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CURRENT TRL
& TARGET TRL

PRODUCTION

INCREASED CROP
PRODUCTION

COST

REDUCE
CROP COST



COUNTRIES



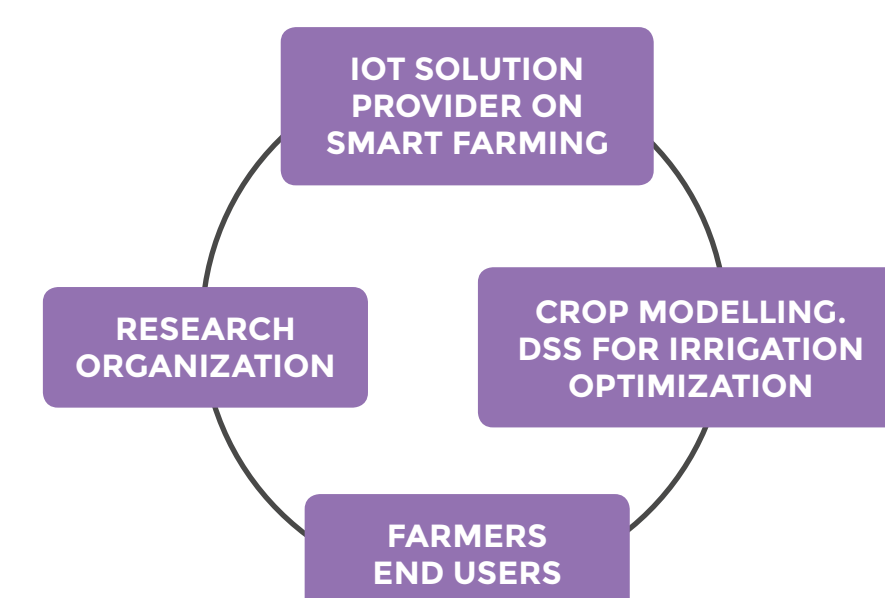
PARTNERS



3.3 AUTOMATED OLIVE CHAIN

IoT technologies allow:

1. Automatically taking data from crops and post-harvest machines, in order to provide inputs for DSS (Decision Support Systems) models.
2. Optimizing resource consumption through the monitoring and controlling agricultural machinery.
3. Improving energy and water efficiency through the monitoring and controlling irrigation systems.
4. Calculating the water needs using agronomic models for optimized irrigation.
5. IoT-powered DSS that integrate crop monitoring, water needs calculation, automatic irrigation systems and agricultural machinery.



FARMERS

End-users managing their crops using the IoT based systems (Dcoop from Spain and Nileas from Greece);

IOT SOLUTION PROVIDERS:

Providers of technology which deploy IoT based systems allowing farmers to improve their management. (Hispattec from Spain and Synelxis from Greece);

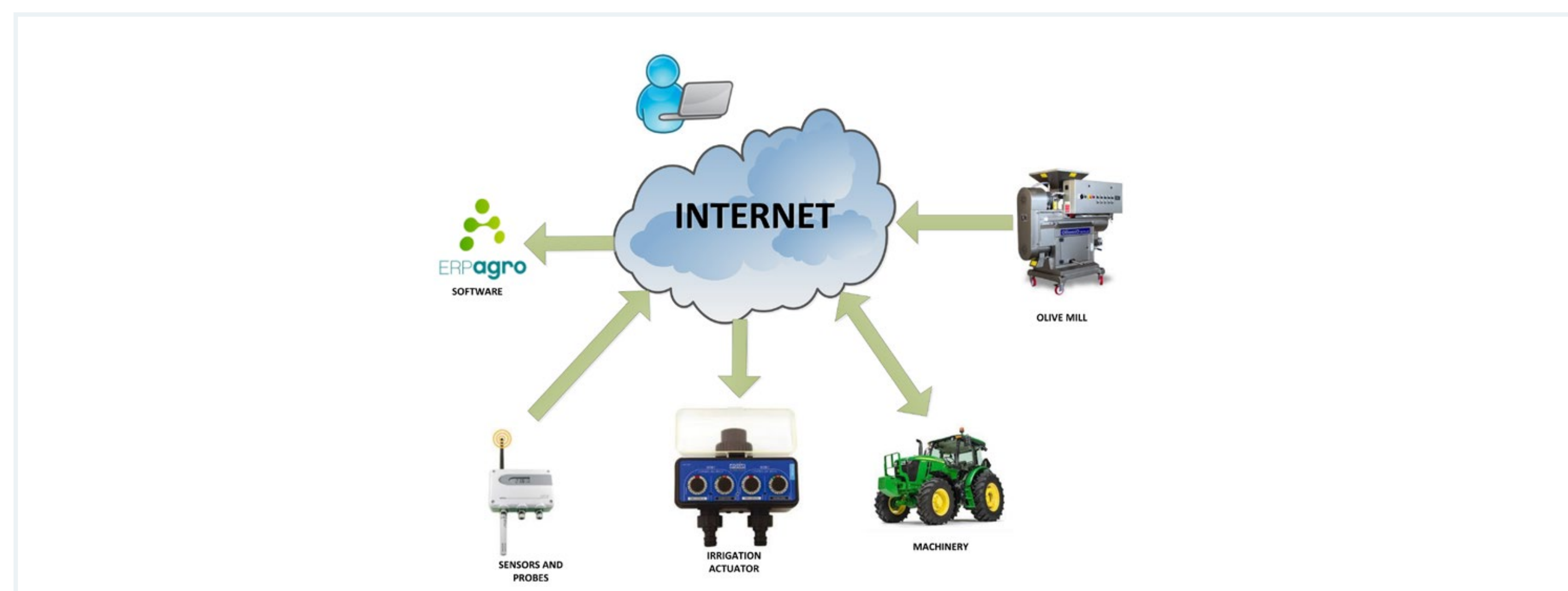
RESEARCH ORGANIZATION:

Organizations that provide agricultural knowledge based on which the deployed systems support decisions and KPIs. These organizations will perform research activities in order to define those parameters. (Tecnova from Spain and AUA from Greece).

CROP MODELLING. DSS FOR IRRIGATION OPTIMIZATION

DSS experts with knowledge in agronomic labors and crop modelling in order to develop and deploy, in IT platform, the algorithms for calculating the water needs and the irrigation planning.

HOW IT WORKS



Deployment of:

- Sensors and probes/supporting agronomic decisions,
- Remote actuators/irrigation process,
- Agricultural machinery/monitoring and controlling,
- Sensors in oil mills/monitoring and controlling key data,
- ERP Agro /data management from IoT platform,
- Agronomic models and algorithms for water needs and irrigation planning calculation.

THE IMPACT

OUR OBJECTIVES

- IoT boxes: soil sensors, probes, air and plants sensors (50 ha/ IoT box),
- Embedded ISOBUS data capture in harvesters and tractors,
- Fat and quality control using NIR sensors in olive mill,
- ERP solution for managing the process and the DSS,
- DSS modelling and algorithms for water needs and irrigation planning calculation.

ON ECONOMY

- Increase crop production,
- Reduce crop cost,
- Increase production quality,
- Crop per drop,
- Crop economic value per drop,
- Cost per drop.

OTHER IMPACT

- Lower residue levels in irrigation water,
- Lower residue levels in crop soil,
- Improved traceability.