Vassar LABS

CORPORATE PROFILE

INFO@VASSARLABS.COM

Who
W E   A R E

**HERE ARE SOME OF OUR
PROJECTS WHICH MADE
US STAND APART.**

APWRIMS

ANDHRA PRADESH WATER RESOURCES IN-
FORMATION & MANAGEMENT

One authoritative system for all water
supply, demand and environmental factors,
with a vision of making water related data
accessible transparently in real-time basis
to different stakeholder.

EMPOWERING AUTHORITIES

INTRODUCTION

_____Vassar Labs IT Solutions Pvt. Ltd., is an IoT,
Machine Learning and AI based based solutions
provider enaabling authorities for last mile visibili-
ty and decision support.

Vassar Labs IT Solutions Private Limited is a
technology company focusing on delivering solutions
into Primary sectors like Water, Watershed, Agriculture,
Disaster Management and Smart Cities by using
emerging technologies like Remote Sensing, IoT, GIS,
Crowdsourcing, Big Data, Artificial Intelligence, Machine
Learning etc. We provide real-time visibility into last-mile
processes & actionable insights through Decision Support
systems.

With fragmented IT systems, we do not have full visibility
to the data that drives real-time decisions. Operational
inefficiencies make it difficult to align processes or
collaborate effectively. The real value lies in the improved
integration and collaboration across authorities, enabling
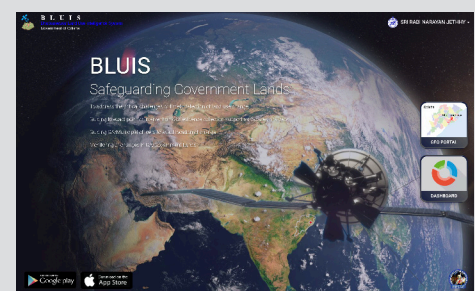the sharing of information and coordination of daily
activities and processes.

BLUIS

BHUBANESWAR LAND USE INTELLIGENCE
SYSTEM

Land Use Intelligence System leverages
AI and ML in combination with high
resolution satellite imagery for periodical
assessment of land use changes.

CBIP Award 2020 for "Best
Consultancy Organisation in
Water Resources Sector".

Won 2 First, and 1 second
prize for APWRIMS at National
Water Mission Award 2019

Won Artificial Intelligence
Innovation Challenge 2019, by
Niti Aayog.

Selected by Google Launchpad
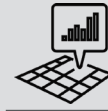Accelerator Program for
country(India).

IOT/REMOTE SENSING/DRONE

Visualize, analyze, and interpret geospatial data to understand relationships, patterns, and trends in relation to other data
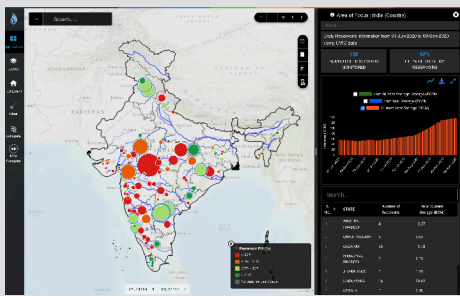

ARTIFICIAL INTELLIGENCE

Custom AI/ML models for various use cases with over 80% accuracy to ensure least manual interventions in data operations
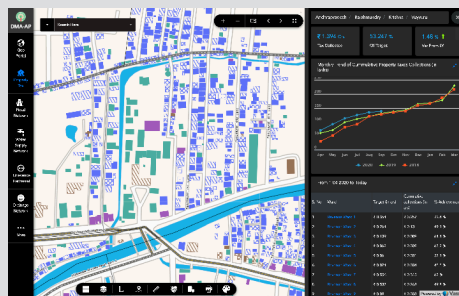

GEOSPATIAL INFORMATICS

Harnessing power of location with big data and analytics capabilities to ensure easy accessibility to information you wanted

INDIA WRIS
INDIA WATER RESOURCE INFORMATION SYSTEM

A repository of nation-wide water resources data, providing a 'Single Window' source of updated data on water resources & allied themes providing information to all stakeholders for its management and sustainable development.

SMART CITY
SMART CITY PROJECT FOR ANDHRA PRADESH

The Geoportal provides a unified solution for various applications such as Property Tax, Water Charges, Grievances, Blackspots, Road quality, building deviation etc.

KWRIS
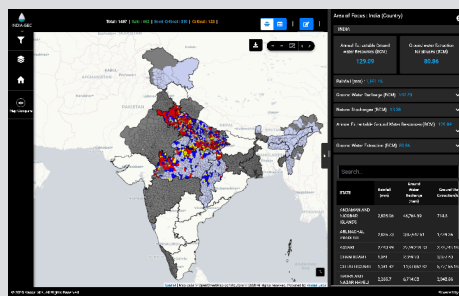#### KERALA WATER RESOURCE INFORMATION SYSTEM

One authoritative database for all water, agriculture and weather-related data providing the current and historical status of water and weather across the state to provide water security.

APAIMS
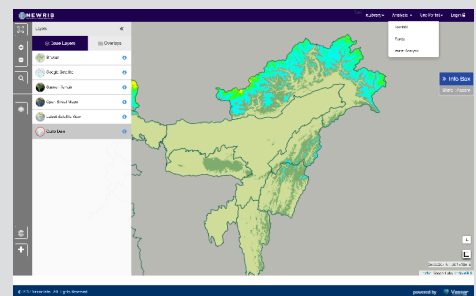#### ANDHRA PRADESH AGRICULTURE INFORMATION & MANAGEMENT

Comprehensive agriculture information and management system which eliminates silos and unifies the workflows and assist farmers for climate resilience agriculture.

