

Smart Irrigation

Remote Monitoring System



SMART IRRIGATION
NABAT





Problematic :

Ensuring **food security** has become a challenge in a lot of African countries including Morocco .Many Moroccan agricultural producers continue to use traditional technologies.

Our Vision :

Fighting hunger and providing better protection along with a sustainable use of natural resources.

Empowering farmers at all levels, to know exactly where, when and how to plant and nurture their crops

Our Solution :

The **SMART IRRIGATION-NABAT** solution offers the farmer a connected Mobile platform to monitor agricultural indicators , automate the irrigation system and an artificially intelligent camera that captures and monitors the growth and life of a plant





SMART IRRIGATION
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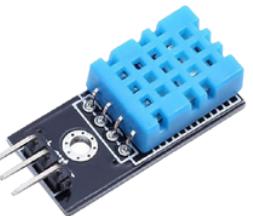
Greenhouse Sensors





SMART IRRIGATION
NABAT

DHT11 Temperature and humidity



SENSORS

Water Level Sensor



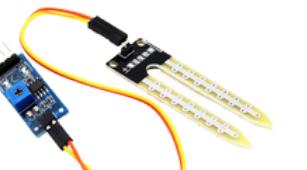
About Nabat :

Greenhouse Sensors

The **controllers** are the heart behind our system where the different **sensors** (soil, outdoor and indoor temperature and humidity) and actuators (like your water pump motors and LED lights) are connected to and link to the automation software.

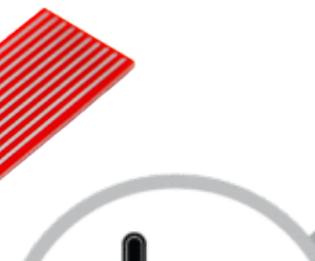


Soil Moisture Sensor



SENSORS

PLANT & SOIL



OUTDOOR



INDOOR

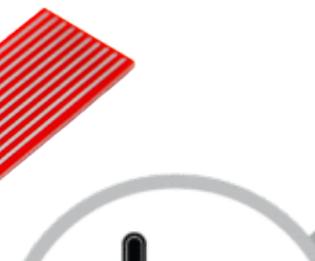
SENSORS

Water Level Sensor



SENSORS

PLANT & SOIL



OUTDOOR

INDOOR

SENSORS

EQUIPMENT CONTROL



EQUIPMENT
CONTROL

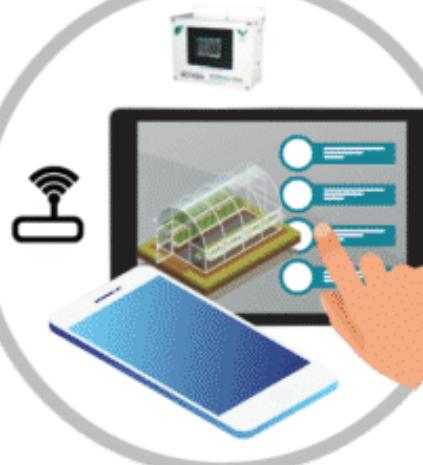
ventilator



Pump



REMOTE
MANAGEMENT



phpMyAdmin



Java Windows
Builder



SMART IRRIGATION
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Machine Vision Cameras



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About Nabat :

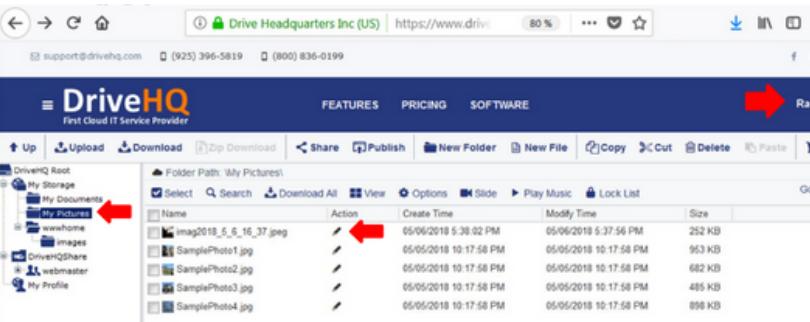
Machine Vision Cameras

Machine vision technologies are allowing growers to get real-time and historic playback on their crops.

The main purpose is to **connect plants** with growers and growers with its facilities to create a better environment for the plants.

The **camera system** treads on a railway directly above the plants, learning their patterns and watching out for the most minute changes in a **plant's growth cycle**. Highly-detailed pictures of each plant are created and sent right to the grower's computer or tablet device. This gives growers **precise and accurate data** on their produce, enabling proper plant management and better crops .

