



FARM2030

A DIGITAL INNOVATION HUB IN  
THE AGRICULTURE SECTOR IN  
PORTUGAL?



# Agenda

- The Project FARM2030
- Outputs and impact



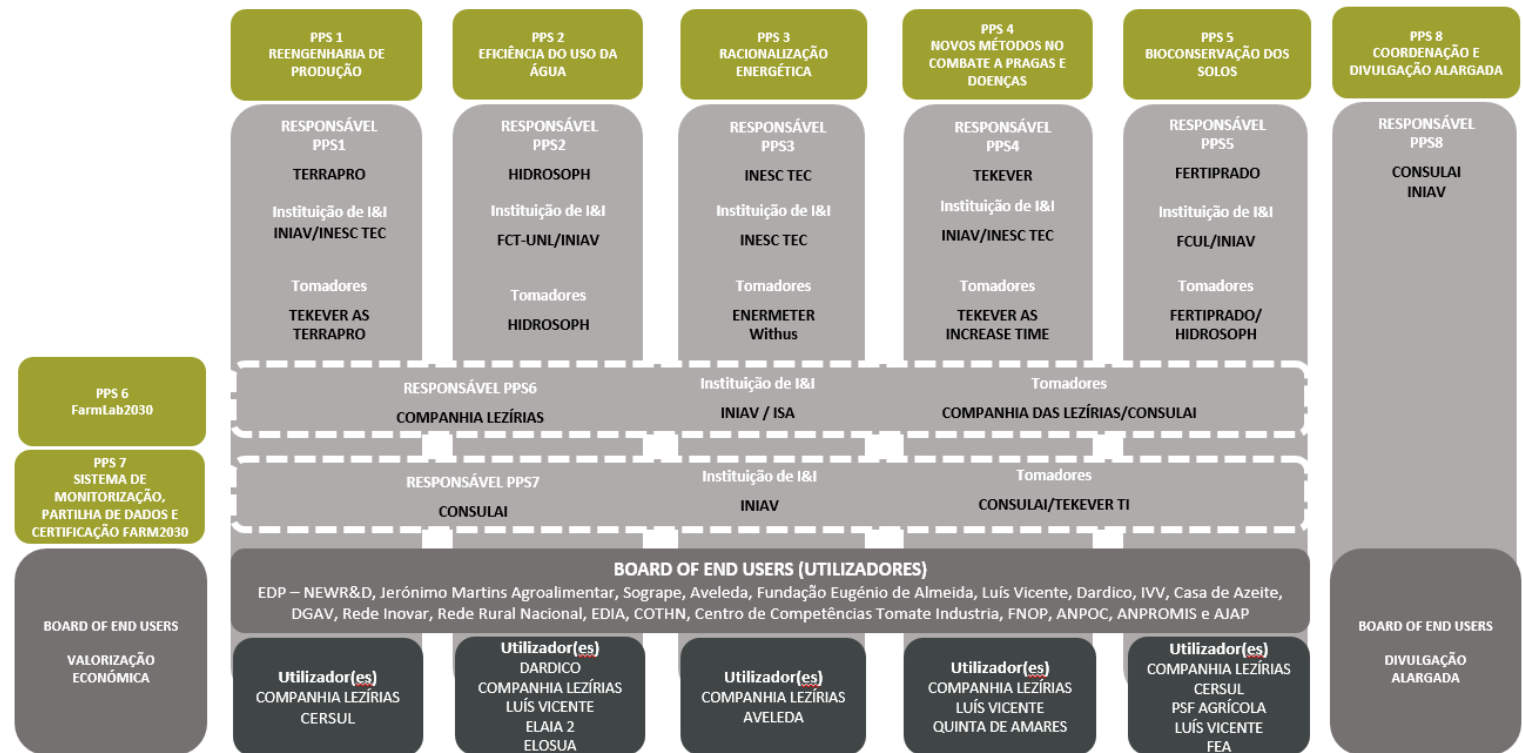


FARM2030

The Project FARM2030

# Promote competitiveness and sustainability of agriculture in Portugal

## FARM2030 – RESEARCH & INNOVATION FOR SUSTAINABLE AND COMPETITIVE AGRICULTURE



# Objectives

PPS	Objectives (Innovation)
PPS 1. Reengineering of production and precision farming	<ul style="list-style-type: none"> <li>▪ New sensors for production monitoring</li> <li>▪ New models to represent soils, climate, and production</li> <li>▪ New algorithms for “Yield GAP Analysis”</li> </ul>
PPS 2. Water use efficiency	<ul style="list-style-type: none"> <li>▪ Use of sensors in large scale and data analysis to support irrigation management</li> <li>▪ New methods of big data pattern analysis</li> <li>▪ Use of artificial intelligence</li> </ul>
PPS 3. Energy use efficiency	<ul style="list-style-type: none"> <li>▪ New decision support and management tools</li> <li>▪ Increased integration with renewal sources through intelligent management systems</li> <li>▪ New business models better adapted to demand management</li> </ul>



