Digital Agriculture for Every Farm

Vitaly

Company Introduction

AgrioCom is the first company using LoRa and NB-IoT technology for smart agriculture and producing the next-generation IoT monitoring and controlling devices.

At present, the company's products mainly related to agricultural data monitoring, irrigation automation control, greenhouse automation and web cloud. AgrioCom motto is, “Digital Agriculture For Every Farm!"

Created by Vitaly Ignatovich, known Austrian IoT expert, and his team, with nearly 20 years of experience in the Agricultural Internet of Things (IoT) have overcome the toughest technical issues and developed new generation of agricultural IoT devices.

AgrioCom was founded in Jiangsu and Shenzhen, China and has a development team in Austria, with products sold in more than 20 countries and regions around the world, including China, Europe, the United States, Russia and Israel. Today, AgrioCom IoT monitoring devices use LoRa to send data to the Web cloud enabling seamless communication across all devices. LoRa devices are more economical and stable than GPRS or 4G modules, significantly reduce installation and maintenance costs.

Founders

Vitaly Ignatovich

Founder and General Manager of the Company

2 master degrees in computer software and hardware, more than 20 years of international experience in IoT for agriculture.

3 invention patents.

Member of Jiangsu 100 Foreign Expert program

Expert of Beijing IoT Association

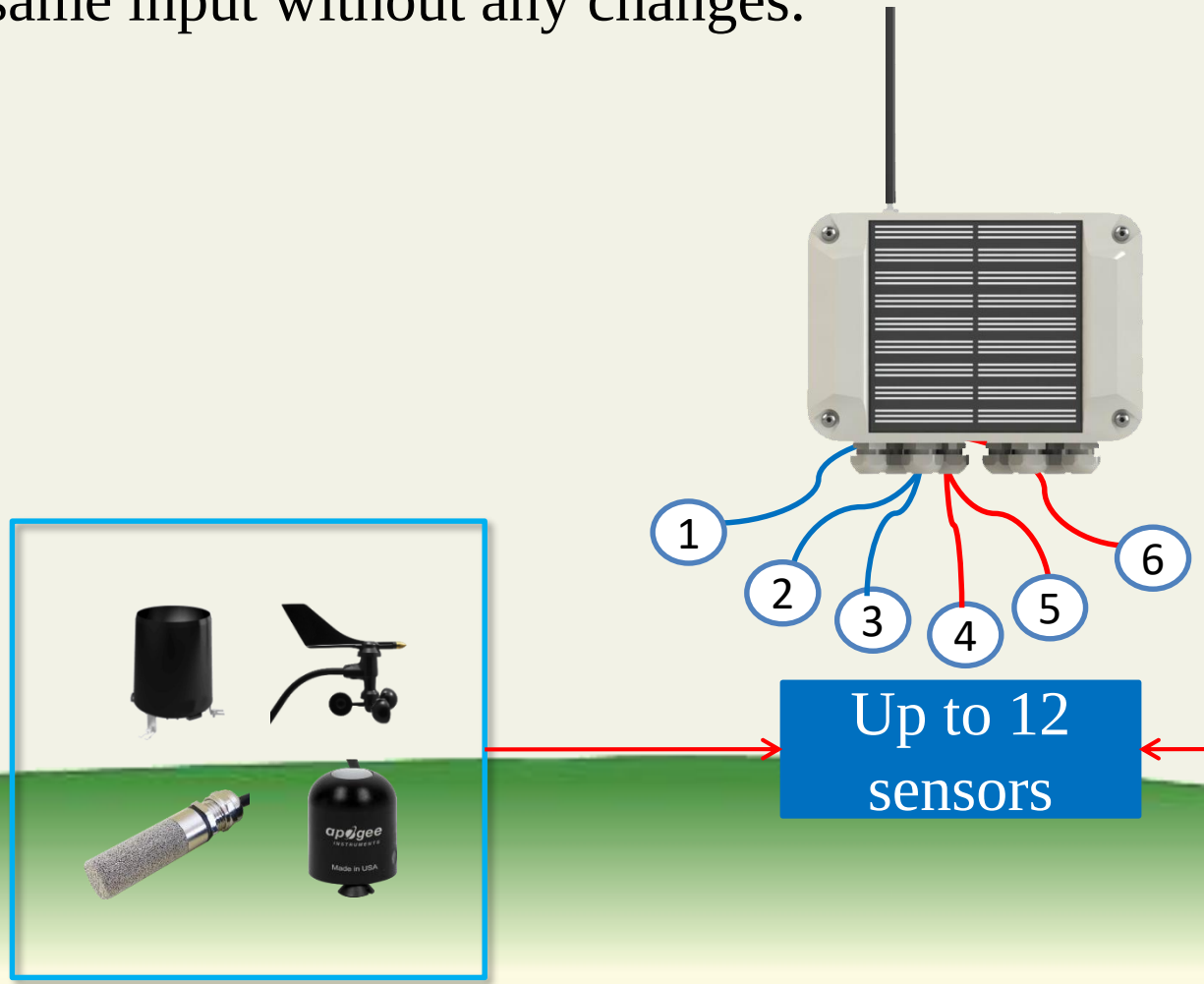
In 2004, led the team in Austria to develop the world's first wireless agricultural weather station.

