

# CODERIZE TECHNOLOGIES PVT.LTD.

[www.coderize.in](http://www.coderize.in)

ISO 9001 : 2015  
Certificate No. 21EQG20



# SYNERGY

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# INTRODUCTION

## VISION

To accelerate using the power of Location intelligence and transinnovate every organization across the globe.



## MISSION

Leveraging GeoSpatial Intelligence to unlock opportunities, optimize operations, & create lasting impact.



## WHO WE ARE?

We are **Ex-ESRI** Experts with **15+** years of industry experience. We excel in Government and Private projects, leveraging our expertise in ESRI and ***open-source GIS*** technologies. We utilize geospatial data to enhance operations, drive growth, and improve decision-making. We offer custom software development, geospatial consulting, and system integration all with a customer-centric approach.

# MEET THE TEAM



## PRASHANT SINGH (CEO)

Heads the Corporate Strategy playing the leadership role in the business for developing long-range strategic plans & objectives by identifying strategic issues and opportunities that could influence business growth and profitability. He holds an M.Sc. in Geoinformatics from Symbiosis, Pune. Prashant has over 15 years of experience in Program Management and Client engagement. Over the years he has been instrumental in executing large-scale projects worth millions of dollars. He has worked with various International clients and CXO-level executives in the Indian Government.



## NILESH SHINOLIKAR (CTO)

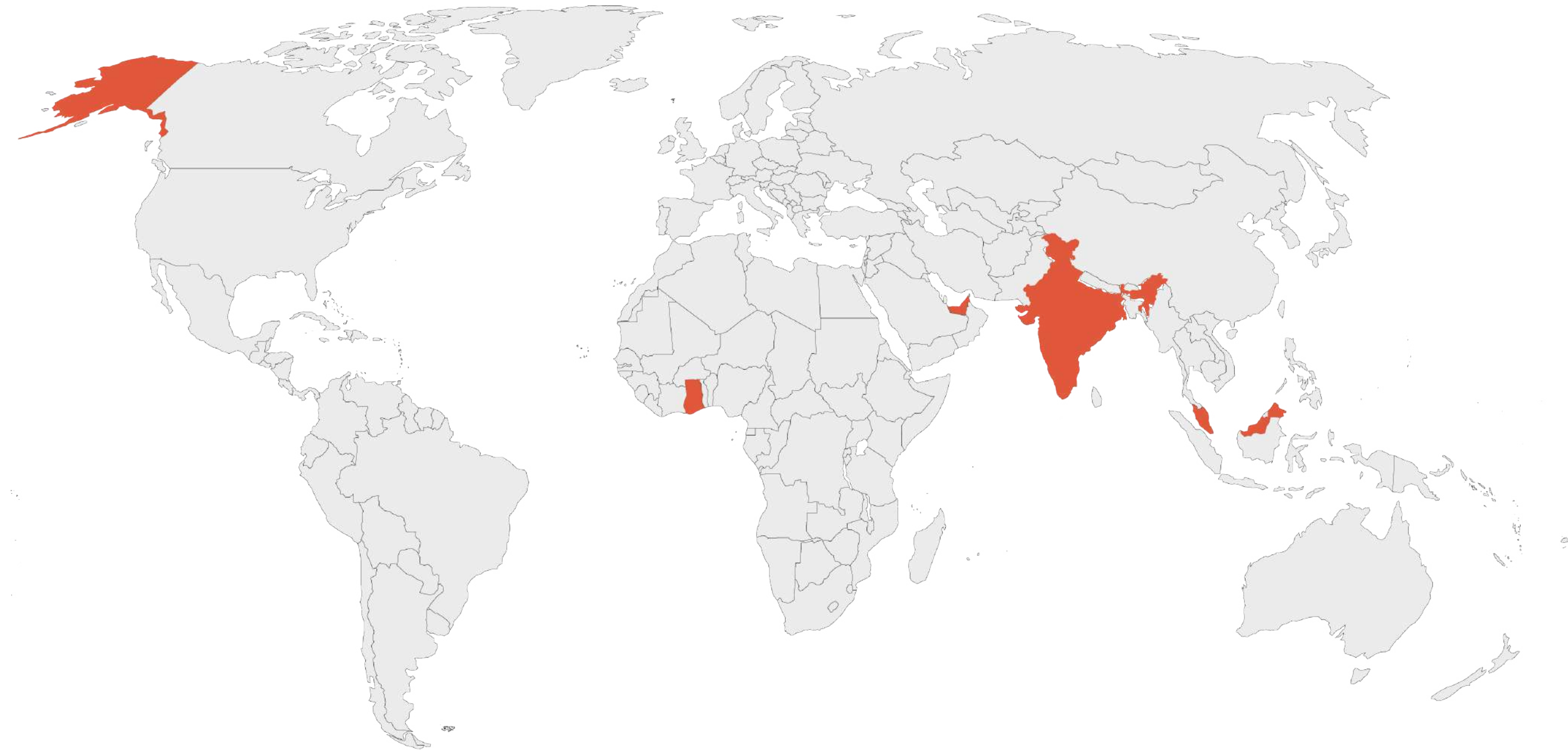
MCS and MBA professional possess nearly 14 years of experience at ESRI & other clients. With a decade-long association with esteemed institutions like Symbiosis Institute of Geoinformatics and Pune University, he has successfully managed extensive projects for State Government and international clients. Nilesh's expertise lies in designing large-scale solutions, leveraging his extensive enterprise and open-source GIS knowledge. Additionally, he has made a significant impact as a corporate trainer, empowering executives, managers, and leaders through his training programs in the Geospatial and IT industry.



