



PLATFORM FOR SUSTAINABLE
WATER RESOURCES MANAGEMENT
aquaWISE™

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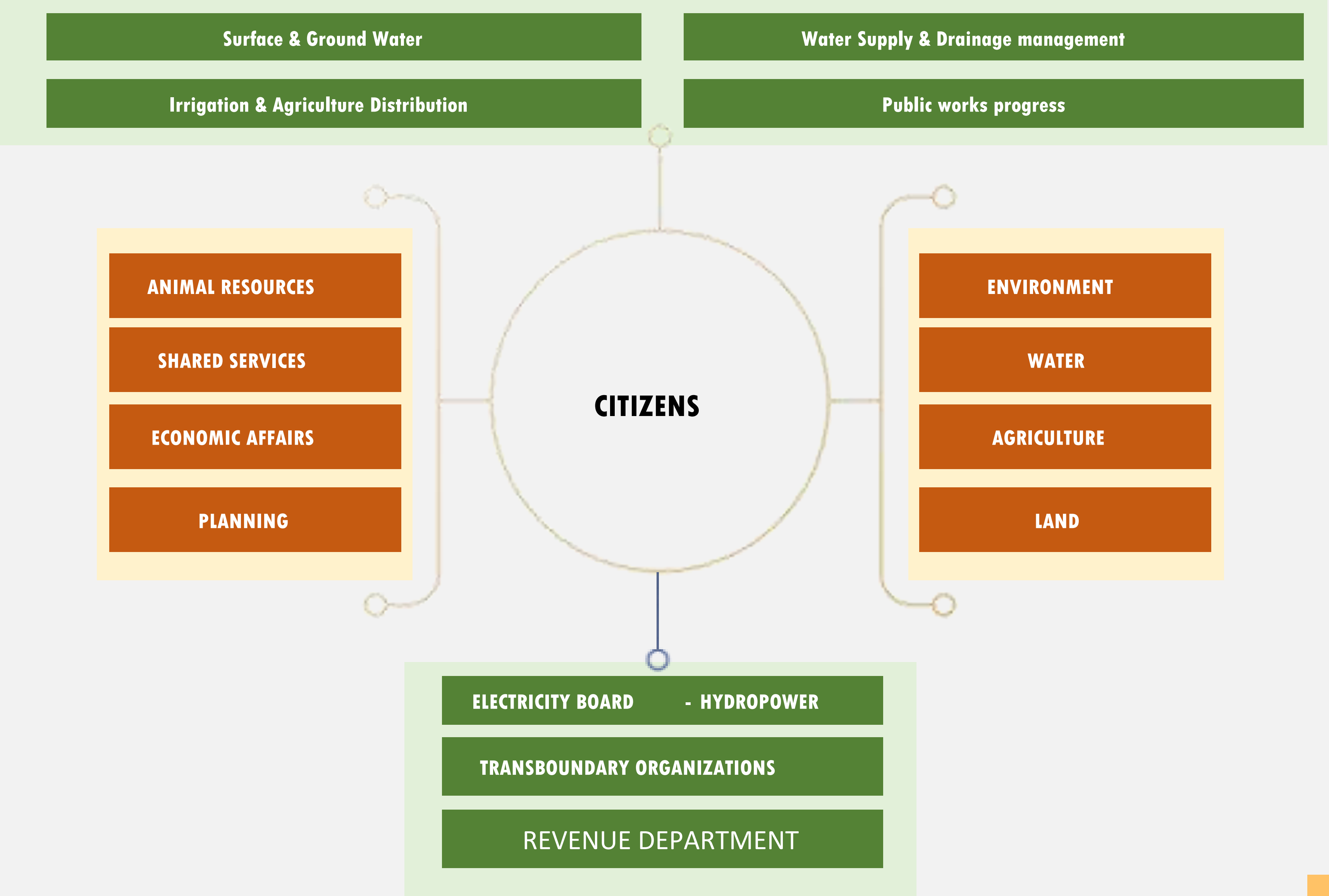


Vassar Labs, is a Technology company **building products** and solution for global problem of **Climate Change** impact on vulnerable sectors like Water, Cities, and Agriculture, by making use of latest technologies like **IoT, AI/ML, GIS, Cloud computing, Remote Sensing, Big Data** etc

A serene rural landscape at dawn or dusk. A winding canal flows through a lush green field. In the distance, a farm with several buildings and a line of trees are visible under a soft, hazy sky. Several cows are grazing in the field. The overall atmosphere is peaceful and quiet.