In 2011, founded Caipos Ltd. in Austria and developed the first low-cost wireless agricultural sensor network.

In 2017, set up AgrioCom IoT ltd. in China to develop the first LoRa agricultural network system for ordinary farmers.

AgrioSens: Wireless Sensor Hub

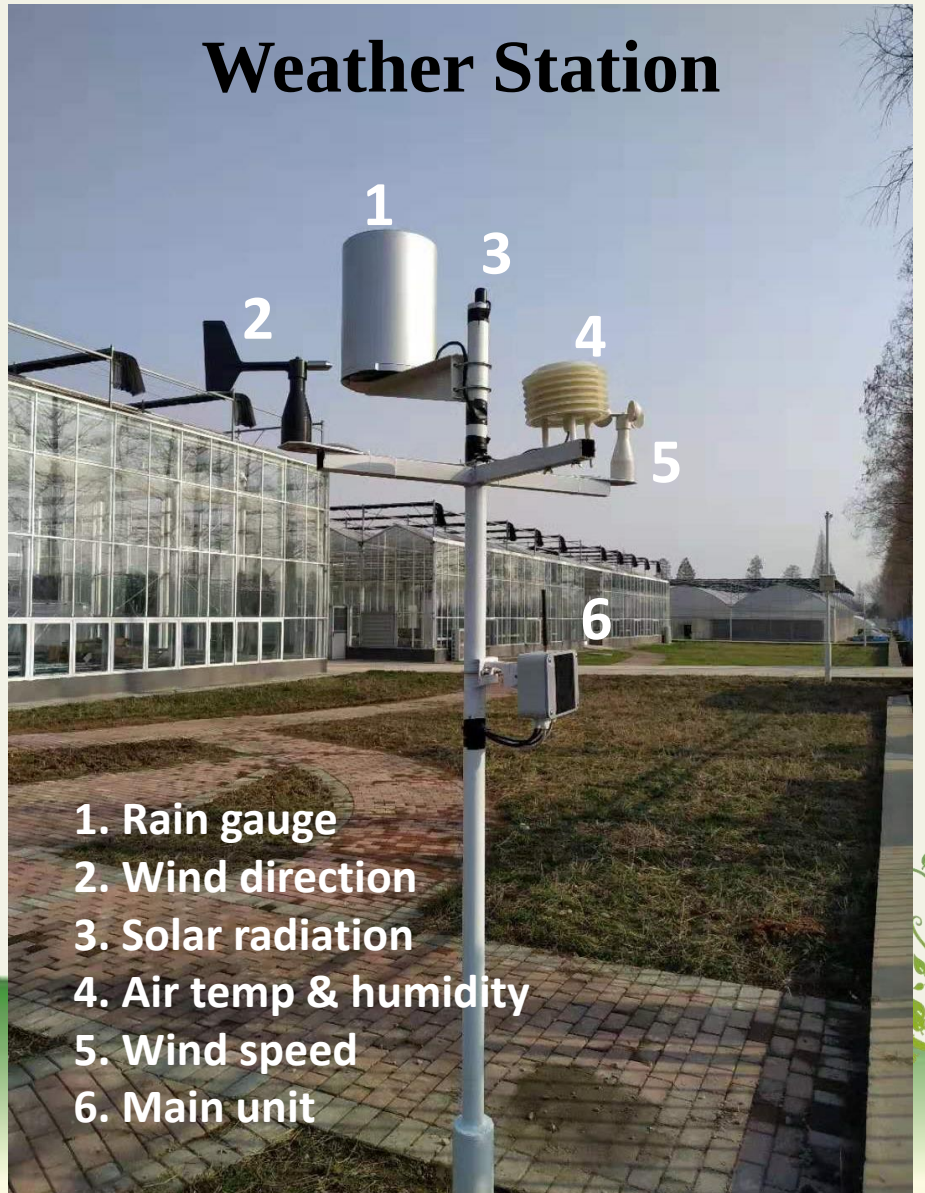
Climate, soil and plant monitoring device for agriculture, sending data directly to the web platform. Any kind of sensors can be connected to the same input without any changes.