## RITESH VERMA (MENTOR)

An Investor & entrepreneur, with over 20 years of experience in IT. He has held various important positions at companies like: CAPGEMINI-Sr. director (ex), ACCENTURE-V.P. in DCN for Technology (ex). As a mentor, he guides and helps develop contacts and nurture business relations

# AROUND THE GLOBE



**3M+**

## **BUILDINGS**

Delivered precise geospatial data, empowering end clients to enhance risk management, prevent fraud, and achieve substantial cost reductions for insurance carriers.

**500K+**

## **WATER CONSERVATION ASSETS**

Developed and Implemented a Geospatial solution to save Crores of rupees for the Government of Maharashtra

**100K+**

## **FOREST AREA (Acres)**

Utilized remote sensing techniques to detect encroachment areas, reducing the expenses associated with manual surveys.

**2500 +**

## **AREA DIGITIZED (Sq Kms)**

Supplied critical Geospatial data to mitigate flood risk

**500 +**

## **SATELLITE IMAGES**

Implemented an automated satellite imagery download and processing system, resulting in substantial cost savings exceeding thousands of dollars for our clients.

**100000+**  
Active Application  
Users

**100+**  
Contractors

**100+**  
Candidates  
Trained

# CLIENTS



Soil and Water Conservation  
Government of Maharashtra



Agriculture Department  
Government of Maharashtra



Forest Department  
Government of Maharashtra



# PROJECTS



# IMAGERY ARCHIVING & DISSEMINATION SYSTEM

## PROBLEM

To securely archive and efficiently disseminate the vast amount of current and historical imagery generated from multiple sensors and sources. These include Satellite Data, Aerial Survey Data, UAV-collected data, and scanned and geocoded maps.

## SOLUTION

Developed and deployed IADS solution helping users to automate processes such as downloading satellite imageries, processing user-specific requests for images, and estimating the cost for the images

## IMPACT

The implementation of IADS has significantly enhanced operational efficiency, reduced costs, and enhanced business productivity.



# WATER CONSERVATION ASSETS GEOPORTAL

## PROBLEM

Effective work/asset tracking and the need to mitigate work redundancy resulting in substantial cost overheads.

## SOLUTION

Our consulting intervention was aimed at addressing these issues by implementing digital transformation and the development of a comprehensive web platform that streamlined processes, optimized work management, reduced redundancy, and consequently led to extensive cost savings.

## IMPACT

A successful transformation with the transition from physical records to digital format facilitated centralization and accessibility. The development of an intuitive GIS-based web application facilitated data visualization, leading to informed decision-making and improved monitoring capabilities resulting in an astounding profit of 1000Cr.



# JAL JEEVAN MISSION GIS DASHBOARD

## PROBLEM

The absence of a comprehensive and real-time digital representation of water resources, water supply data, and water quality information, impeding effective decision-making.

## SOLUTION

Developed a Geoportal enabling comprehensive data visualization, accurate statistics, and insights on mission implementation, tracking of water supply infrastructure status, water quality, and household water connection coverage.

## IMPACT

Improved decision-making, efficient resource allocation, transparency, and accountability of stakeholders make Geoportal a powerful tool for monitoring and managing the progress of the mission. It has the potential to greatly improve the availability and quality of water supply in rural India.



