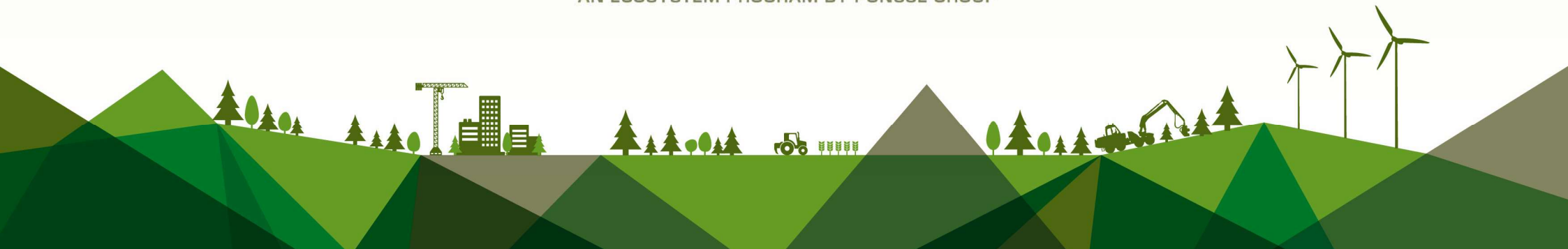


# CREATING SUSTAINABLE ENVIRONMENTS

Salo 11.9.2025

Elina Kurkioja, Ponsse





An aerial photograph of a large, forested island in a vast lake. The island is covered in dense green trees, and a road winds through it. The water is a deep blue, and a layer of mist or fog hangs over the island and the surrounding water, creating a serene atmosphere. The sky is a clear, light blue.

# VISION

Creating sustainable environments

An aerial photograph of a dense green forest. In the center, a yellow and black logging machine is visible, surrounded by a pile of cut logs. The text 'MISSION' is overlaid in the center of the image.

# MISSION

Drive sustainable innovation in off-road and commercial vehicles & infrastructure supporting the extraction, processing, and transport of raw materials in challenging environments



## OBJECTIVES

To develop intelligent, zero-emission off-road and commercial vehicles, along with infrastructure and solutions for the cut-to-length forestry industry and to adapt these technologies for other sectors such as construction, agriculture, logistics & mining

# FORWARD'27 ROADMAP

- Sensors and detection algorithms for harsh heavy vehicle conditions
- Digital tools and modeling for the development, verification and validation of autonomous systems
- Functional safety and automation with machine-human interaction
- Control systems and computing units for heavy vehicle autonomy

2023

2024

Autonomous solutions

Sustainable power

- Sustainable energy sources and logistics for heavy vehicles
- Battery and charging technologies for off-grid heavy vehicles
- Energy efficiency of drivetrains and actuators
- Fuel cells and refueling for open field heavy vehicles / Green hydrogen – production, distribution and storage

2025

2026

2027

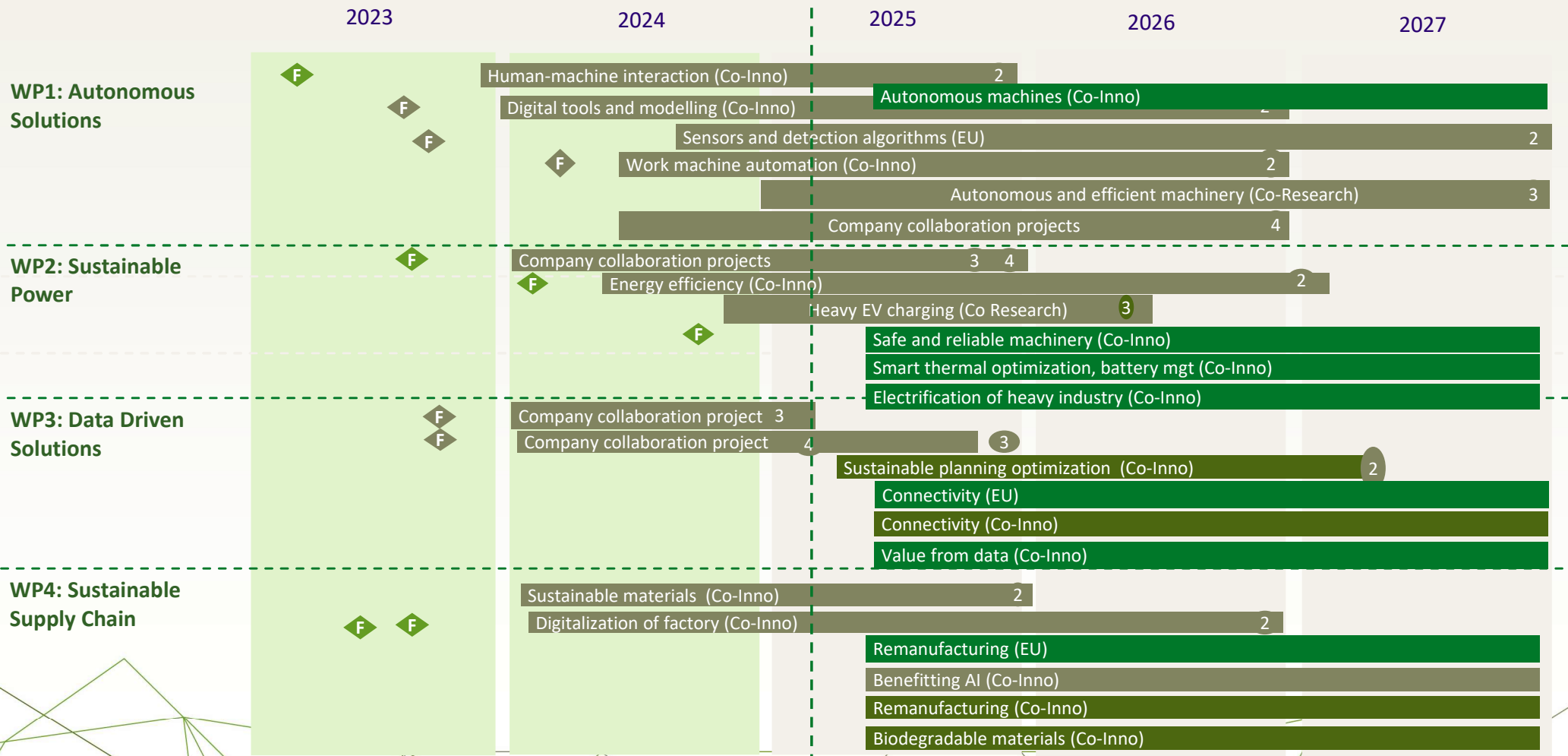
- Connecting machine data to the environment & predicting future outcomes
- Digital and XR solutions for operations and collaboration
- Secure connectivity and OTA solutions for remote locations
- Collaborative ecosystem platform (geospatial digital twin)

Data driven solutions

Sustainable supply chain

- Sustainable materials for heavy vehicle manufacturing
- Digitalization of factory and supply chain
- Sustainable supply chain and production operations
- Circular supply chain

# ECOSYSTEM ROADMAP



= On-going ecosystem project

= Project candidate

= lead / project idea

= Funding application submission

Priority (1= Lead, 2= active partner, 3= SG member, 4= support letter)



# FORWARD'27 IS AN OPPORTUNITY

**KIITOS!**

# CREATING SUSTAINABLE ENVIRONMENTS

[forward27.ponsse.com](http://forward27.ponsse.com)