AgrioSens

Soil Moisture Station

Weather Station

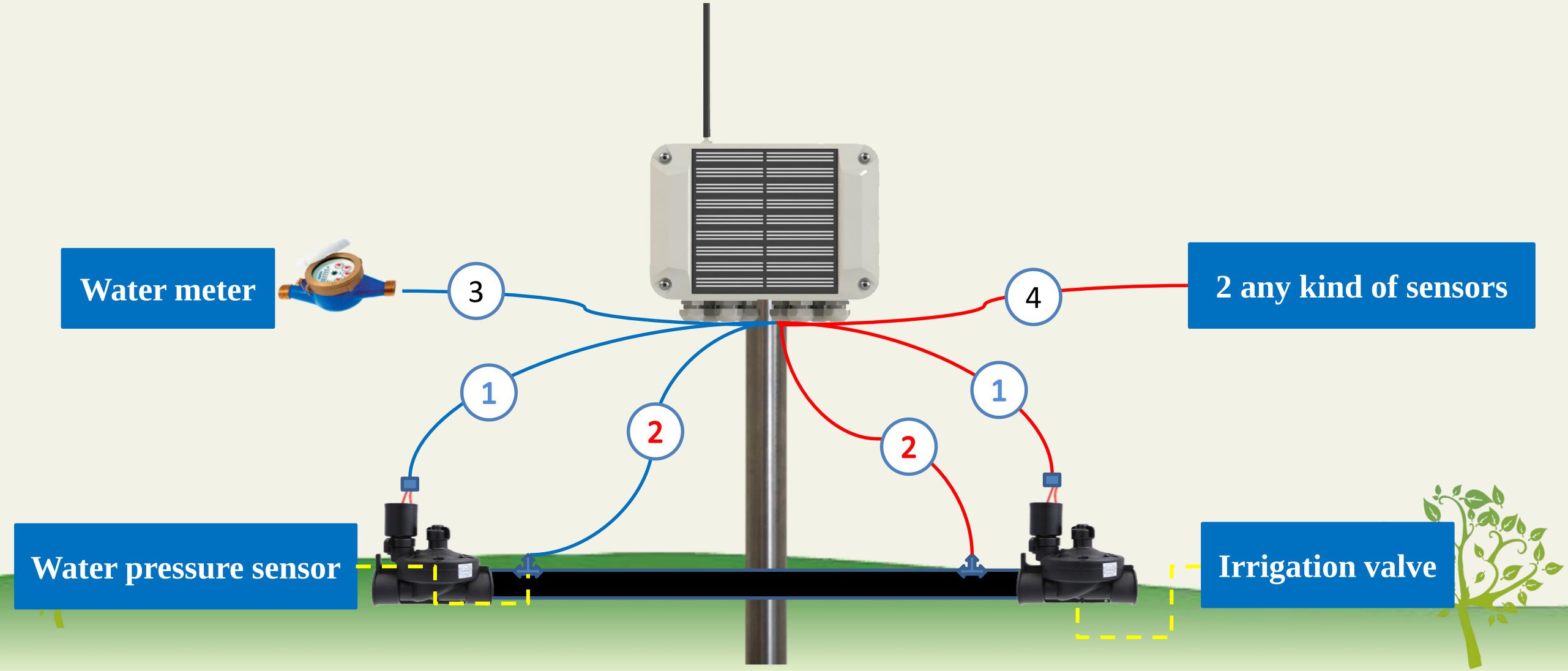


1. Rain gauge
2. Wind direction
3. Solar radiation
4. Air temp & humidity
5. Wind speed
6. Main unit

AgrioValve: Irrigation Valve

One device can control 2 Valves, low-cost, simple irrigation controller for small and middle size farm and greenhouse.

