

ABsynergy presents
MANDIRAYAN TM

*Where sacred heritage meets intelligent transformation
through advance GeoSpatial Technology integration*



Geospatial technology • Artificial intelligence • Digital heritage conservation for India's temple towns

The Vision

As pilgrim footfall and urban pressure grow, temple towns need smarter tools to manage crowds, preserve heritage, and improve infrastructure — without losing their sanctity.



Smart, digitally enabled temple ecosystems

MANDIRAYAN builds a sustainable, pilgrim-centric, scientifically managed ecosystem that enhances the pilgrim experience, strengthens local economies, improves governance, and preserves sacred heritage for generations to come.

Heritage Preservation

Digital-first conservation

Smart Governance

Data-driven planning

Pilgrim Experience

Safer, seamless darshan

Local Economy

Livelihoods strengthened



*“Systematizing
prevalent procedures
and revamping
chaotic conditions to
foster a harmonious
darshan experience.”*

— THE MANDIRAYAN APPROACH

Imagine a future where every temple town becomes a thriving centre of devotion, culture, and sustainable growth — a harmonious blend of religion, heritage and modernity.

In quaint temple towns, the vibrant pulse that once harmonized daily life with ancient chants has dimmed under the weight of modernization and neglect. Mandirayan exists to systematize prevalent procedures and revamp chaotic conditions, fostering a harmonious darshan experience.

By blending peace and faith with streamlined management, we preserve the commercial interests of the local community while ensuring a serene environment for devotees — balancing spiritual sanctity with economic sustainability.

Leveraging cutting-edge geospatial technology, AI-driven analytics, and meticulous planning, we breathe new life into these timeless spaces while preserving their sanctity.



The Technology Stack

Six advanced geospatial capabilities capture temple ecosystems with engineering Precision



DGPS / CORS

Engineering-grade
precision surveying &
spatial control
networks



Drone Surveys

Orthomosaic imagery,
terrain models &
crowd-flow studies



LiDAR Scanning

Dense 3D point
clouds of every pillar,
sculpture & corridor



360° Capture

Remote inspection,
monitoring & virtual
pilgrimage tours



Satellite Imagery

Macro-level land use,
traffic & pilgrim-influx
analytics



GPR

Below the Ground
Buried objects
inspection, and
Mapping

A Tower Built in Five Tiers

The Mandirayan Approach — each tier resting on the strength of the one below it



TIER 1 — FOUNDATION

Heritage Conservation & Digital Documentation

Geospatial tools and digital-twin technology conserve temple structures while documenting rituals, histories, and the families tied to the temple's legacy.



TIER 2

Cultural and Historical Revival

Delving into ancient scriptures, myths, and local lore to document and promote each temple's spiritual significance.



TIER 3

Comprehensive Ecosystem Development

Enhancing infrastructure, connectivity, and facilities — sustainable tourism, clean public spaces, economic upliftment.



TIER 4

Devotee Engagement

A dedicated Geowebportal for each temple town — like kolhapurmahalakshmi.in — offering itineraries and historical insight.



TIER 5 — THE FINIAL

Smart Management Solutions

AI-powered tools for crowd control, security, and maintenance sharpen efficiency for residents and visitors alike.

Preservation & Prosperity

Technology protects sacred architecture while strengthening the communities that sustain it.



Heritage Conservation

AI-enabled monitoring detects structural distress early, prioritizes restoration, and preserves architectural authenticity. Digital Twins create permanent, conservation-grade archives — protecting sacred heritage both physically and digitally.



Local Economy

Artisans, food vendors, traditional markets, and cultural performers gain digital visibility through geospatial mapping and ecosystem integration — strengthening livelihoods so modernization empowers tradition rather than replacing it.

Intelligence in Action



AI turns geospatial data into real-time decisions for crowds, operations, and the pilgrim journey.



AI-Powered Management

- Real-time footfall & crowd-density monitoring
- Predicts peak pilgrimage periods
- Smart SOPs coordinate admin, security & civic teams
- Sensors track structural health, temperature & water systems
- Predictive analytics for emergency preparedness



eGUIDE — the Pilgrim Companion

- Digital maps & live queue status
- Guided pilgrimage routes
- Nearby amenities, food & stay info
- Emergency services access
- Multilingual assistance for global devotees

Expected Outcomes

- Comprehensive geo-digital heritage archives

- Scientific temple town master plans

- AI-enabled smart management systems

- Improved safety & crowd management

- Digital Twin-enabled asset management

- Strengthened tourism & local economies

IMPORTANT PROJECTS

- **Markandeshwar Shiv Temple**
Chamorshi, Gadchiroli

- **Anandeshwar Shiv Temple**
Daryapur, Amravati

- **Kalyaneshwar Shiv Temple**
Telangkhedi, Nagpur city

- **Shiv Temple, Bhatala**
Chandrapur District

- **Bhawani Temple, Bhatala,**
Chandrapur

- **Miniature Caves, Bhatala**
Chandrapur

- **Ramtek Gad Mandir complex,**
Nagpur

- **Heritage Temples complex along**
Krishna River, Wai, Satara

- **Murlidhar Temple, Mahal,**
Nagpur City



Where sacred heritage meets intelligent Geo Transformation

An initiative by

ABsynergy

A GST and Udyam registered MSME Organization

HSN Code – 998393 (Scientific and Technical Consultancy)

office -

“Shaishavaha”, First Floor

53, Nav-Nirman Society,

Pratap Nagar, Nagpur – 440 022

www.ABsynergy.co.in

absynergy.nagpur@gmail.com

dr.ajaydeshpande27@gmail.com

9422111927, 7720046490