

## THE GRACE RESEARCH PROGRAM

### Green acceleration through integrated and platform-enabled product realisation

GRACE is a strategic research program, a so-called research profile, with support from the Knowledge Foundation, JTH and the business community. Academia and industry are working together to succeed in the green transition in the manufacturing industry with the help of integrated and platform-enabled product realisation.

#### ADDRESSED CHALLENGE

The European Green Deal means net-zero greenhouse gas emissions by 2050, and economic growth decoupled from resource use. For this to succeed, mobilisation is required both in academia and industry.

As products have a longer lifespan, new uses and are manufactured in a more circular way, while new technologies are developed, the complexity of both the products and the manufacturing processes increases. The feasibility of creating sustainable and reusable solutions is largely determined during the development phase, and therefore more research is needed to support this development.

**Integrated** means that collaboration between functions, people, systems is supported, both technically and organisationally.

**Platform-enabled** means that strategic assets, such as components and knowledge, are reused in products and processes to minimize resource use while maximizing customer value.

#### OBJECTIVE AND EXPECTED RESULTS

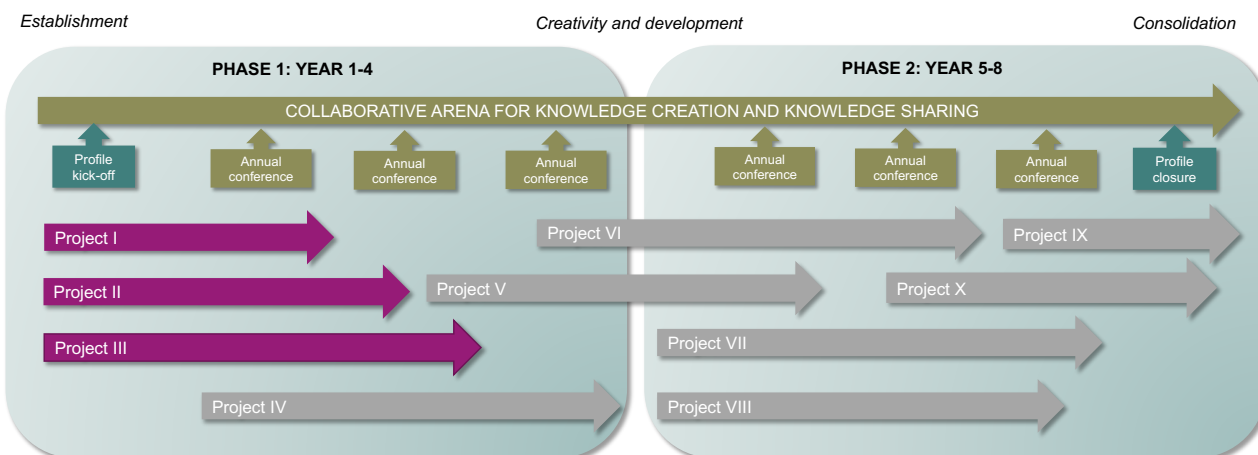
The overall goal of GRACE is to support the manufacturing industry's long-term ability to succeed in the green transition through integrated and platform-enabled product realisation.

GRACE will contribute with new knowledge, new and better processes and support for product realisation projects, where sustainability and circularity aspects are taken into account from the start.



## PROGRAM OVERVIEW

The work in the GRACE research program started on 1 April 2024 and will last for eight years. Within GRACE, several different research projects are carried out. To keep the activities together, there is a common Collaboration arena, a meeting place for both knowledge creation and knowledge sharing. Activities in the Collaboration arena are an annual outcome conference, webinars, workshops, etc.



GRACE has been designed in collaboration with several companies with the aim of ensuring business relevance. In addition to eleven industrial companies, six network partners are initially participating in the profile, which are important for a wider dissemination of the results.

### FACTS

**School:** School of Engineering (JTH), Jönköping University

**Industrial partners:** Fagerhults Belysning AB, FläktGroup Sweden AB, GKN Aerospace Sweden AB, Husqvarna AB, Jönköpings bildemontering AB, Kinnarps AB, Lindbäcks Bygg AB, OBOS Sverige AB, SAAB AB, Sordin AB and Thule Sweden AB

**Network partners:** Aluminium Sweden, Automation Småland, Campus Värnamo, Polymercentrum, Polymerinstitutet and Träcentrum i Nässjö AB.

**Time frame:** 2024 – 2032

### FOR MORE INFORMATION

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