**FINAL REPORT EU CAP Network seminar
'Robotics and Artificial Intelligence in farming and forestry'
ANNEX 4: Ongoing R&D projects:
focus on seminar participants' contributions**
19-20 February 2025

Annex 4: Ongoing R&D projects: focus on seminar participants' contributions

The EU CAP Network Seminar on Robotics and AI in Agriculture and Forestry served as a platform for knowledge exchange, bringing together researchers, farmers, foresters, and industry leaders to showcase ongoing projects that are driving technological innovation in these sectors. These projects span a wide array of applications, from precision agriculture and automated harvesting to AI-driven pest monitoring and sustainable forestry management.

A key highlight of the seminar was the poster session, where 26 high-impact projects were presented (Fig. 7). These initiatives demonstrated how AI and robotics are **improving efficiency, reducing environmental impact, and addressing labour shortages** in various agricultural and forestry domains. Among the most notable projects were those focusing **on soil monitoring, early disease and pest detection, harvesting automation, and cost-effective machinery retrofitting**. The role of Testing and Experimentation Facilities (TEFs) in supporting startups and SMEs was also emphasised, illustrating the importance of providing controlled environments for validating AI-driven agricultural technologies before large-scale deployment.

Figure 1 -Showcasing innovations during the poster session and poster presenter group photo – Source: EU CAP Network

During the poster sessions the participants highlighted the importance **of cross-sector collaboration**. Several projects demonstrated strong synergies, particularly in areas such as autonomous decision-making, sensor integration, and data interoperability. The posters session reaffirmed that the future of AI and robotics in agriculture and forestry lies not only in **technological advancemen**ts but also in **fostering strong partnerships**. By aligning research, policy, and farmer, forester and industry needs, these projects are paving the way for a more efficient, sustainable, and resilient agricultural ecosystem.

This annex is linked to the final report of the EU CAP Network seminar 'Robotics and Artificial Intelligence in farming and forestry' - <u>Read the report on the seminar webpage</u>