SRIT IPMS

Project and Services Delivery Platform for managing Telecom and Infra Lifecycle

Solution Brief

SRIT

Comprehensive Solution for Telecom and Infrastructure Lifecycle Management

- The Project Management & Services Delivery Platform is a unified, modular system designed to support the complete lifecycle of telecom and network infrastructure projects.
- It covers every stage—from survey and planning, to execution, monitoring, quality assurance, billing, and long-term operations—within a fully integrated framework that combines GIS, mobile applications, and enterprise system connectivity.
- This platform enables real-time field-to-office synchronization, advanced map-based visualization, stakeholder collaboration, and data-driven project governance.

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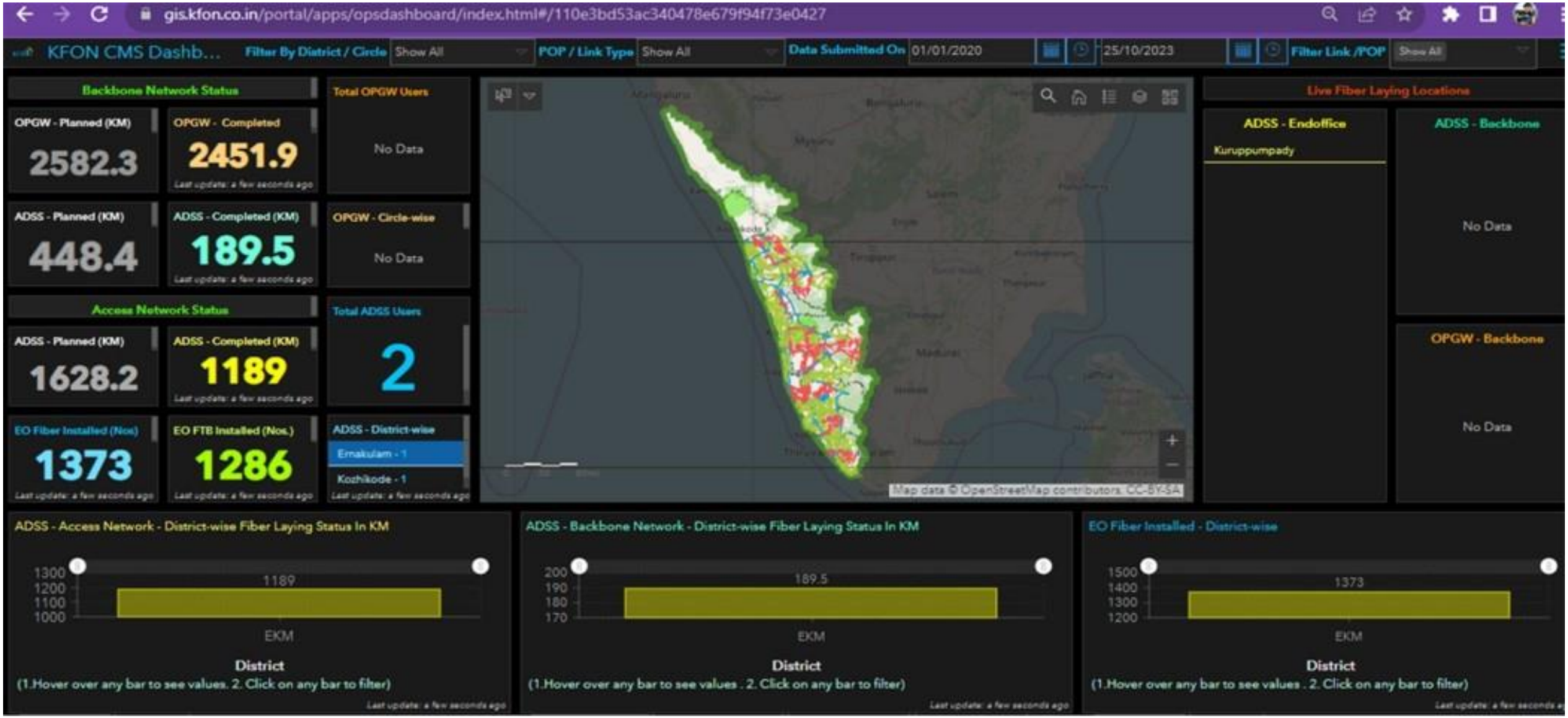
SRIT Solution Architecture



