

An ITEA Smart engineering project

# DEFAINE

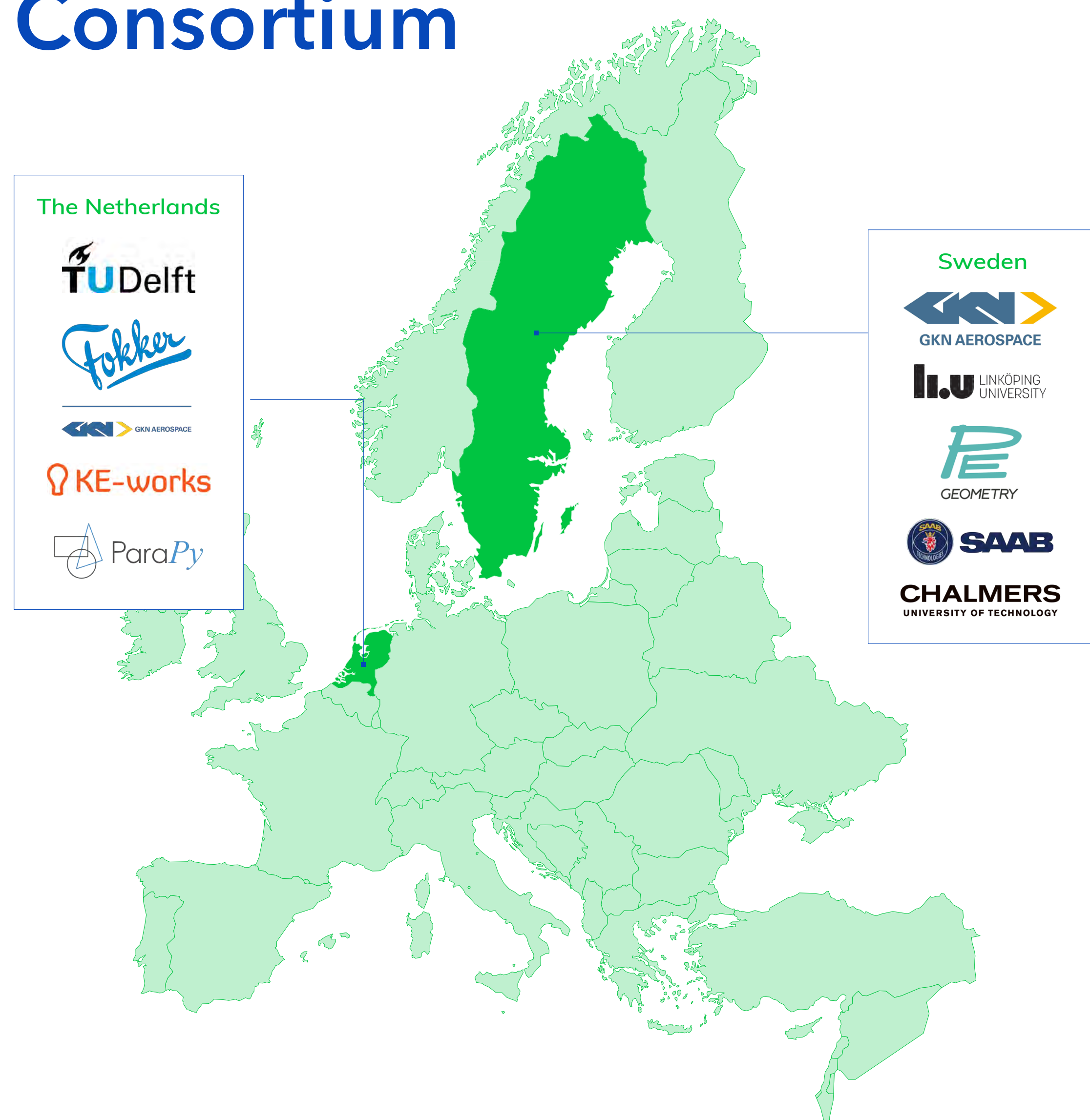


Advanced exploration in early design phases

## Project summary

Front-loading significantly reduces the inefficiencies of the current engineering approach by enabling large-scale design exploration early on or even before the start of a project. To this purpose, the DEFAINE framework enables fast generation of distributed, re-configurable multidisciplinary engineering workflows, built on design automation solutions, largely based on Knowledge Based Engineering. DEFAINE delivered a Design Exploration Framework able to reduce recurring cost in design by 20% and lead-time for design updates by 75%.