# FLAME : A GIS DATA LIBRARY

## PROBLEM

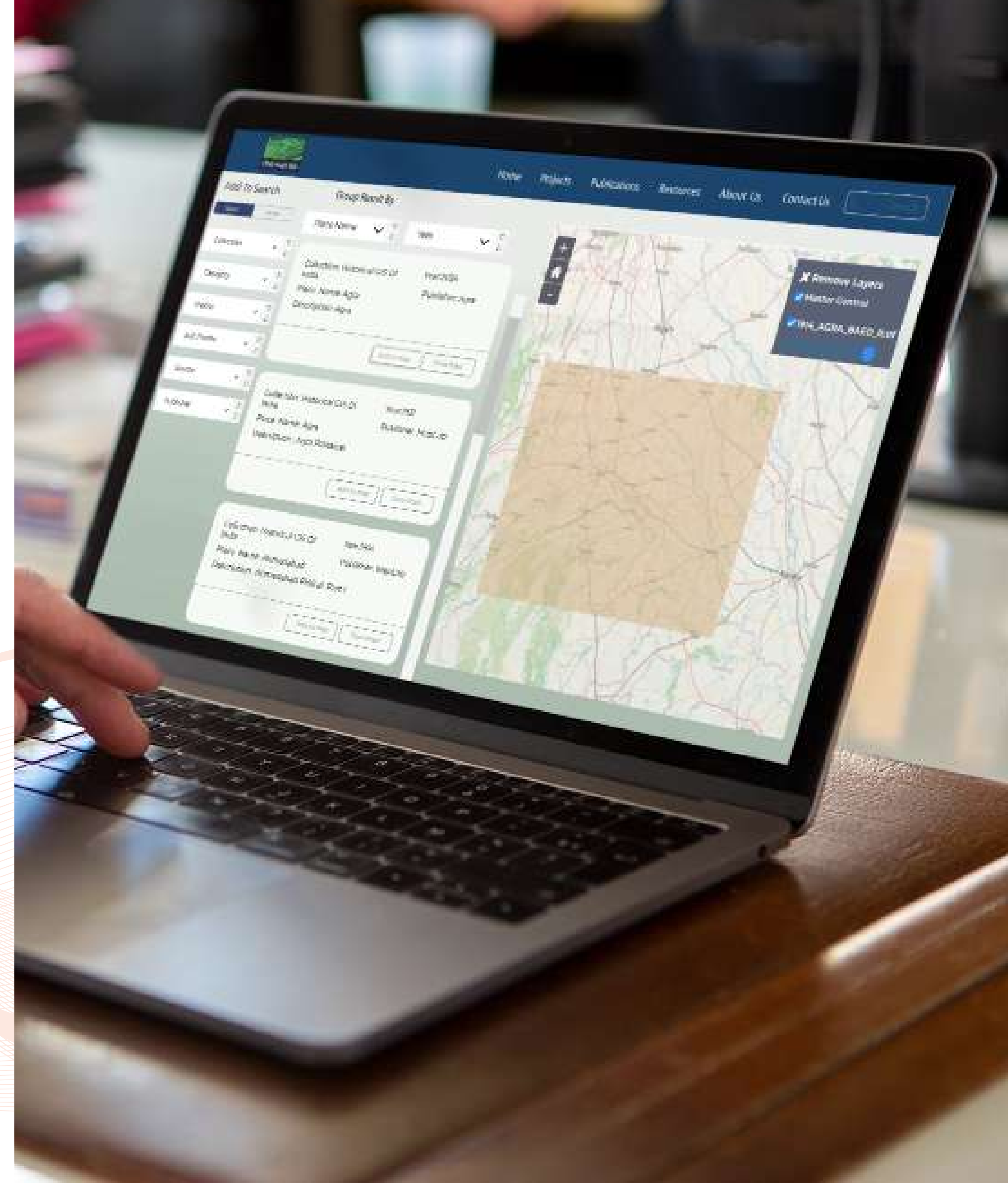
Issues encompass fragmented historical map integration, the absence of a cohesive GIS data platform, and the imperative to improve data accessibility and usability for diverse users.

## SOLUTION

A user-centric web platform (GIS Data Library) with intuitive navigation, robust search, and interactive visuals, including advanced data filtering and spatial analysis tools.

## IMPACT

Centralizing historical maps for quick access, the platform provides researchers with comprehensive datasets and robust search tools to uncover valuable insights. It aids in the understanding of historical trends and environmental dynamics. With advanced filters, data exploration becomes seamless, saving time and boosting research efficiency. The platform also fosters interdisciplinary collaboration and knowledge exchange among researchers, students, and stakeholders.



# AUTO-IMAGE PROCESSING SYSTEM

## INTRODUCTION

Manual satellite image acquisition and cloud cover removal for Palm Tree Estates Monitoring hampered efficiency and data accuracy.

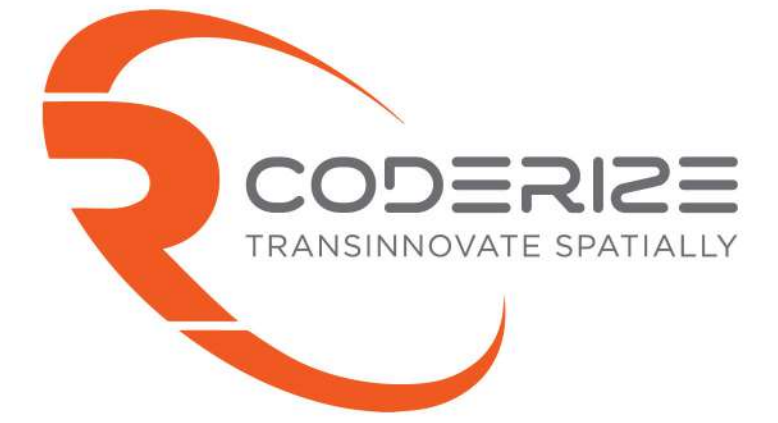
## SOLUTION

Developed an Automated Monitoring System to download satellite images, enhance them geometrically, and radiometrically and remove cloud cover. The system has been integrated into the Live Monitoring Web Application.

## IMPACT

The application has yielded impressive outcomes, saving thousands of man-hours monthly and greatly enhancing operational efficiency. Additionally, the strategic use of cost-effective open-source software not only reduced costs but also enhanced overall business value





