

A geoengineering technology venture based at Nagpur, Maharashtra, delivering exhaustive 2D & 3D geodata-analytics for decisions involving earth, environment & heritage.

Our expertise captures and documents as-is natural conditions of any geographical area on earth swiftly, accurately, effectively at mm level.

We bring the land to your lab. Our solutions transform insights across Environment, Mining, Heritage, Urban Development, Water Management and community projects.



**VASUDHAYAN
& MANDIRAYAN**
Two Sacred Missions



HOW WE DELIVER



Technologies

Drone LiDAR, DGPS, CORS, Close Range Photogrammetry, Very Hi-Res satellite imagery, GPR, 360 photo & video



Outputs

Master plans and engineering drawings as decision-support tools. Innovative and user-friendly Analysis Tools



Benefits

Accurate, efficient, precise, fast, transparent virtual display ready outputs, leading to the increased performance,

DOMAINS WE SERVE

Environment

Mining

Heritage

Urban

Water

Irrigation

Activities Beyond Projects: Online / Offline Trainings & Internships

Dr Ajay Deshpande, Founder & CEO

Ex. Resources Scientist, (Scientist SG), @MRSAC, GoM with 33+ years of experience in Geospatial technology applications and team Leadership.

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VASUDHAYAN

Immersive Terra Intelligence



Environment

Natural resources, SDGs, water, forest urban, mines, RTRWH, biodiversity, water & carbon credit



Mining

IBM, MMDR-compliant drone leases & rehabilitation planning, & 3D volumetric studies



Forest

Biodiversity Estimation, Plantation sites Identification, Impact Assessment



Urban

Urban mapping, development / regional plans, storm water drains



Water

Surface / ground water mapping & pipeline layouts, flood modelling



Community & CSR

Precision CSR — geographically targeted investment planning



Industry Infra Modelling

3D Digital Twin Generation of Industrial Infra, Water Audit, NOC, 3D Scanning



Irrigation

Green Field Surveys, Irrigation Impact Assessment, FRL mapping, Canal Monitoring....

MANDIRAYAN

Immersive Heritage Twin



Heritage Preservation

Digital-first conservation



Pilgrim Experience

Safer, seamless darshan



Data-driven planning

Smart Governance



Local Economy

Livelihoods strengthened

Full-spectrum geospatial services, engineered end to end. Research, rigour and technology in equal measure. Guided by seasoned mentors. Built by a curious team. Proficient across the modern geospatial stack. Trusted by consultants, architects and planners.

Our Projects spans- Earth, Environment, Heritage

Our Technologies, Our Instrumentation, Our Precision

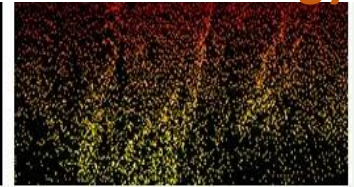


Drone Surveys

DGCA-compliant drones flown by certified remote pilots, capturing high-resolution aerial imagery across large, hard-to-access sites quickly and safely.



LiDAR Technology



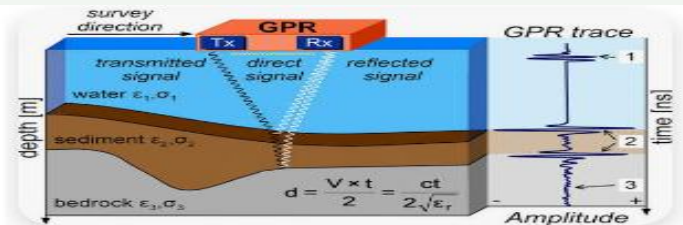
Laser-based scanning generates dense, millimeter-accurate point clouds. The backbone of our 3D models and Perspective vision.



Very High-Resolution Satellite Imagery

Earth-observation imagery for environmental monitoring, land-use analysis and regional-scale planning applications.

Ground Penetrating Radar



High-frequency radio waves detect objects and structures beneath the ground generating 2D plans & 3D subsurface slices.



DGPS & CORS

CORS is permanent ground-station network providing real-time satellite correction; DGPS uses fixed reference receivers and provide higher positional accuracy in X,Y,Z



360° Data Capture

Full spherical video or photo capture with precise geographic coordinates embedded into every frame, for immersive site documentation.



APPROACH

Drone, LiDAR, DGPS, CORS, GPR, 360-degree recordings, Close Range Photogrammetry, blended with VHR satellite imagery, give an edge for spatial knowledge-based analytics,



The Larger Benefit

Outputs augment efficiency, accuracy transparency of every study. Precise & fast, amenable to virtual display as decision support on desktop, laptop & smartphone.

BEYOND CONSULTANCY & APPLICATION PROJECTS

Learn Geospatial Technology on Live Projects

From the Mentors with 33 + years applied industry experience

We are Open for Internships, Online and Offline Trainings



Our cohort-based programs are designed for the domains - Civil Engineering, Environmental Engineering, Planners, Designers, Geology, Geography, Architecture, Remote sensing and GIS. Learn the stack, contribute to real projects and build a portfolio that stands out.

Structured Training

Foundational and Advance modules across Remote Sensing, GIS, DRONE, LiDAR, DGPS, GPR, CORS & CAD

Mentorship

Active Guidance from mentors having 33 + years of Industry Experience.

Certification

Signed Certificate + Portfolio review of completion of the Internship / Trainings

Dr Ajay Deshpande, Founder & CEO

Ex. Resources Scientist, (Scientist SG), @MRSAC, GoM with 33+ years of experience in Geospatial technology applications and team Leadership.

Internship

Academic internships based on real world problem statements and active mentorship on technology integration

Live Projects

Contribute to real world engagements of Environment and Heritage with technologies like DRONE, LiDAR, etc

Industry Network

Exposure to agencies, companies, freelancers and researchers

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