



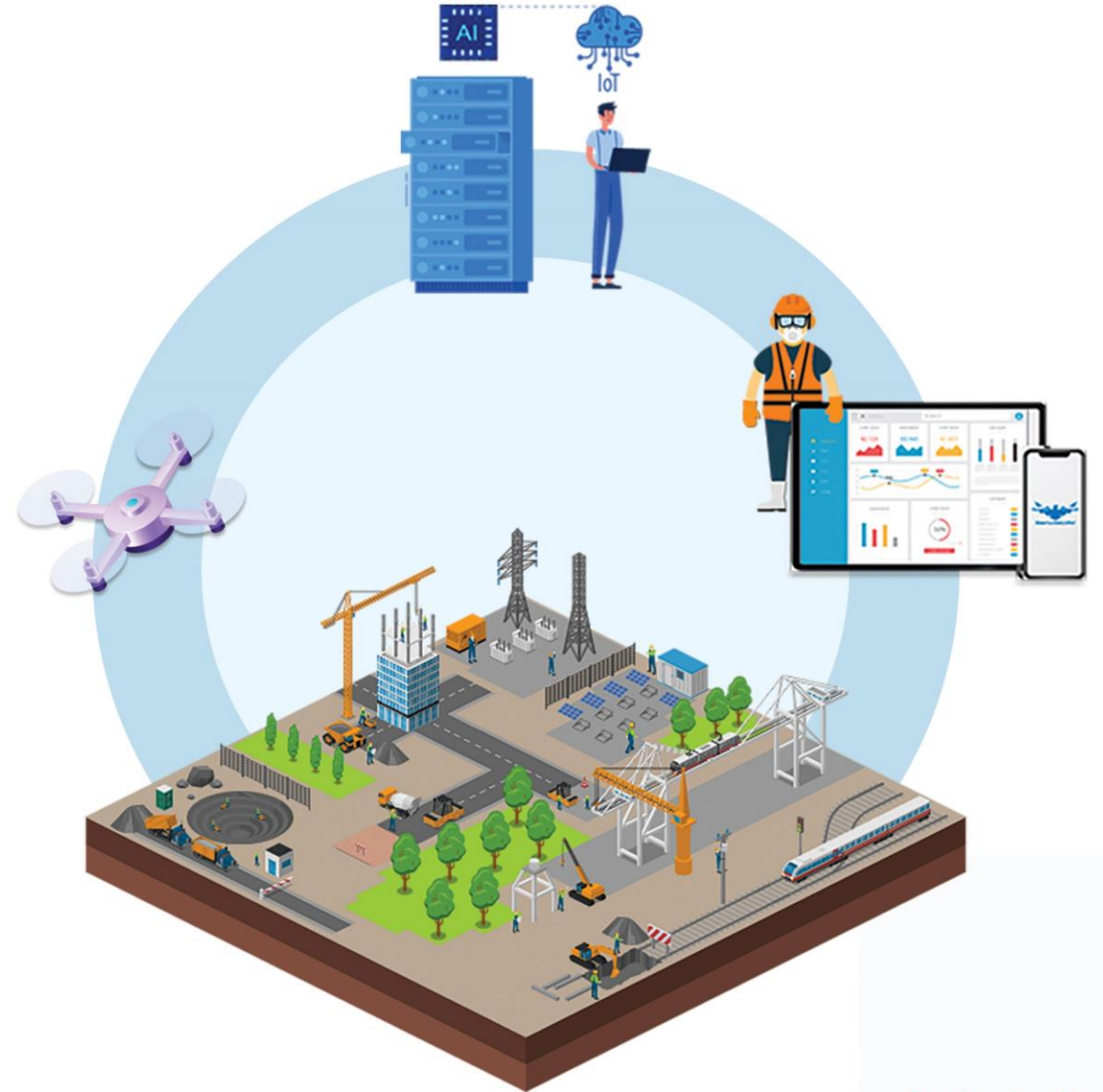
**GarudaUAV**  
A Dorf Ketal - Trentar Company



# STATE-OF-THE-ART AERIAL SERVICES

for

## Water Resource Management



# About Us



## Background

- Started journey in 2017, from Noida
- Acquired by Dorf Ketal-Trentar in 2021

## Trentar – A group by Dorf Ketal



- Established in 1992 in Mumbai.
- Turnover of 4000+ crore INR
- A specialty chemicals manufacturer and services provider
- Offices globally in 9 countries including USA, Brazil, China, Singapore, Netherland, Bahrain, UAE, etc.



## Capabilities

- Surveying
- Mapping
- Inspection
- Progress Monitoring
- Project Management



## Accreditation

- Recognized by DIPP, GoI as innovative start up.
- Completed 600+ successful projects.
- 150+ satisfied customers

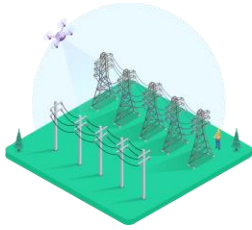


## Our Offices

- We have offices in:
- Noida (HQ)
- Mumbai
- Hyderabad
- Bangalore

# OUR SECTORS

**Powerline  
Transmission**



**Powerline  
Distribution**



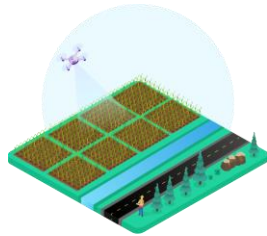
**Solar  
Energy**



**Thermal  
Power  
Plant**



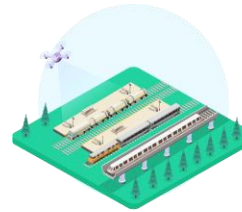
**Water Resources**



**Road  
&  
Highways**



**Rail & Metro**



**Mining**



**Forest**



**Disaster  
Management**



**Urban  
Development**



**Telecom**



**General  
Insurance**



**Manufacturing  
Plants**



**Oil & Gas**

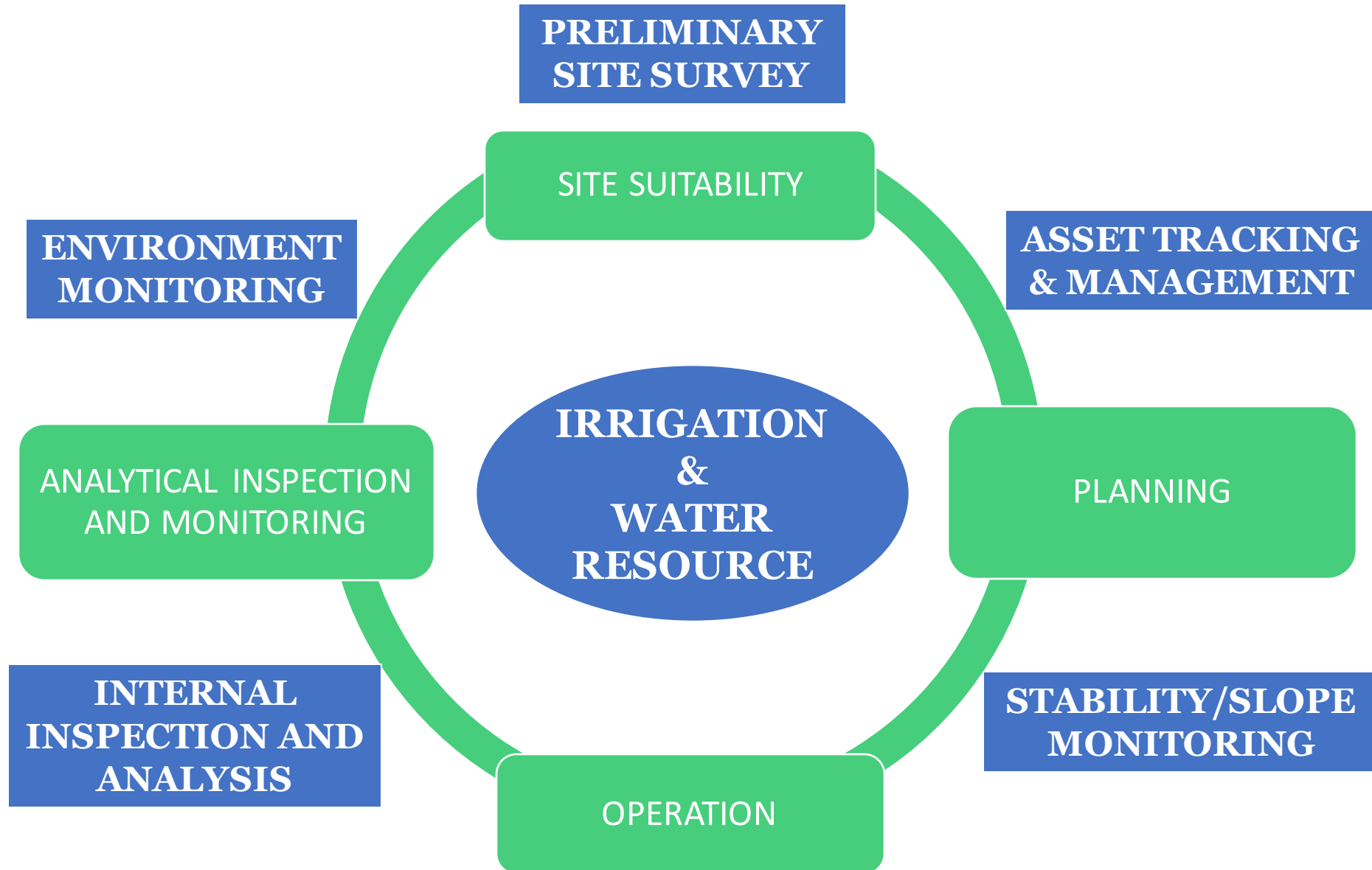


**BlueHawk**  
Enterprise Drone Platform

# IRRIGATION

- Topographical Survey
- Canal Command Area Mapping
- Irrigational Asset Inspection – internal and external
- Thermographic Detection of Water Leakage
- Water Spread Area Analysis and Moisture Analysis
- New Route Alignment Survey
- Slope Management
- DPR designing
- Flood Management
- Construction Progress Monitoring



