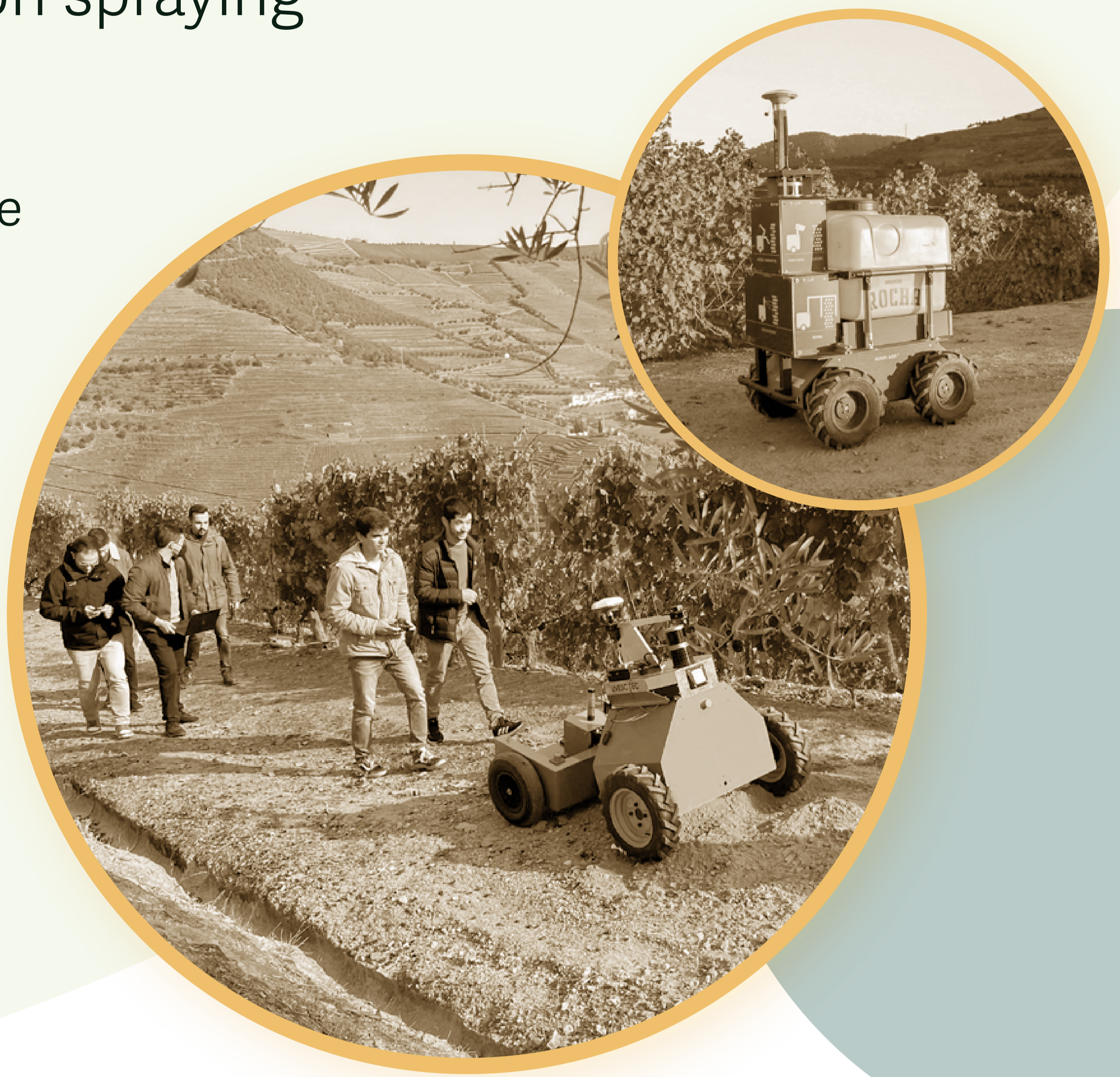


SCORPION

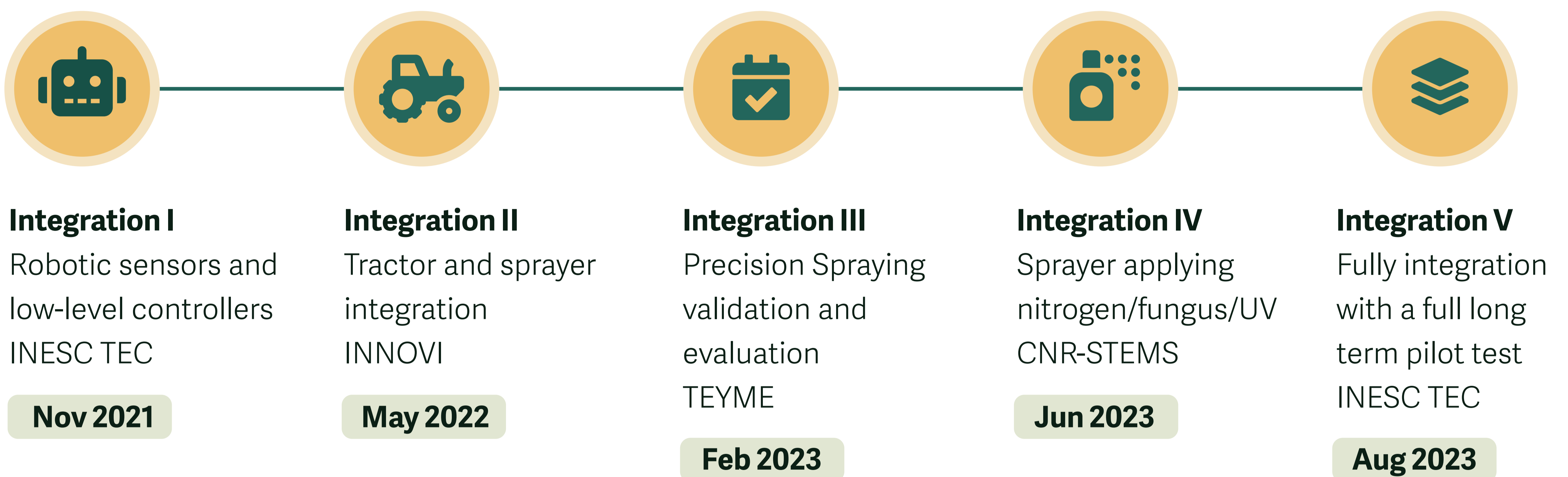
Cost effective robots for smart precision spraying

Agriculture in rough terrain is challenging due to steepness, lack of space to manoeuvre, difficulties of communications due to natural obstacles and harsh atmospheric conditions.

SCORPION will develop a safe and autonomous precision spraying tool integrated into a modular unmanned tractor to increase spraying efficiency, while reducing human and animal exposure to pesticides, water usage and labour costs.



Integration Process



Workplan

- Requirements Analysis and Use Cases
- New Spraying Approaches and Tools for Robotic Precision Spraying
- Permanent Crops Perception, Navigation and Localization
- Control and Safety Systems



- SCORPION, Integration and Technical Validation
- Pilots, Dissemination and Communication Activities
- Exploitation of Results and IPR
- Project Management
- Ethics Requirements

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