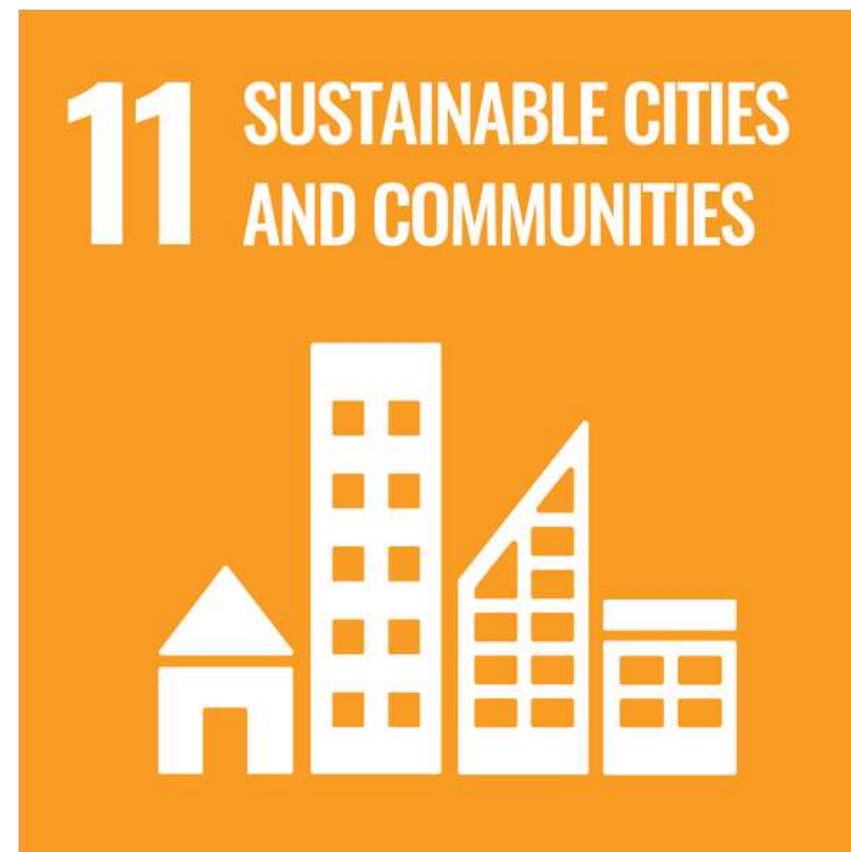
"Water is everybody's business"

DIFFERENT STAKEHOLDERS – DIFFERENT PRESPECTIVES



TOWARDS SUSTAINABILITY – aquaWISE™

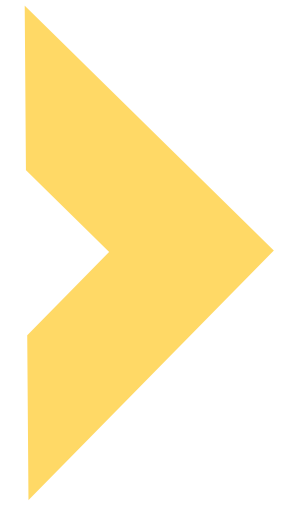
Managing nexus of water



aquaWISE™ PLATFORM

DATA COLLECTION

- Field Sensors
- Satellite & GIS
- Drone Surveys
- Predictive Models
- Experimental Data
- API Integrations
- Mobile App Survey
- Existing Databases
- PLC & SCADA Integration



INDEX

- Reservoirs
- MI Tanks
- Ground Water
- Soil & Moisture
- Rainfall
- Rivers & Canal
- Forecast
- Losses
- Crop Planning
- Industrial
- Residential
- Soil Type
- Forests
- Wetlands
- Sewage
- Flora & Fauna
- Pollution
- Distribution

