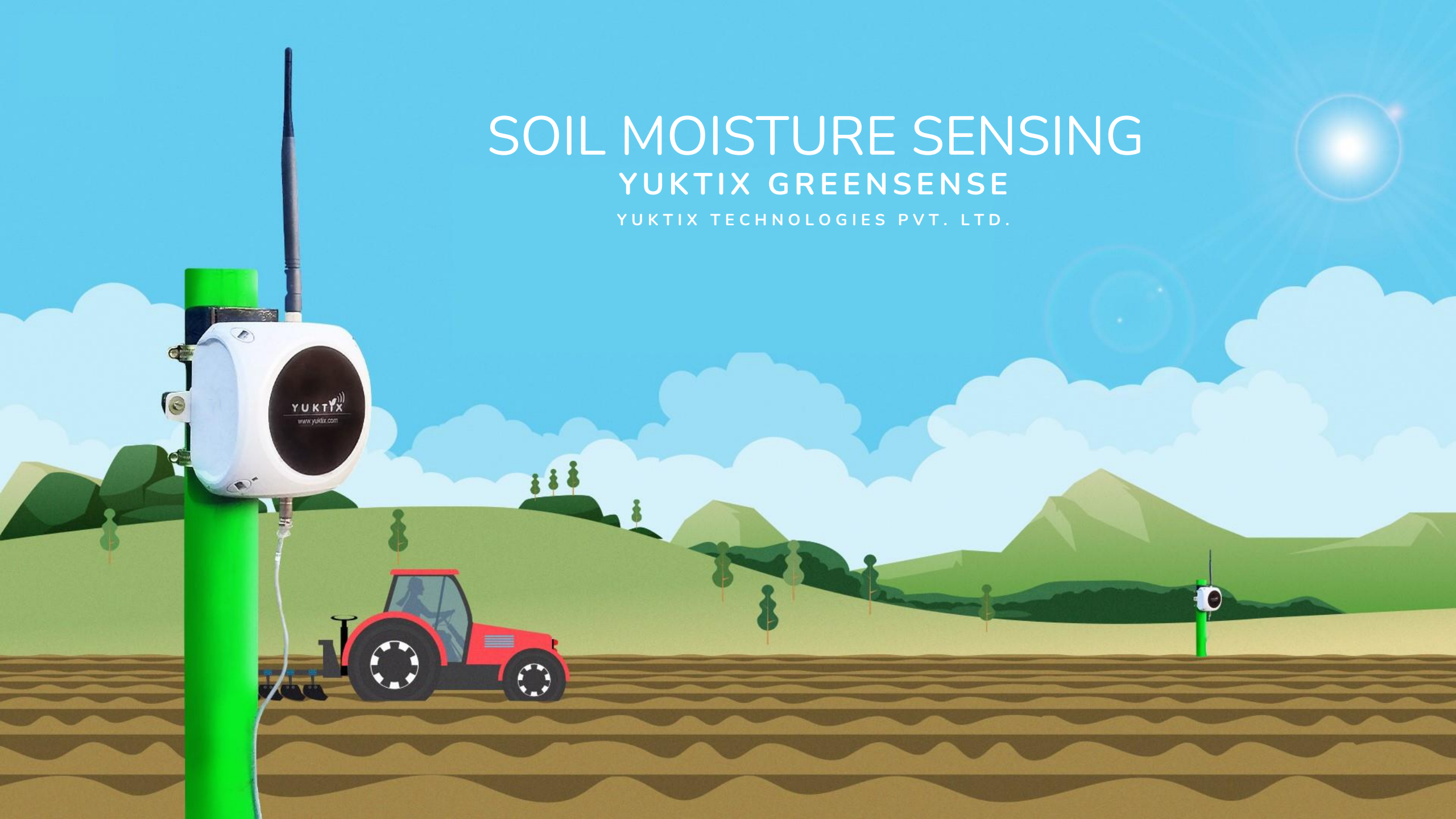
SOIL MOISTURE SENSING

YUKTIX GREENSENSE

YUKTIX TECHNOLOGIES PVT. LTD.



