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CURRENT TRL  
& TARGET TRL

**WATER**

IMPROVED WATER USE  
EFFICIENCY

**+ 15%**

INCREASED YIELD

**QUALITY**

HIGHER QUALITY OF  
FRUIT



**COUNTRIES**

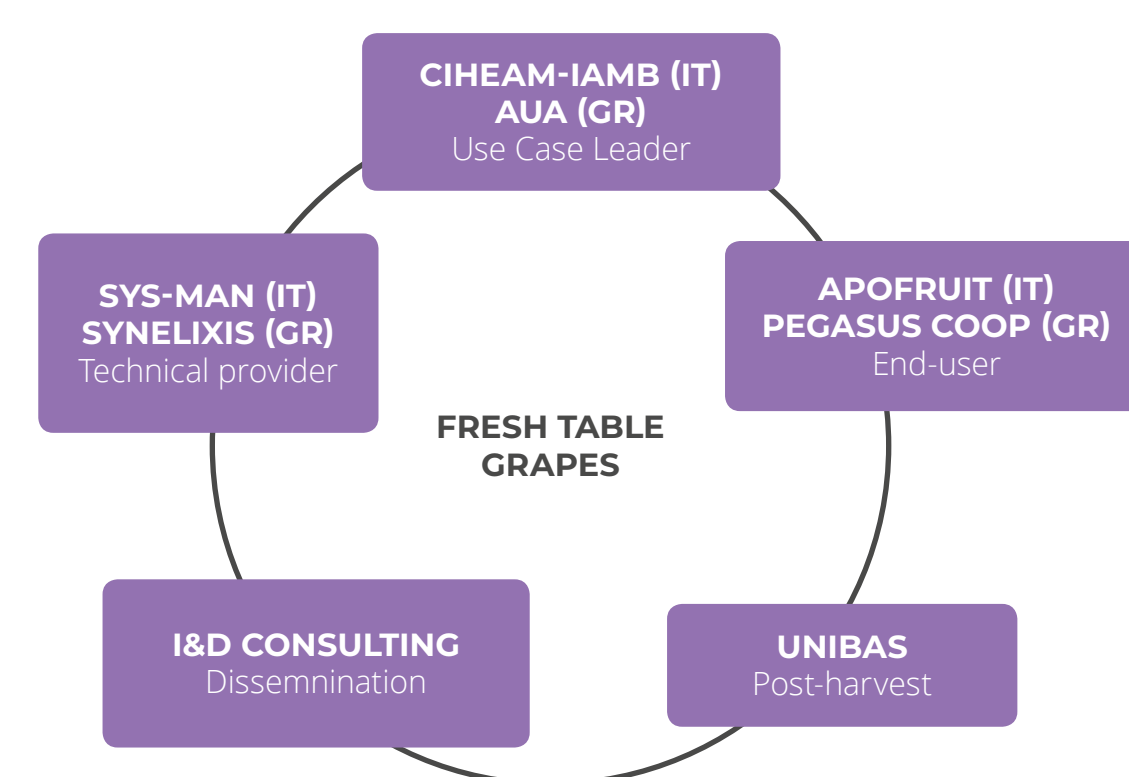


**PARTNERS**

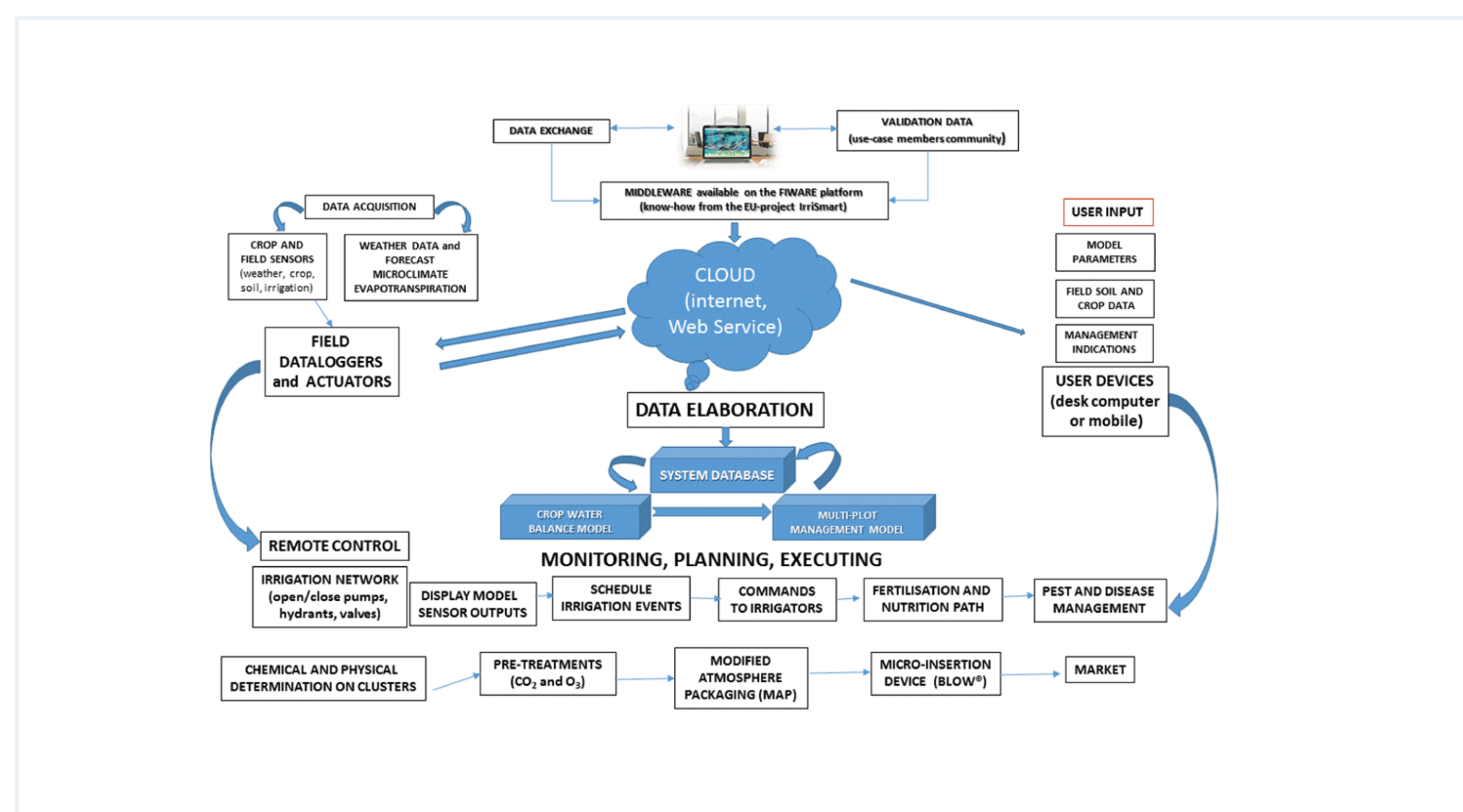


# 3.1 FRESH TABLE GRAPES CHAIN

The challenge is to integrate existing technologies in table grapes (conventional and organic) value chain and deploy them from small scale to a larger scale. The implementation of IoT will produce economic benefits and positive environmental impacts due to better resource management (water, fuel and pesticide inputs).



## HOW IT WORKS



The solution provides detailed information on the major critical points of fresh table grape production:

- Irrigation,
- Table grapes managing,
- Pest management,
- Post-harvest.

Installations are covering 10 ha in Italy and 5 ha in Greece, with more than 40 sensors installed in both countries and involving post-harvest techniques and two packing houses.

## THE IMPACT

### OUR OBJECTIVES

The goal of the Fresh Table Grapes is to test, develop and disseminate architectures, methodologies and strategies, for integrating heterogeneous IoT and Remote Sensing technologies on production and chain level into a coherent system, for a sustainable Fruit Sector.

### ON ECONOMY

Developing innovative business models for IOT managing of fresh table grapes "from fork to fork", more in specific:

- Reduction in irrigation costs,
- Reduction labor costs,
- Increased perceived quality,
- Increased price per unit,
- Increased shelf life duration.

### OTHER IMPACT

Creation of an innovative ecosystem able to link farm activities with post-harvest quality with positive impact on the environment and on consumer's trust. Sensor introduction all along the value chain will improve the management and the quality of the finished product.