## Consortium



## Project duration

September 2020 - February 2024

## Project website

[itea4.org/project/defaine.html](https://itea4.org/project/defaine.html)



SCAN ME

## Unique advantages

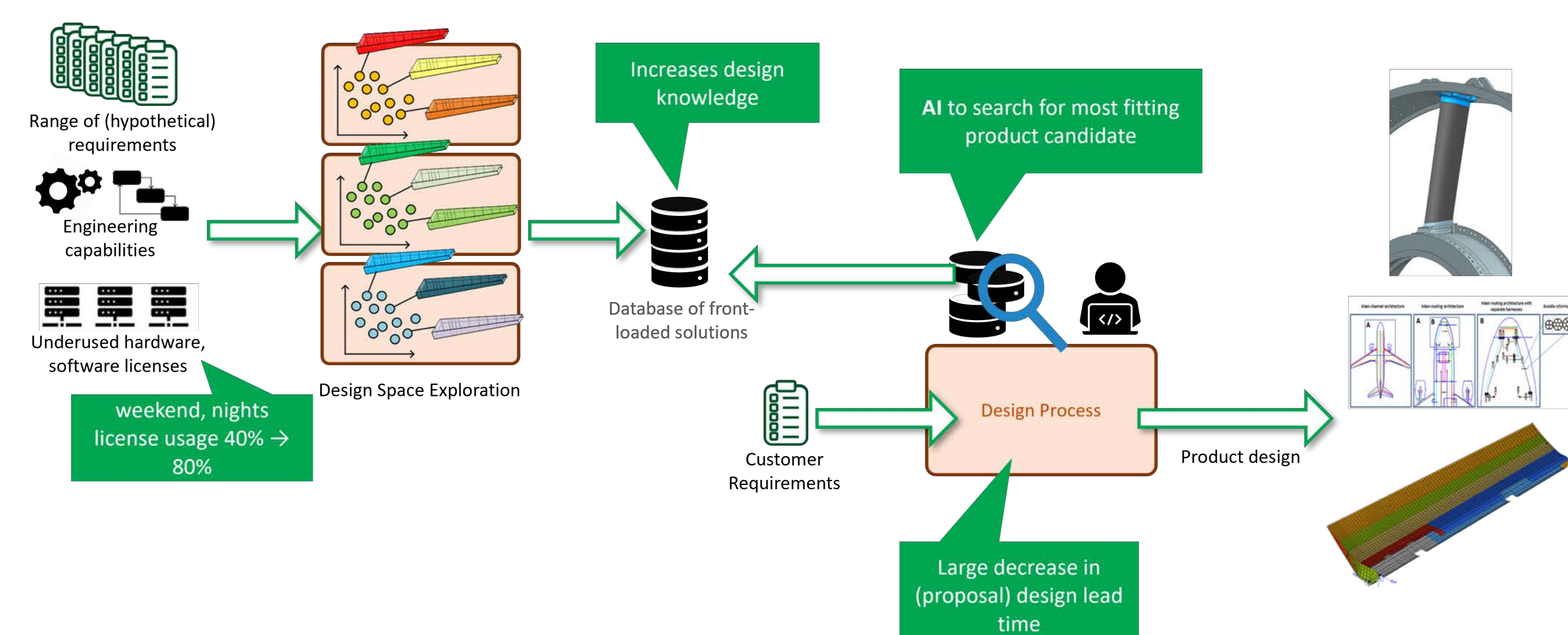
Automated front-loading, enabling companies to:

- > Win more proposals
- > Obtain more cost-effective solutions
- > Increase program profit margin
- > Decrease program financial risk

The DEFAINE framework supports scenarios for both OEMs and suppliers:

- > A OEM leverages front-loaded design solutions for technology assessment on product level
- > A supplier leverages front-loaded design solutions to rapidly provide component level design to an OEM for a given request

## DEFAINE Framework



## Contact

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This ITEA project is supported by:

