



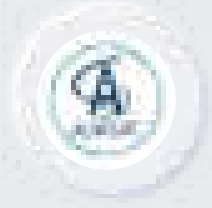
Aumsat Technologies LLP
The Internet of Groundwater



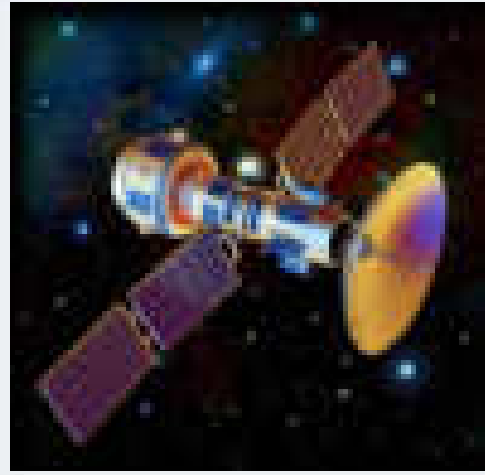


Water on Moon





1994



Clementine Satellite



Satellite Radar

Detected By

2009



Chandrayaan 1

Validated By



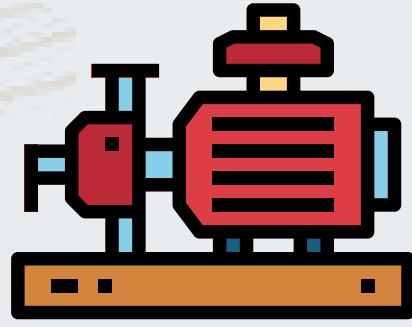
Groundwater Problems in India



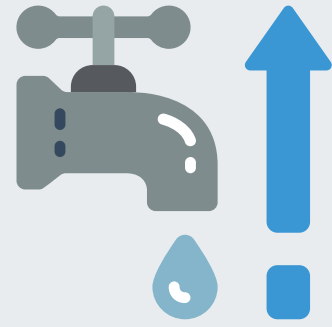
Shifting
Rainfall
Patterns



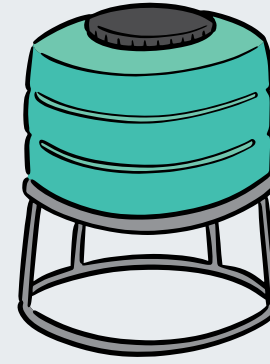
Electric
Subsidies



Frequent
Pumping



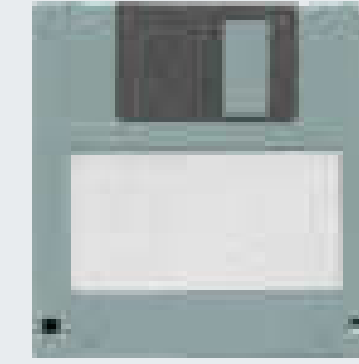
Increasing
Demand



Inadequate
Water
Storage



Water
Intensive
Crops



Obsolete
Surveying
Methods



Inadequate
Government
Regulations

Problems of Indian Farmers



Where to find groundwater?



How to improve quality of existing groundwater?



Business

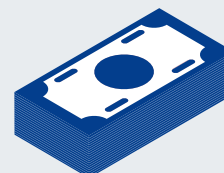


Groundwater Hydronalytics



Contract Farming
Companies

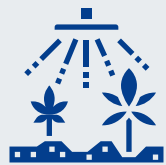
\$ 80/ Hectare



Market



Contract Farming Companies of Maharashtra



\$ 44 Million



Farmer Producer Organizations and NGO's involved in water Conservation activities across India.



