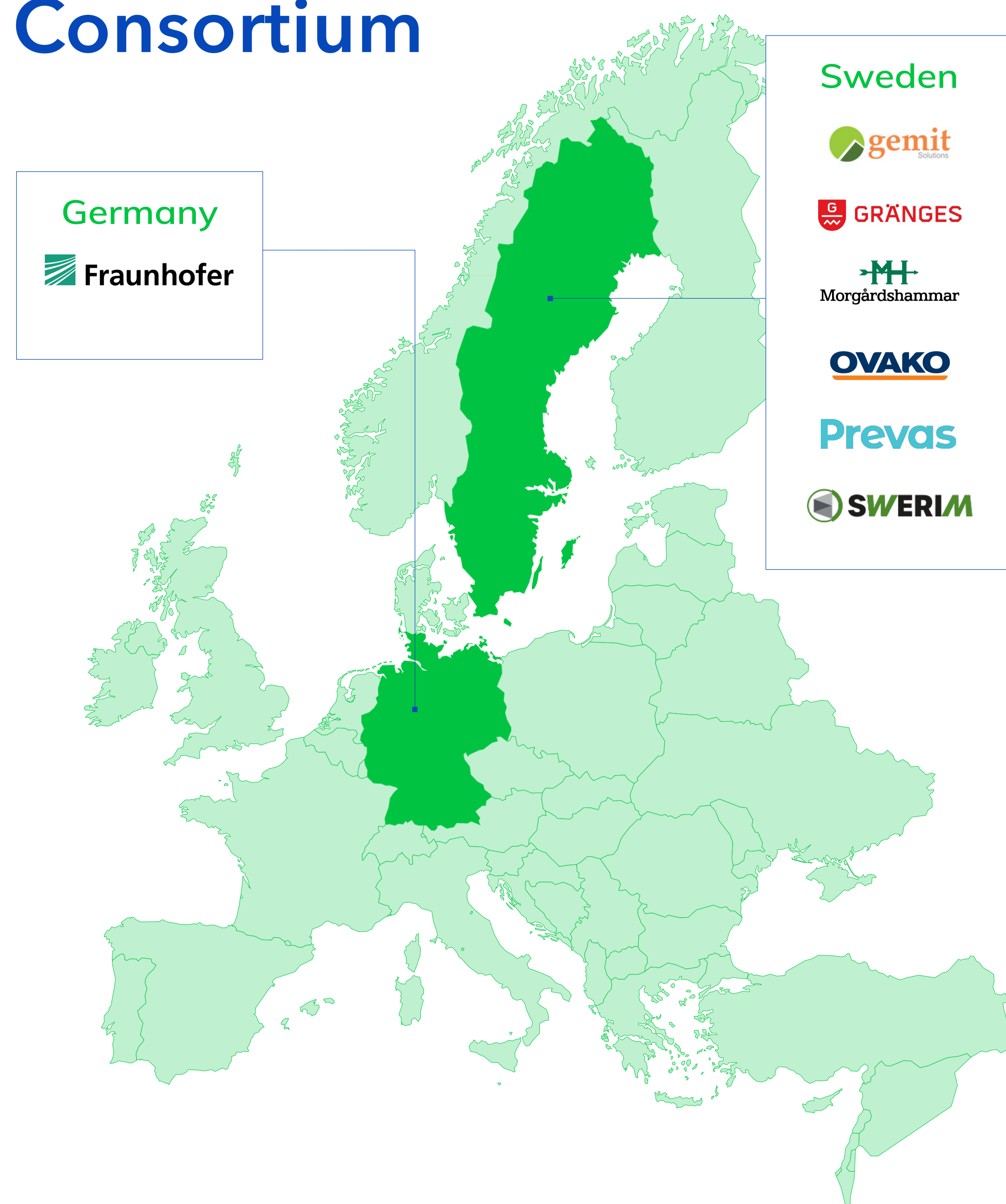


A common standard for digital twins

Project summary

To realise smart digital twins for manufacturing design tasks, the ITEA project VMAP analytics (Smart Analytics for Multi-Scale Material and Manufacturing) will extend the existing VMAP standard with means for measurement and monitoring data in steel production. AI-based predictive models will be trained and used to shorten development times and improve product and process quality.