NEAR REAL-TIME DIGITAL TWIN

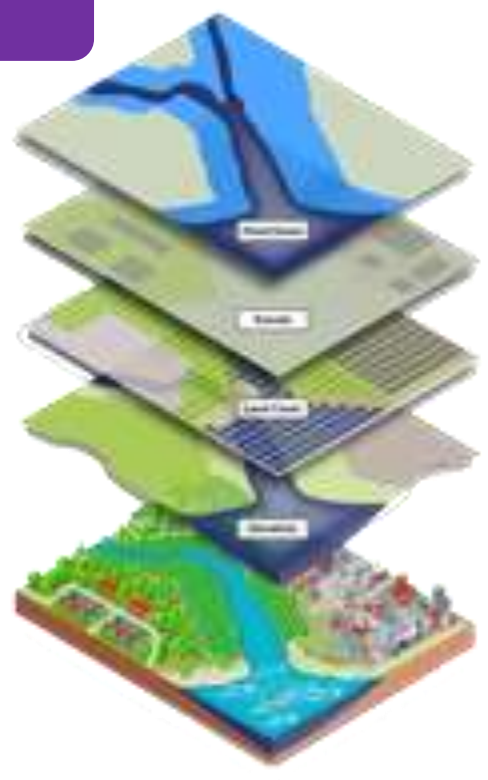
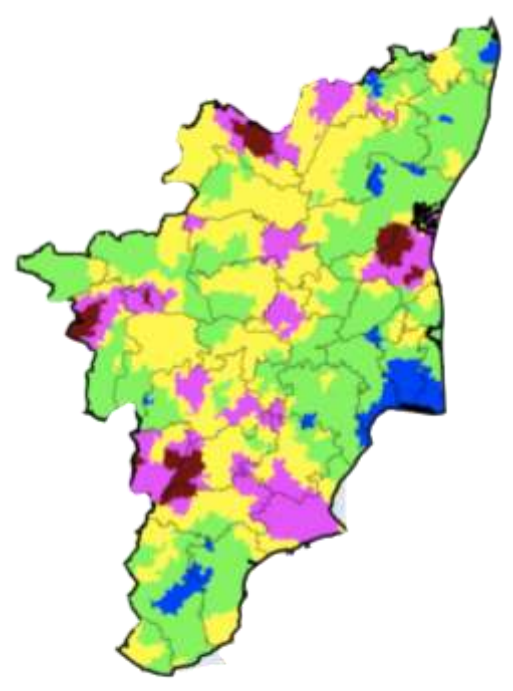
CENTRAL COMMAND & CONTROL CENTER

ASSET MONITORING WITH PREVENTIVE AND PREDICTIVE MAINTAINANCE

AI MODELS

- WATER BUDGET & AUDIT
- WATER CONSERVATION MGMT
- GROUNDWATER MANAGEMENT
- RESERVOIRS & CANALS
- WATER DISTRIBUTION
- MI TANK MONITORING
- INTERBASIN TRANSFER

- AGRO-CLIMATIC ZONES
- AGRI ADVISORIES
- HYDROPOWER
- FLOOD & DROUGHT
- CASCADE OF MI TANKS
- LIFT SCHEME OPTIMIZATION
- WATER USE EFFICIENCY