ABOUT YUKTIX

Yuktix is a DIPP (Department of Industrial promotion and Policy) recognized startup and a registered MSME working to create indigenous remote monitoring and sensor analytic solutions for agriculture.

OUR MISSION

WEATHER PREDICTION

DISEASE PREDICTION

SAVE WATER IN IRRIGATION

INCREASE PRODUCTION

REDUCE LOSSES

ACHIEVEMENTS SO FAR

Yuktix was among the 11 startups which were selected by **BRINC Poland Prize** (Hardware & IoT) & Scale-Up (Industrial IoT) accelerator programs.

Yuktix is part of **second cohort of 14 Centre for Cellular and Molecular Platforms** (C-CAMP) Bio-startups under the Karnataka Bio-Startup Advancement Program (K-SAP BIO 50).

Yuktix was part of a **top 10 IoT startups delegation participating in CEATEC 2016**, the largest exhibition and trade fair for advanced electronics and IT in Japan. The trip was organized by METI (Ministry of Economy, Trade and Industry in Japan).

Yuktix was **runner up of India-Israel Innovation Bridge 2018** under the Agriculture Challenge 1: Solution for reducing post harvest loss and improving market linkage.

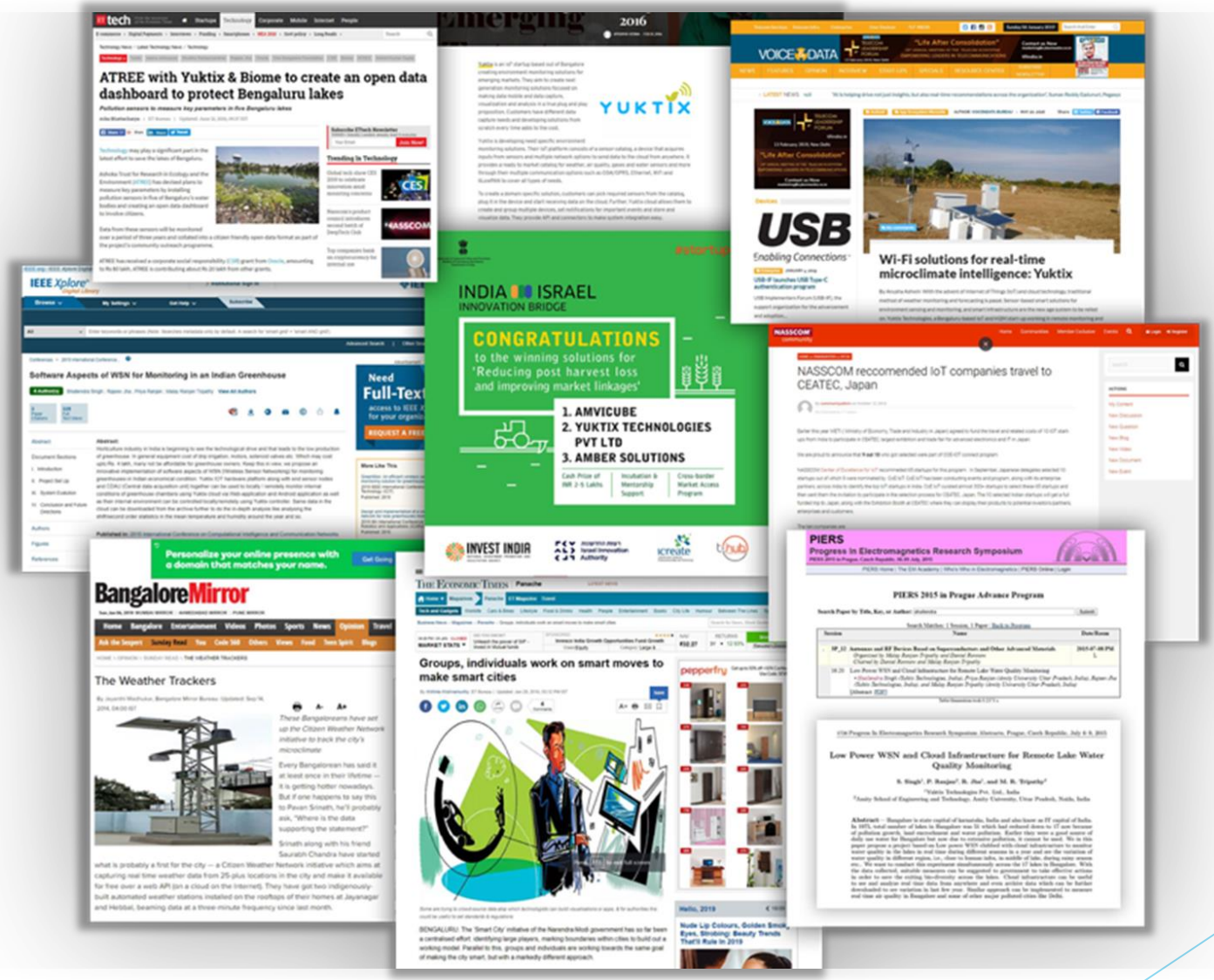
The Idea2PoC is a scheme of Dept. of IT, BT and S&T, Govt. of Karnataka. Yuktix **received a grant for developing wireless sensor network for agriculture monitoring** idea into a viable PoC (proof of concept)

