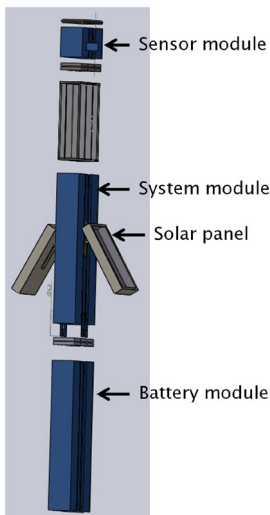


# GrIDSense: Groundwater, Irrigation and Disease Sensing System

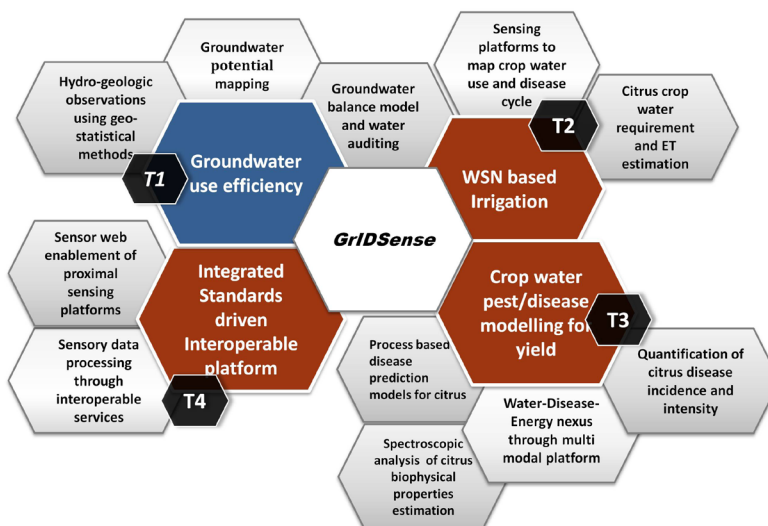


This is an integrated and interoperable service platform or system for remote monitoring and decision support in precision horticulture.

The project is a multi-institutional and multi-disciplinary collaborative initiative, lead by IITB, supported by the Information Technology Research Academy (ITRA) of Ministry of Electronics and Information Technology. The project has unique approach with research, curriculum, outreach and social impact matrices.

Research and engineering interventions include:

- Enabling smart farms through ready-to-use regional groundwater resource potential maps to facilitate efficient management of its water resources
- Prescriptions for overcoming major soil borne and water loving phytophthora-induced diseases like root rot and gummosis for improving orange crop yield
- New sensing and analysis infrastructure to provide real time informatics on agriculture water, disease / pest management aspects
- Agro-advisory through crowd-sourcing platforms
- An easy to use interoperable open-source framework to develop and replicate ICT-driven citrus farms



**GrIDSense Overview**