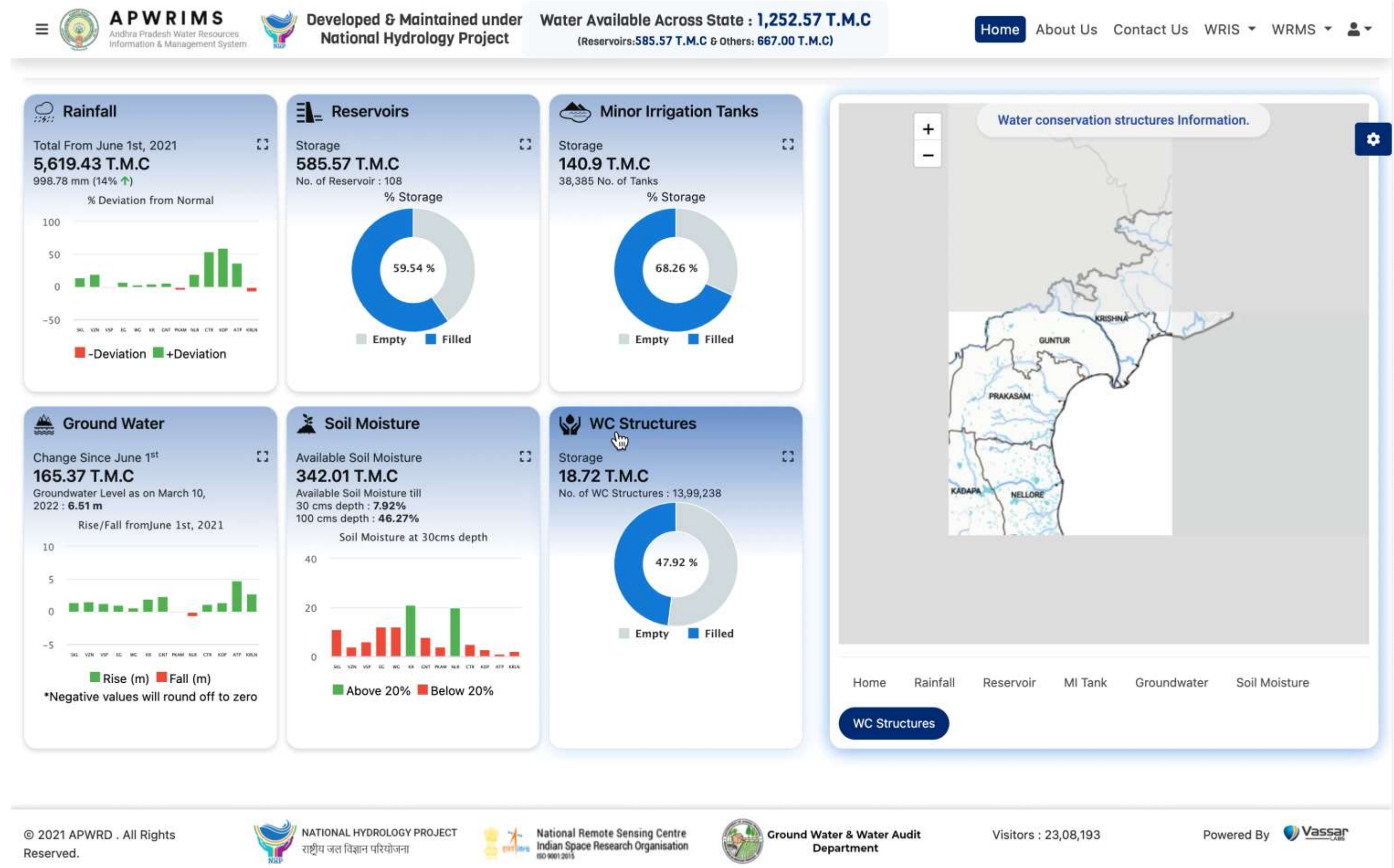


Water ERP Geoportal

aquaWISE FOR STATE WRIMS

Near realtime visibility of entire water resource in the state of Andhra Pradesh enabling

- Remote management of water resources
- Empowering farmers to make water smart decisions
- Forecasting inflows for flood warnings