Yuktix was **selected as one of the top 50 start-ups by NASSCOM under Emerge 50 2015** for Agriculture disease prediction system using IoT devices.

Yuktix **was part of the first cohort of Marico Innovation foundation** first agriculture focused program - #Innovate2Cultivate. Via the program, start-ups got access to farmers and their farms, business and investment opportunities.

Yuktix was **runner up of India-Israel Innovation Bridge 2018** under the Agriculture Challenge 1: Solution for reducing post harvest loss and improving market linkage.

MEDIA HIGHLIGHTS



WHAT WE DO?

We are creating sensors based Agri-intelligence systems to assist growers in increasing productivity and reducing resources to create a sustainable and food secure world.

- Creating Next Generation infrastructure to collect and analyse data from agriculture based sensors.
- Make Ubiquitous computing using sensors easy.
- IoT & Cloud based solutions.
- Low power hardware with provide modern networking and smart sensing.

GreenSense Digital Assistant for farm Productivity and Risk Management.

- Next Generation Sensor platform – Proprietary IOT Hardware (ankiDB™ micro) & Software (ankiDB™ cloud).
- Devices and Sensors provide crop specific AI generating insights to reduce agriculture risks such as disease forecasting, watering forecasting, fertilizer requirement forecasting, plant water stress.


YUKTIX GREENSENSE
SOIL MOISTURE SENSING

FEATURES

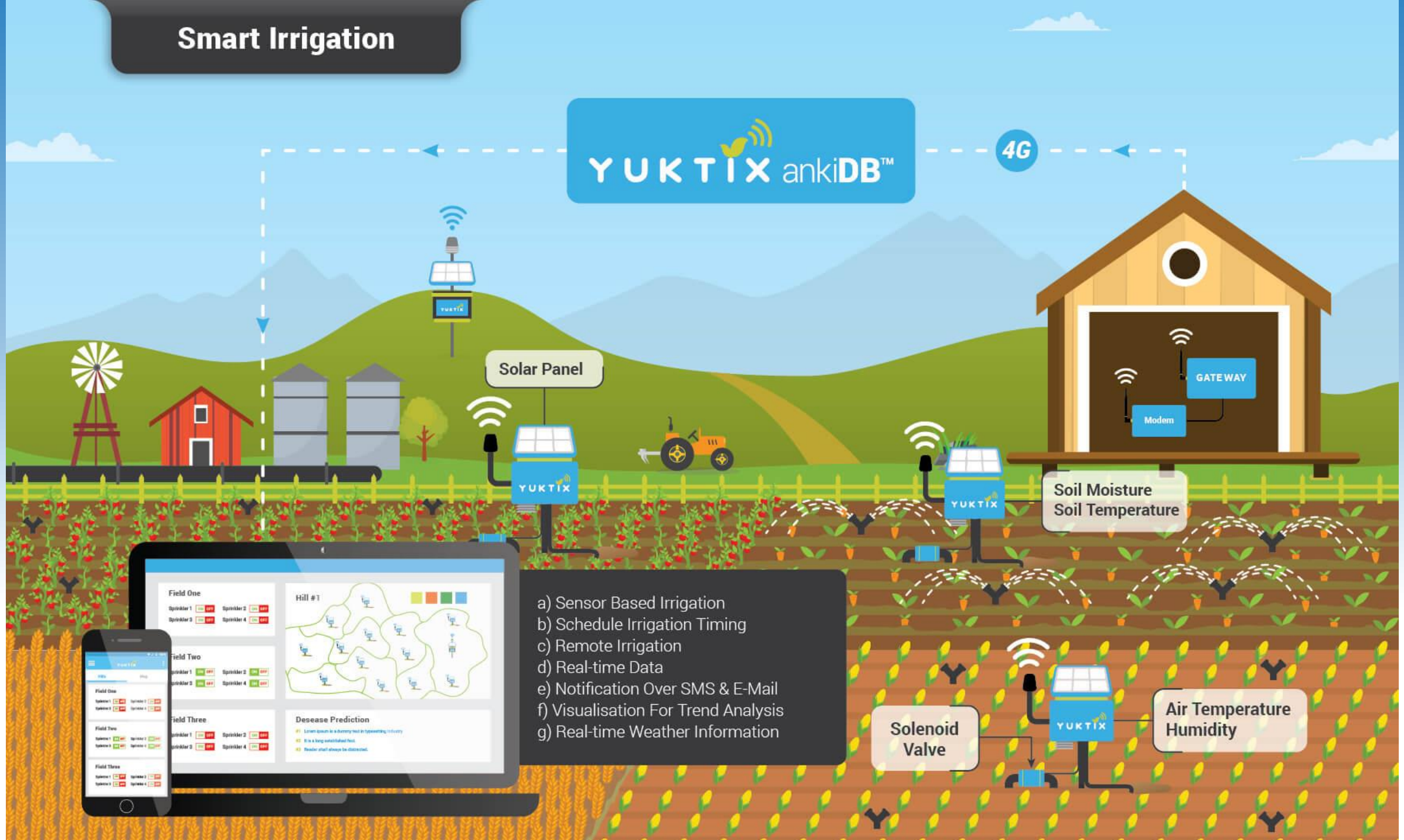
- Solar powered wireless device with battery back-up.
- Easy to install, maintain and operate.
- Sensor – Soil Volumetric Water content sensor (Resolution: 0.001 m^3/m^3), Air temperature and humidity
- Sensor (Temperature, Humidity, Soil Moisture Sensor)
- Irrigation advisory and planning.
- GreenSense – Wireless sensor network – deploy multiple GreenSense nodes with Yuktix solar powered wireless gateway.

SOIL VWC SPECIFICATIONS

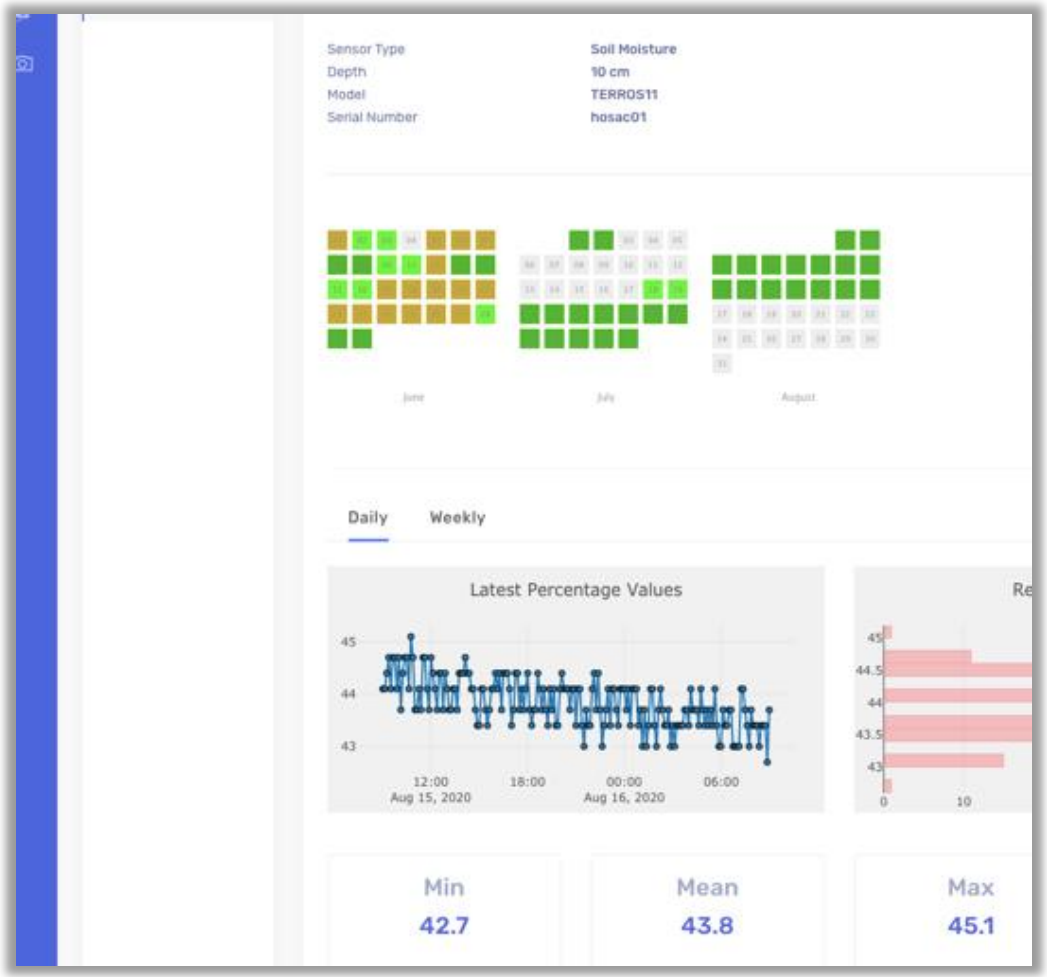
- **VWC Range:**
  Mineral soil calibration: 0.00–0.64 m^3/m^3
  Soilless media calibration: 0.0–0.7 m^3/m^3
  Apparent dielectric permittivity (ε_a): 1 (air) to 80 (water)
- **Resolution:**
  0.001 m^3/m^3
- **Accuracy:**
  Mineral soil calibration: ±0.03 m^3/m^3 typical in mineral soils that have solution EC <8 dS/m

  Medium specific calibration: ±0.01–0.02 m^3/m^3 in any porous medium
  Apparent dielectric permittivity (ε_a): 1–40 (soil range) , ±1 ε_a (unitless)
  40–80, 15% of measurement