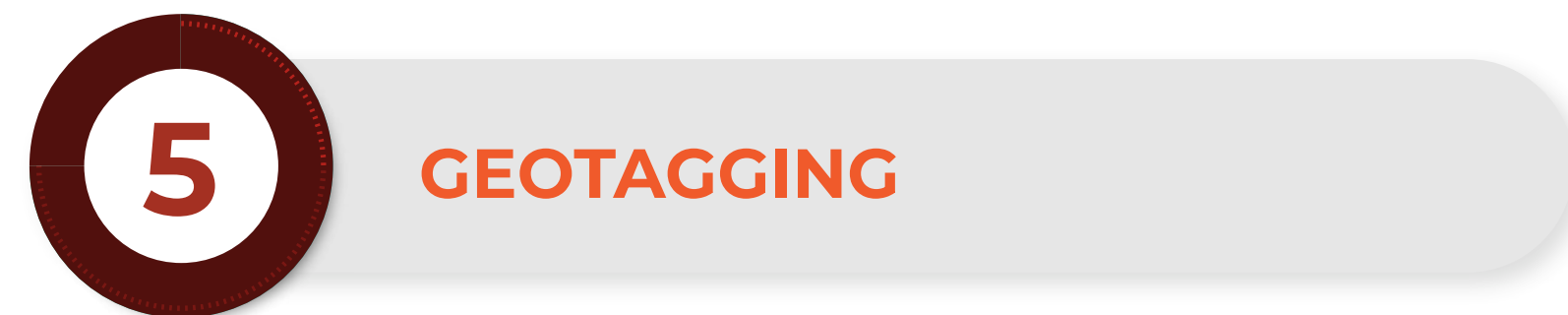
# PRODUCTS



# GEOSET COLLECTOR

A mobile app for accurate and efficient spatial data collection in the fields.

## FEATURES



# GEOSET VIEWER

A powerful web app providing real-time operational insights into spatial data collection.

## FEATURES

- 1 SPATIAL DATA EDITING**
- 2 GEOFENCING & APP INTEGRATION**
- 3 MAPPING & VISUALIZATION**
- 4 SEEMLESS INTEGRATION**
- 5 MONITORING AND GEO-ANALYTICS**
- 6 EXPORT DATA**



# GEOFLOW CREATOR

Cutting edge mobile application revolutionizing data creation and management.

