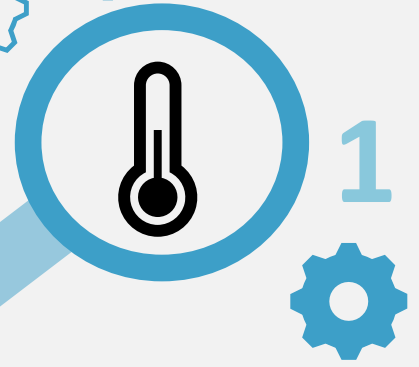




AGRI-TRACK

Seed to harvest has never been easier

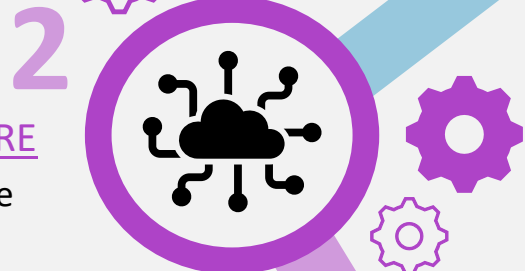


1

MEASURE ENVIRONMENT

The system can monitor the growing conditions from seed to harvest using environmental sensors:

- Soil temperature and humidity Sensors.
- Soil Moisture Sensors.
- Water ph. Sensors.
- Flowmeter Sensors.



2

CLOUD INFRASTRUCTURE

The data collected from the sensors is stored on an embedded cloud system, Amazon Web Services (AWS).

AWS provides the best offline functionality. Allowing end-users to be able to interact with the Agri-Track system during load-shedding and in places of limited network coverage.



3

DASHBOARD DISPLAY

The dashboard facilitates data analysis and trend identification through rich, compelling visualizations. Making it easy for end-users to gain swift insight into the environmental conditions.



4

DATA ANALYTICS

Data that is displayed on dashboard can be analysed by end-users in order to understand and control the environment based on the analysis. Data can be viewed over different time periods of:

- Live
- Weekly
- Monthly
- Half yearly
- Yearly.



5

ENVIRONMENT CONTROL

Users are able to manipulate the environment based on the data displayed on the dashboard through analysis. Manipulation will be done through actuators:

- On and off relay switches
- Pumps for water
- Lights
- Fans

