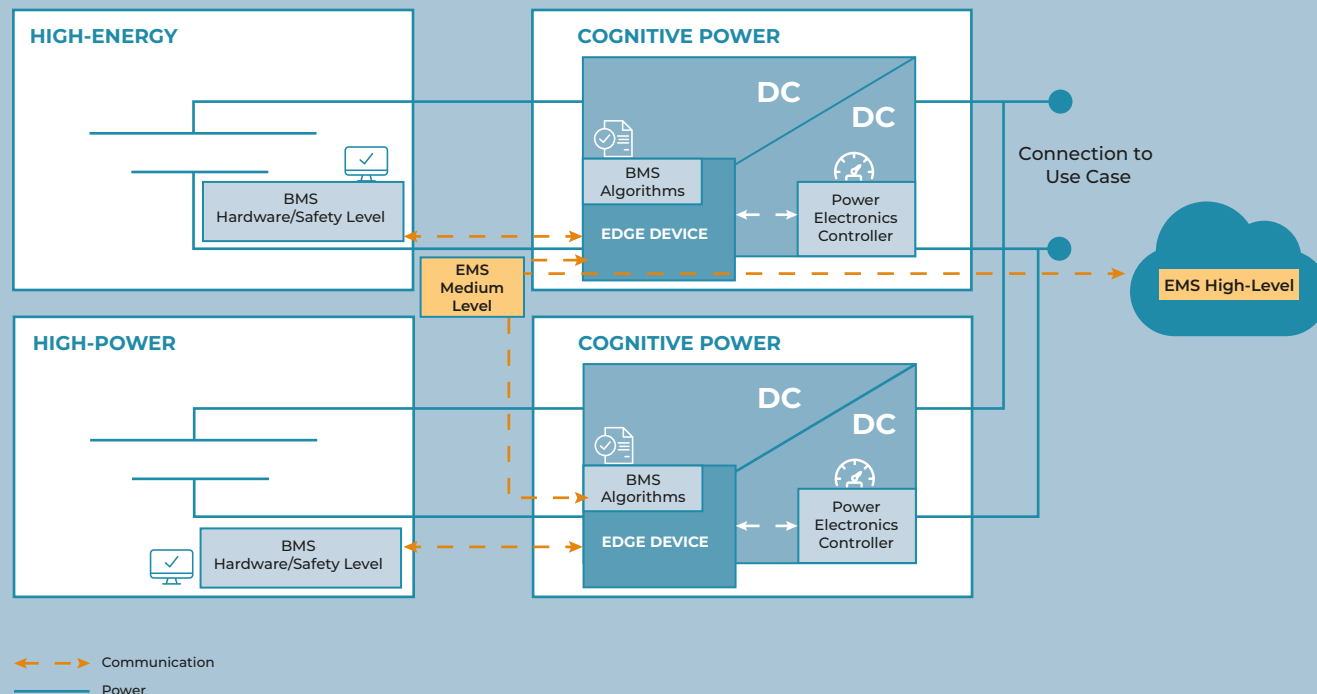




# METHODOLOGY

HAVEN also includes a modular design platform called a system Digital Twin that helps optimize the design and operation of the Hybrid Energy Storage System (HESS). The development of HAVEN will follow a top-down approach, starting with understanding the grid-scale specific characteristics of the different use-cases.



## IMPACTS



Development of sustainable and safe technologies and systems for decarbonization of transport and stationary applications



Increased global competitiveness of the European battery ecosystem



Accelerated growth of innovative, competitive and sustainable battery manufacturing industry

## CONSORTIUM



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## ABOUT HAVEN

HAVEN is innovating energy storage systems by developing a Hybrid Energy Storage Solution (HESS) that can store energy for long periods and provide multiple grid support services. This advanced solution utilizes next-generation storage technologies, optimized power converters, and advanced energy management tools, ensuring modularity, scalability, and cost-effectiveness.

## OBJECTIVE

HAVEN to design and demonstrate in relevant operational conditions a smart, highly modular, scalable, sustainable and safe HESS with advanced cognitive functionalities and optimized high-energy (HE) and high-power (HP) capabilities for multi-service provisioning to support the electrical grid and EV charging infrastructure.

## CONCEPT

HAVEN is a hybrid energy storage solution that can support a wide range of electrical grid and EV charging infrastructure applications. It combines a variety of key components, including high-energy batteries, high-power storage solutions, and cognitive power electronics devices.



**GAME-CHANGER IN THE FIELD  
OF ENERGY STORAGE SYSTEMS**

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