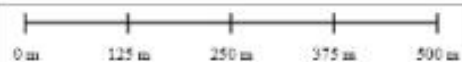


# Command Area Survey: VIDEO



# Watershed Area Management: VIDEO

TOPOGRAPHICAL DRAWING



# Dam Asset Inspection: FULL VIDEO



Platform Inspection  
DAM

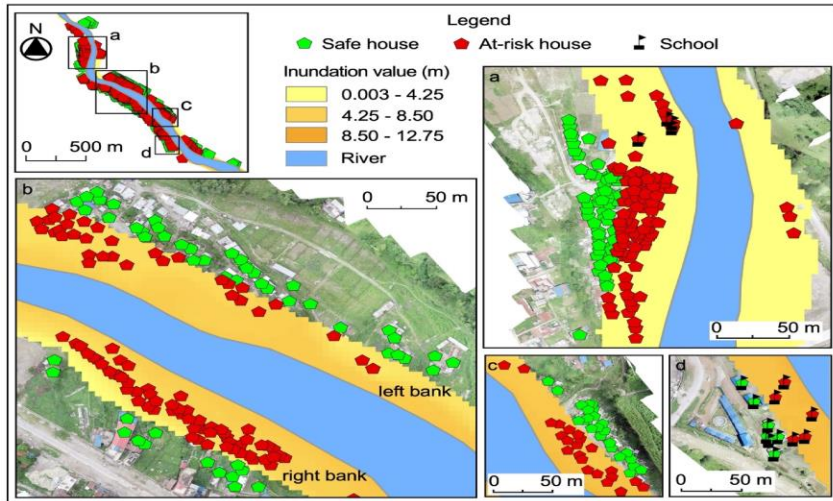


# Solution Modelling: VIDEO



**Koshi Floods**

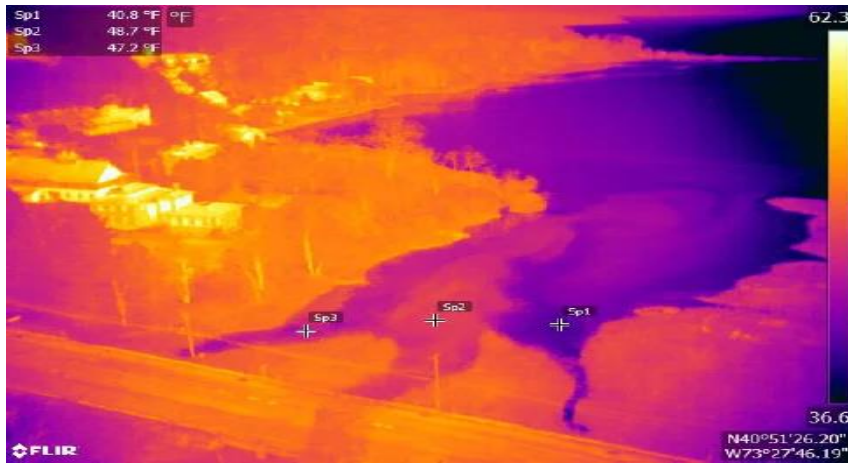
# Our Services



**Solution Modelling**



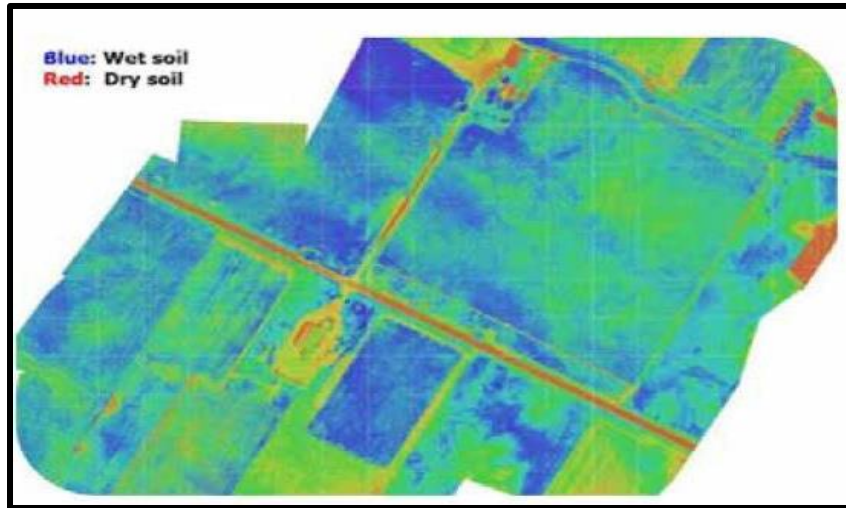
**Watershed Mapping**



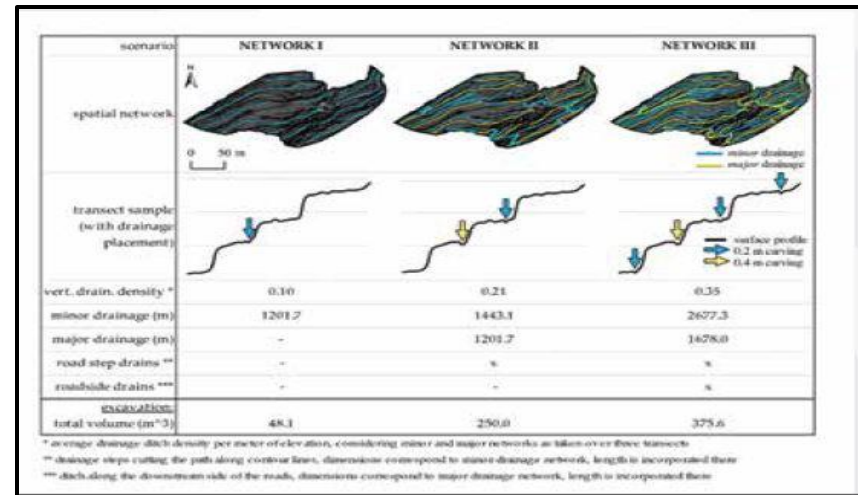
**Water Leakage Detection**



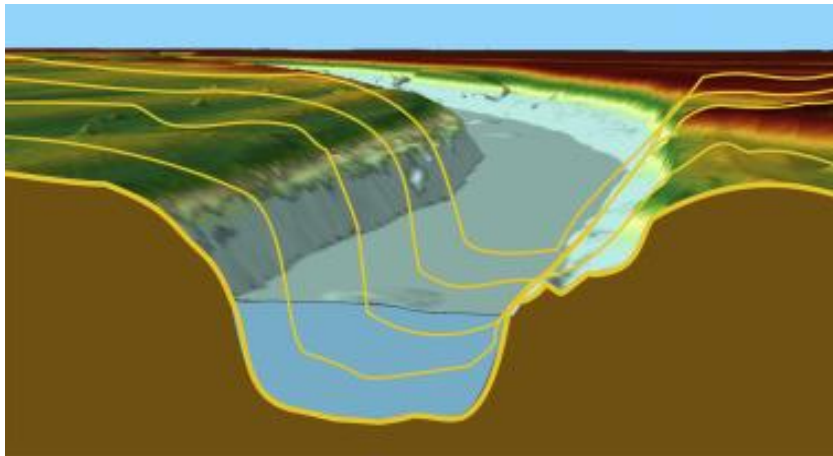
**Canal Internal Inspection**



**Canal Moisture Analysis**



**Water Spread Analysis**



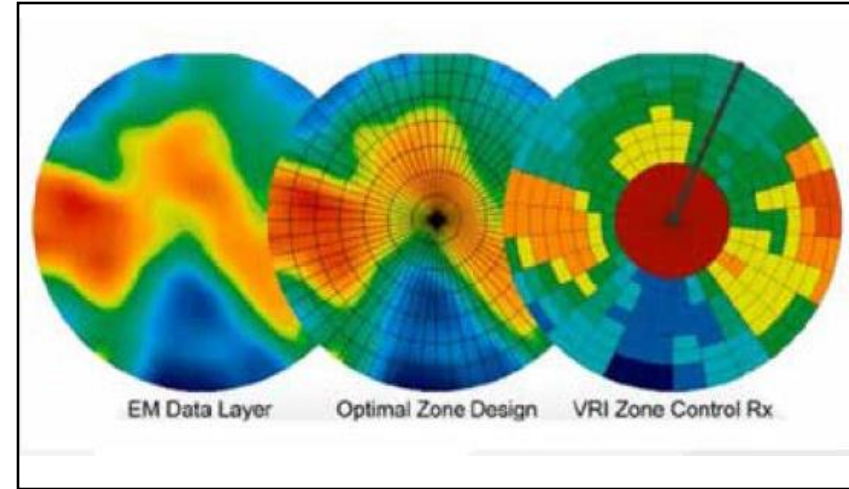