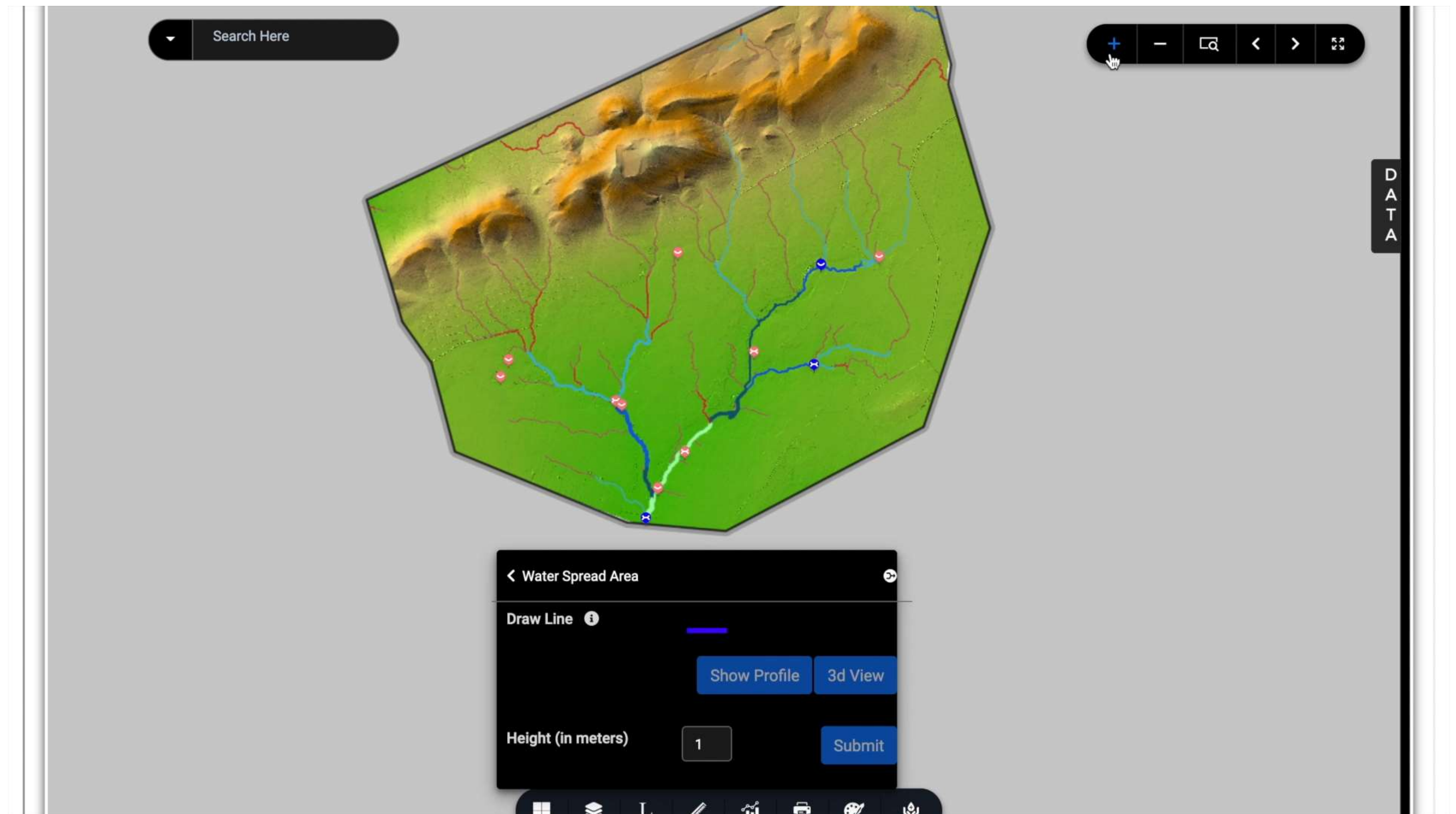




aquaWISE FOR VILLAGE WRIMS

Provides recommended and optional list of water conservation structures to validate through mobile app

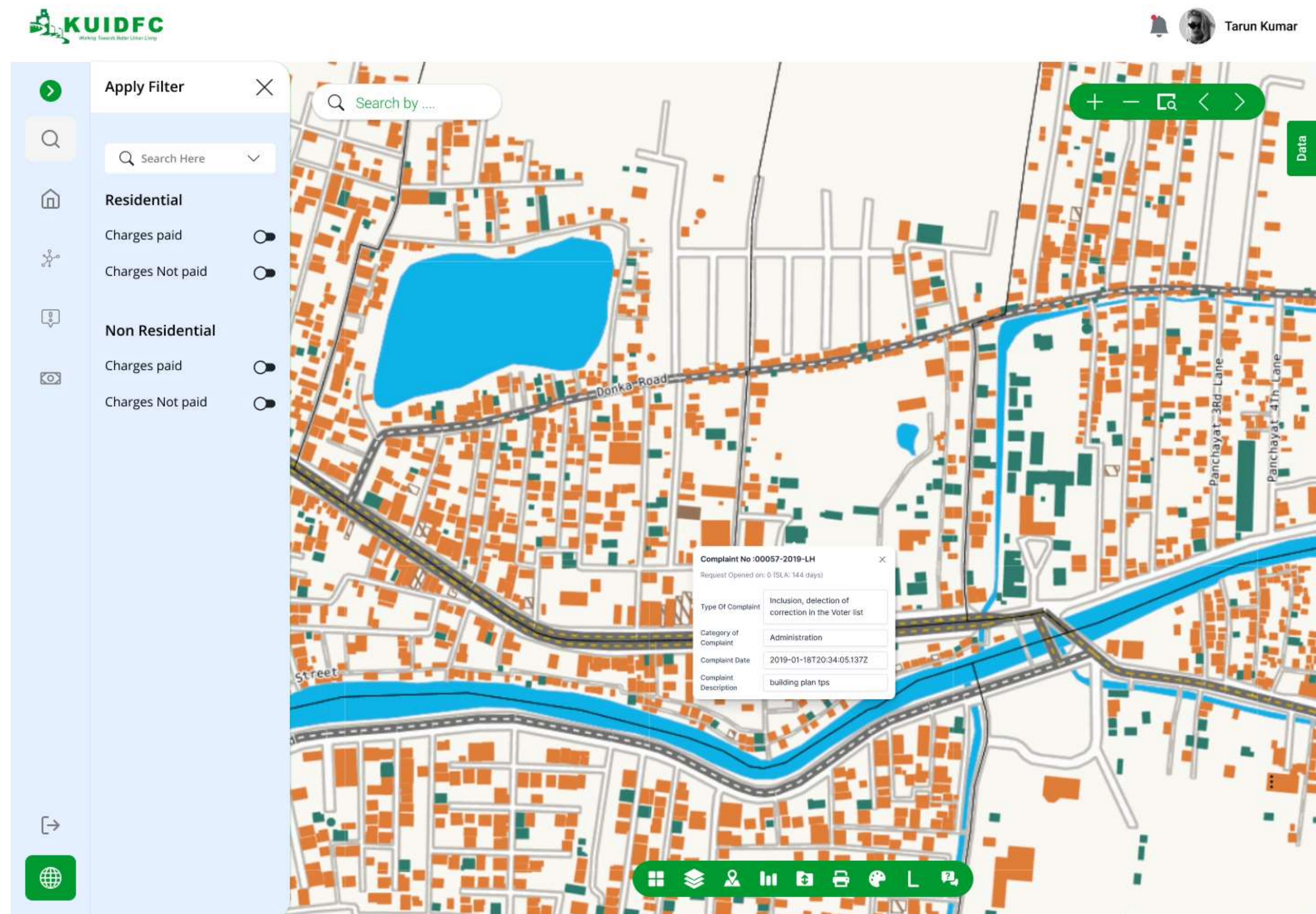
- Using remote sensing and geo-intelligent mobile data
- Hydrological assessment in no time without subject matter expertise
- Making villages water independent



