

OXBOW INTELLECT PRIVATE LIMITED

Agriculture

Pilot District
Sonipat, Haryana

**Geospatial
Innovation Accelerator**
AWaDH, IIT ROPAR

Technology Summary

OxLand Agri – Future-Ready Platform for Agricultural Land Acquisition & complete Land Management

OxLand Agri will serve as a single-portal application that will enable seamless visualization and retrieval of cadastral records, maps, and agricultural land information. It will assist investors and government agencies in identifying suitable agricultural lands and understanding crop patterns during the land acquisition process.

By leveraging advanced GIS, drone data, and Geo-AI technologies, OxLand Agri will revolutionize the way agricultural land is assessed, making the entire process faster, more transparent, and data-driven.

Technology Readiness Level:

7

Value Proposition:

OxLand Agri will simplify and modernize the agricultural land acquisition process by providing a unified digital platform that integrates cadastral data, drone mapping, and Geo-AI analytics.

It will enable faster land identification, transparent due diligence, and data-driven decision-making for governments, investors, and industries reducing time, cost, and complexity in acquiring and managing agricultural land.

Market Potential / Deployment Plan:

Market Potential:

India has over 160 million hectares of agricultural land, much of which lacks digitized records and integrated access for investors or government agencies. With increasing emphasis on smart agriculture, land record modernization, and transparent land transactions, there is a growing demand for technology-driven land acquisition and management platforms.

OxLand Agri is well-positioned to serve this market by collaborating with state land departments, agri-investment boards, industrial corridor authorities, and agri-infra developers.

Deployment Plan:

The deployment will be phased:

Phase 1: Pilot implementation in selected districts with integrated cadastral and crop data visualization.

Phase 2: Integration of drone and satellite-based analytics for crop classification and suitability mapping.

Phase 3: Scaling across multiple states through partnerships with government agencies and private investors, establishing OxLand Agri as a national platform for agricultural land acquisition and management.

Applications:

Applications of OxLand Agri

Land Acquisition: Simplifies identification and evaluation of agricultural land for investors and government.

Cadastral Mapping: Provides a single portal to view and verify cadastral records and boundaries.

Crop Analysis: Uses Geo-AI and drone data to map crop types and assess land suitability.

Investment Planning: Helps industries locate suitable agricultural lands for agri-based projects.

Government Use: Supports land record modernization and policy planning.

Monitoring: Enables change detection, land use tracking, and decision dashboards.

Environmental / Social Impact

Promotes sustainable land use and optimizes agricultural practices, reducing environmental impact.

Enhances transparency and efficiency in land acquisition and land management, empowering farmers and supporting fair, data-driven decisions.

Supports community development and job creation through GIS, drone operations, and tech adoption.

Contribution to Sustainable Development Goals (SDGs)

SDG 9 & 15

