



6/9

CURRENT TRL
& TARGET TRL

QUALITY

TRANSPARANCY
IN FOOD QUALITY

COST
& INPUT

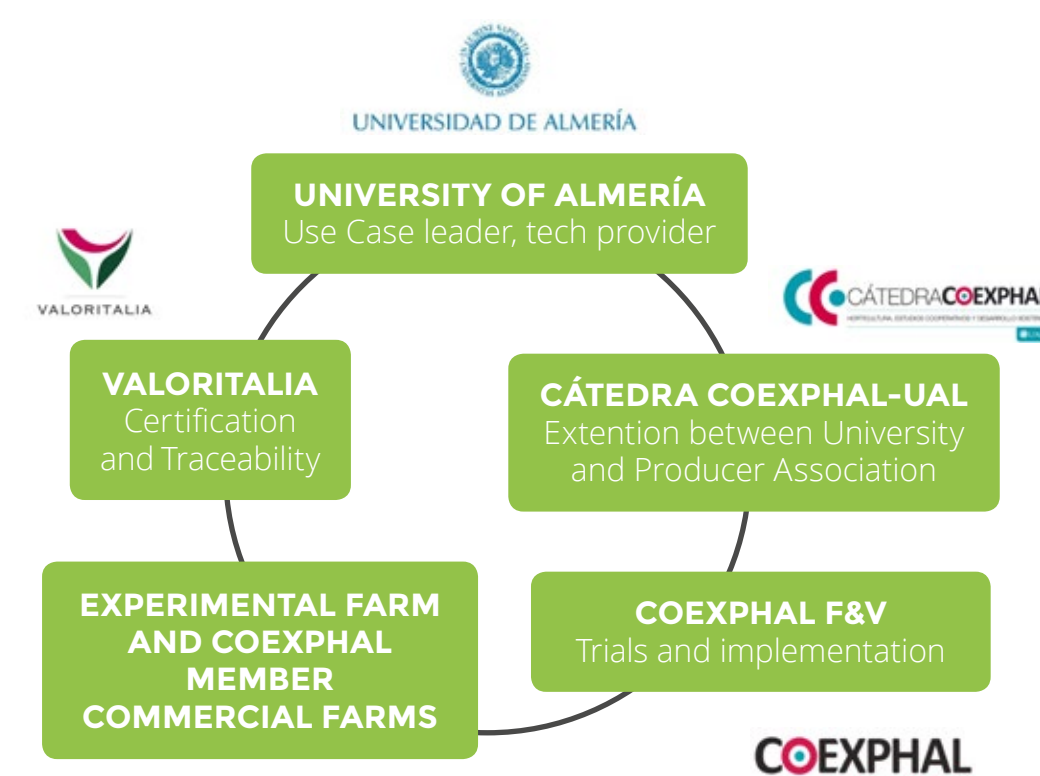
REDUCED



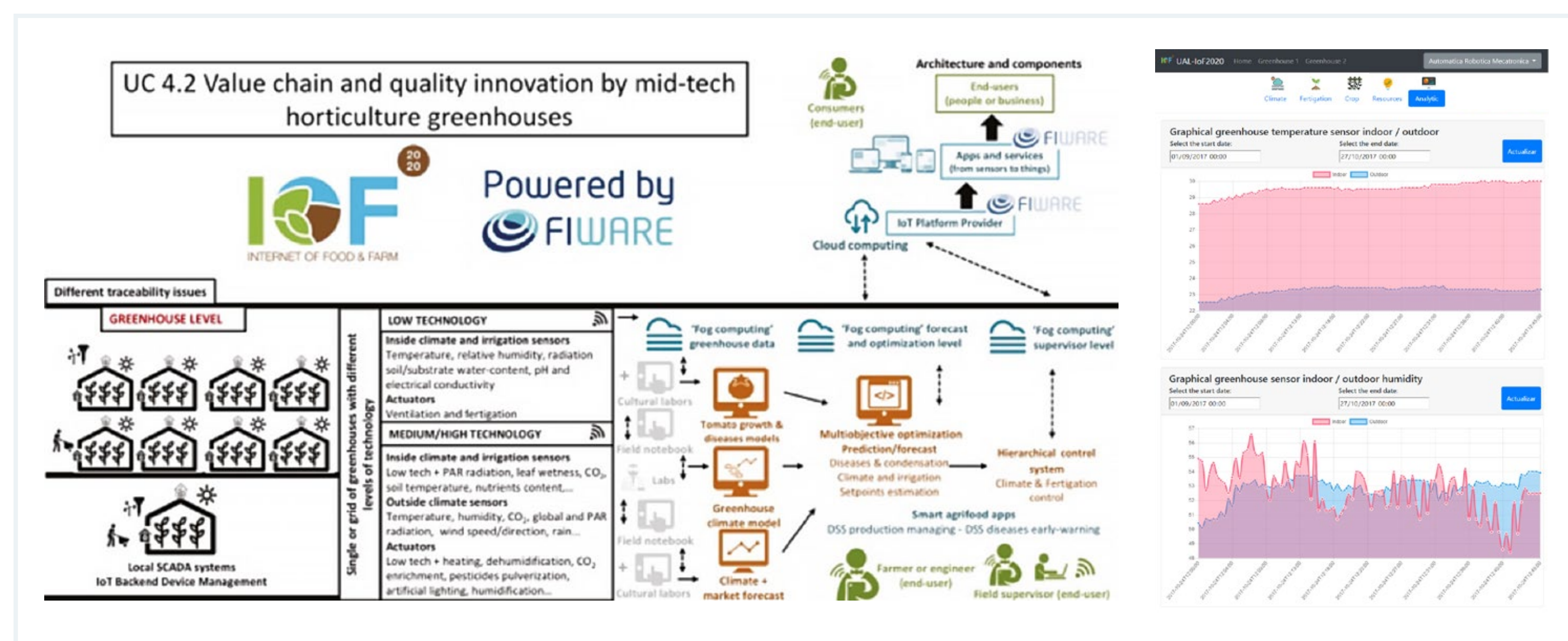
4.2 CHAIN-INTEGRATED GREENHOUSE PRODUCTION

The main challenge is to integrate an IoT solution for DSS in the value chain of greenhouse tomato-crops to ensure vegetable quality. That will happen through:

- Obtaining optimum ambient conditions during the whole chain, reducing inputs and increasing energy efficiency and avoiding/reducing the use of pesticides,
- Using technology and data sharing as essential tools in each of the phases based on transparency and process information.



HOW IT WORKS



COUNTRIES



PARTNERS



This IoT web-based DSS, developed using FIWARE, integrates information from sensors, field notebook, lab analysis and models. Information on production and management in the whole supply chain is available to end-users to help them taking decisions and to provide value added information related to crop growth and climate and irrigation setpoints to fulfill quality, sustainability and traceability objectives.

THE IMPACT

OUR OBJECTIVES

An IoT web-based Decision Support System (DSS) platform for greenhouse tomato supply chain focusing on water, energy and other inputs to achieve efficiency, transparency and safety.

ON ECONOMY

Greenhouse vegetable economic efficiencies based on:

- Increased production,
- Reduced costs and inputs,
- Reduced volatility of market and
- Added value of the product.

OTHER IMPACT

- Increasing system sustainability through water and energy efficiency, and through reducing the use of pesticides and underground water contamination,
- Providing transparency about food quality and process information to consumers.