\$ 146 Million



Global Groundwater Monitoring Market



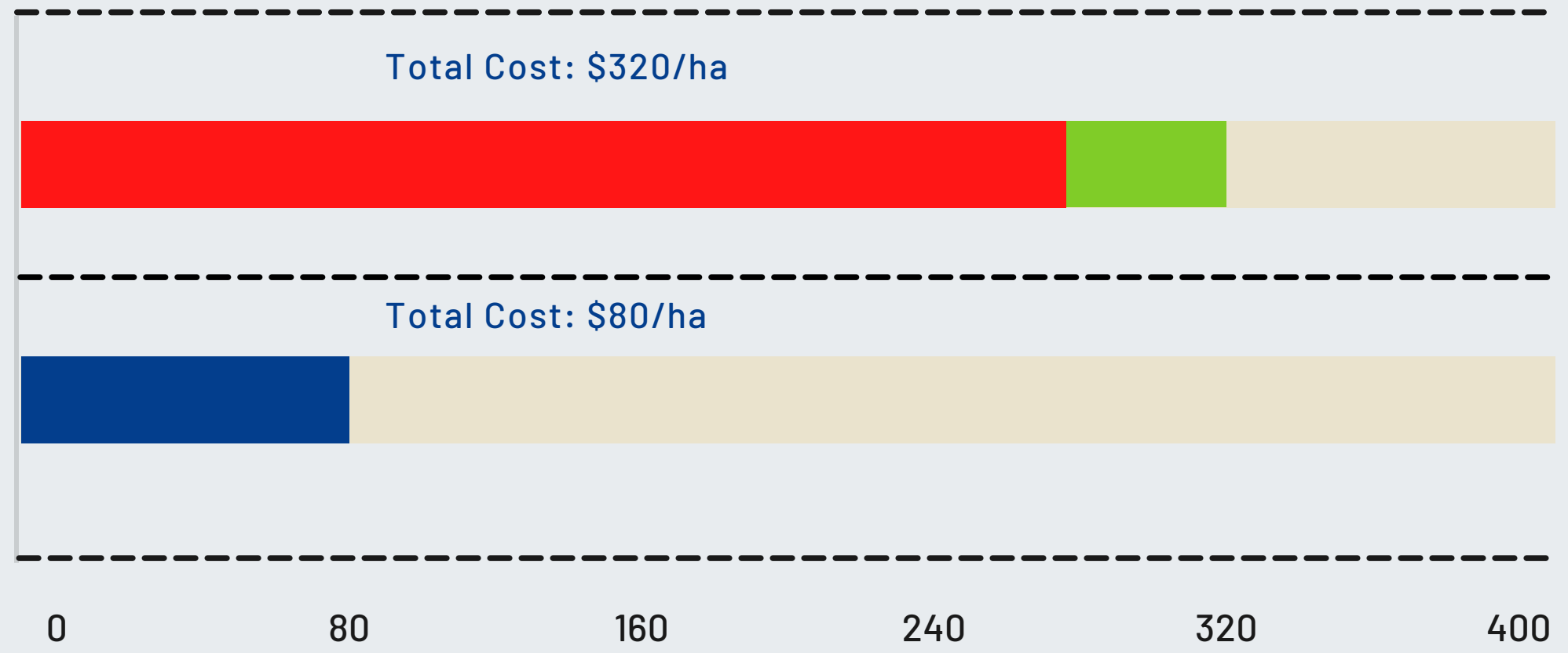
\$ 4.7 Billion

Customer Value Proposition

Traditional Survey



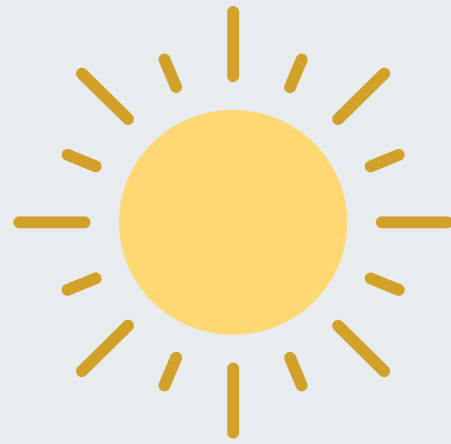
Cost in €



$$\begin{aligned} & \$320 \\ & - \$80 \\ & = \$240 \end{aligned}$$

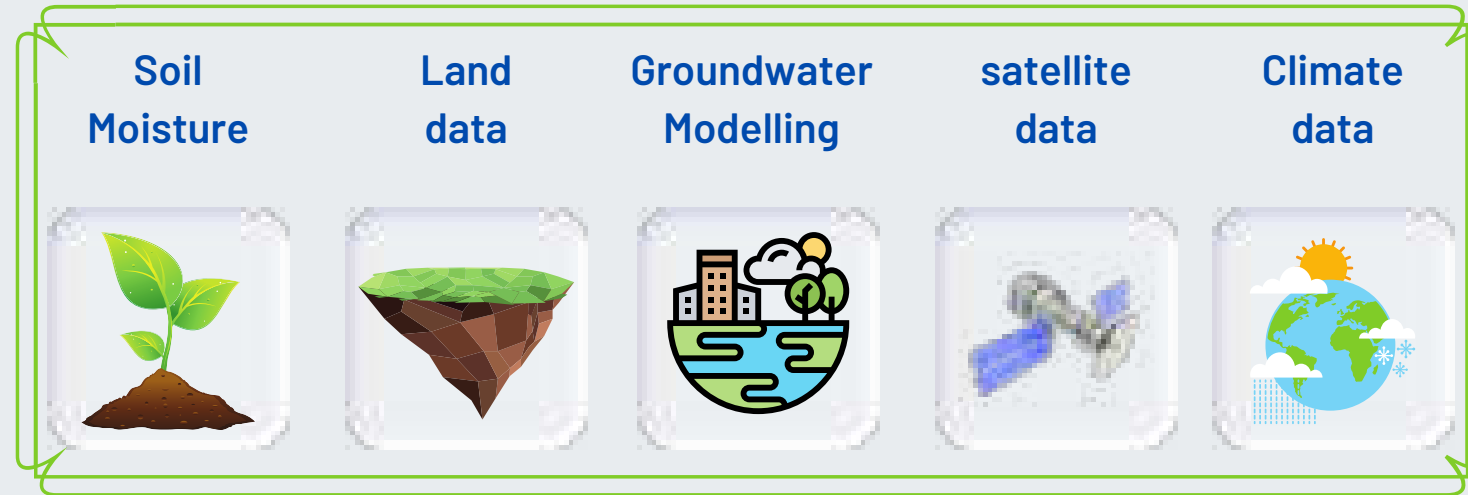
75% Savings in cost

-  Satellite Survey
-  Traditional Survey Cost
-  Transportation Cost

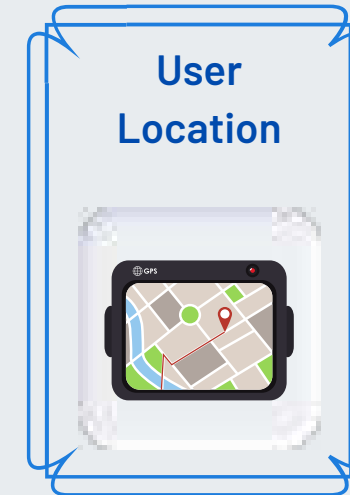


Product

Server Side



User Side



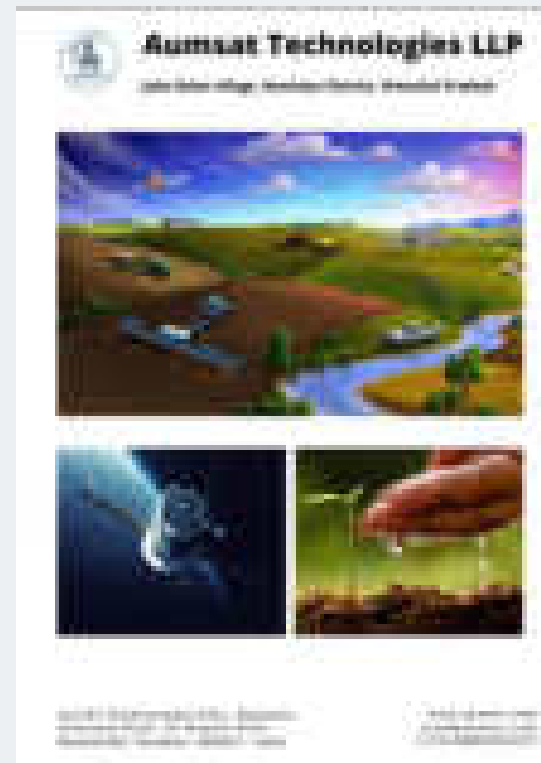
Data Assimilation



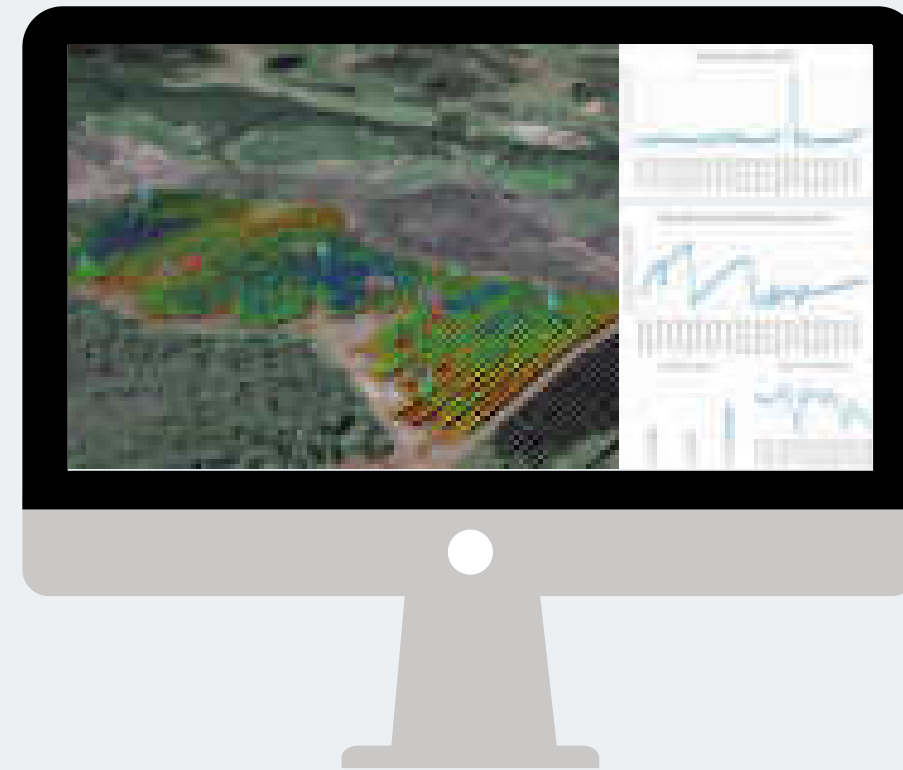
Responsible Groundwater Use Report



Product Segmentation



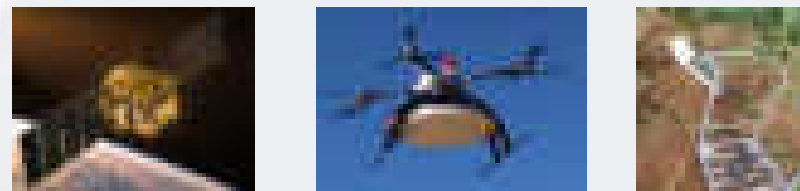
**Detailed
Groundwater Report**



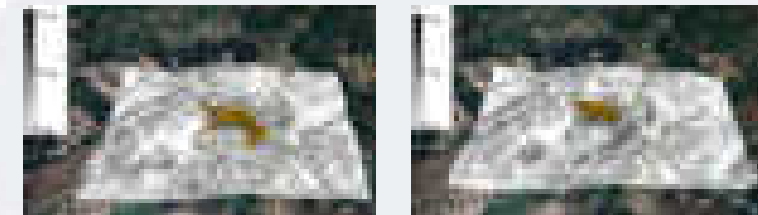
**Web GIS
Real Time Monitoring**



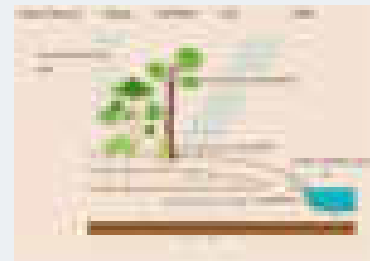
Competitive Advantage



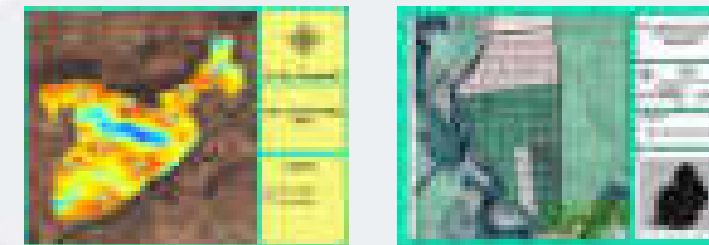
Comprehensive Radar Ecosystem



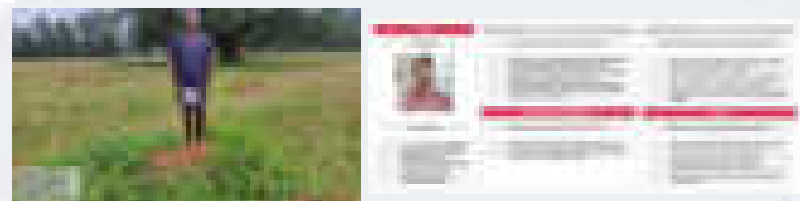
3D Groundwater Forecasting



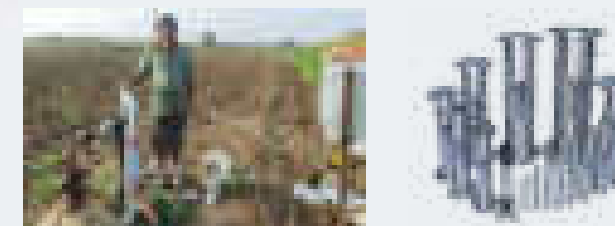
Groundwater Budget Estimation



Solar Pump Site Suitability



Hydrosocial Contracts



Saline Water Conditioning Technology



