

## Test and validation

2026WP1\_Agro\_0XX

Status: Completed



### Business case

#### Problem Owner:

IP1 Open Teelten en Naoogstverwerking

#### Involved:

Wageningen Research  
Groenpact  
Projecten binnen IP1

Open Field  
Cultivation



# Market Study on Digital Maturity in Agriculture and Post-Harvest Processing

Technology adoption and willingness to invest across four sectors, supported by an evidence-based platform.



## Broad knowledge question

Companies developing digital technologies and robotics for agriculture need to understand which markets are digitally ready for their solutions and where barriers to adoption exist. Research on digital maturity, technology adoption and willingness to invest is available, but the findings are scattered across different studies, sectors and regions.

## Approach

A systematic review of academic and grey literature was conducted, covering four sectors across the Global North. Studies were assessed for quality, indexed and categorised by region and sector. Figures and tables were documented using a consistent format and made accessible through a web-based platform featuring an AI chatbot. The platform was validated with the participating projects in one round of testing.

## Goal

To consolidate existing knowledge on digital maturity, technology adoption and willingness to invest, making it easily searchable and accessible to the use cases within IP1.

## Results and reflection

The platform brings together 41 quality-assessed studies, including 154 figures and 112 tables, all searchable by sector and region. As each use case raises its own specific questions, an AI chatbot was integrated into the platform, with every answer traceable to its original source. Research coverage is strongest for arable farming, Europe and North America. Fruit growing, post-harvest processing, Japan and Oceania are less well represented and have been identified as priorities for further research..

Platform (access on request): [digital-farm-atlas.lovable.app](https://digital-farm-atlas.lovable.app)

Presentation: GOFAR Tour, AgroTechniek Holland, Biddinghuizen, 16 September 2026.

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| Work package         | IP1 Open Field Cultivation and Post-Harvest Processing                                                             |
| Work package lead    | Natalie Hotrum                                                                                                     |
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## Colofon

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## Involved partners