**Flood Inundation Model**



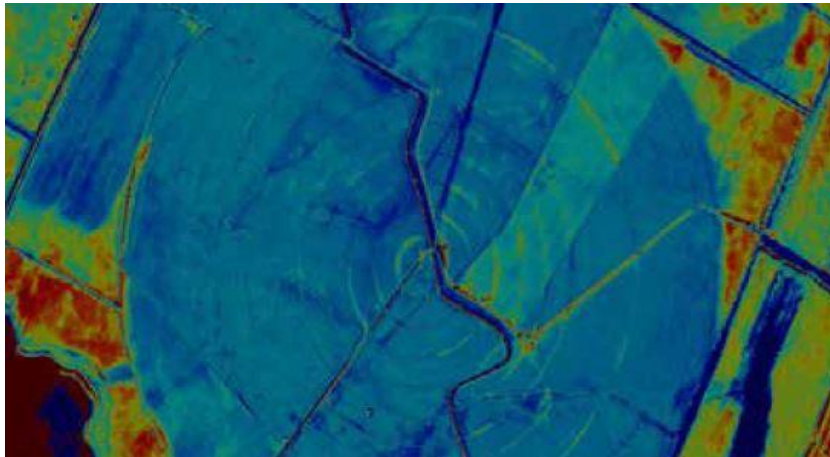
**Canal Route Alignment Survey**



**Canal Construction Modelling**



**Irrigation Zoning**

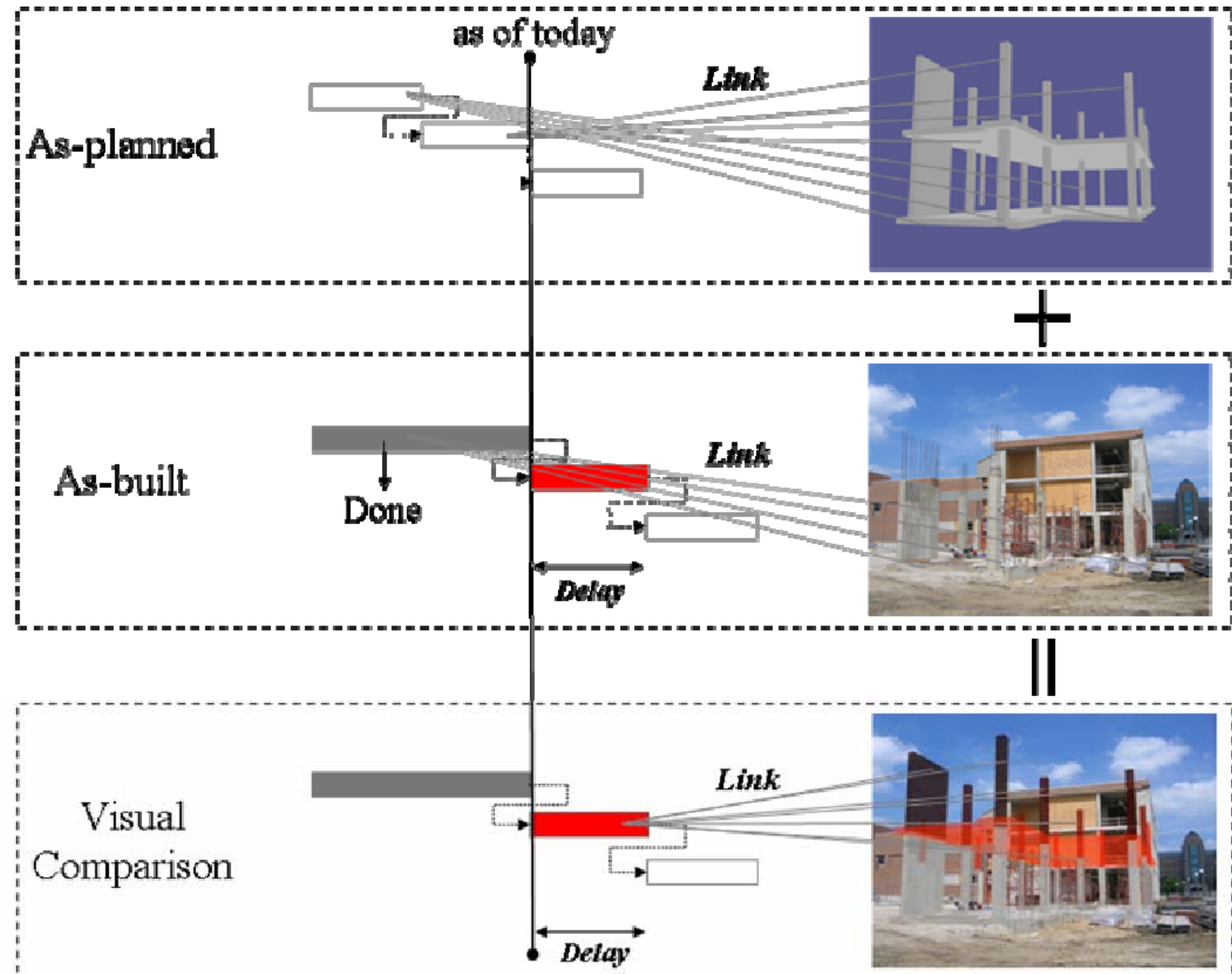


**Soil Moisture Analysis**



**Watershed Mapping**

# Project Progress Monitoring



# DAM AND HYDRO POWER PLANT

We offer drone-based dam surveys, aerial hydro power project inspection, topographical surveys, change detection, dam settlement analysis, siltation analysis and slope assessment. We also deploy drones for real-time dam monitoring, visual settlement reporting, slope stabilization studies, flood modelling, change detection and automated maintenance and inspections.