AgrioValve: Irrigation Valve

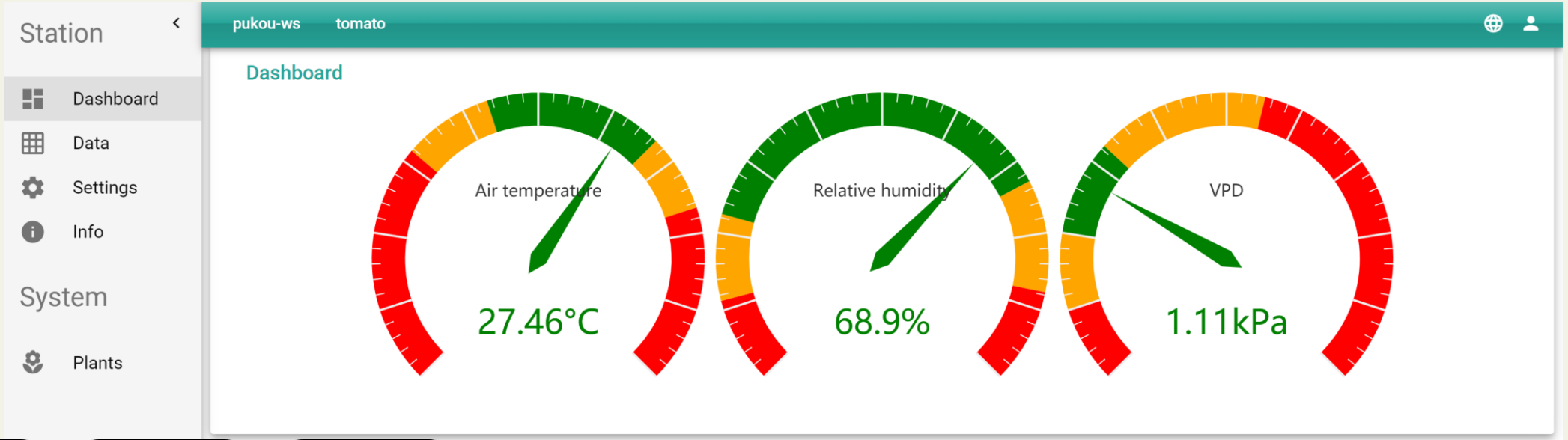


AgrioMac: Pump station

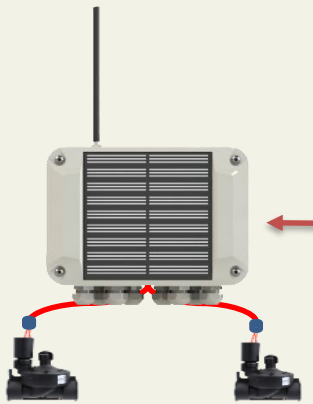
Internet Controlled Pump and Fertigation Station, Intelligent irrigation station allows connecting all devices remotely from Web and app.

Web Application

Control center for all devices and functions. Customer can quickly access sensors data, analysis results, irrigation control and other modules