## FEATURES

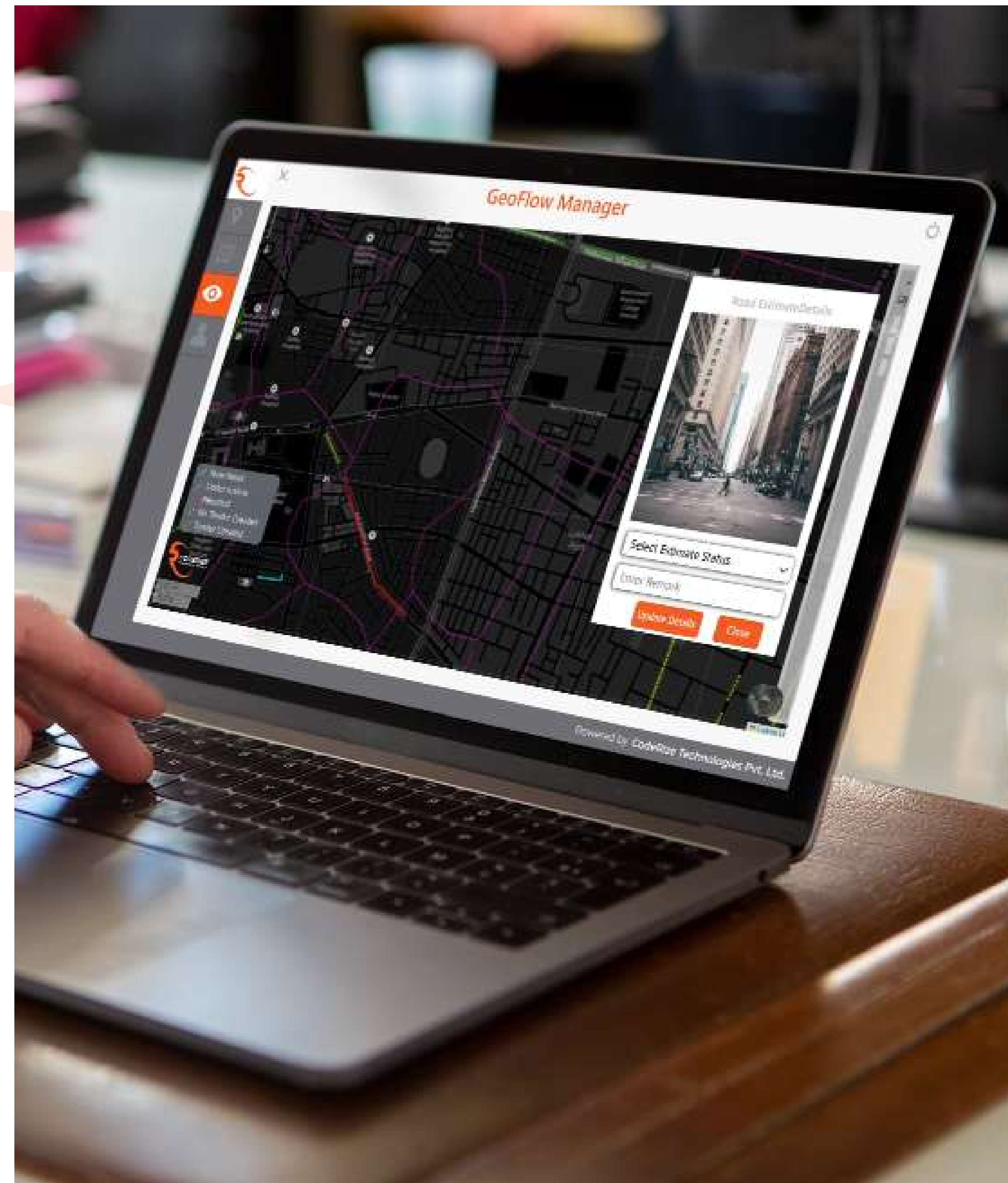
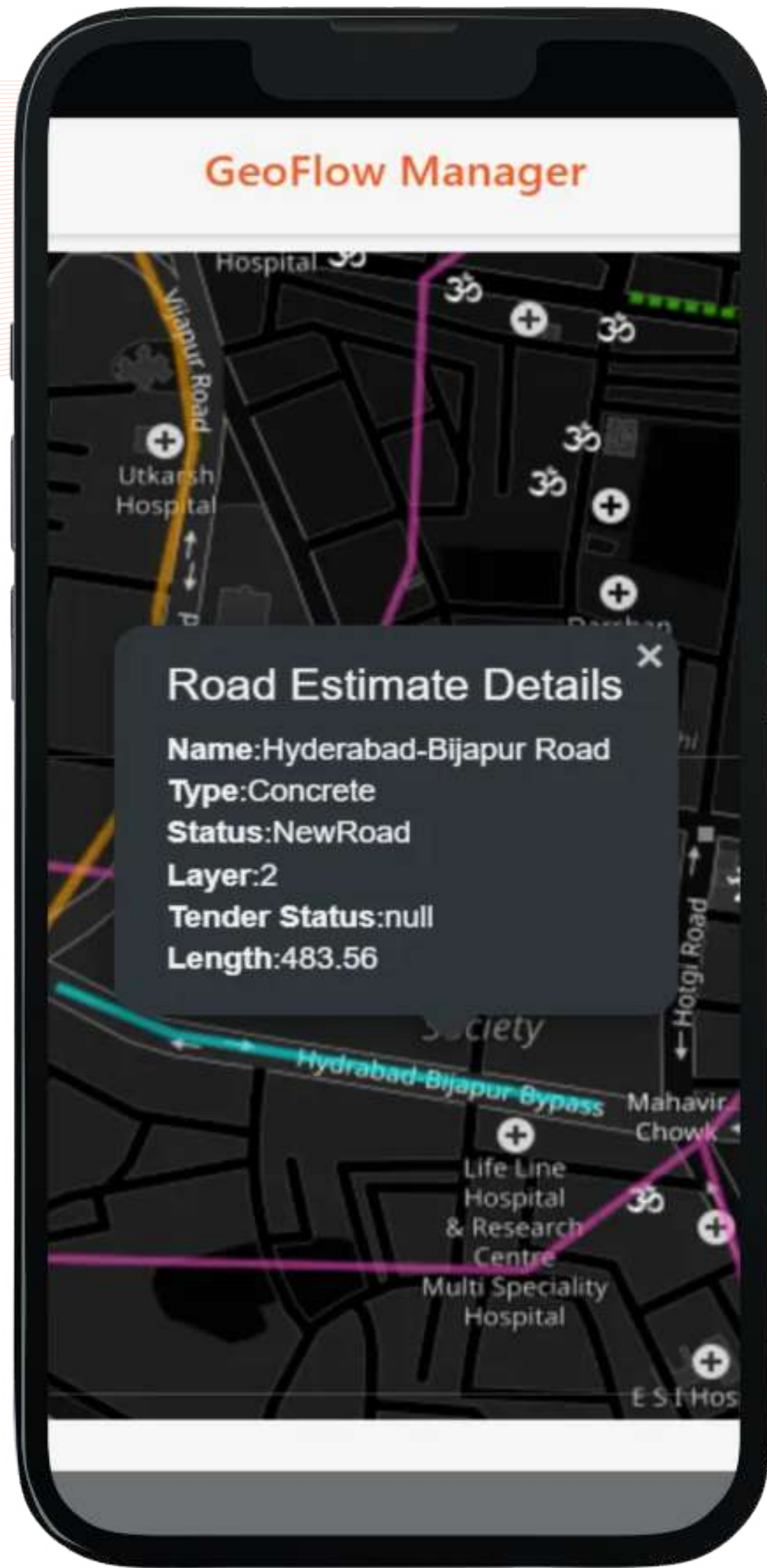
- 1** GEOFENCING BASED DATA COLLECTION
- 2** GPS TRACKING & LOCATION TAGGING
- 3** OFFLINE DATA COLLECTION & SYNCHRONIZATION
- 4** REAL TIME DATA COLLECTION & ANALYSIS
- 5** COLLABORATION & DATA SHARING FEATURES

# GEOFLOW AUDITOR

Robust web dashboard that is integrated with Geoflow Creator to enhance auditing processes.