## Our Services

### Survey

- Topographical Survey
- Bathymetric Survey

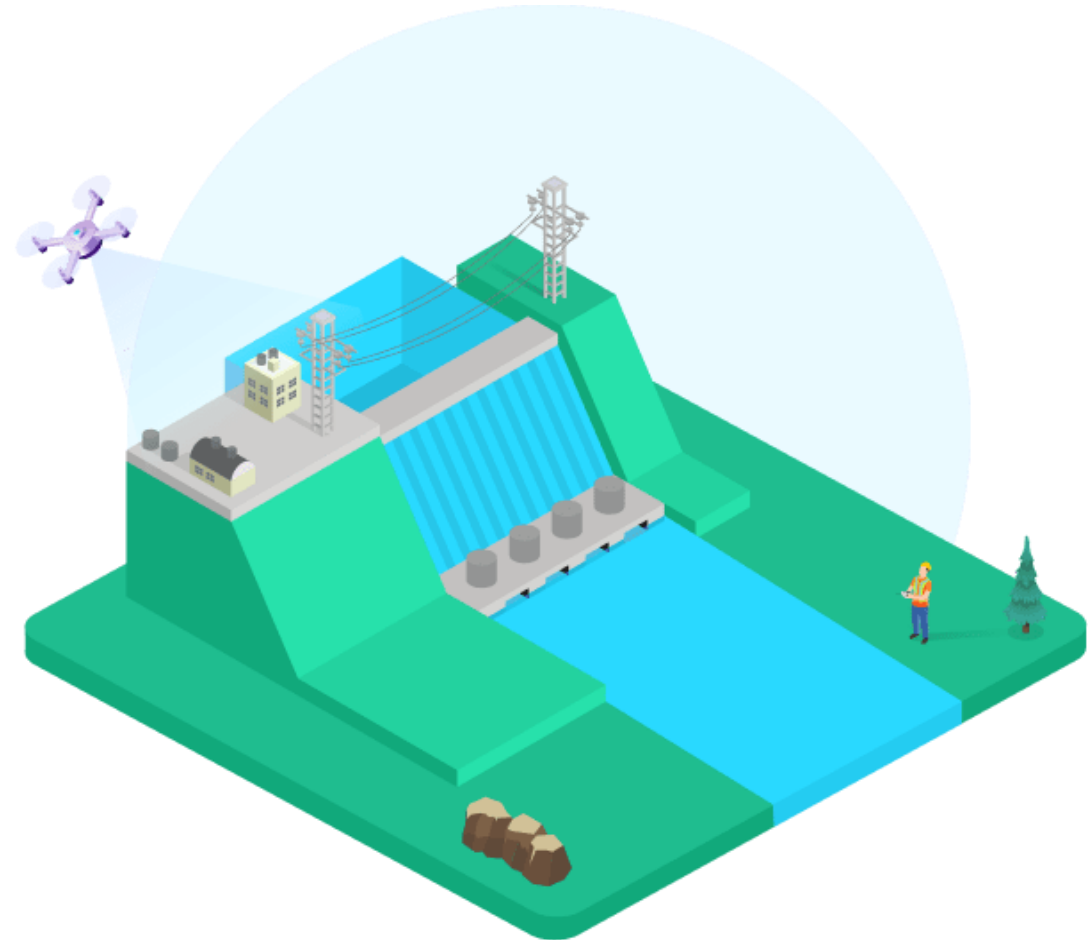
### Inspection / Analysis

- Siltation Analysis
- Encroachment Analysis
- Dam Embankment Settlement Analysis
- Spillway Analysis
- Flood Modelling Analysis

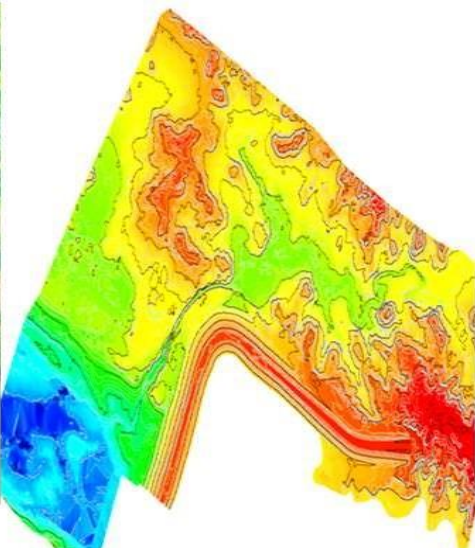
- Aging Structure Assessment
- Bridge and Viaduct Inspection
- Erosion Assessment
- Catchment Area Analysis