Scalability



interactive
Dashboard



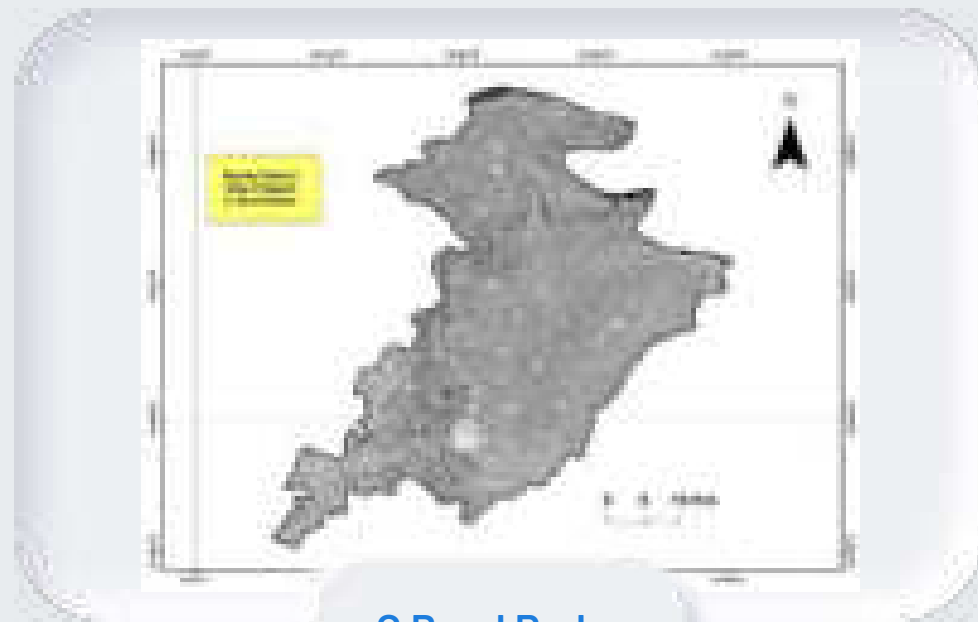
Real Time
Analytics



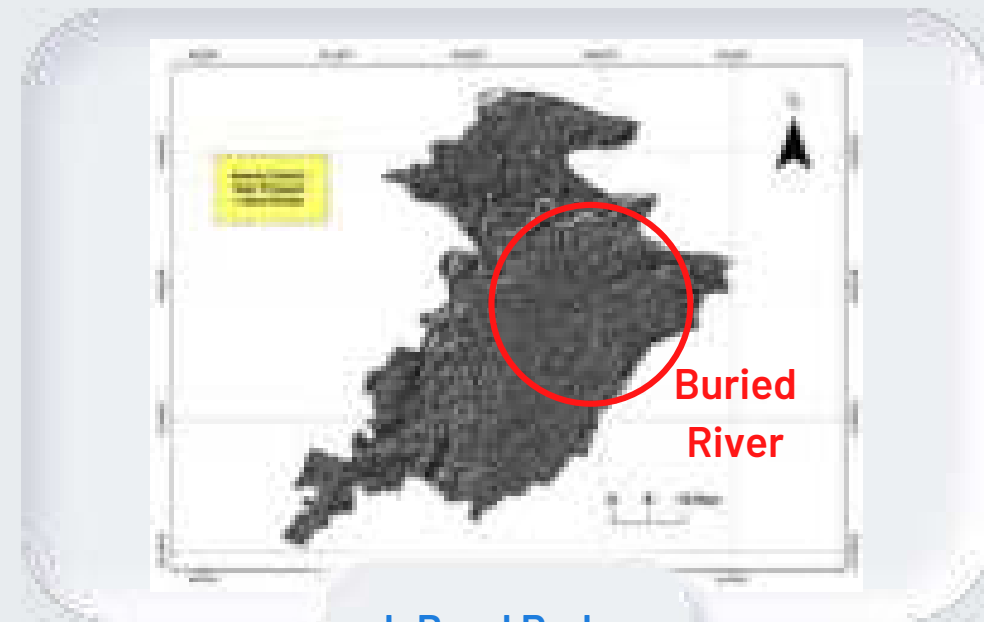
Highly
Skilled team

Novelty

Technology

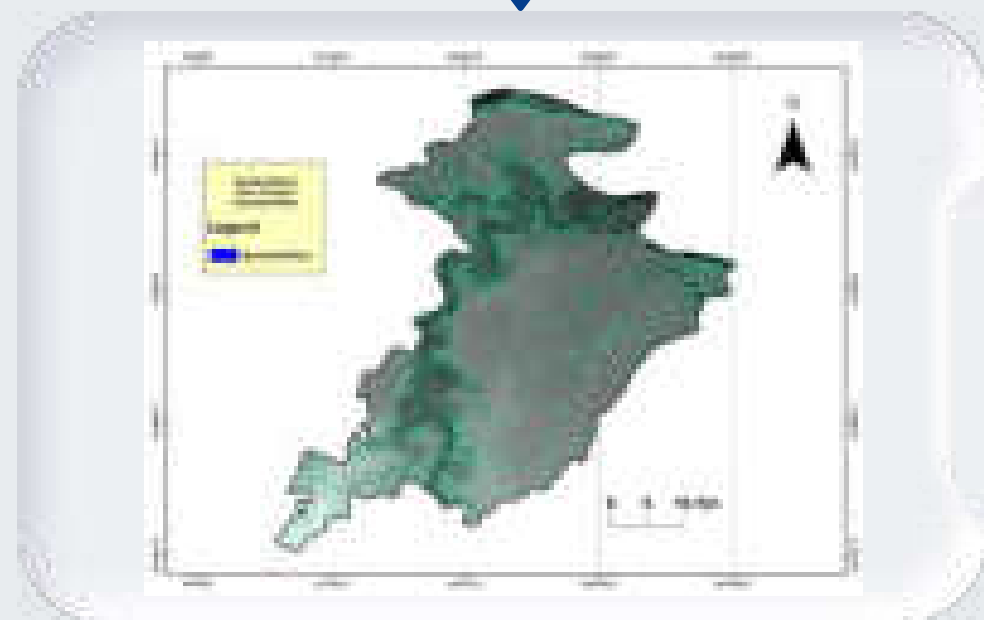


C Band Radar



L Band Radar

Multi Frequency Radar Interferometry

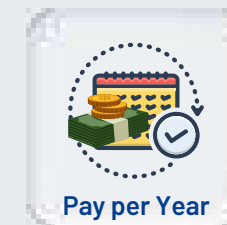


Groundwater Signature Extraction

Business



License Fee