## FEATURES

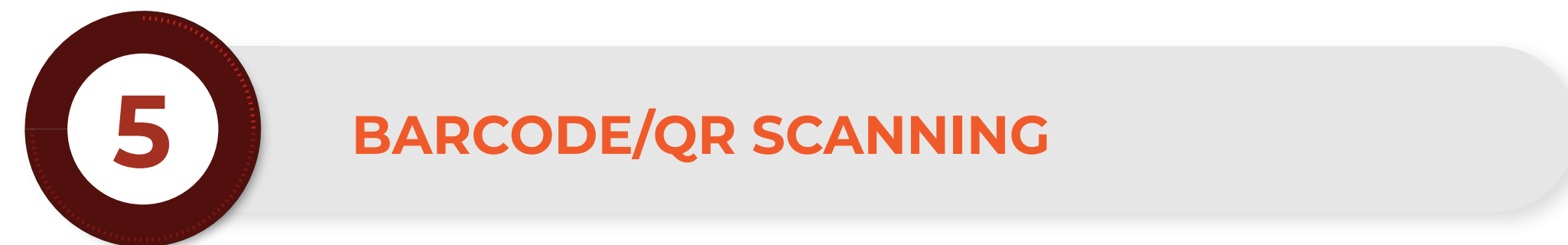
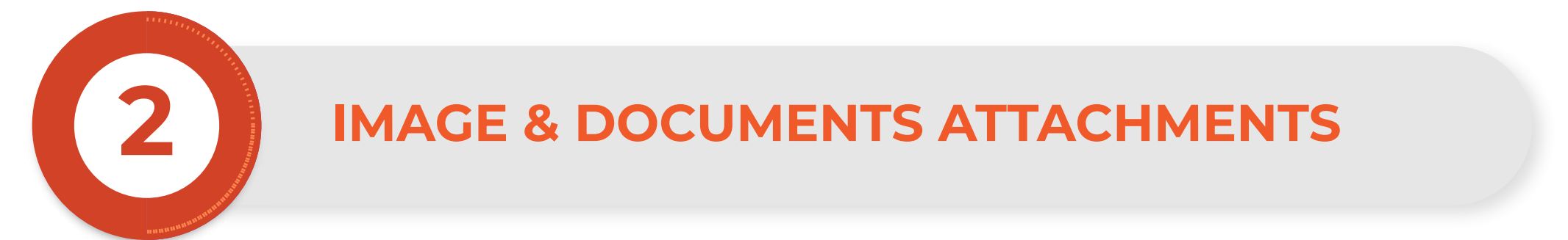
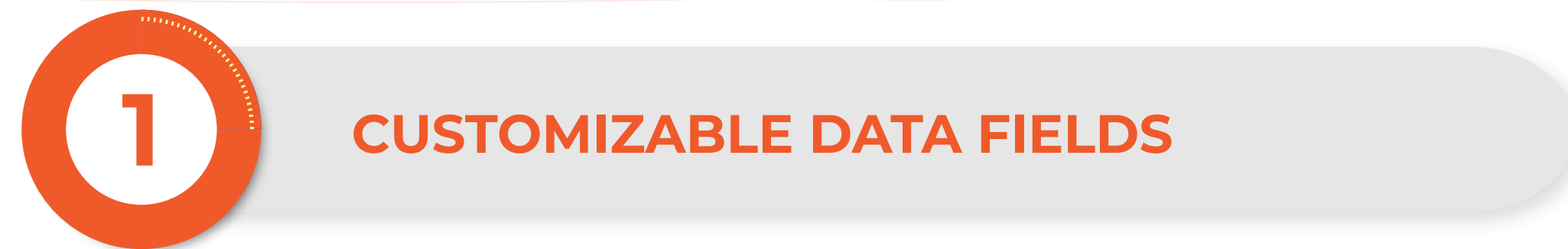
- 1** ROLE-BASED USER ACCESS & PERMISSIONS
- 2** PERFORMANCE METRIX & KPI TRACKING
- 3** DATA VALIDATION & ERROR CHECKING
- 4** REPORTING & VISUALIZATION TOOLS
- 5** TASK ASSIGNMENT & REASSIGNMENT



# GEOSCANNER-MOBILE APP

A mobile application which captures spatial data through scanning QR code making it a real-time transition.

## FEATURES



# GEOSCAN REVIEWER-WEB APP

A Geo-enabled web dashboard for real-time program and event monitoring.

