

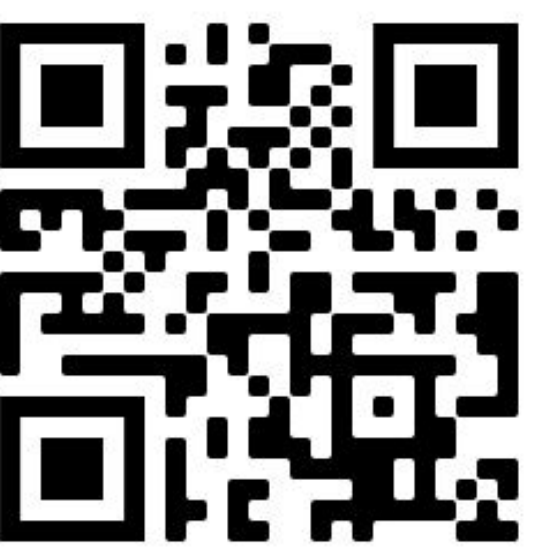


# Fostering and Enabling AI, Data and Robotics Technologies for Supporting Human Workers in Harvesting Wild Food

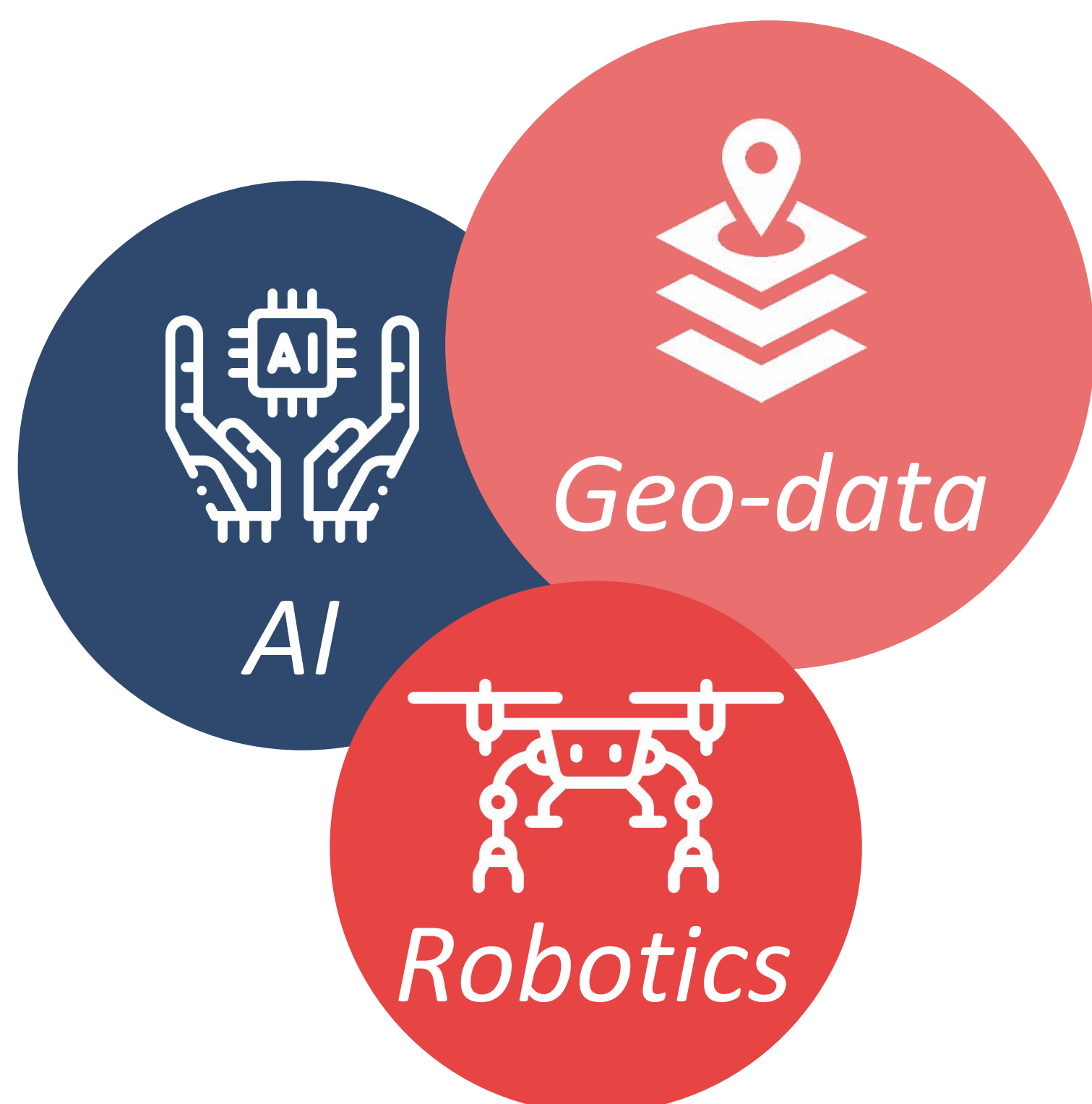
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## Objectives

- **Improve wild-berry picking yields & working conditions** through AI, data, and drones
- **Optimize operations** and help workers to more easily locate and predict ripe berry harvests
- Demonstrate how we can **improve the wild berry business**



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## Approach

- Generate detailed **3D models** of forests
- Produce **navigational advice** for pickers
- Provide **air-transportation** of harvests
- Create new **health support services** for remote locations



## Challenges



- **Multi-sensor** system design and integration
- **Flying and coordinating** fleets of **drones** both **above** and **below** the **tree canopy**
- **Vegetation type** detection, classification and mapping
- **Berry localisation** with ripeness/yield estimates



## Impact

- **Scientific:** Explore benefits and impact of AI technologies and drones for robot-human wilderness applications
- **Societal:** Improve the trust and acceptance of using AI, data-driven solutions and drones with an aim of encouraging locals to take up commercial berry harvesting activities
- **Economy:** Create new business opportunities for SMEs and citizens, increasing the utilization of wild berries; extending the EU's lead in the production of wild berries

## Partners



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