LoRa Network Principle



AgrioValve

LoRa

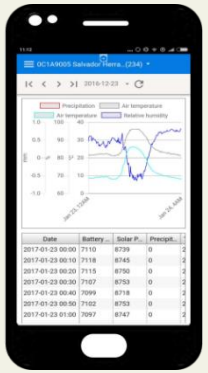
LoRa Gateway

WiFi/Ethernet/3G/4G

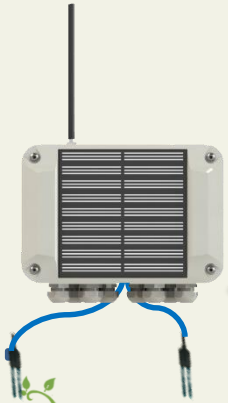
Agri Commander platform

Internet

Internet



Internet



AgrioSens

LoRa

LoRa Gateway

WiFi/ Ethernet/3G/4G

AgriCommander Overview

AGRIOCOM

1

2

LoRa Server

LoRa Gateway

AgriCommander Cloud

MongoDB Big Data

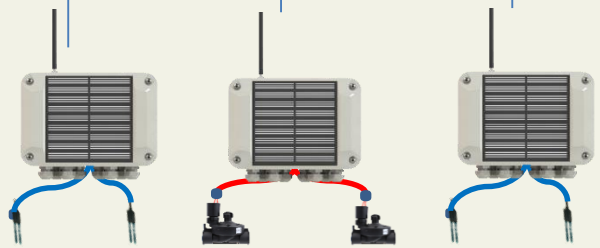
API

UI

JD Cloud

AgriCommander. JD.com

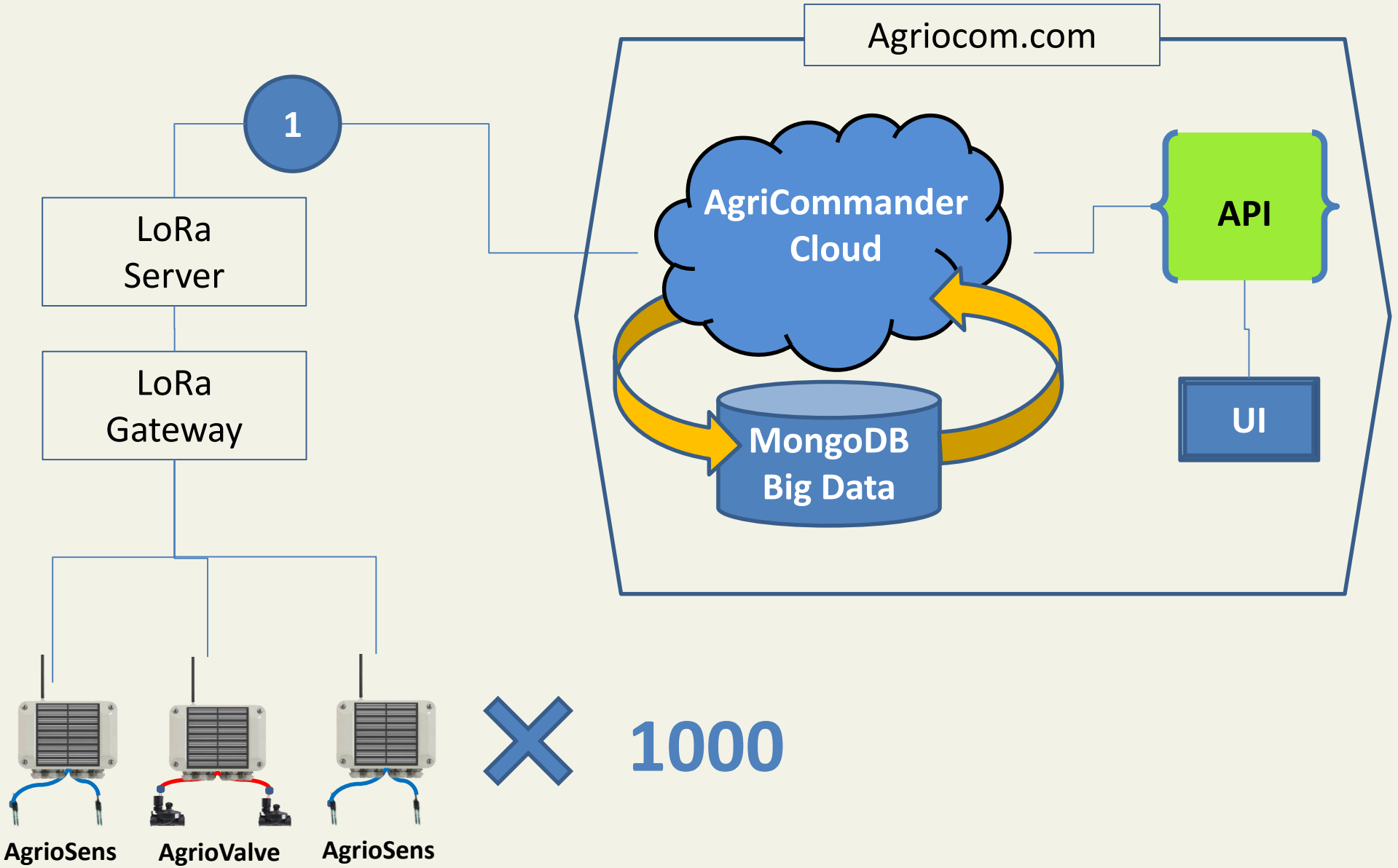
UI



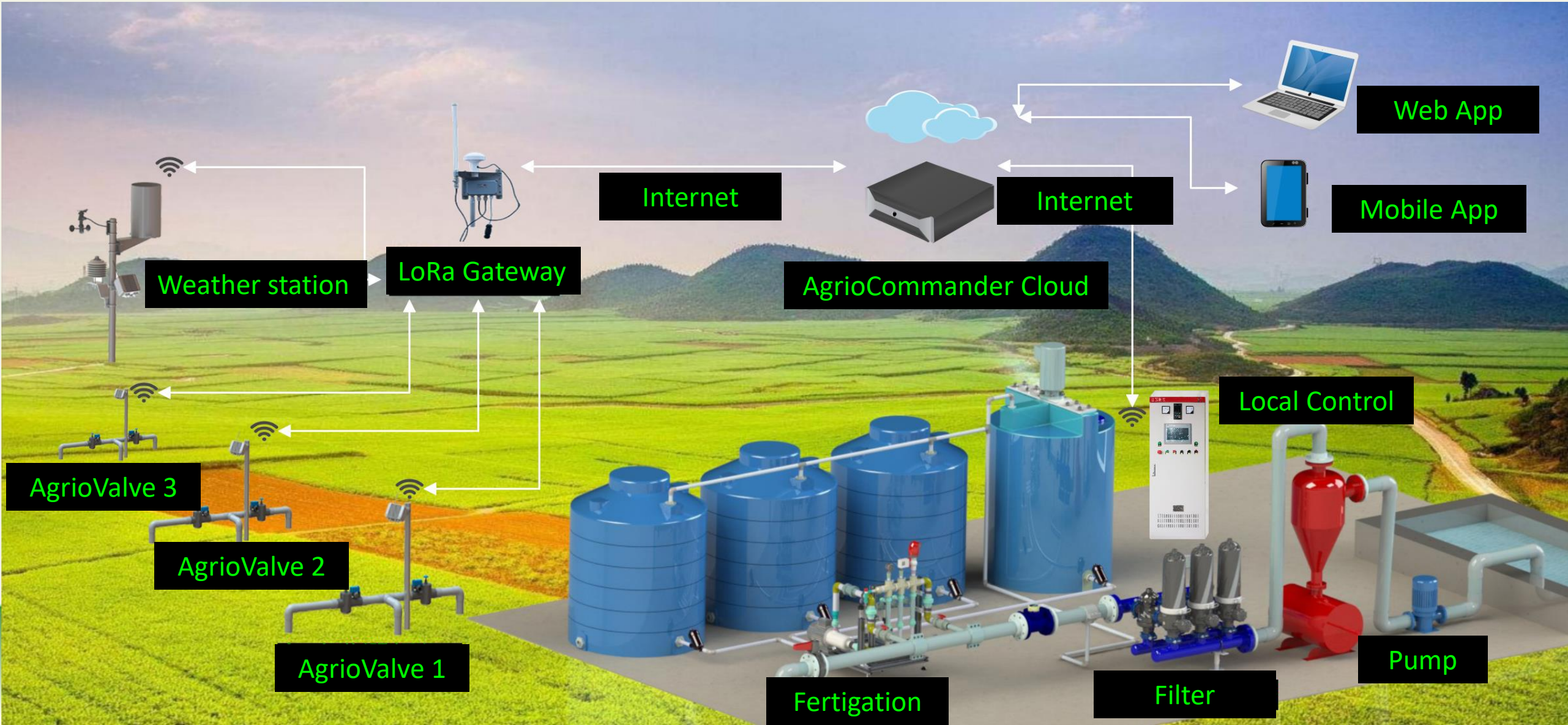
AgrioSens AgrioValve AgrioSens

× 1000

AgriCommander Overview



Complete System



