



The Autonomous Farm



50%

More Yield

50%

Water Saving

20%

Fertilizer Reduction

Greater Yield!

Lesser Cost!

Higher Income!

Made Possible through Artificial Intelligence and IoT

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Patented Technology By farm  again



Standard Features of GroTron®



Sense Soil, Water and Ambient properties 24X7

Automatically Operate Valves to Maintain Ideal **Air-Water Balance** at Rootzones based on the **Evapotranspiration Principle** using **Artificial Intelligence**



Automatically **Administer Precise Fertilization** when required as per the Crop, its Stages and Schedule

Automatically Operate Pumps when required



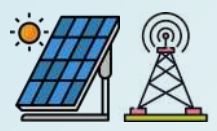
Automatic Backwash of Gravel, Disk & Hydrocyclone Filters when necessary and **Maintain Uniform Pressure** at all times

Automatically **Maintain Climatic Condition in Greenhouses** with Foggers, Fan/Pad, Air Circulation Fan, Curtains, Air Conditioner and Inject CO2 when needed



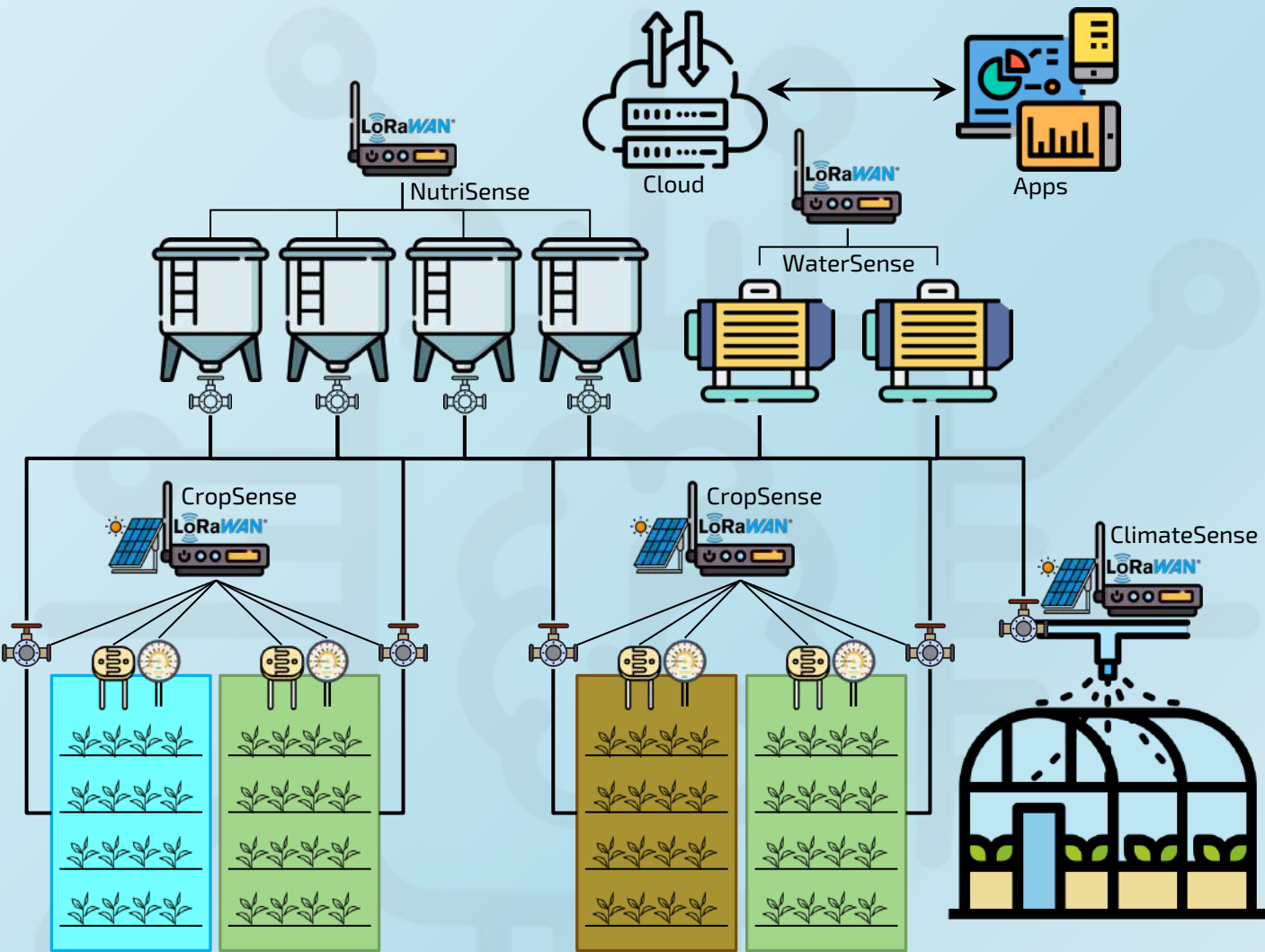
Automatically **Operate Generators** during power cuts, and turn off when backup power is not required anymore

Totally Solar Powered and Fully Wireless with our own Private LoraWAN® Network. **ZERO Wiring inside of Farms**



Automatically establishes **Farm-to-Fork Traceability** of every harvest from every farm with great insights

Typical GroTron® Farm Layout



Mobile & Desktop Applications for Realtime Interaction



- Multilingual Apps
- Irrigation Status
- Fertigation Status
- Hyperlocal Weather Information
- Fertigation Tanks Statuses
- Power Grid Quality Trend
- Generator Status
- Soil Moisture, Temperature Trend
- Ambient Humidity, Temperature Status and Trend
- EC & pH of Soil and Water
- Weather Alerts and Warnings
- Greenhouse Temperature, Humidity, CO2 Status and Trend
- Light Luminosity Status and Trend
- And much more

GroTron® has bagged numerous Awards

GroTron® has received many awards both in India and abroad; to quote a few,

- **Topmost Agriculture Leader 2022** by Agriculture Innovation Congress
- **Transformational Social Enterprise of the Year 2021** by TiE
- **Tamil Nadu Innovation Leadership Award 2020** by World Innovation Congress
- **Most Promising AgriTech Startup 2019** for best use of Artificial Intelligence and IoT in Agriculture by IoTNext
- **2nd Best Agri Startup Globally by Tamil Entrepreneurs**, by GTEN, Chicago, USA
- **Best Agri Social Enterprise Award 2019** by Action For India
- **Rural Empowerment and Social Interventions Award 2019** by Dept of Science and Technology
- **India's Best Agri Startup Award 2018** by Indian Chamber of Food and Agriculture



GroTron® Installations



farmagain

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