

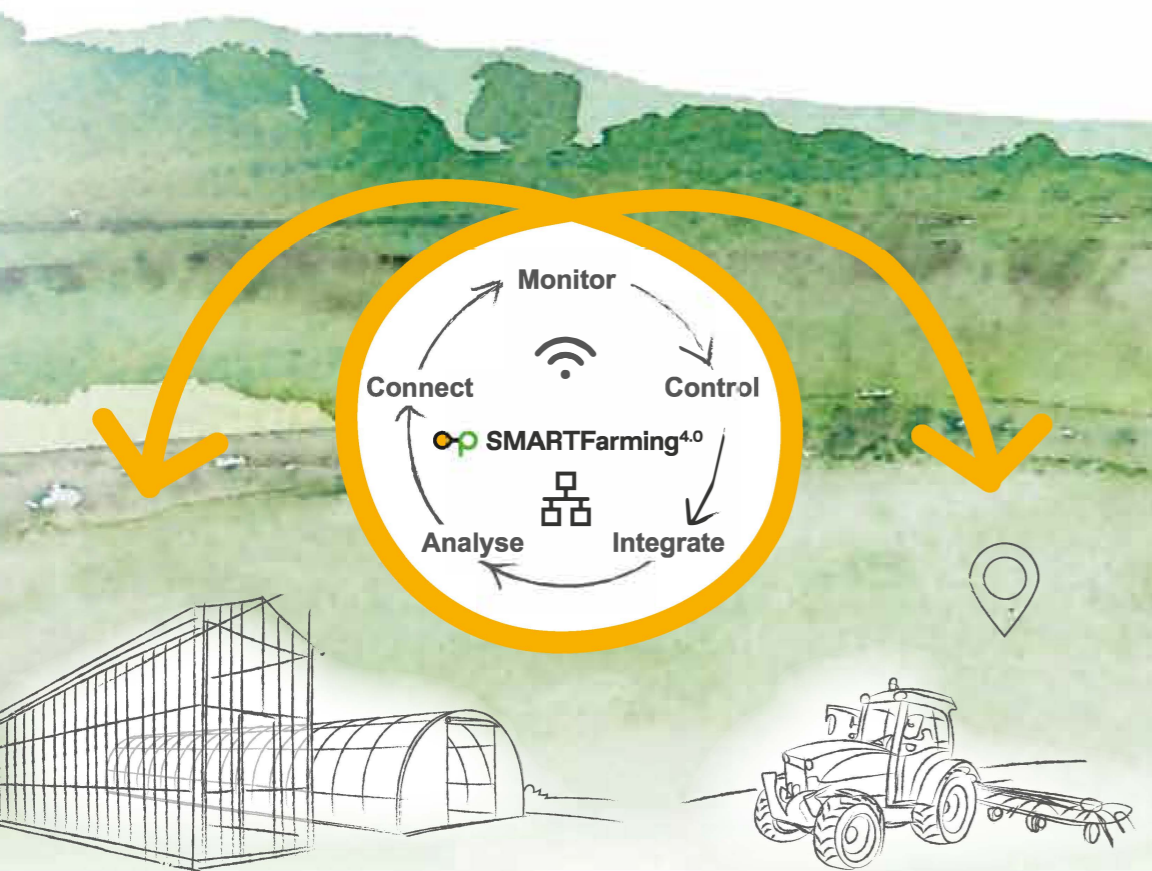
technophylla®

Digital Farming 4.0

Technophylla designs and supplies AGRICULTURE 4.0 solutions to the agribusiness sector.

SMARTFarming^{4.0} is the IoT solution for planning, monitoring and controlling productive assets and for guaranteeing the traceability of products throughout the food supply chain.

The cloud driven edge computing architecture allows precision farming in open fields and in soilless cultivations.



GREENHOUSES AND VERTICAL FARMS

FIELD CROPS

technophylla®

Digital Farming 4.0

DIGITAL SOLUTIONS FOR MODERN, EFFICIENT AND SUSTAINABLE AGRICULTURE

technophylla®

Digital Farming 4.0

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PARTNER

 **orchestra**
Industry4.0 by design

SMARTFarming^{4.0}

Solutions

SMARTFarming^{4.0} for greenhouses and vertical farms

- Plans activities and gives real time production status updates
- Controls equipment and machines, monitoring parameters and allowing traceability of production lots in the supply chain
- Takes stock of production times and materials used
- Sends warning alarms to operators, even remotely

SMARTFarming^{4.0} for farming machinery

- Collates data in the field and with on-board calculations elaborates ready-to-use information for precision farming
- Develops systems of control and adjustment for an efficient use of farming equipment
- Monitors and traces activities in the field
- Controls the performance of equipment and avoids downtime through efficient management

SMARTFarming^{4.0}

Advantages

- Compatible with other supply chain and climatic control systems
- Constant georeferencing of all variables
- Wired or wireless connection, using various protocols
- Low energy consumption
- Allows real time data collection and analysis, not only in the field but along all the supply chain
- Interconnects any type of new or existing machinery and plants
- Can be remotely installed, tested and customized over time

PhyllaLab[®]

Algorithms and recipes for soilless production of vegetables in aeroponic greenhouses

In soilless cultivation SMARTFarming^{4.0} actively monitors and checks all environmental variables, such as light, temperature, humidity, enrichment and ventilation according to the type and growth phase of the product, thereby optimizing production in terms of time and quality. The aim is to obtain horticultural products that have higher nutritional value and improved organoleptic properties in greenhouses and vertical farms, than those produced in the field. This allows for less use of water and nutrients, no pesticides, use of lighting that reproduces optimal photobiological periods and low energy consumption.

Edo Radici Felici is the partner of Technophylla for the digitization and integration of aeroponic techniques and traditional agriculture.



PREPARATION



CULTIVATION



HARVESTING



PROCESS
TRACEABILITY



TRANSFORMATION



DISTRIBUTION
SYSTEMS