System Advantages

New communication LoRa & NB-IoT

Low cost

Open sensor interface,
support of other companies sensors

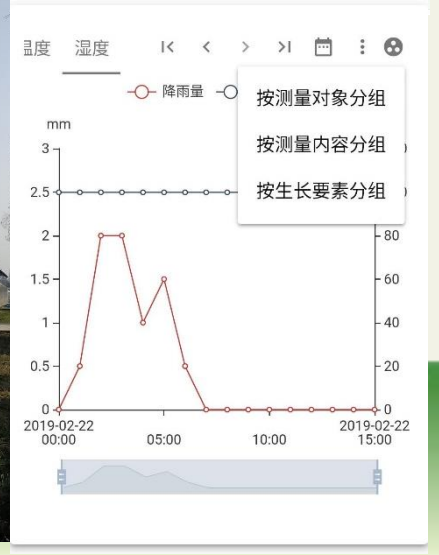
Easy to use & install

Zero configuration

New generation of Web platform

Quality standards

Solutions： Precision Growing



1. Monitor all environmental factors of crops

Three factors: climate, soil and plant growing

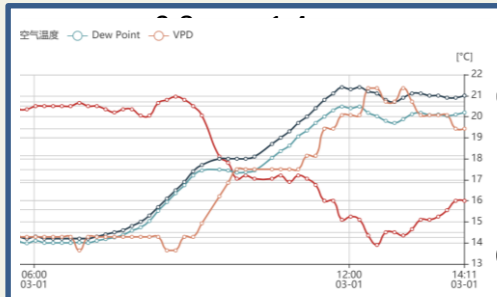
2. Create growth model and build plant profile

Through continuous monitoring of all factors, create most optimal conditions and guide farmers

One Device – 6 Functions

Keep best temperature to make your plants happy