## FEATURES

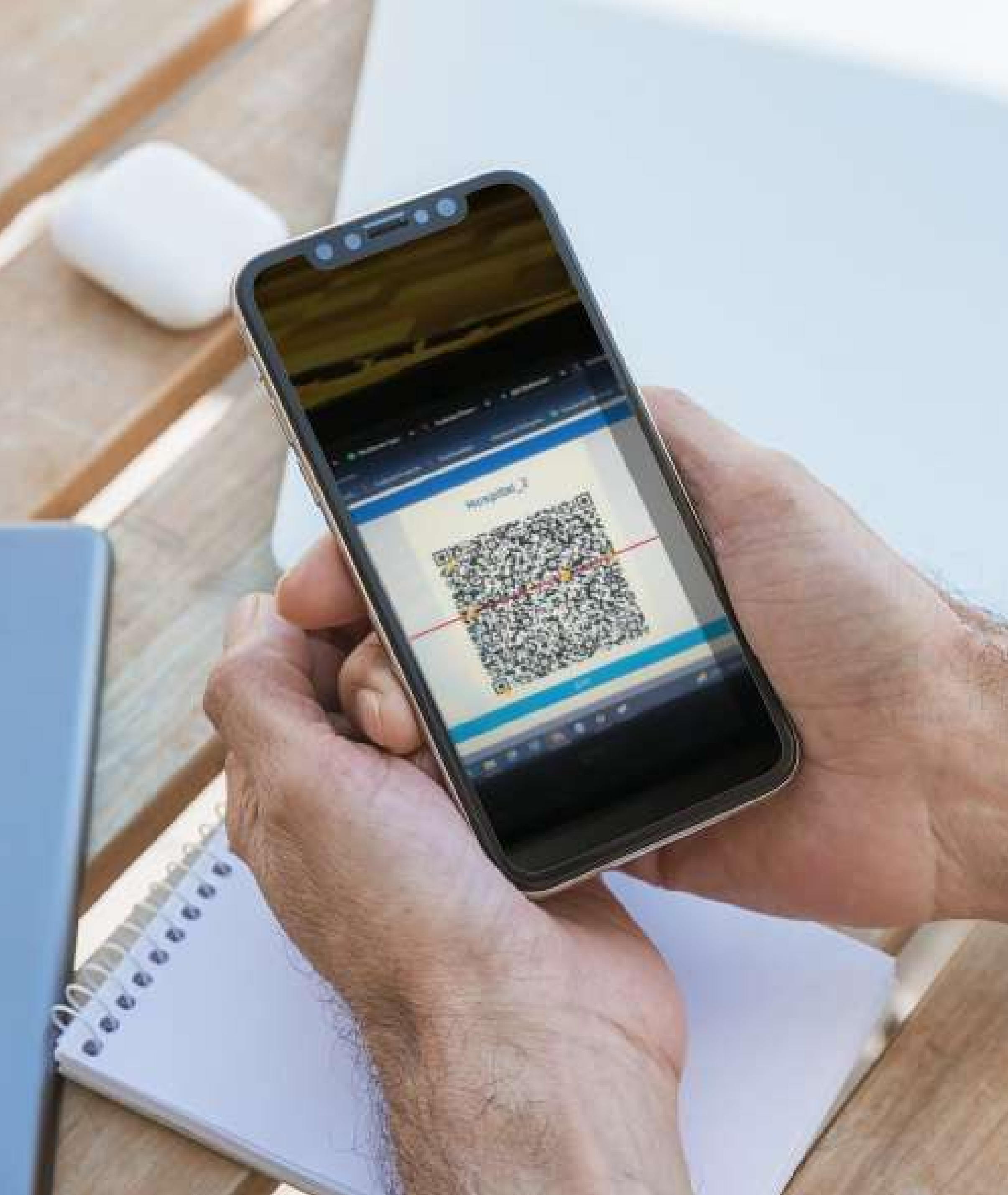
**1** COLLABORATION & MANAGEMENT FEATURES

**2** DATA SYNCHRONIZATION

**3** FIXED & MOVING PRODUCT MODE SUPPORT

**4** DATA VISUALIZATION & MAPPING

**5** DATA IMPORT/EXPORT FUNCTIONALITY



# SERVICES



# GIS DEVELOPMENT & LOCATION INTELLIGENCE

Unlock valuable patterns and trends for informed decision-making with our Geospatial Intelligence and Development Services. We specialize in creating customized geospatial applications and workflows that enhance operational efficiency and strategic planning.



GIS Mapping

Geodata Management & Analysis

3D GIS & BIM

GIS Development & Customization

Application Development

Geospatial Advisory & Consultancy

Geospatial CareSupport Services

# GEOSPATIAL & SOFTWARE ADVISORY

We provide expert GIS advisory and consultancy services, covering everything from technology selection and integration to data governance and security. Our guidance helps organizations leverage geospatial technology to optimize performance and make informed business decisions.

Gap Analysis

Technology Selection  
& Implementation

UI/UX Design

Architecture Design

Integration Strategies

Support Planning

Project Management  
& Planning

Performance  
Optimization

Business Process  
Automation

Data Migration and  
Conversion

Change Management  
& Adoption

Security and Privacy  
Consulting

Data Governance  
& standards

# GEOSPATIAL TECHNICAL SUPPORT

Our Geospatial Care Support Service offers expert assistance for all your geospatial needs, from technical troubleshooting to data management. With personalized care, we ensure smooth system operations and help you navigate geospatial technology with confidence.



Server Support

Application Support

Database Management

Scripting & Automation

Development Support

# GEOSPATIAL VECTOR DATA PROFICIENCIES

## GIS Mapping

Record Precise Geo coordinates  
Capture Audio-Visual Evidence  
Geo Tagged Time-Stamped Images  
Tailored Data Collection Forms

## Geodata Management & Analysis

### Create & Edit Data

Create/Edit GIS Data  
Navigation Controls  
Data Information Popup

### Data Representation

Custom Styling  
Legend & Labels  
Graphical Representation

### Data Processing

Data Cleaning & Mapping

Export/Import Data  
Data Storage & Retrieval  
Restricting Data Access  
Download Data  
Geofencing

### Analyzing Data

Spatial Analysis  
Geospatial Modelling  
Spatial Query  
Geostatistics & Reports  
Geoprocessing  
Spatial interpolations  
Hotspot Analysis

### Geospatial Data Sharing & Distribution

Publish & Serve Geospatial Data  
Data Editing  
Data Filtering  
Data Security  
Data Monitoring

Data Integration  
Data Backup & Restore  
Custom Styling

## 3D GIS & BIM

3D Data Visualization  
Terrain Modelling  
3D Building Models  
Data Integration  
3D Analysis  
Data Sharing

## GIS Development & Customization

Custom tool development  
Plugin Development  
Automation Scripts  
Custom GIS Extensions  
System Updates & Notification