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Key Functional Capabilities: Survey, Design and Planning

The platform begins with a digital-first approach to survey and design:

- Desktop and field surveys are conducted using GPS-enabled mobile applications, which automatically sync with the GIS server.
- Route optimization is performed within the GIS environment using satellite and road network data to determine the most efficient fiber deployment paths.
- Network design is carried out within the GIS platform, allowing integration of site-specific details, network accessories, and logical connectivity.
- The design output includes an automatically generated Bill of Quantities (BOQ) and telecom data models.
- The Work Breakdown Structure (WBS) module supports detailed project planning, including task sequencing, resource allocation, scheduling, and cost estimation.

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Key Functional Capabilities: Execution and Monitoring

- Execution is supported by mobile applications that allow on-site teams to access approved network designs and update construction progress in real time.
- GIS integration ensures real-time mapping of construction data, deviations, and as-built modifications, providing project managers and stakeholders with a current view of the field status.
- Progress dashboards and reports offer real-time tracking of milestones, resource deployment, and budget adherence.
- Interactive map views, with color-coded status indicators and visual filters, enable stakeholders to drill down by geography, contractor, or project phase.
- Dependencies between tasks and milestones can be visually mapped to identify bottlenecks, manage risks, and anticipate delays.

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Key Functional Capabilities: Quality Assurance and Acceptance

The platform includes a robust, workflow-based QA and acceptance process:

- Quality checks and acceptance tests are performed against predefined specifications and key performance indicators.
- Real-time data verification workflows ensure accuracy across all project levels.
- Acceptance testing is fully documented and supported with audit trails, checklist templates, and tagged field evidence.
- Redlining and deviation tracking are incorporated via GIS-based interfaces and mobile inspections.

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Key Functional Capabilities: Documentation and Billing

Documentation is managed through a centralized, role-based Document Management System (DMS), with support for version control, audit history, and SLA tracking.

- As-built drawings and BOQs are generated directly from verified field data.
- Documents and technical files can be tagged to specific tasks, milestones, or assets.
- Billing is milestone-driven, using system-generated WBS status and certified quantities.
- Integration with ERP systems enables automated invoice generation, submission, and payment status retrieval.

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Key Functional Capabilities: Measurement and Certification

The platform includes automated measurement book management features:

- Field data such as trench depth and fiber length are captured using AI-assisted video and mobile inputs.
- The system calculates actual execution metrics and compares them with planned values for certification.
- Multiple trenching methods, including HDD and open trench, are supported.
- Real-time MB compilation and validation workflows are integrated with project monitoring dash boards.

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Key Functional Capabilities: Audit and Inspection

A comprehensive inspection module supports remote and on-site audits:

- Inspectors use geo-fenced mobile apps to conduct audits, capture observations, and redline GIS features.
- The system includes configurable checklists, punch point management, deviation logging, and acceptance tracking.

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Key Functional Capabilities: Invoice Processing

- Invoices are generated automatically based on verified measurements, approved work, SLA benchmarks, and milestone completion.
- The system integrates with ERP modules to push invoices and retrieve payment status.
- Penalties and incentives are automatically calculated based on defined business rules.
- The platform's telecom data model supports micro-level network mapping, including fiber strands, buffer tubes, active equipment, and interconnectivity.
- A dedicated Operations and Maintenance mobile app allows real-time network updates and incident reporting.
- Integration with remote fiber monitoring systems enables fault detection, outage tracking, and automated ticket generation.
- SLA-based resolution workflows are supported through a full-featured ticketing module, with escalation rules, audit logs, and status tracking.

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Platform Highlights

- GIS-integrated design, monitoring, and reporting across the full lifecycle
- Real-time mobile app updates from field teams to centralized dashboards
- Role-based access control and stakeholder-specific views
- Predictive alerts for risks, delays, and task dependencies
- Multi-format reports, charts, and dashboards with export functionality
- Scalable, modular architecture ready for rapid implementation

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