

An ITEA Smart engineering project

# DEFAINE

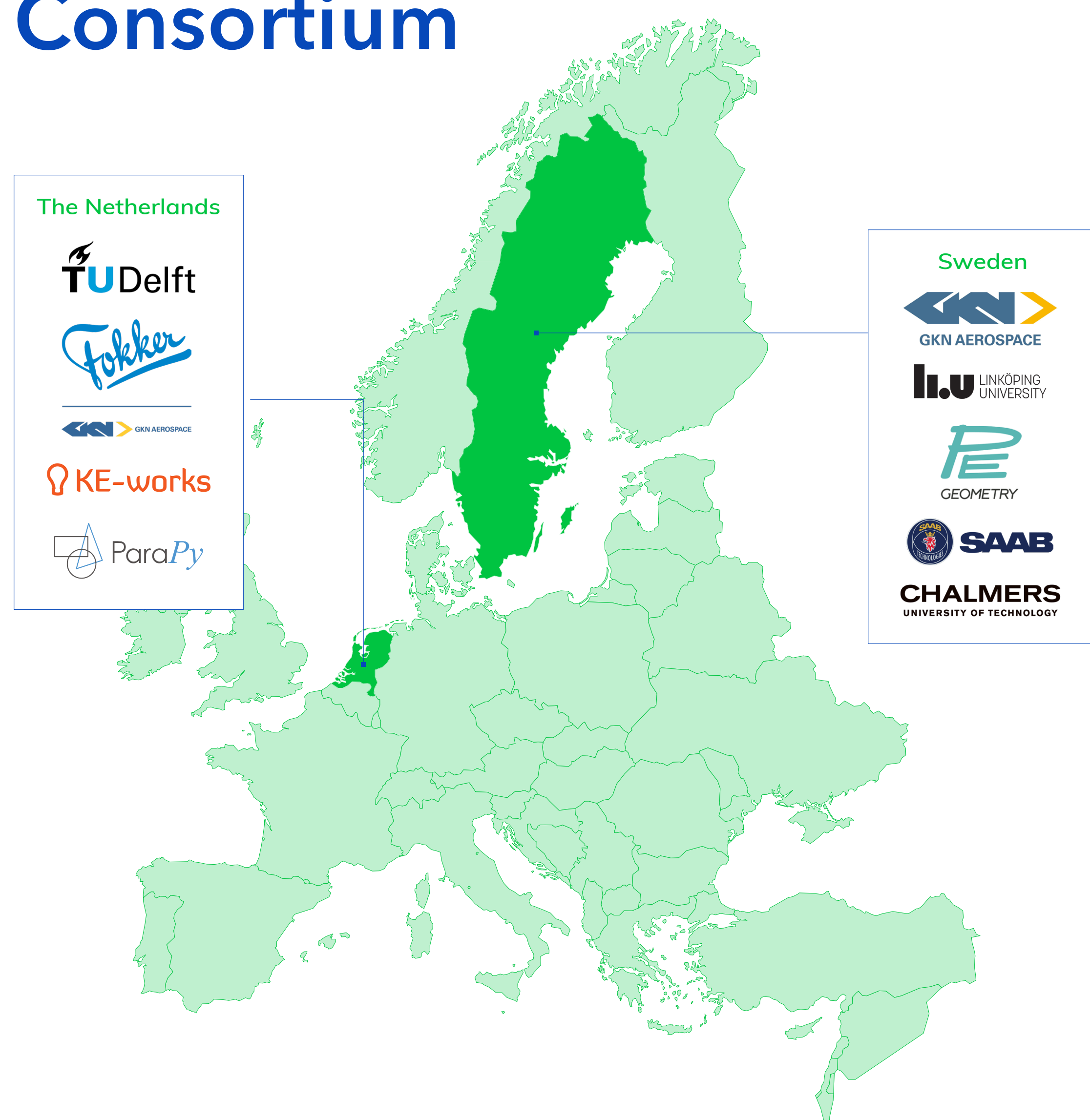


## Advanced exploration in early design phases

### 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](http://itea4.org/project/defaine.html)



### Unique advantages

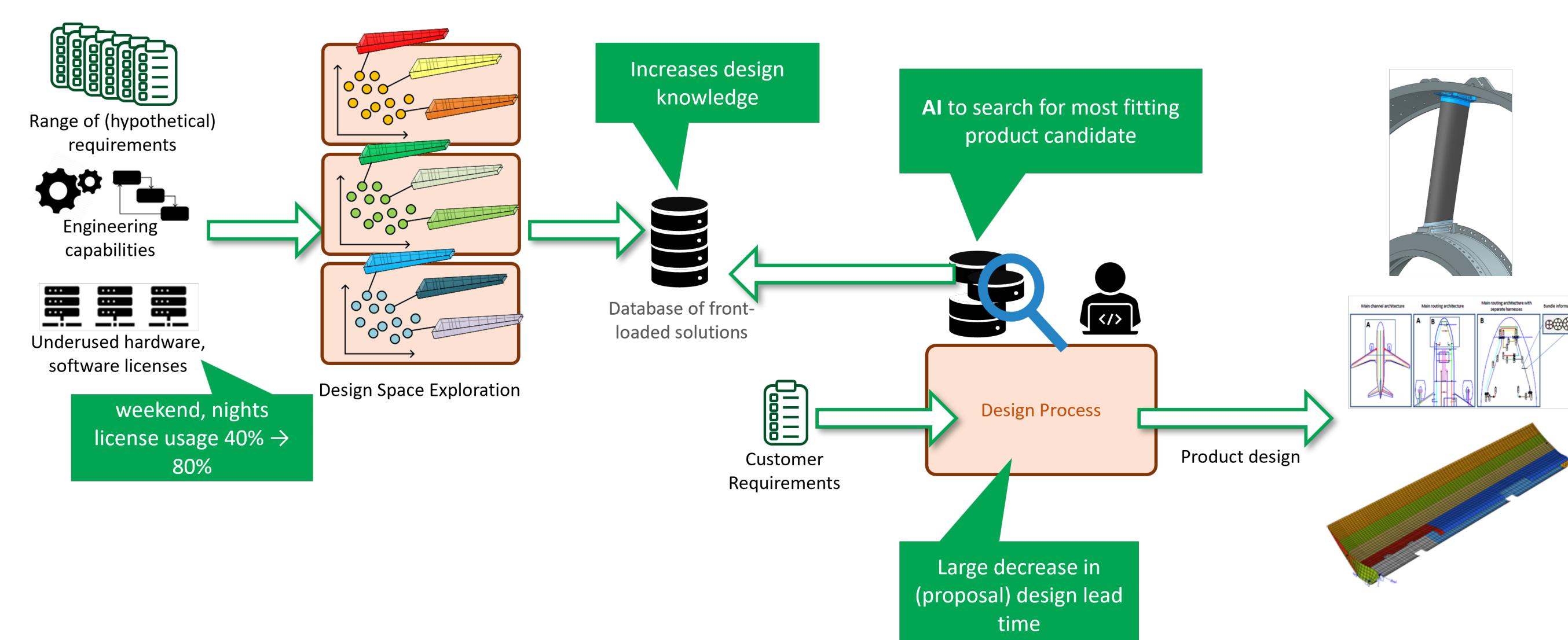
Automated front-loading, enabling companies to:

- > 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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