



Accelerate Asset & Field Work with a Map-First Geospatial Platform on AWS

Why Modernize Asset & Field Operations?

Organizations that own and maintain physical infrastructure — across utilities, transportation, telecom, water and public works — are expected to keep thousands of distributed assets safe, available and well-maintained. Yet many still run on spreadsheets, legacy systems and paper-based field processes that cannot keep pace.

By modernizing asset and field operations with a map-first geospatial platform on AWS, organizations can see every asset on one live map, dispatch and track work in real time, capture field activity at the point of work, and turn day-to-day operations into actionable insight.



Benefits

- » **Single Source of Truth —**
Every asset located, classified and searchable on one interactive map — no more scattered spreadsheets or blind spots.
- » **Connected Field Operations —**
An installable mobile field app links crews and the back office in one real-time loop, with photos, GPS, materials and labour captured on site.
- » **Configurable for Any Domain —**
Asset types, workflows and terminology are configured, not coded — so the same platform fits utilities, transport, telecom or public works.
- » **Data-Driven Decisions—**
Live dashboards reveal work status, crew activity and asset condition, turning field activity into smarter maintenance and planning.

The comprehensive path to geospatial asset management

Amazon Web Services (AWS) provides Vidyut Solutions with a secure, scalable and fully managed cloud foundation to deploy and operate geospatial asset and field operations at scale — avoiding the complexity of maintaining geospatial and application infrastructure while benefiting from enterprise-grade security and elastic scale.

Combined with Amazon Location Service and MapLibre for mapping, PostgreSQL/PostGIS for spatial data, Amazon Cognito for identity and Amazon S3 for media, Vidyut Solutions delivers a best-of-breed geospatial platform.

Comprehensive Capabilities for Asset-Intensive Organizations

➤ Geospatial Asset Management –

A live map registry of every asset with custom attributes, spatial search and condition tracking on PostGIS.

➤ Work Orders and Field Mobility –

Create work orders on the map with the crew assigned at creation; crews execute and report from an installable mobile app.

➤ Governance and Analytics –

Role-based groups and permissions per project, plus live dashboards on work status, crews and asset condition.

➤ Domains Served –

Utilities and power networks · water and wastewater · transportation and road authorities · telecom and fiber · oil, gas and pipelines · municipalities and public works · facilities, campuses and ports.

Resources

➤➤ AWS Services Powering Vidyut Solutions

- Amazon Location Service: <https://aws.amazon.com/location/>
- Amazon Cognito: <https://aws.amazon.com/cognito/>
- Amazon S3: <https://aws.amazon.com/s3/>
- Amazon RDS for PostgreSQL: <https://aws.amazon.com/rds/postgresql/>

➤➤ Vidyut Solutions Platform

Map-first geospatial asset and work management with configurable asset models, mobile field reporting, role-based access and analytics — built for asset-intensive organizations on AWS.

<https://vidyutsolutions.com/>



AWS Partner Promotion

Shri Sai Tech's Vidyut Solutions platform on AWS helps asset-intensive organizations put every asset on one live map, dispatch and track field work in real time, capture activity at the point of work, and make data-driven maintenance decisions — all on a secure, scalable AWS cloud platform.

Built on Amazon Location Service, Amazon Cognito, Amazon RDS for PostgreSQL/PostGIS and Amazon S3, Vidyut Solutions delivers map-first asset management, connected field mobility, configurable no-code asset models and role-based operations.

Because asset types, workflows and terminology are configured rather than coded, the same platform serves utilities, transport, telecom, water and public works — for organizations in any domain, without deep technical expertise to maintain.

One secure, multi-tenant deployment serves many projects, regions and business units with per-project data isolation, so the platform grows across an entire organization.

Call to Action



Generative AI Consulting Services

