



EU CAP Network Brokerage event ‘Accelerating the innovation process through Horizon Europe multi-actor projects’

Antwerp, Belgium
19-20 October 2023



DIGITAL & DATA TECHNOLOGIES: ROBOTICS & AUGMENTED REALITY

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8. DIGITAL & DATA TECHNOLOGIES: ROBOTICS & AUGMENTED REALITY

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19/10/2023

HORIZON-CL6-2024-GOVERNANCE-01-7

**Enhancing working conditions and strengthening
the work force through digital and data technologies
– the potential of robotics and augmented reality in agriculture**



Research and Innovation Actions

*Indicative budget: 15 M€ in total
(5 M€ per project)*

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POLICY CONTEXT

- Headline Ambition “Digital Age”
- Farm to Fork Strategy
- Common Agricultural Policy (CAP)

→ *Using the potential of digital and data technologies for agriculture.*

→ *contribution to sustainability ambitions, including social sustainability and, and competitiveness of the sector*



EXPECTED OUTCOMES

- **Enhanced working conditions in agriculture** (including increased safety of workers and reduced drudgery) through innovative digital solutions exploiting the **potential of augmented reality**.
- **Lowered environmental impacts and productions costs and increased product quality** in and through the use of digital technologies, through robotics and augmented reality in particular.
- **Reduced share of risky or unattractive actions/tasks** to be performed by workers through automation-based solutions.
- **Mitigated shortage of work force in agriculture** in some sub-sectors through automation-based solutions.

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SCOPE

- **Augmented-reality based solutions to improve working conditions, safety and failure avoidance**, and to further increase robotic performance.
- **Robotic solutions to improve unhealthy working conditions** (with direct or indirect relation to agricultural production, such as harvesting, weeding, crop monitoring, animal husbandry or logistics/ farm management).
- **Robotic solutions for tasks, for which there is a high interest/ need to support and/ or replace the human work force.**
- **Strengthening AI capabilities for agro-robotics in the fields of applications fostered by the proposals including through the use of (scalable) platforms** to further increase robotics performance.
- **Business models** for the use of the developed innovative technologies s.
- **Tool for system analyses of the consequences for farmers and rural communities** of enhancing working conditions and of replacing human work force with robotic systems.



KEEP IN MIND

- **Multi-actor approach**
- TRL 7-8 (*according to the activity*) by the end of the project
- Max amount possibly to be granted to third parties: 60 000 EUR
- Relevant legislation to be taken into consideration
- Rôle of younger generations
- Stocktaking of project (results)
- 60 months period possible
- Social Sciences and Humanities (SSH)

Thank you



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All information on the brokerage event is available on the event webpage:

https://eu-cap-network.ec.europa.eu/events/eu-cap-network-brokerage-event-accelerating-innovation-process-through-horizon-europe_en