Pay per Year



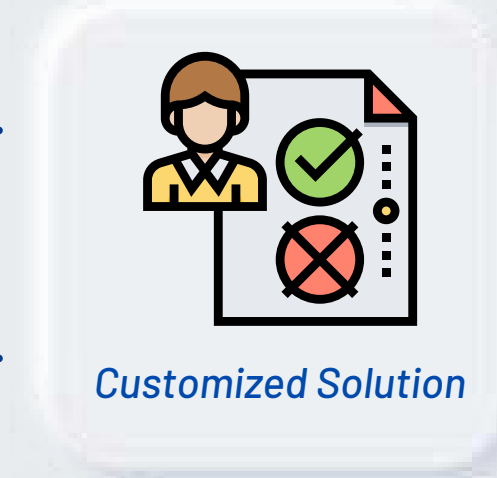
SAAS Based Revenue



Pay per Acre



Pay per Parameter



Customized Solution



Primary Report



Expert Consulting



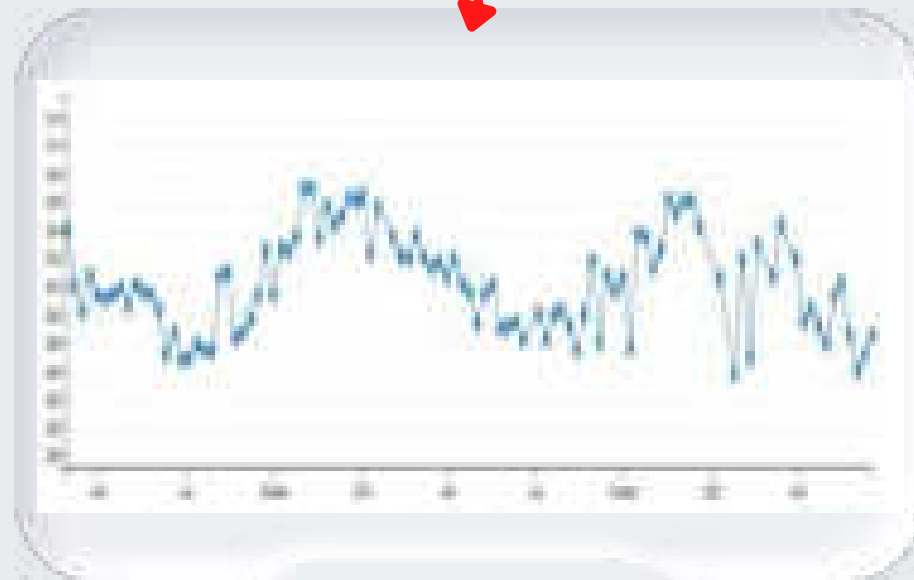
Detailed Report

Predictive Analytics

Ground Validation



Soil Moisture Forecast



Groundwater Depth Forecast



Vegetation Trend Forecast



Customer Discovery



Key Questions

Can you tell me if I have groundwater in my field or not?

Based on the current year's rainfall, should I go for drilling borewell in my field?

Do you have a solution for detecting, predicting, and forecasting drought in my field??

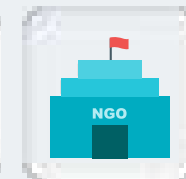
Key Insights

Customers Interviewed: 3200

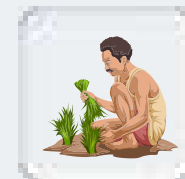
Demands in Groundwater Exploration Industry:



Banks
Need
Auditability



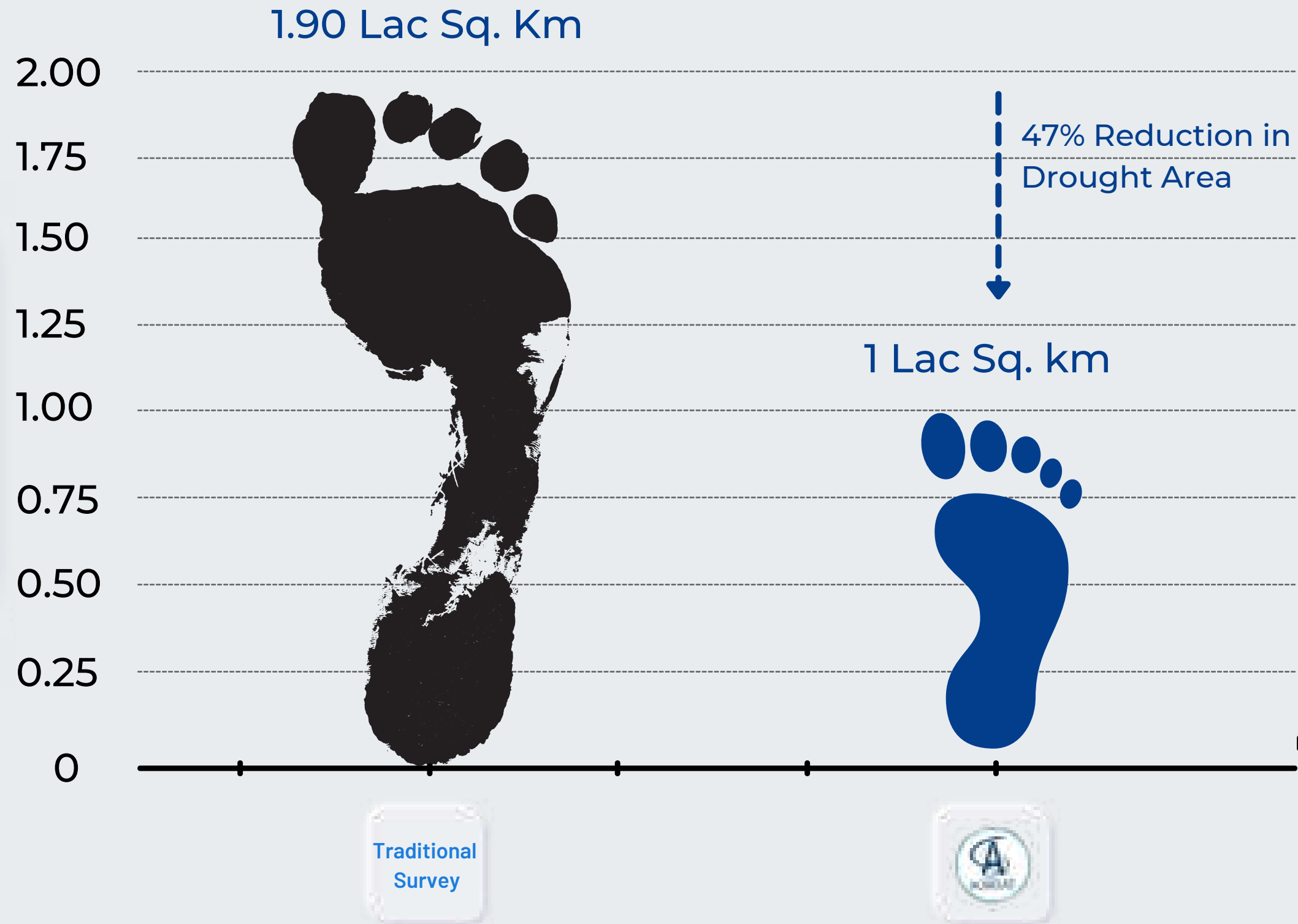
FPO's/NGO's
Need
Accuracy



Farmer
Need
Affordability

Climate Impact

Land under drought
lac Sq. Km



In total beach head
Market:

We bring drought
footprint down by
90,000 Sq. km

Sources

1) Cool Farm Tool to Calculate Drought Area
<https://app.coolfarmtool.org/>

2) Drought in Maharashtra
http://117.252.14.242/rbis/India_Information/draught.html



Riddhish Soni

CEO
Past: ISRO, UNOOSA



Karan Behar

CTO
Past: Google, J.P Morgan



Chetan Soni

CFO
Past: TATA Housing



Vikram Gulecha

CIO
Past: Harvard School of Design



Mitali Damle

COO
Past: ISRO, PRL



Dr. Kapil Dev Sharma

Water Expert
National Institute of Hydrology



***Team
Aumsat***

Certifications



ICAR- Ministry of Farmer Welfare



Neos Core, Mauritius



BCCL, Coal India



ISRO



Mavani Chemicals



Water Ministry, Uzbekistan

Come. Join Us!
Aumsat Ecosystem



Climate Collective



Indian Council of
Agricultural Research



Indian School of Business



New Energy Nexus



Indian Space
Research Organisation



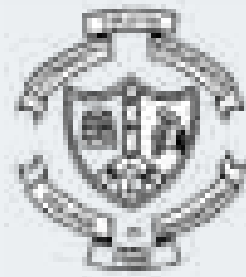
National Bank for Agriculture
and Rural Development



Japan Aerospace
Exploration Agency



Confederation of
Indian Industries



College of
Engineering, Pune



Indian Institute of Science
Education & Research



National Institute of
Agricultural Marketing



iSenses Limited,
France

Recent Updates



Aggnite 2021 Winners



HerStart 2021 Winners



GIZ Grand Challenge Winners 2021



Indian Express 16th May 2021



Climate Launchpad 2018 Finalist, Edinburgh



Fengyun 2019 International Conference, China



Tata Chairman Mr. Natrajan Chandrasekaran Nov 2019



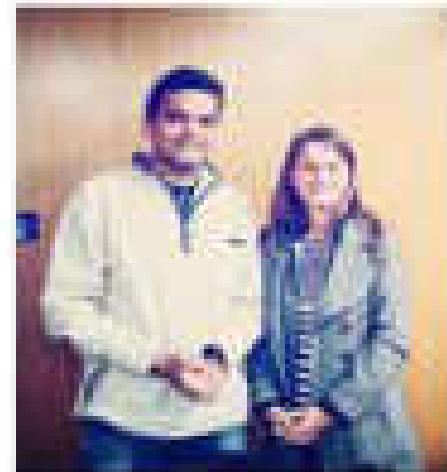
Best Research paper Award, Haikou, China.



Chandrayaan-2 Project



Chief Scientist Eumetsat Dr. Kenneth Holmlund.



NASA ARSET program with Dr. Erika Podest



Chief Scientist, NOAA Dr. Mitch Goldberg



IPSC Conference PRL, Ahmedabad



United Nations Team, IIRS, Dehradun



Thank you!

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