INDIA GEC
GROUND WATER RESOURCE ESTIMATION FOR INDIA

Estimation of Ground Water Resources and provides a table report as well as GIS view to the end-user that helps to analyze the report and take necessary steps.

NEWRIB
NORTH EAST WATER RESOURCE INFORMATION BASE

To have information and knowledge base for water resources management in the Northeast for the study of strategic management and development opportunities.

LAST MILE VISIBILITY
OUR SOLUTIONS

We have vast experience in executing IT projects for states in primary sectors.

Our solutions are developed on four technological pillars which are:

GEOSPATIAL DSS

Power of location with our platform, ready to ingest LiDAR and remote sensing, mapping and photogrammetry data to build applications and decision support systems further clubbed with AI and Big Data.

AI & ML MODELLING

Machine learning, Deep learning, Computer vision, Cognitive and Neural network models for enhancing business operations. We ensure process automation and predictive power for your business.

BIG DATA SOLUTIONS

Help you collect, integrate, analyze and present your data in a precise and comprehensible way with a cloud-based solution that enables large scale data

collection, processing and storage of collected data.

UI/UX

A whole new approach to show data in appealing visual manner keeping user roles in mind by blending personalization, interactivity, designs and data to blend in an immersive way.

WATER RESOURCES

- REALTIME VISIBILITY
- WATER AUDIT & PLANNING
- RESERVOIR OPERATIONS
- CANAL MANAGEMENT

Ensuring water security by leveraging disruptive technologies.

Smart Water Management brings data from sensors, satellite, and models to provide visibility to all water assets and decision support to manage water better.

AGRICULTURE

- AGRO CLIMATIC ZONE PLANNING
- PRECISION FARMING ADVISORIES
- CROP HEALTH ASSESMENT
- CROP ACERAGE AND YIELD

Improving farmer's income and contributing towards food security.

An integrated crop management system from Vassar Labs that provides decision support and raises advisories to stakeholders during the entire lifecycle of the crop – from sowing to harvest.

WATERSHED

- VILLAGE WATER BUDGET
- HYDROLOGICAL ASSESMENT
- SOIL & WATER CONSERVATION
- VILLAGE MASTER PLAN

Ensuring hydrological balance by smart watershed planning.

AI model predicts potential locations for the water and soil structures to be built, based on weighted overlay method using GIS layers such as Slope, Geology, Geo-Morphology, Soil Texture and Land Use Land Cover (LULC).

DISASTER MANAGEMENT

- FLOW FORECAST
- CYCLONE MANAGEMENT
- HEAT WAVE
- DROUGHT DASHBOARD

Unified & Authoritative Disaster Management Database.

Automate and Integrate all available data sources, with use of artificial intelligence to provide an Unified Decision Support and Dashboard Modules for Planning, Operations and Assessments towards strategic disaster management.

SMART CITIES

- LAND USE INTELLIGENCE
- REVENUE ENHANCEMENT
- CITY HEALTH ASSESMENT
- PUBLIC GRIEVANCES

Smart cities management to ensure sustainable growth.

last level visibility on property taxes, water supply, charges, sewage line, green cover, waste management, roads management, building deviations and various other components. required for cities to operate smoothly.

ELIMINATING TIME CONSUMING MANUAL PROCESSES

ENGAGING ALL THE STAKEHOLDERS TO A COMMON PLATFORM FOR EASY ACCESSIBILITY AND QUICK ACTIONS.

OUR REWARD
CLIENT'S TESTIMONIAL'S

MR. PRAFULLA MALLICK (IFS), CE - ORSAC

Urban Land Use Intelligence System identifies the encroachments automatically and put the power in the hands of authorities to validate the changes and take the alerts to their logical conclusion. By use of Land Use Intelligence System, it will reduce monitoring and validation time to a great extent saving a lot of time and resources which will ultimately adds to state as financial benefit.

A. VARAPRASAD RAO, DIRECTOR(FAC), A.P.

APWRIMS (Andhra Pradesh Water Resource Information and Management System) shows visibility dashboards in both MIS & GIS views for Rainfall, Reservoir, Tanks, Ground Water, and Soil Moisture. APWRIMS is created for all the Stakeholders of Water & Agricultural space. These would include users at all levels such as Planners, Key decision makers, farmers & common public. This

FOUNDER'S PROFILE

MR. LAXMIPRASAD PUTTA
Founder

Prasad is a Batch topper from IIT Madras (Bachelors), with Post Graduation from MIT, Boston. During Late 90's he worked with Professor Sanjay Sarma towards shaping the RFID industry by putting several patents and standards. During 2000s, He successfully built OAT System a RFID Industry leader serving many fortune 500 companies, and Auripay a fintech security company, both of which got acquired by NYSE listed firms.

MR. NIKHILESH KUMAR
Co-Founder & CEO- Asia Pacific

He is an alumnus of IIT Kharagpur, and ISB Hyderabad. With his 12+ years of technology leadership experince, he aspires to empower authorities in water sector towards data driven and science based decision making with the help of the latest technologies like AI/ML, IoT, Big Data, Cloud, Remote Sensing.

FOUNDED
2014

EMPLOYEE COUNT
180 +

SOME OF OUR VALUABLE
CLIENTS WE WORK WITH

Niti Aayog
नीति आयोग
National Institution for Transforming India

सत्यमेव जयते
Ministry of Water Resources
Government of India

THE WORLD BANK

UNDP

NHP

NABCONS

GOVERNMENT OF ANDHRA PRADESH
सत्यमेव जयते

GOVERNMENT OF KERALA
सत्यमेव जयते

NCA नर्मदा नियंत्रण प्राधिकरण
NARMADA CONTROL AUTHORITY

NATIONAL WATER MISSION AWARD 2019

CBIP AWARD 2020

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