### Monitoring

- Slope monitoring/ Landslide Monitoring



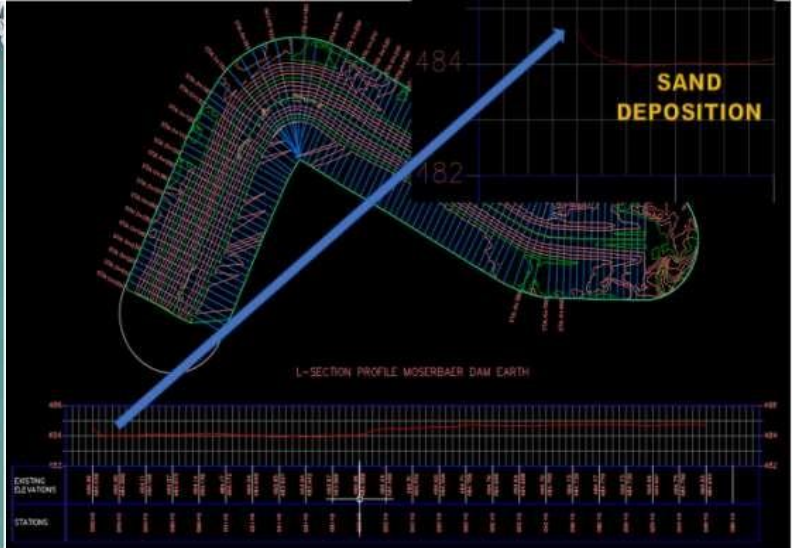
# OUR SERVICES



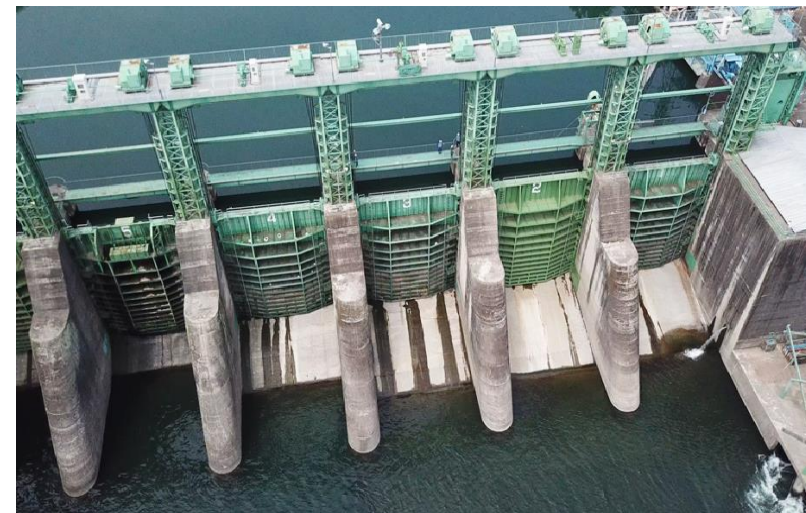
Topographical Survey



Crack / Spillway Analysis



Dam Embankment Settlement Analysis



Dam infrastructural health Assessment



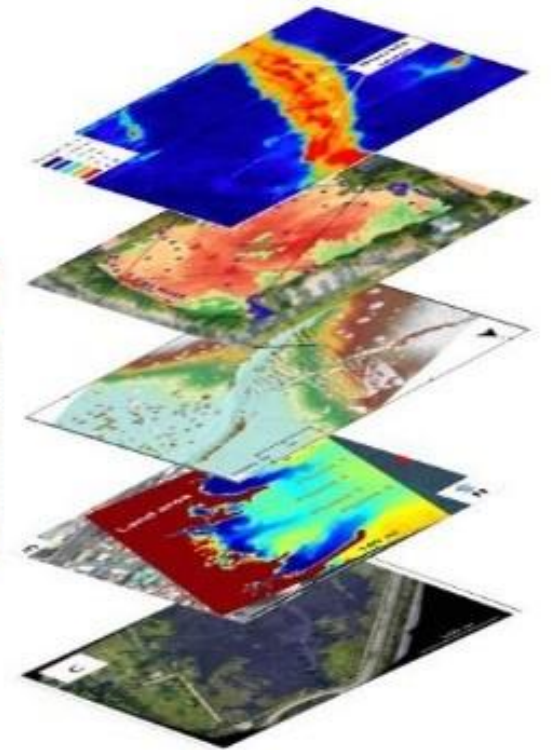
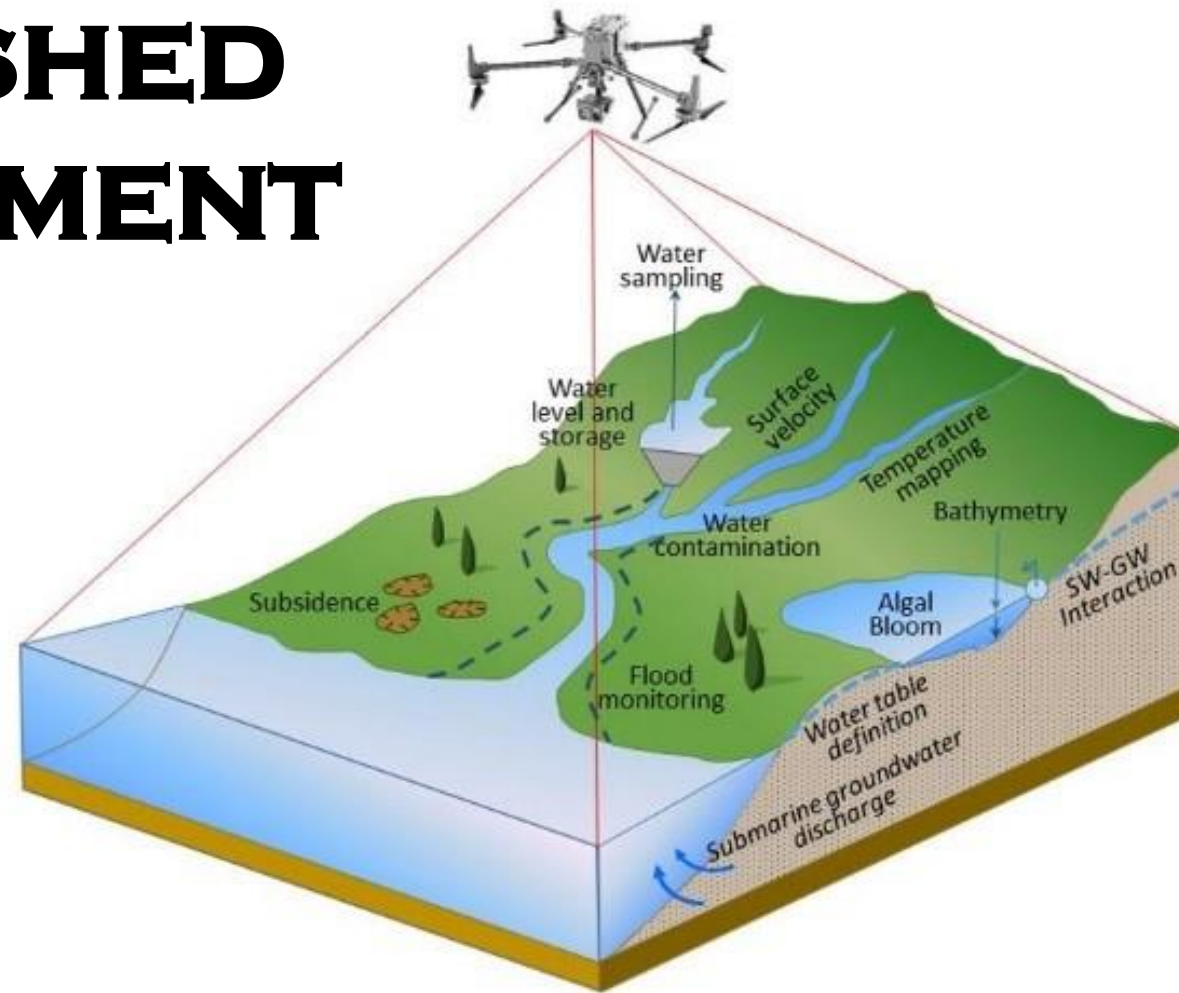
Bathymetric Survey



