

**Service ID** S00227

**Location** Italy



## **Wireless communication infrastructure serving the agricultural sector**

### **Provider service**

Università degli Studi di Napoli Federico II

### **Link to content**

<https://www.agrifoodtef.eu/services/wireless-communication-infrastructure-serving-agricultural-sector>

### **Type of Sector**

Arable farming, Food processing, Greenhouse, Horticulture

### **Accepted type of products**

Data, Design / Documentation, Software or AI model

### **Type of service**

Business modelling, Collection of test data, Data analysis, Performance evaluation, Test execution

### **Description**

The service focuses on supporting the development of optimal wireless communication infrastructure for the agricultural sector. By leveraging technologies like Wi-Fi, Bluetooth, cellular networks, and satellite communication, it enables real-time monitoring, data collection, and remote control of agricultural equipment and devices. This infrastructure enhances efficiency, productivity, and sustainability, leading to higher yields, lower costs, and more sustainable farming practices across large agricultural landscapes.

## How can the service help you

The service can help you by providing a robust wireless communication infrastructure that enables real-time monitoring and data collection across your agricultural operations. This connectivity allows you to remotely control equipment and sensors, improving efficiency, reducing operational costs, and enhancing productivity, ultimately leading to more sustainable farming practices and increased yields.

## How the service will be delivered

**Tailored Connectivity Solutions:** The service can be customised to suit the specific communication needs of your agricultural operation, choosing the most appropriate wireless technologies (Wi-Fi, Bluetooth, cellular, or satellite) based on factors like farm size, geographic location, and environmental conditions.

**Adaptable to Different Farm Scales:** Whether you're managing a small farm or a large-scale agricultural operation, the service can be scaled and adapted to provide optimal connectivity across varying landscapes, ensuring seamless communication and data flow at any scale.

**Integrated with Existing Systems:** The service can be integrated with your current agricultural equipment, sensors, and devices, allowing for seamless remote monitoring and control without requiring major overhauls of existing infrastructure.

**Data-Driven Customisation:** The service can be tailored based on specific data collection requirements, ensuring that the wireless communication infrastructure supports the real-time monitoring and data analysis of the most critical variables for

## Service customisation

The service will be delivered by designing a comprehensive wireless communication infrastructure tailored to the agricultural sector. This will involve setting up and integrating wireless technologies like Wi-Fi, Bluetooth, cellular networks, and satellite communication across agricultural landscapes. Ongoing support and optimisation will be provided to ensure the system operates effectively and continues to deliver long-term benefits.