aquaWISE FOR CITY WRIMS

Using geospatial intelligence along with IoT and remote sensing for

- Uninterrupted water supply
- Minimize losses
- Manage Non revenue water
- Optimize energy utilization
- Improve efficiency of distribution network
- Improve water bills collection
- Improve quality of life

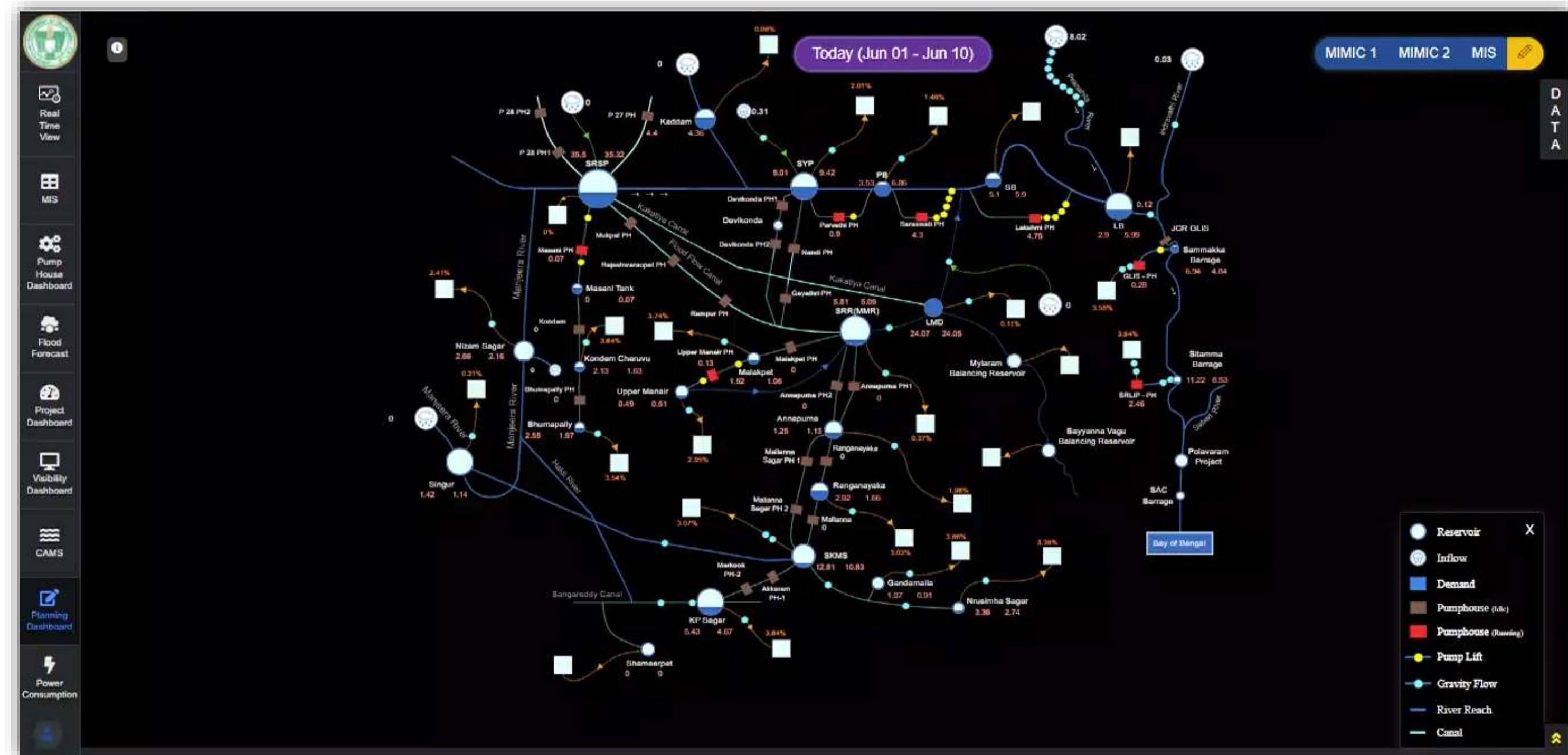




aquaWISE FOR IRRIGATION & LIFT SCHEMES

Decision support system for world's biggest lift scheming lifting 240 TMC water annually