Control humidity to prevent plant diseases and pests



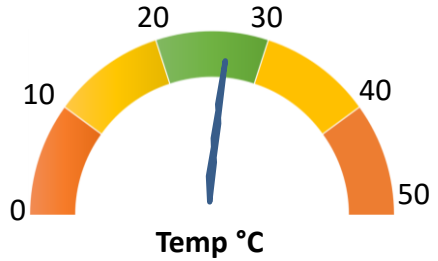
Optimal VPD value improves all aspects of plants growth

Photosynthetically Active Radiation optimal light

Measure Soil Moisture & EC to save water

Measure & control CO2 to stimulate growth

One Device – 6 Functions



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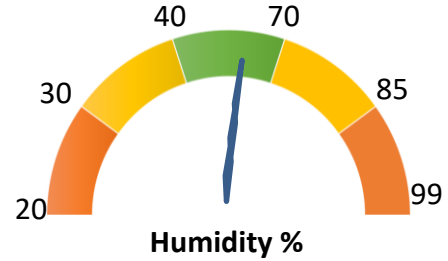
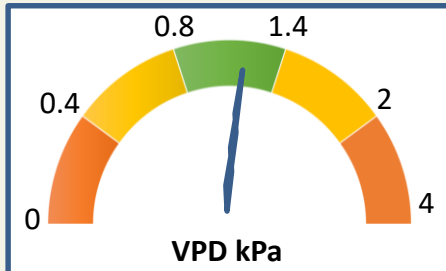


Control humidity to prevent plant diseases and pests



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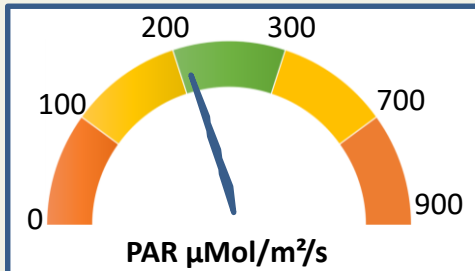

