MICRO GENESIS

Unlock the Power of Geospatial Intelligence with MicroGenesis

Integrate UAV data, AI-powered analytics, and real-time visualization to transform decision-making across industries.

Key Offerings

End-to-End UAV Data Pipeline

Capture: High-resolution imagery, LiDAR, and telemetry via drones.

Process: Sync with INDIGIS or other platforms using APIs/batch uploads.

Visualize: Real-time 3D terrain, dynamic maps, and AI-driven predictive insights.

Automated Geospatial Tools

Map Generation: Mosaics, layer extraction (roads/pipelines), and DEMs from LiDAR.

Change Detection: AI-powered comparison of historical vs. real-time data (e.g., deforestation, urban growth).

AI & NLP: Voice/text queries (e.g., “Show damaged power lines”) and automated feature recognition.

Secure & Scalable

Military-Grade Encryption: STANAG-compliant protocols for defense and civilian data.

AI-Augmented Integrity Checks: Automated validation of data accuracy and consistency.

Elastic Cloud Infrastructure: Scale storage/processing on demand for large projects.

Industry Use Cases:

Energy & Utilities

AI for fault detection, vegetation management (grids), blade integrity (wind turbines), leak/corrosion alerts (pipelines).

Agriculture

NDVI crop health mapping, irrigation planning, yield prediction.

Defense & Public Safety

AI anomaly detection (borders), post-disaster damage assessment.

Real-World Impact & Next Steps

Urban Planning

Zoning checks with 3D models, traffic analysis via drones.

Environmental Monitoring

Detect illegal mining/deforestation, study coastal erosion.

Construction & Infrastructure

Track progress vs. BIM, measure stockpiles with LiDAR.

Why Us?

- End-to-end UAV + AI GIS solutions
- STANAG-compliant, defense-grade security
- AI speeds processing from hours to minutes
- DRDO (Ministry of Defense, India) proven technology with full Transfer of Technology
- 100% indigenously developed for sovereignty & customization

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Let's Customize a Solution for You!

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