Consortium



Project duration

November 2020 - April 2024

Key results

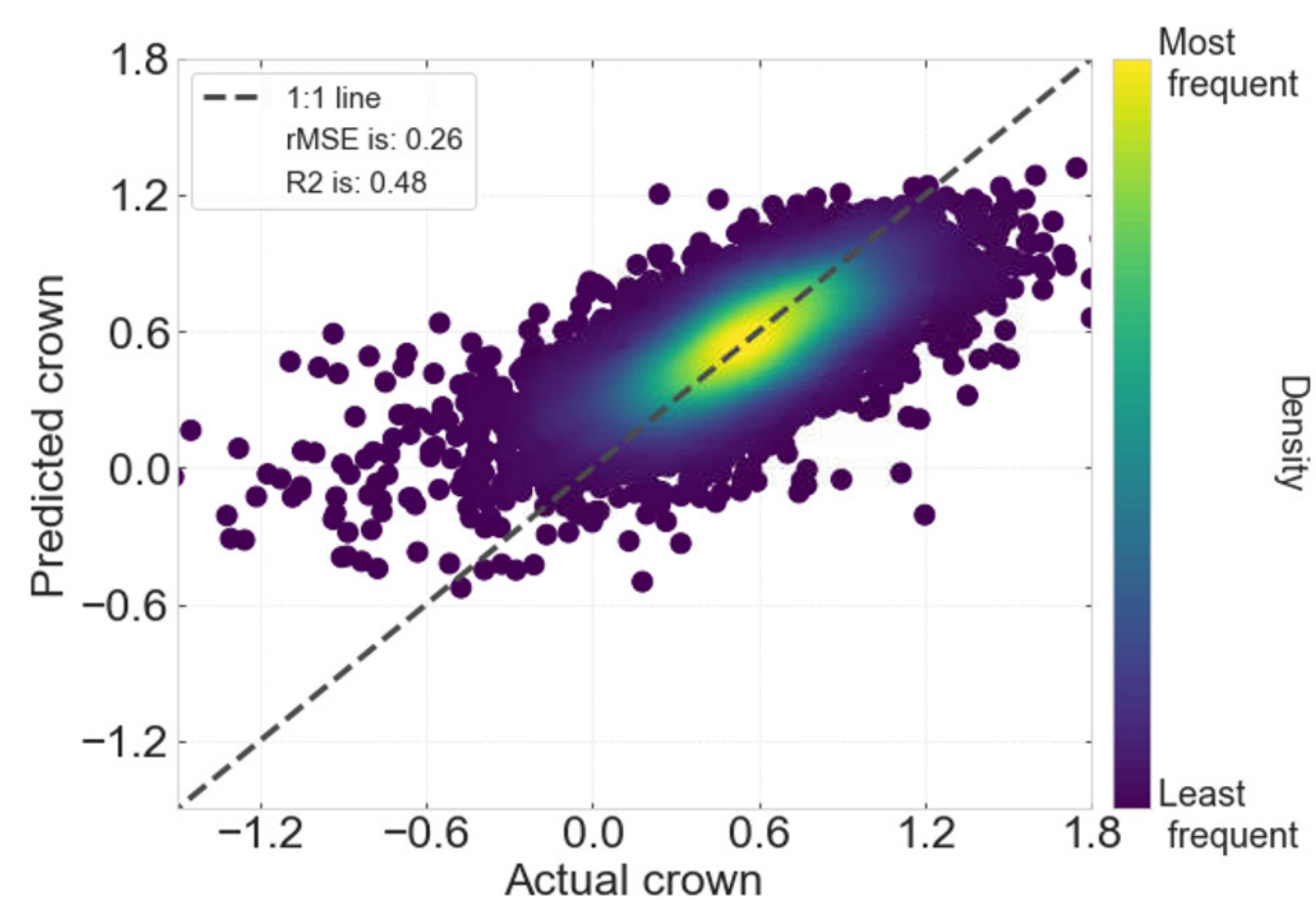
Data-based models for the prediction of:

- > local and temperature-dependent rolling loads
- > strip crown during hot rolling
- > degassing time with controlled chemistry in the ladle furnace

Extension of the VMAP CAE data standard for:

- > Management of time series data from integrated sensors
- > Storage of spatially discretized measurement data

Prediction model for Strip Crown



swerim.se/en/vmap-analytics



vmap.eu.com

This ITEA project is supported by:



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