# GEOSPATIAL RASTER DATA PROFICIENCIES

## Geodata Management & Analysis

### Image Acquisition & Storage

- Image Detection
- Image Compression
- Image Conversion
- Image Ingestion
- Image Indexing
- Efficient Retrieval

### Image Ingestion & Pre-Processing

- Upload Image
- Image Pre-processing
- Improve Image Quality

### Image Data Extraction

- Image Segmentation
- Feature Detection & Recognition
- Feature Extraction

- Resampling & Interpolation
- Image Interpretation

### Image Correction & Enhancement

- Cloud cover Removal
- Color Corrections
- Image Enhancement
- Image Registration
- Ortho-rectification
- Geometric Corrections
- Radiometric corrections

### Image Analysis & Processing

- Image Classification
- Accuracy Assessment
- Post Classification Processing
- Calculate Vegetation Indices
- Change Detection
- Temporal Analysis
- Image Mosaic

## Lidar Data Processing

- Raw Data Processing
- Data Filtering & Cleaning
- Feature Extraction
- DEM Generation
- 3D Visualization & Analysis
- Change Detection
- Integration with other data sources

## GIS Development & Customization

- Automate the Data Acquisition
- Automate Download Process
- Custom Raster Functions
- Plugin/Extension Development
- Custom Rendering & Visualization
- Custom Integration

# DRONE SERVICES

Our team of expert drone pilots and GIS professionals, armed with cutting-edge software knowledge, ensures that client projects meet industry standards, leading to optimal outcomes and satisfied customers.

Agriculture

Construction

Mining

Oil & Gas

Government &  
Smart Cities

Disaster  
Management

Telecommunication

1

**SURVEY & MAPPING**

2

**INDUSTRIAL ENTERPRISE SOLUTION**

3

**DRONE INFRASTRUCTURE & LOGISTICS**

4

**UAV DATA PROCESSING**

5

**INSPECTION & SURVEILLANCE**

# APPLICATION DEVELOPMENT

We offer comprehensive software development services, creating innovative mobile and web applications tailored to client needs. Our skilled team utilizes the latest technologies and agile methodologies to deliver high-quality, scalable solutions on time and within budget.



Mobile Application  
Development

Web Application  
Development

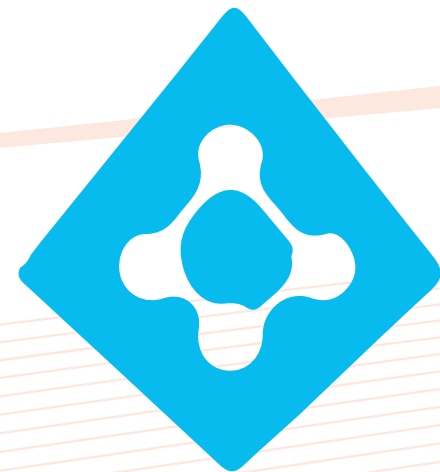
Tool Development

Extension Development

Add-in Development

# AZURE CONSULTING SERVICES

We empower organizations with Azure solutions, driving digital transformation through industry -standard, cloud-native applications.



Azure Kubernetes Services (AKS)



**CLOUD & INFRASTRUCTURE MIGRATION**



**APPLICATION MODERNIZATION**



**MICROSERVICES KUBERNETES**



**DEVOP, SECURITY & OPERATIONS**

# INDUSTRIES



# INDUSTRIES



Government and  
Public Administration



Environment  
and Ecosystem



Urban Planning &  
Infrastructure  
Management



Transportation  
and Logistics



Real Estate and  
Property  
Management



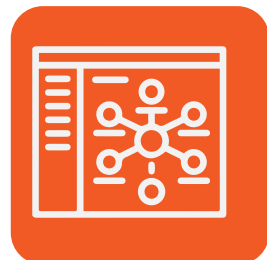
Financial  
Services



Insurance and  
Risk Assessment



Marketing  
and Advertising



Utilities and  
Networks



Education and  
Academic Research



Tourism and  
Hospitality



Geography and  
Mapping Services



Health and  
Human Services



Manufacturing &  
Industrial  
Operations



Entertainment  
and Sports



Public  
Safety



Natural Resources  
and Energy



National  
Government  
or Agencies

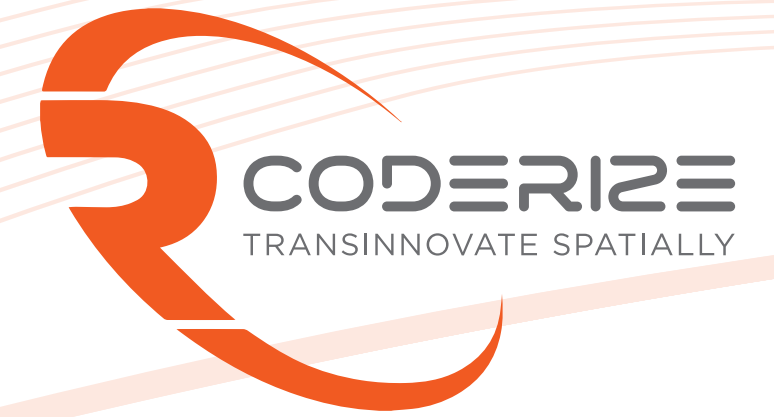


Consulting and  
Professional  
Services



FMCG &  
Retail

# THANK YOU



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