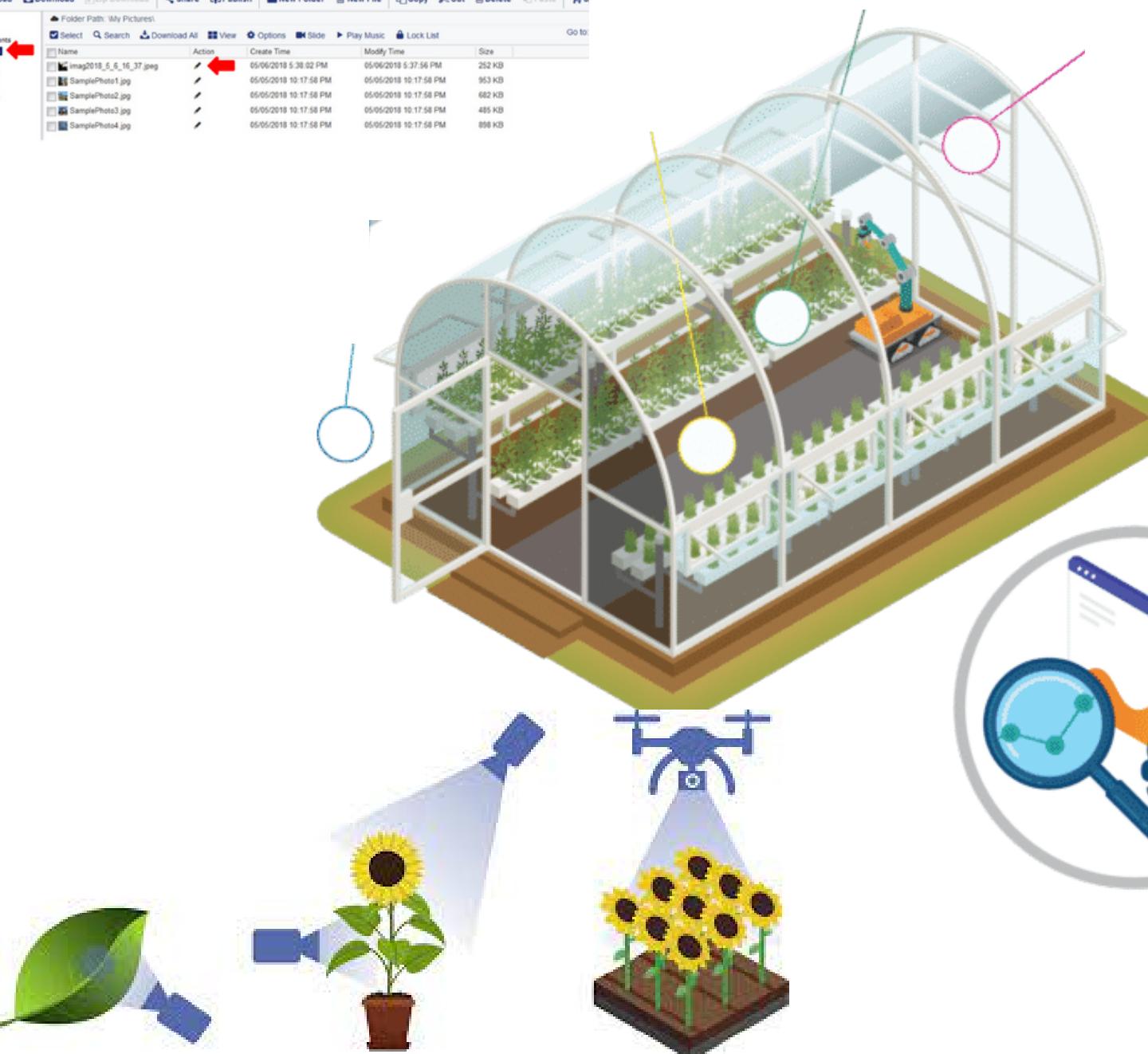
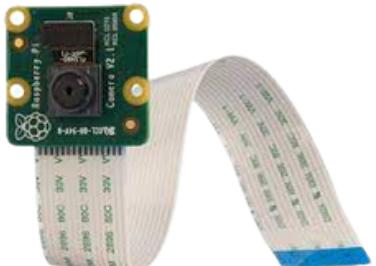
Serveur FTP