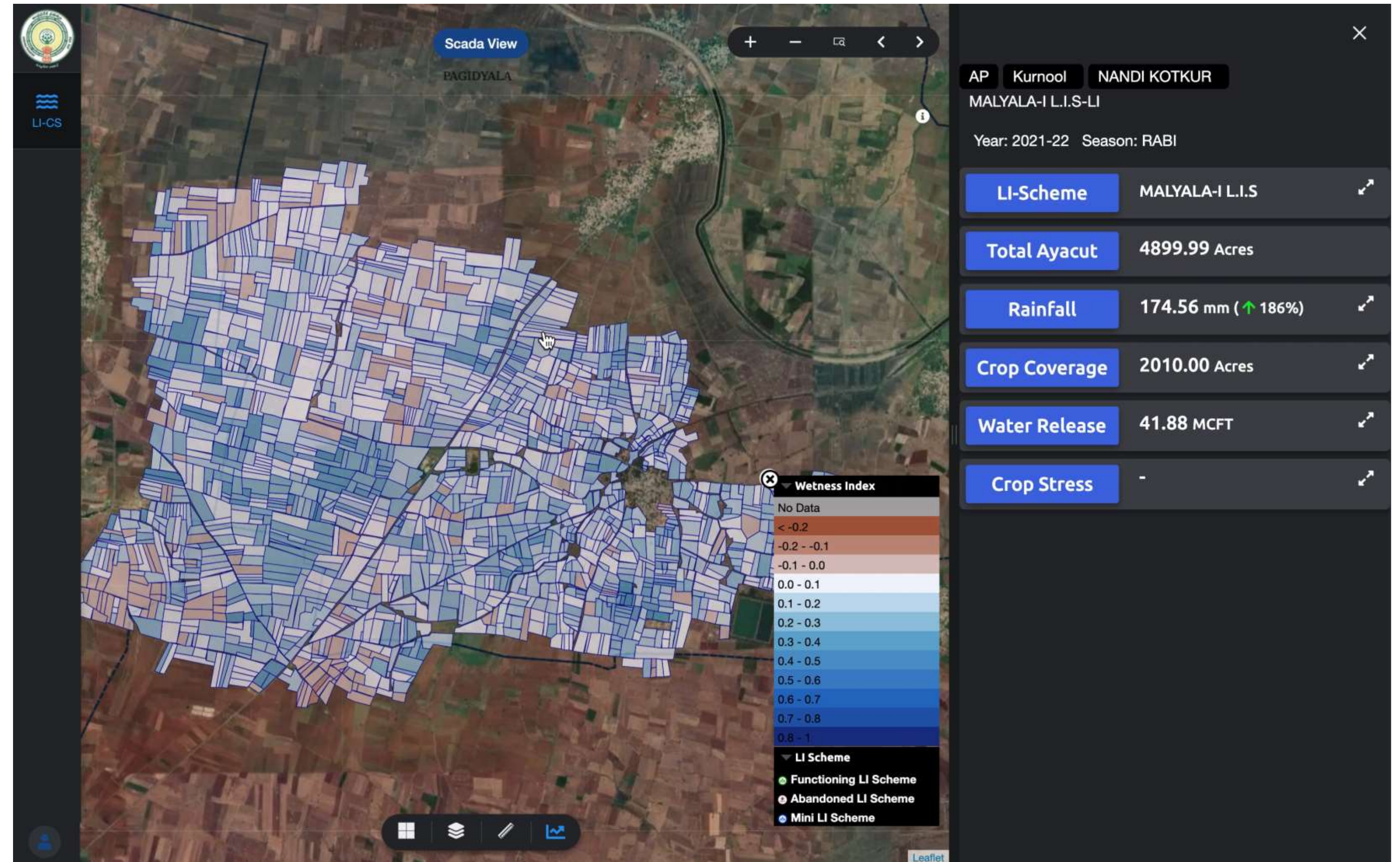
- Near real time supply & demand visibility
- Remote sensing bases crop area and crop water demand assessment
- Planning lift/pump operations
- What if Scenario simulations





aquaWISE FOR FARM LEVEL ANALYTICS

Assessing irrigation performance in near real-time using wetness index derived from satellite data

