Agriculture

Sigfox-enabled solutions address a wide range of use cases

Today's agriculture industry is data-centered, precise, and smarter than ever. The internet of things allows farmers, ranchers and beekeepers to stay connected to their fields and stock like never before.

The next generation of smart agriculture solutions, powered by Sigfox's dedicated IoT network, removes the barriers posed by earlier generations of connected devices. The newest solutions are affordable, user-friendly, and provide uninterrupted connectivity even in the most remote locations.

Precisely monitor weather conditions

Virtually fence, track and manage herds

Collect soil conditions data

Monitor silo and tank levels

Measure the temperature of grain stocks

Protect remote farmhouses and outbuildings

Secure gates and deter livestock thieves

Optimize colony health with remotely monitored beehives

Monitor food temperatures along the entire cold chain

About Sigfox

Sigfox is the world's leading service provider for the Internet of Things (IoT). The company has built a global network to connect billions of devices to the Internet while consuming as little energy as possible, as simply as possible.

sigfox operator

IoT soil conditions monitoring sensors optimize agriculture through data

The challenges farmers face today

Lots of physical maintenance required

Many trips have to be taken in order to manually check the soil humidity on a regular basis.

Difficult and inaccurate water estimates

It can be difficult to know the exact amount of water to give plants, thus causing stress for the crops by over or underwatering.

Unexpected costs and water waste

Overwatering crops could lead to higher water costs than what is really needed.

Planting times

It is sometimes difficult to know the optimal time to plant without data.

It is hard to manually track soil conditions

Manually measuring key data points about crops is often difficult, time-consuming, and more likely to be inaccurate.

Farmers can instantly and remotely know several agricultural data points about crops

Soil Moisture (VWC)

Soil volumetric water content can be better monitored by using connected sensors sending data through the Sigfox IoT global network.

Soil Temperature

Crops should be planted and grown at their ideal temperature. Sensors can monitor underneath ground level temperature for an optimum reading.

Air Temperature

Tracking average air temperatures assist in determining ideal planting and watering times (and anticipating pests).

The benefits of using IoT solutions

Better water conservation

Less likely to over or underwater crops

Save time and resources

Discover Sigfox Ready devices and IoT end-to-end solutions enabled by Sigfox:
partners.sigfox.com

sigfox