

Esri India and NeoGeoInfo Technologies Collaborate to Create A Unified Digital Platform for YEIDA

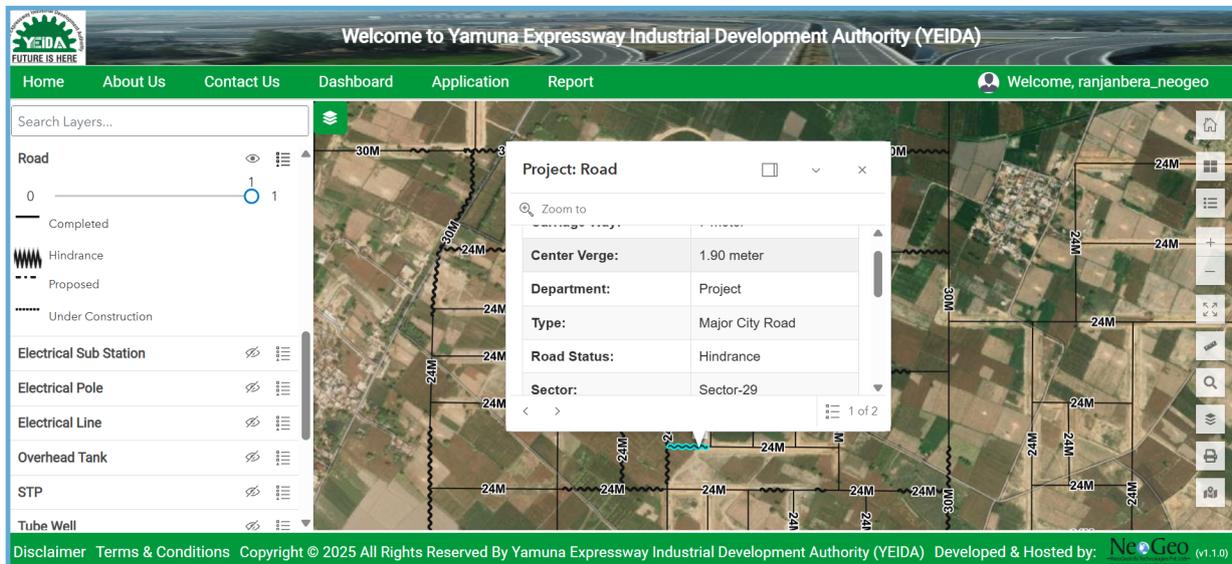


Esri India and NeoGeoInfo Technologies collaborated to create **OneMap Geoportal**, which is the **Yamuna Expressway Industrial Development Authority's (YEIDA)** unified digital platform, used for managing, analyzing, and visualizing geospatial data. The portal brings together data from multiple departments into a single, intelligent, map-based system, enabling real-time decision-making, improved planning, and seamless coordination across government functions. **It serves as a foundation of smart governance.**

Objectives

The objectives of developing OneMap Geoportal for YEIDA were:

- Integrating all the GIS efforts undertaken by YEIDA and creating a single window GIS system. The system integrates master plans, zonal plans, land bank data, and cadastral data, all of which are available in various formats.
- Providing a common repository for satellite images and drone data, which different agencies are using from time to time.
- Creating user-based logins for different departments in GIS for Enterprise GIS use.
- Creating workflows for single-point GIS data collection and consolidation of the data from all departments in one place.
- Creating Decision Support Dashboards for executive decision making.
- Providing a GIS map-based interface to offer the details of all existing land allottees, a list of vacant plots, directions, measurement of plots, a list of landmarks, and details of YEIDA's urban services.



Asset Inventory: Information about Road Networks

Technologies Used

The YEIDA OneMap Geoportal is structured as a modular, scalable, and service-oriented architecture, integrating various GIS and non-GIS data sources into a unified digital platform. It is a hybrid GIS system operating in a local environment, securely connected to the ArcGIS Enterprise infrastructure.

The technologies used are:

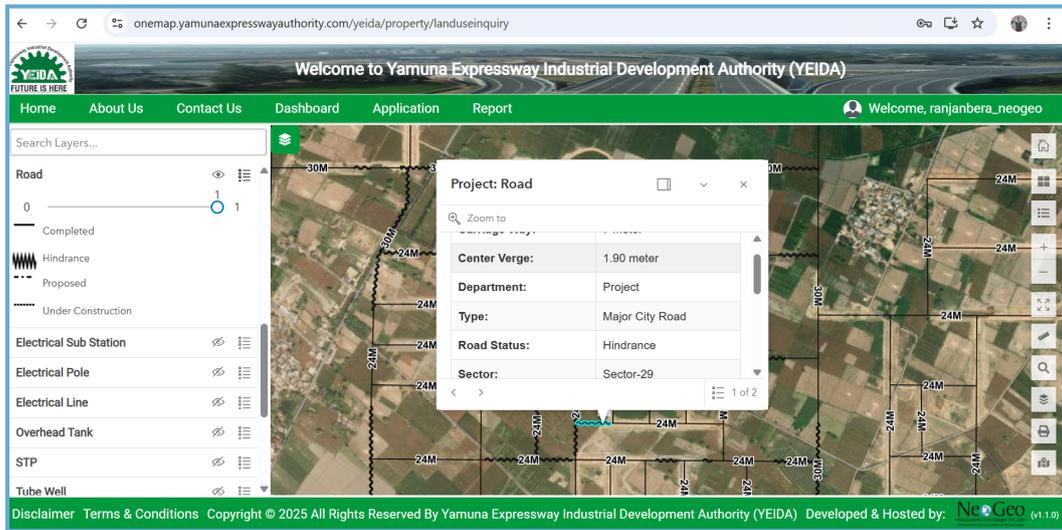
- Cloud-hosted Enterprise GIS (ArcGIS Enterprise 11.x, Portal, Relational Datastore).
- ArcGIS Pro for data management and advanced spatial analytics.
- High-resolution basemap creation and integration with existing cadastral and sector data.
- Web and mobile applications for departmental use and citizen engagement.

- Dashboards and analytics tools for real-time decision-making.
- APIs for integration with ERP, project monitoring, and external systems.

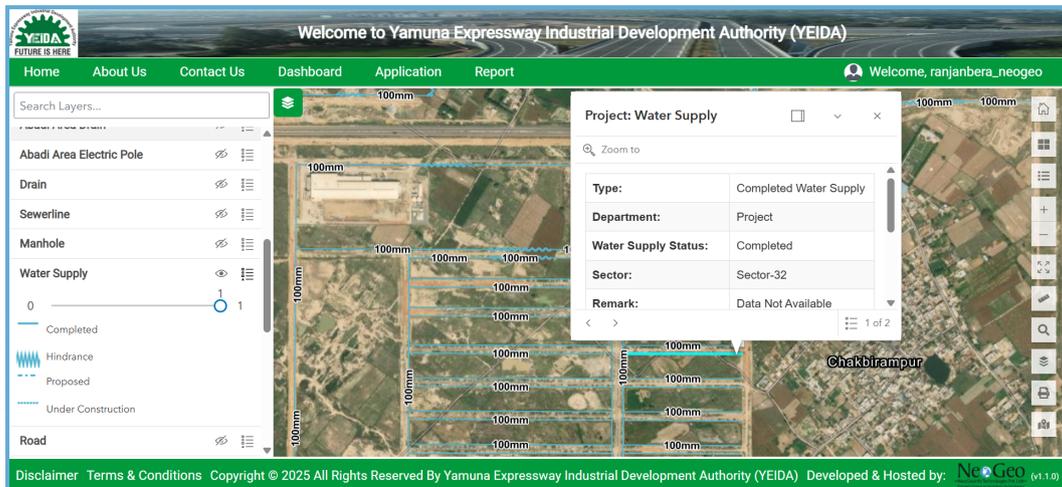
Key Features

The YEIDA One Map Geoportal facilitates:

- **Comprehensive Data Integration:** Infrastructure Mapping, Land Records, Asset Inventory, Urban Planning, Utility Networks, and more.
- **Monitoring & Analysis:** Encroachment Identification, Departmental Workflows, Collaboration Tools, Change Management, and more.
- **Citizen Engagement:** Data Transparency, Citizen Feedback Mechanisms, Grievance Management, and more.



Asset Inventory: Information about Sewer Line Networks



Asset Inventory: Information about Water Supply Networks



Change Detection: Agriculture Built-up



Change Detection: Deforestation

Benefits

With OneMap Geo Portal, YEIDA moves beyond static mapping, delivering intelligent, data-driven insights for smarter, faster, and more transparent e-governance. The YEIDA OneMap Geoportal provides a centralized, interactive platform for accessing and analysing spatial data related to land, infrastructure, and utilities within the region. It enhances transparency, supports informed decision-making, and streamlines planning and development processes for decision-makers, planners, and stakeholders.

Key benefits include:

- Identification of unauthorized land use
- Enhanced data-driven decision-making
- Driving long-term sustainable development
- Optimized delivery of citizen services
- Managing transition and transformation
- Transparent and open data access
- Strengthening departmental collaboration
- Centralized asset inventory management
- Reduced costs