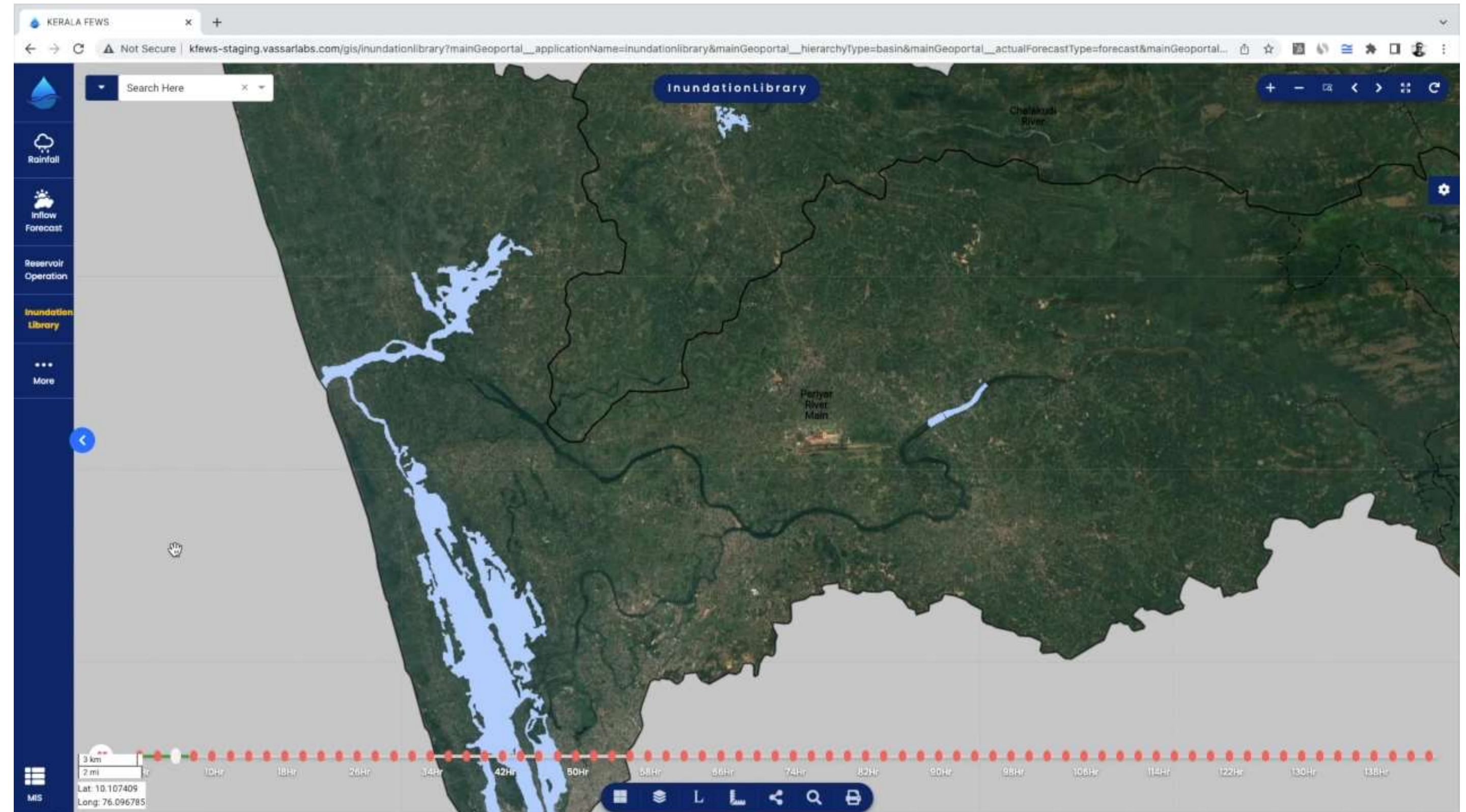




aquaWISE FOR ASSESSING FLOOD RISKS

WEB BASED FLOOD RISK ASSESMENT

The web GIS platform will allow users to navigate areas of interest and assess flood risks with respect to return periods, rainfall data or inundation heights. In addition, detailed loss prevention recommendations. This happens using high resolution satellite data with AI.



—• COMPLETED •—

THANKS FOR WATCHING

Additional Slides ahead for our Projects



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