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CURRENT TRL
& TARGET TRL

- 15%

PESTICIDE USE

- 25%

WATER CONSUMPTION

- 19%

TOTAL INPUT COSTS



COUNTRIES

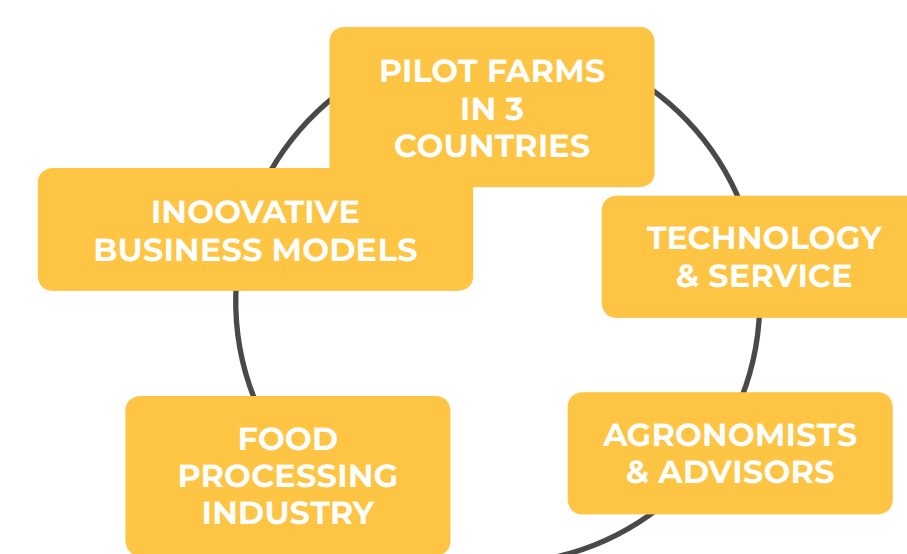


PARTNERS



1.6 DATA-DRIVEN POTATO PRODUCTION

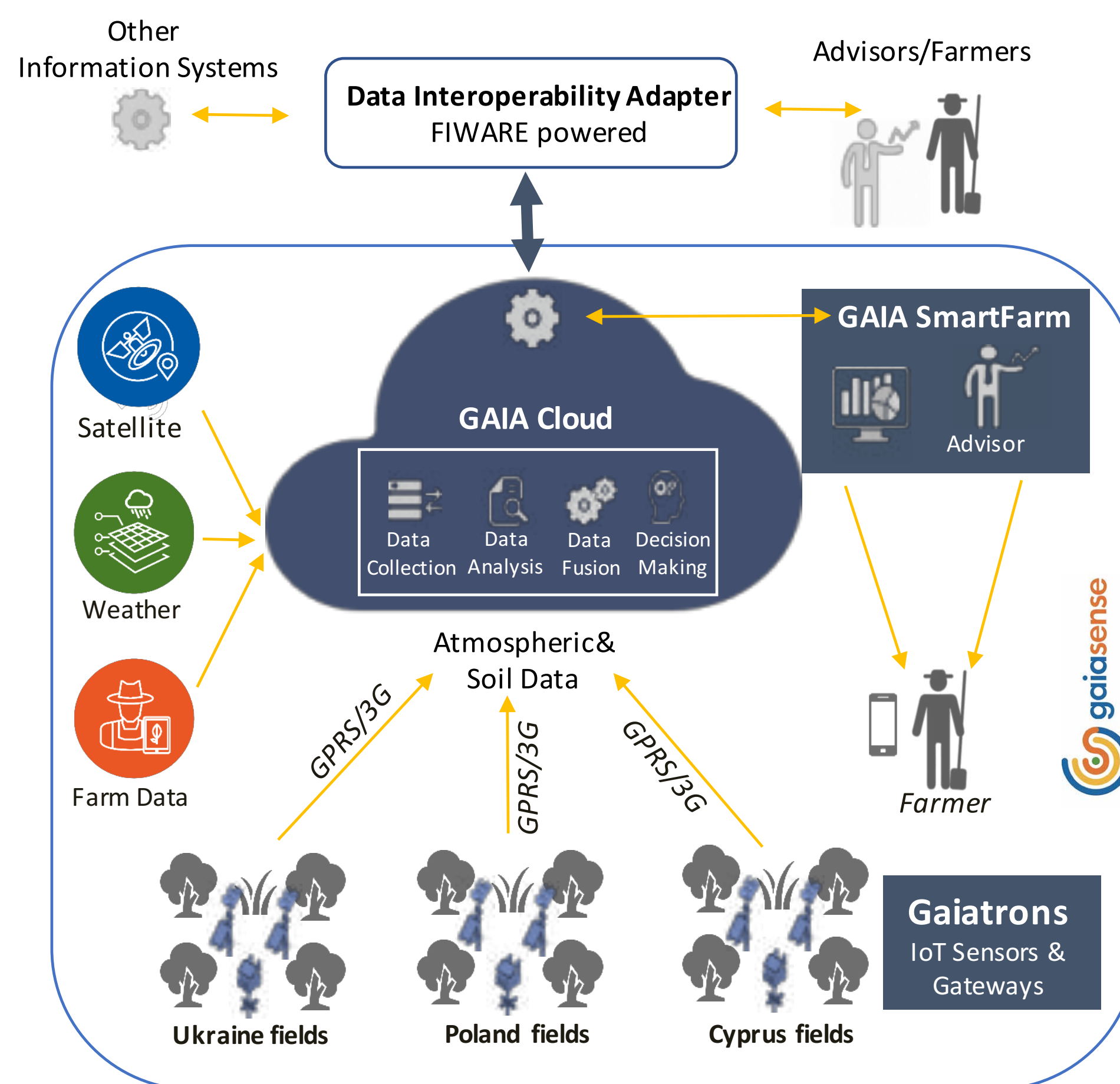
European potato producers are facing a series of challenges such as crop pests, diseases and climate change. Hence, this use case adopts a holistic approach based on research and a unique blend of cutting-edge technologies while offering inexpensive yet valuable advice to farmers. An innovative, market-ready smart farming solution supports irrigation, pest management and fertilisation. Leveraging a network of telemetric IoT stations combined with satellite data and scientific models tailored to the specificities of the geographic areas, helps small-scale farmers to tackle those challenges.



PARTNERS:

- IoT and smart farming services: NEUROPUBLIC
- Pilot farms and producers: Poland - FFP2, Cyprus - ARI, Ukraine - AgroLV
- Food producing company: FFP2
- Agronomists/Advisors: Delphy, AgroLV
- Expert in Earth Observation: WR

TECHNICAL SOLUTION



Data-driven potato prediction utilises the GAIA sense smart farming solution which provides innovative services, building on state-of-the-art technologies like IoT, Big Data, Earth Observation, Context-based decision support and machine learning.

The GAIA sense solution is extended with FIWARE-powered, standards based, data exchange mechanisms in support of cross-system interoperability and openness.

THE IMPACT

OUR OBJECTIVES

- Demonstrate how the use of IoT-driven smart farming solutions can help reduce the environmental footprint of agriculture;
- Facilitating farmers' compliance with a wide range of European environmental legislation, including water and soil protection;
- Improvement of nitrogen use efficiency (+15%);
- Reduction of pesticides use (-15%);
- Reduction of water consumption (-25%).

OTHER IMPACT

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OTHER IMPACT

- Demonstrating the potential benefits derived from the use of IoT-driven solutions;
- Achieve sustainable economic growth and foster innovation;
- Reduction of inputs costs (-18,6%);
- Farmers benefited from the provided advice >500;
- Smart farming advice available up to 1500ha;
- Building on extensive business network in >50 countries.