Raspberry pi 4



Raspberry pi Camera



REMOTE MANAGEMENT

SMART PHONE APP
WEB PORTAL
SMS ALERTS
SCHEDULING
HISTORIC DATA
ENERGY TRACKING
PLANT GROWTH
SUPPLIER DATA
PACKAGING DATA
CROP PRICING
LABOR SCHEDULES



ANALYTICS & MACHINE LEARNING

PREDICTIVE ANALYTICS
AUTOMATED CONTROL

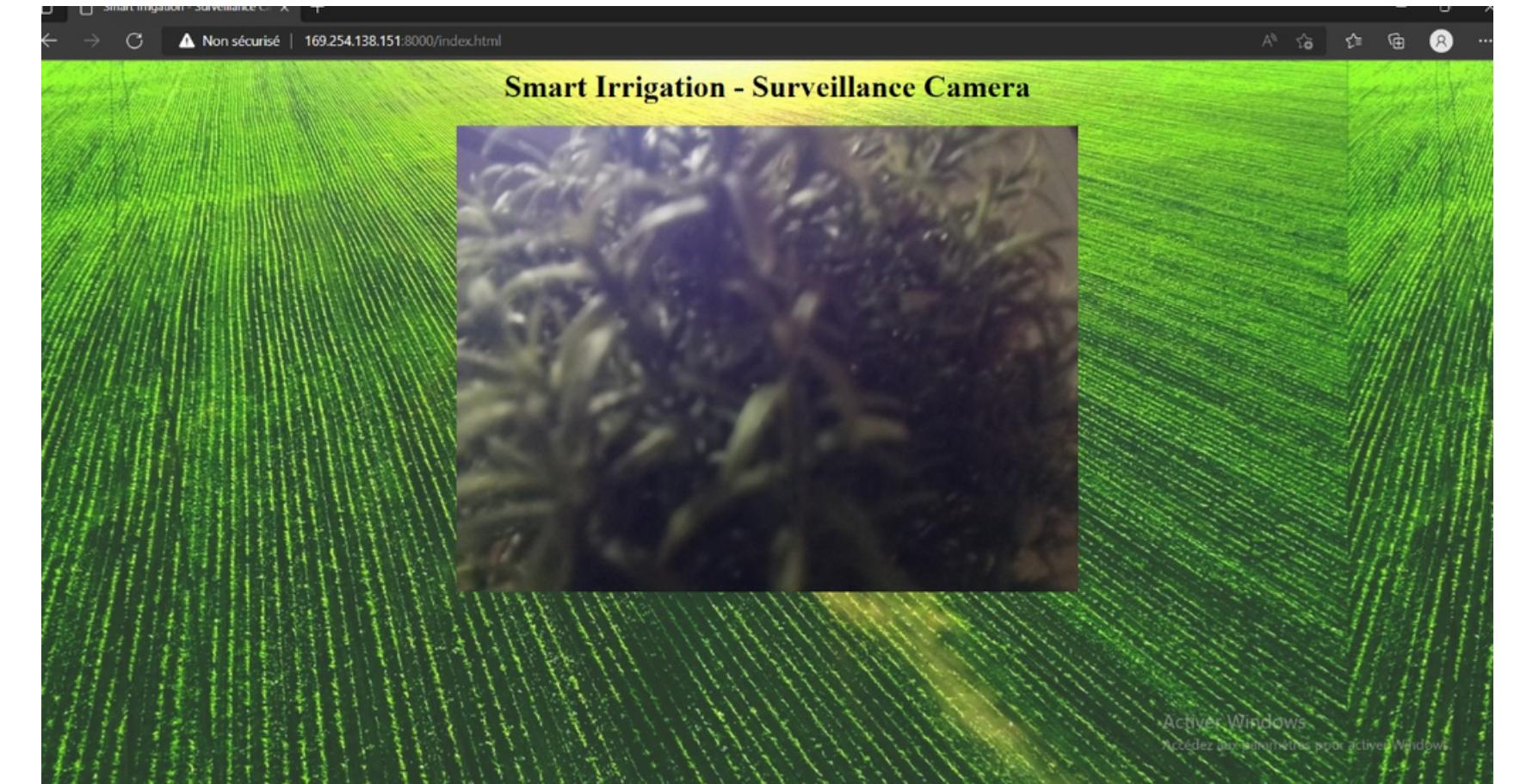
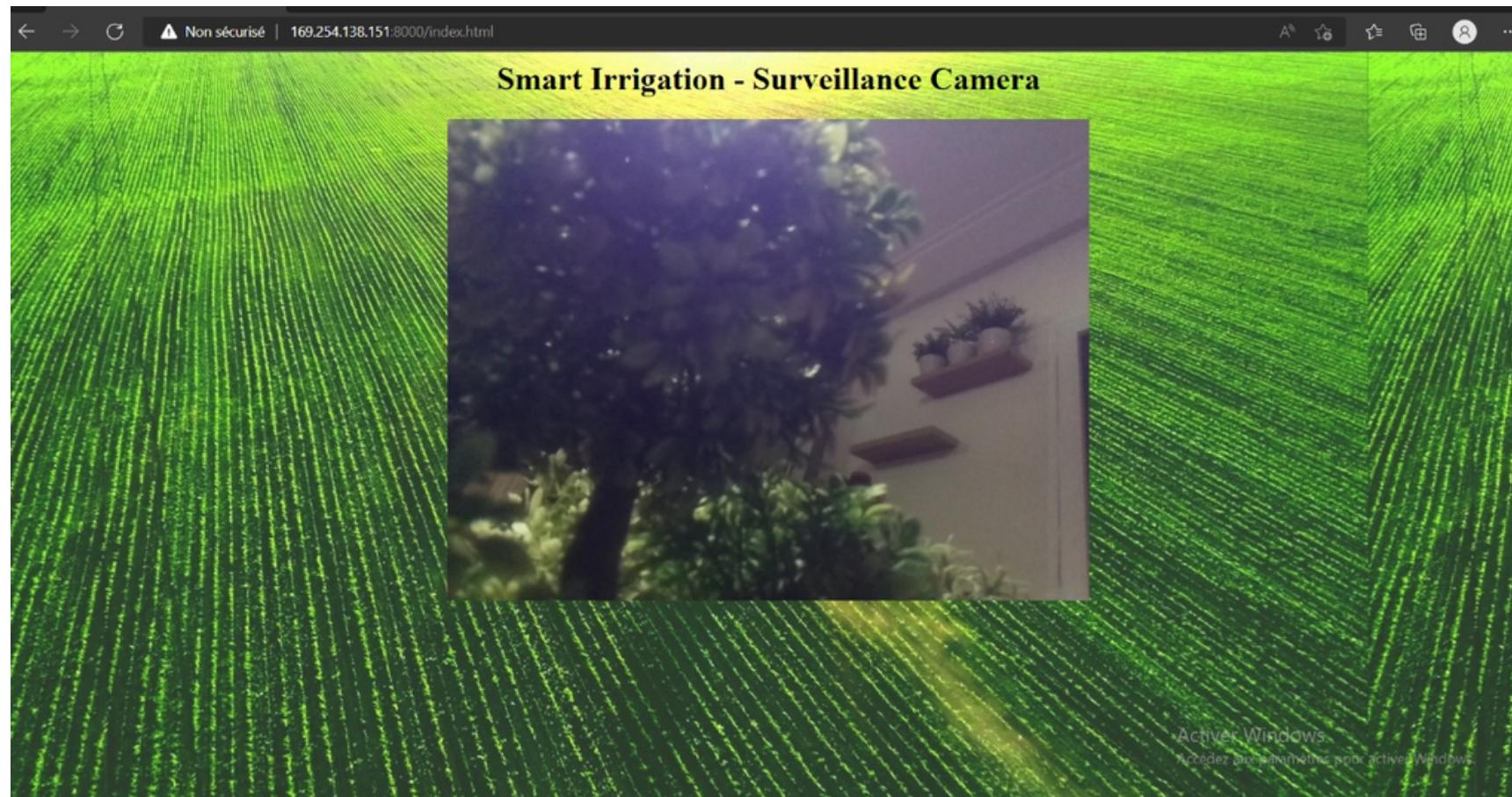




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About Nabat :

Machine Vision Cameras





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About Nabat :

Machine Vision Cameras :
Time Lapse





Login page

SMART IRRIGATION NABAT

Email :

Password :

Log in

Agricultural Product

Type of Plant :

Soil type :

Soil Maximum humidity :

Soil Minimum humidity :

Create New Product Remote Management

View Database Log out

Smart Irrigation Nabat

Remote Management

SMART IRRIGATION NABAT

View Temperature

View Air Humidity

View Soil Humidity

View Water Level

View All Data

Automatic Pump Control

Back to Add Product Log out

SMART IRRIGATION NABAT

Temperature

View Temperature Data

Back to remote management

SMART IRRIGATION NABAT

Air Humidity

Air Humidity Data

Back to remote management

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Soil Humidity

Soil Humidity Data

Back to remote management

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Water Level

Water Level Data

Back to remote management...



Thank you



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