# Objectives

PPS	Objectives (Innovation)
PPS 4. New methods to combat crop diseases	<ul style="list-style-type: none"> <li>▪ New algorithms to detect diseases</li> <li>▪ Better knowledge on propagation methods and crop dispersion patterns</li> <li>▪ Decision support system to combat some crop diseases</li> </ul>
PPS 5. Bioconservation of soils	<ul style="list-style-type: none"> <li>▪ Soil sensors and data analysis to improve fertilizer efficiency</li> <li>▪ New soil conservation models</li> </ul>
PPS 6. FARMLAB2030	<ul style="list-style-type: none"> <li>▪ Develop a collaborative laboratory for the agriculture sector in Portugal</li> </ul>
PPS 7. Monitoring, data sharing and certification system FARM2030	<ul style="list-style-type: none"> <li>▪ First <i>Big Data</i> application in Portugal in the agriculture sector</li> <li>▪ Develop a competitive and sustainable production model</li> <li>▪ Certification FARM2030: increase the recognition and credibility of farms that integrate the initiative</li> </ul>

# Relevance



# Consortia: multi actor project

## Takers (companies)

- CONSULAI
- TEKEVER TI
- TEKEVER AS
- TERRAPRO
- ENERMETER
- HIDROSOPH
- WITHUS
- INCREASE TIME
- FERTIPRADO

## R&I Institutions

- INIAV
- ISA
- INESC TEC
- FCT/UNL
- ISEP
- IPP
- FEUP
- FCUL

## Users

- COMPANHIA DAS LEZÍRIAS
- CERSUL
- DARDICO
- LUÍS VICENTE
- ELAIA2
- ELOSUA
- PSF AGRÍCOLA
- AVELEDA
- QUINTA DE AMARES
- FEA

## Board of end users

### Production / Processing

- |           |                          |
|-----------|--------------------------|
| • SOGRAPE | • LUÍS VICENTE           |
| • AVELEDA | • DARDICO                |
| • FEA     | • ELAIA2                 |
| • CERSUL  | • COMPANHIA DAS LEZÍRIAS |

### Value chain

- |                    |            |
|--------------------|------------|
| • EDP NewR&D       | • LIDL     |
| • JERÓNIMO MARTINS | • SONAE CP |
| • McDonald's       | • EDIA     |

### Associations,...

- |                  |         |
|------------------|---------|
| • IVV            | • RRN   |
| • CASA DO AZEITE | • COTHN |
| • DGAV           | • CCTI  |
| • REDE INOVAR    | • FNOP  |
|                  | • ...   |



The logo for FARM2030, featuring the text "FARM2030" in a bold, white, sans-serif font. The "0" is stylized to incorporate a white line-art icon of a plant with three leaves and a root system. The logo is positioned on the left side of a horizontal band that has a background image of dark, rich soil with some small green sprouts and a white circular object (possibly a seed or a small pot) visible on the left edge.

FARM2030

## Outputs and Impact

# Outputs

New Products,  
Processes and  
Services (PPS 1 a 5)

FARMLAB2030  
(PPS 6)

Monitorisation, data  
sharing and  
certification system  
FARM2030  
(PPS 7)

AGRICULTURE

Adoption of new  
technologies and  
systems

> Resource use  
efficiency

> Productivity

+ Competitiveness

+ Sustainability

TECHNOLOGY

Technology based  
startups (Takers)

PPS valorisation

National

International



# Investment and impact

Nº PPS	Nº Partners	Total HR	New HR	PhDs	Total Person Month	Investment* (€)
<b>DIRECT IMPACTS</b>						
PPS 1	7	43	13	20	448	11.000.000€
PPS 2	7	18	6	6	275	4.500.000€
PPS 3	4	16	5	3	302	806 099,85 €
<b>INDIRECT IMPACTS</b>						
PPS 4	8	36	13	17	499	1 329 259,94 €
PPS 5	3	11	3	19	247	877 275,93 €
PPS 6	4	11	2	6	161	460 231,85 €
PPS 7	3	18	4	4	241	788 052,52 €
PPS 8	2	9	1	1	104	363 062,01 €
Total					2 277	6 826 779,00 €

\* Without indirect costs



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