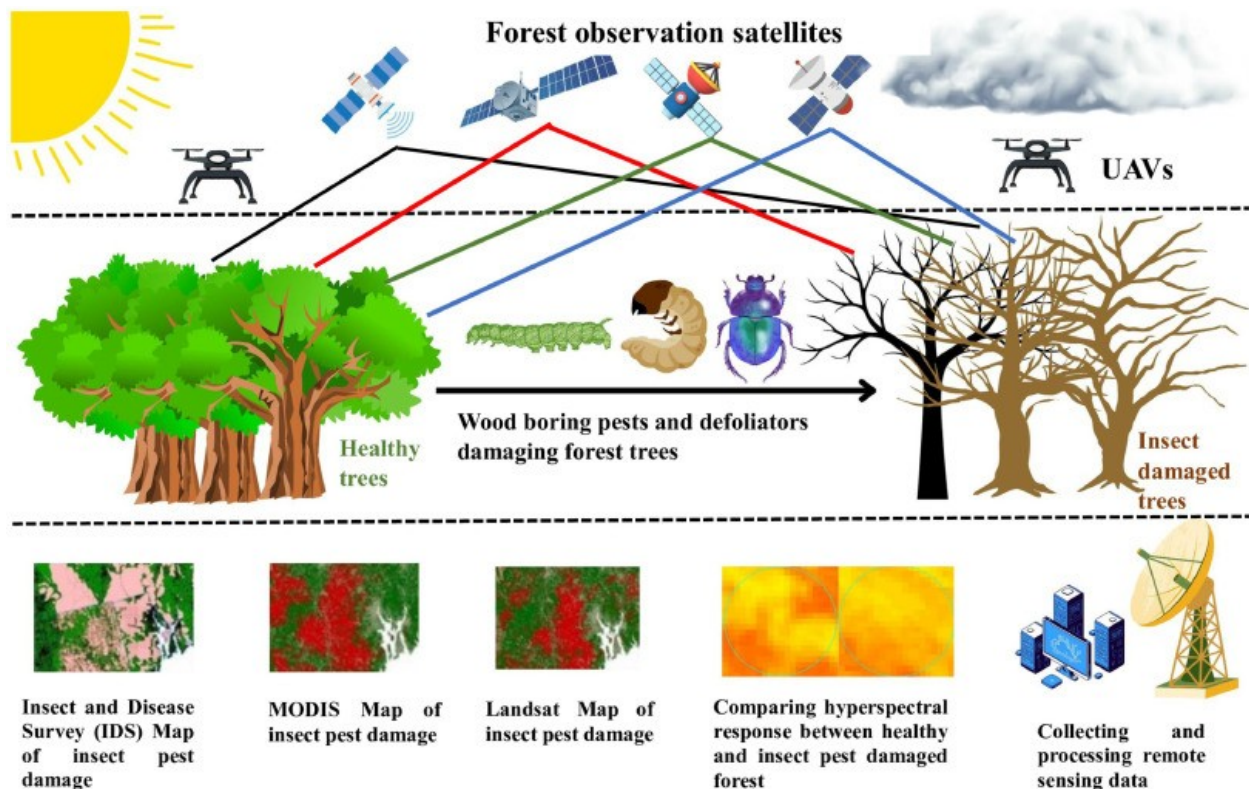


AI-Powered Forest Pest & Disease Detection and Spread Prediction System

Proven Through a 3-Year South Korean Government Program

This technology was successfully developed and validated through a **3-year national R&D program sponsored by the National IT Industry Promotion Agency (NIPA)**.



The platform combines:

- AI-based image recognition
- Drone and satellite remote sensing
- Geospatial analytics
- Real-time forest monitoring
- Spread prediction modeling

to automatically detect forest pests and diseases and forecast outbreak risks at regional and national scales.

Why It Matters

Forest pest outbreaks are expanding rapidly due to climate change and ecosystem stress, while traditional manual inspection methods are increasingly costly, slow, and inefficient.

This system enables:

- Early detection of infected trees
- Large-scale automated monitoring
- Faster response and containment
- AI-driven spread prediction
- Improved operational efficiency for governments and forestry agencies

Proven at National Scale

The project utilized:

- 1.3 million hectares of high-resolution aerial imagery
- AI analysis of large-scale forest datasets
- Drone and satellite observations
- Operational validation with government agencies in South Korea

The technology demonstrated strong potential for deployment in:

- National forest disaster response
- Climate resilience programs
- Smart forestry initiatives
- Carbon and ecosystem protection
- Global environmental monitoring markets

Investment Opportunity

This proven government-backed platform positions the team to expand into a rapidly growing global market for:

- AI environmental intelligence
- Climate adaptation technologies
- Smart forestry systems
- Remote sensing analytics
- Ecological disaster management

The company is seeking strategic funding partners to accelerate commercialization, international deployment, and next-generation AI model expansion.