Smart Irrigation



IRRIGATION ADVISORY



YUKTIX ankiDB™ cloud

MW

Sensor variation between devices

Reset

Selectd Serials

gvaws04 gvaws03 gvaws02

Start Date

2020-10-04

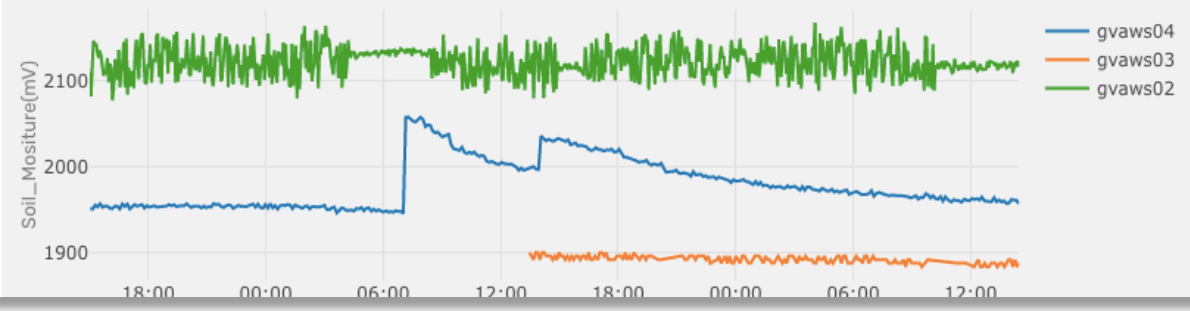
End Date

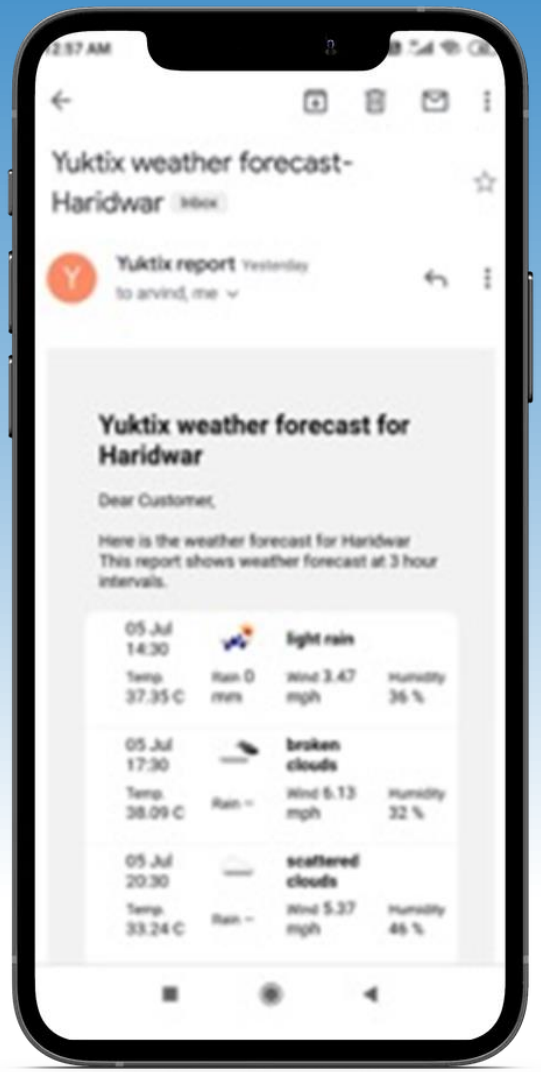
2020-10-06

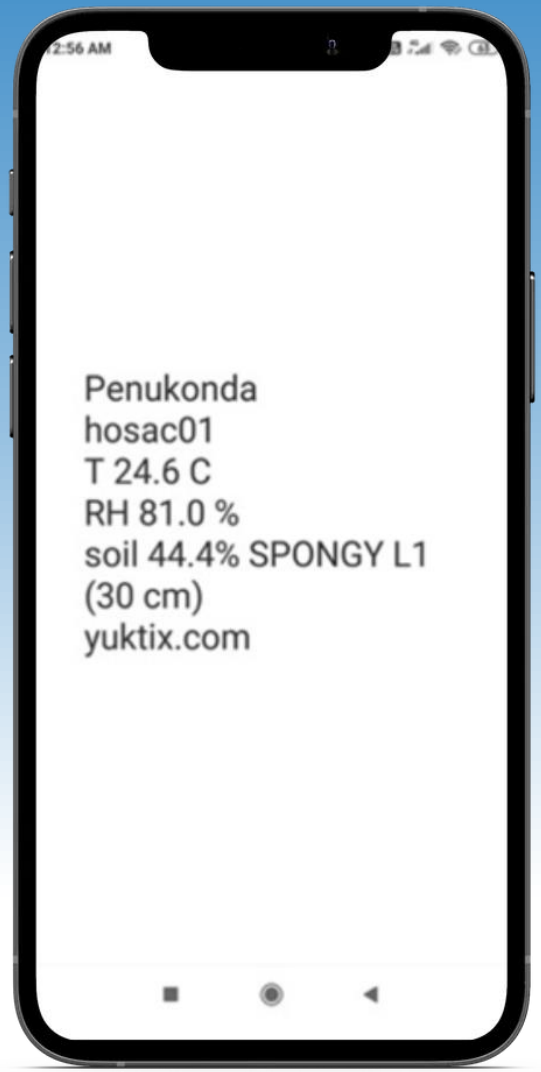
Next

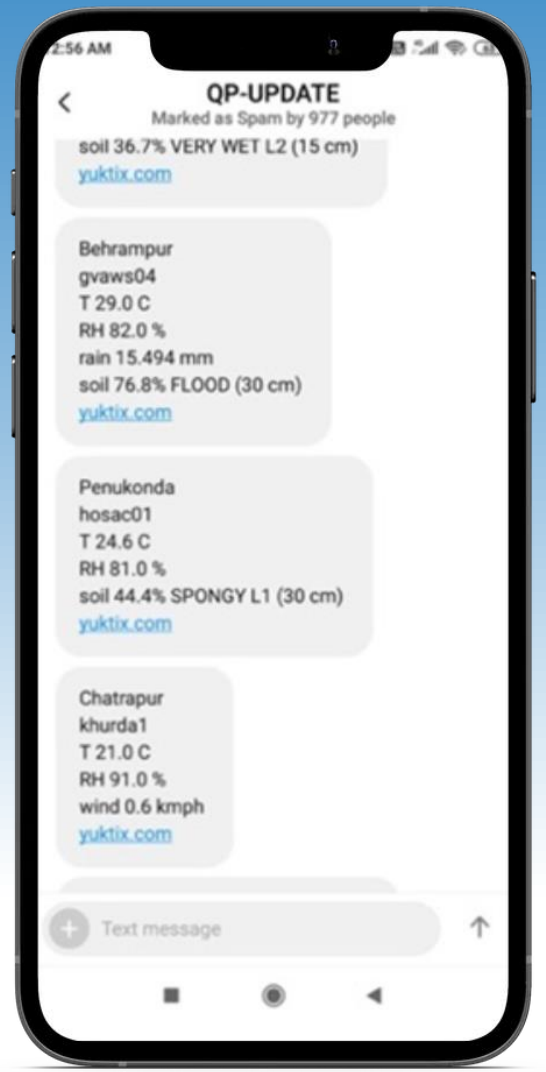
Select Channel

Soil_Mositure




Yuktix weather forecast-Haridwar
Inbox
Yuktix report Yesterday
to arvind, me
Yuktix weather forecast for Haridwar
Dear Customer,
Here is the weather forecast for Haridwar
This report shows weather forecast at 3 hour intervals.
05 Jul 14:30
light rain
Temp 37.35 C
Rain 0 mm
Wind 3.47 mph
Humidity 36 %
05 Jul 17:30
broken clouds
Temp 38.09 C
Rain -
Wind 6.13 mph
Humidity 32 %
05 Jul 20:30
scattered clouds
Temp 33.24 C
Rain -
Wind 5.37 mph
Humidity 46 %


Penukonda
hosac01
T 24.6 C
RH 81.0 %
soil 44.4% SPONGY L1 (30 cm)
yuktix.com


QP-UPDATE
Marked as Spam by 977 people
soil 36.7% VERY WET L2 (15 cm)
yuktix.com
Behrampur
gvaws04
T 29.0 C
RH 82.0 %
rain 15.494 mm
soil 76.8% FLOOD (30 cm)
yuktix.com
Penukonda
hosac01
T 24.6 C
RH 81.0 %
soil 44.4% SPONGY L1 (30 cm)
yuktix.com
Chatrapur
khurda1
T 21.0 C
RH 91.0 %
wind 0.6 kmph
yuktix.com
Text message

OUR TEAM

Rajeev Jha

Founder
IIT Kanpur, IIM Bangalore

19+ experience in software domain Ex-Oracle, Citrix, AOL and couple of other startups

Shailendra Singh

Co- Founder
UPTU

8+ experience in embedded domain Previously worked in Thinvent, Silverline design

Dr. BNS Murthy

Advisor

National Horticulture Mission of India Principle Scientist at Indian council of Agriculture research

Dr. Sridhar

Advisor

Indian council of Agriculture research, Bangalore.

Girish Kshrisagar

Advisor

Ex-Bayer. Agriculture Industry Expert with 30+ years of experience.

CONTACT US

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