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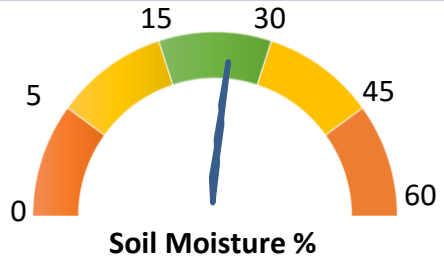
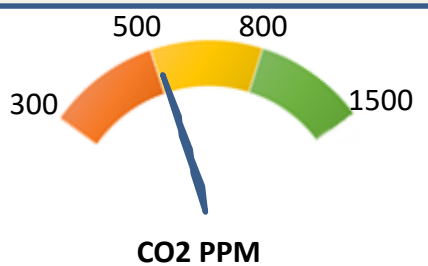


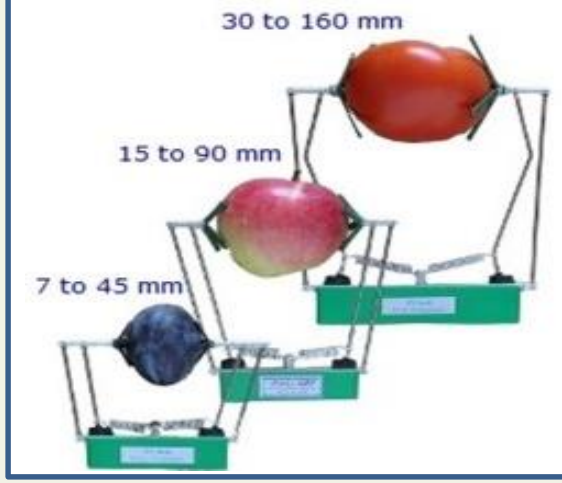
Measure Soil Moisture & EC to save water



Measure & control CO2 to stimulate growth

Plant Sensors

Fruit grows



Trunk size

Leaf temperature

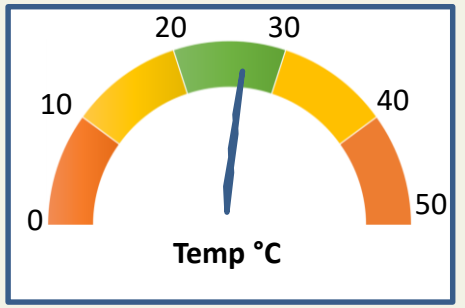
Stem diameter

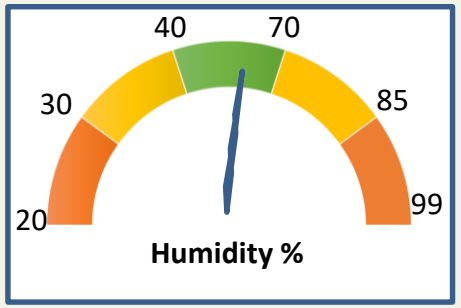
HappyIn Greenhouse

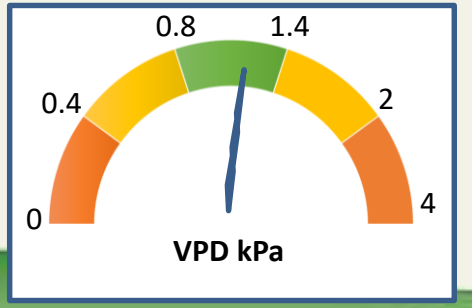
Increase yield

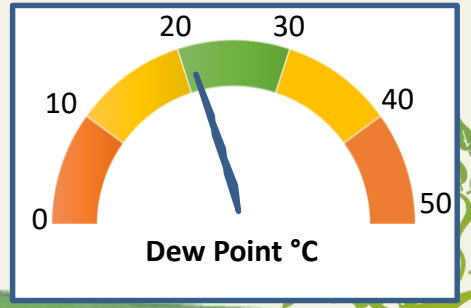
Save labor

Save time









Success Cases

Vitaly International projects in Europe, Turkey, Russia, Ukraine










Success Cases

Chinese projects in Jiangsu province, Anhui province, Shandong province, Shaanxi province

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