Aerial Videography

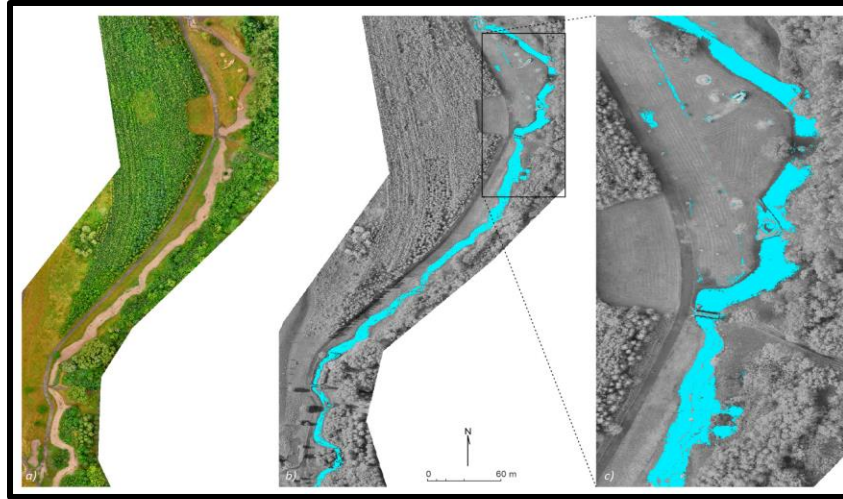


# WATERSHED MANAGEMENT

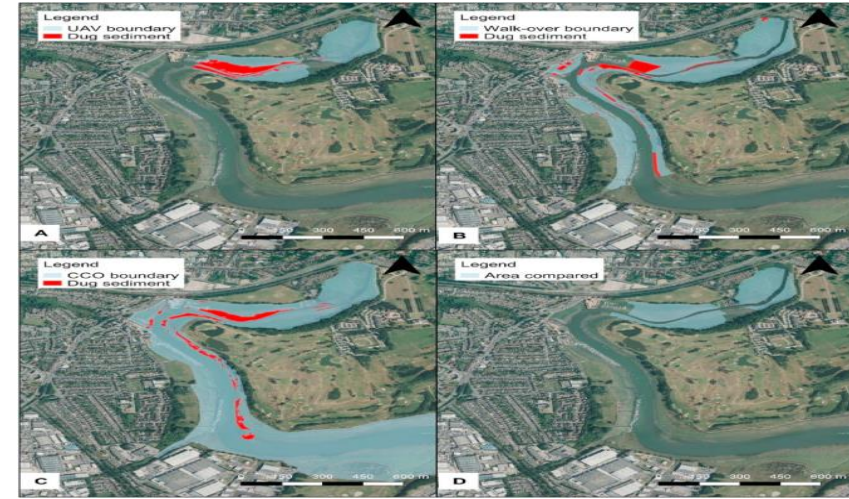




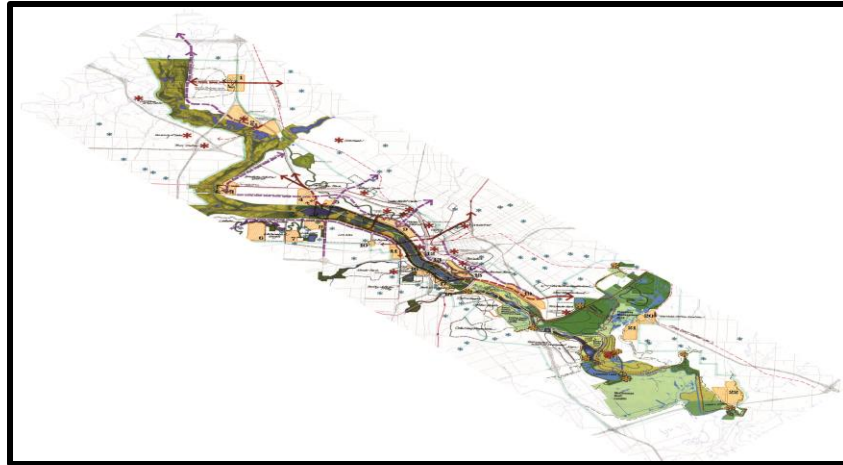
# Our Services



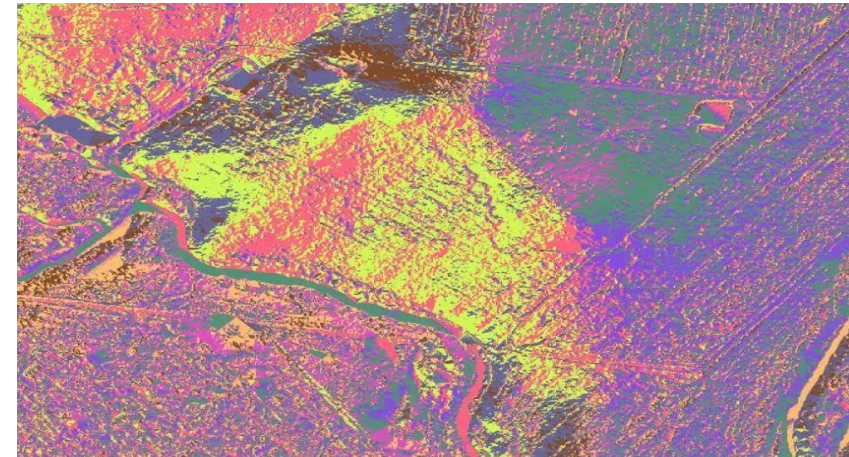
**River Restoration Monitoring**



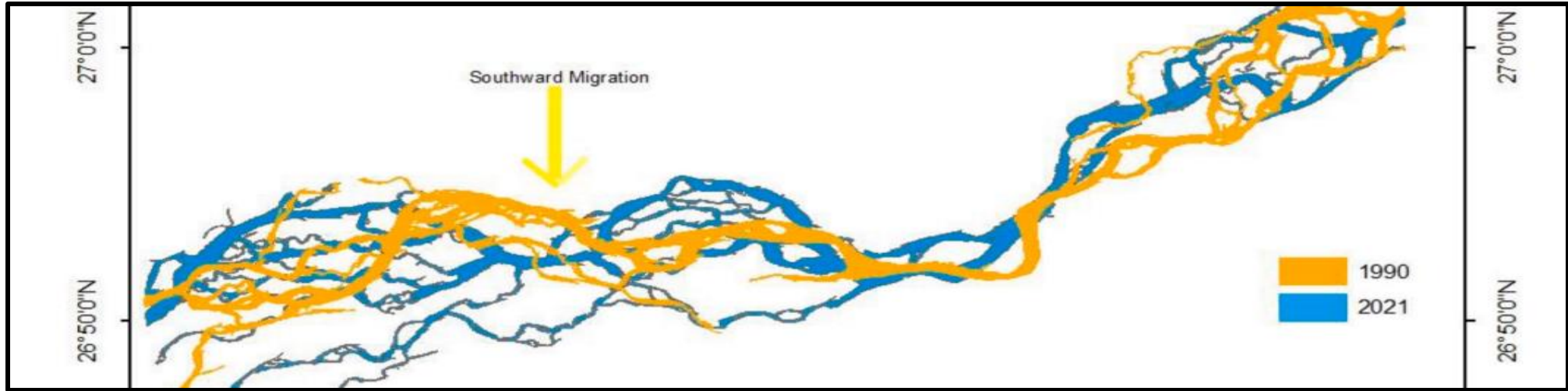
**Riverine Sedimentation Inspection**



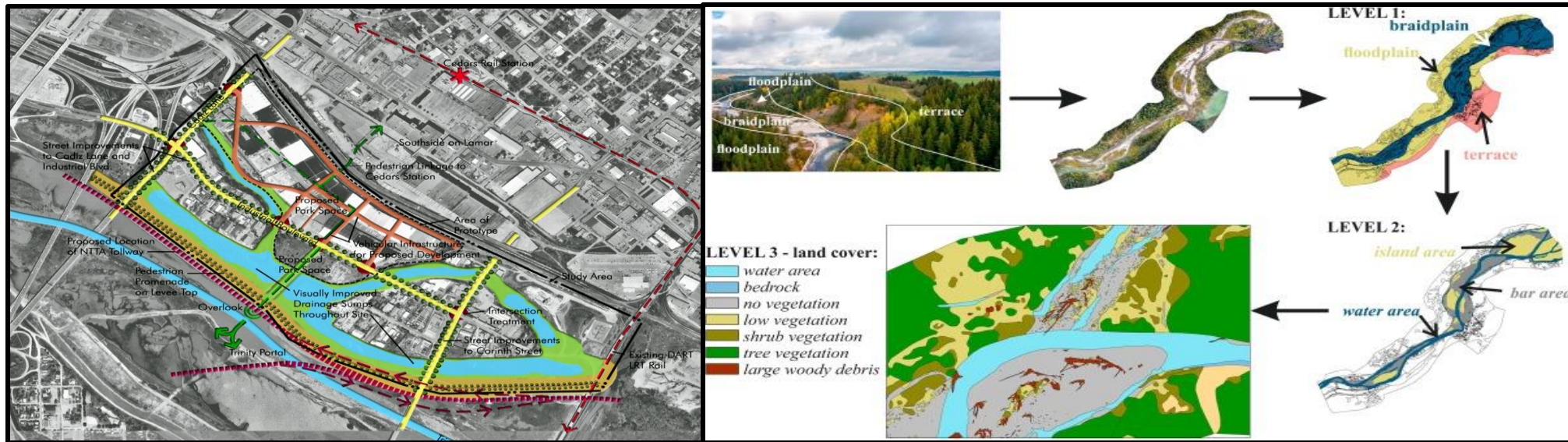
**Drainage Planning**



**Run off Area Mapping**



**Riverbank Change Detection**



**Land Use/ Land Cover Mapping**

# BLUEHAWK: IRRIGATION & WATER RESOURCE

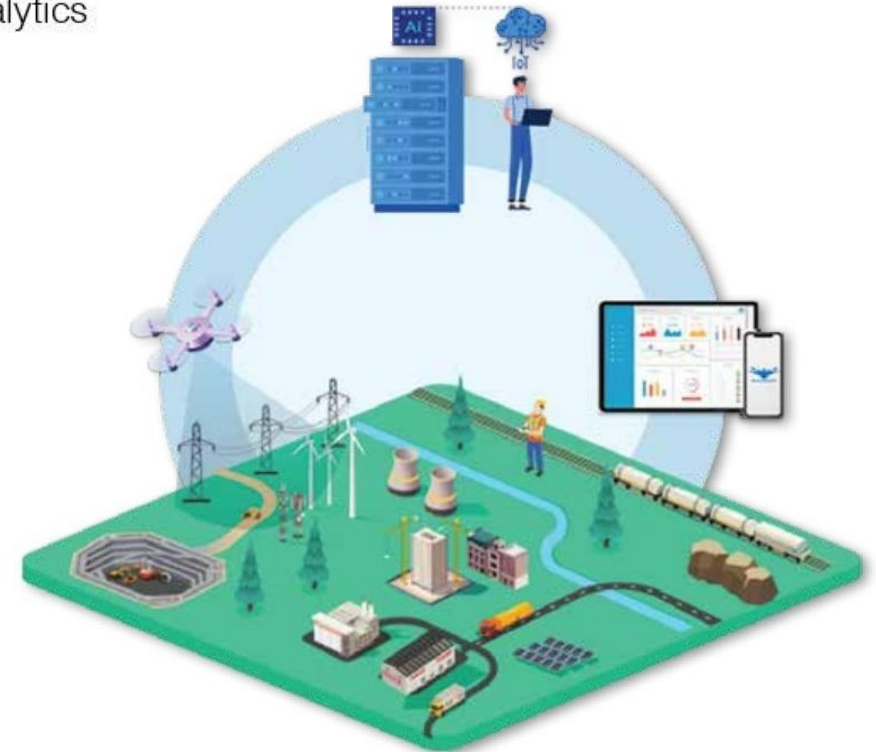
## AI Powered drone platform to ease industrial use cases.

BlueHawk is an AI-powered Enterprise Drone Platform which transforms aerial data into actionable insights. BlueHawk helps enterprises at every step from data acquisition to data-driven action.

BlueHawk provides a digital platform for a complete lifecycle of a project i.e., survey & mapping, project progress monitoring, inspection, surveillance, O&M services and perform various analytics

With the help of our platform, we can develop & maintain Irrigation Digital Transformation and Surveillance System, which includes:

- Automated mission planning
- Real-time data synchronization to cloud
- Geo-tagged asset mapping
- ML and AI-powered crop and soil moisture analysis
- Flood inundation modelling
- Maintenance alerts & notifications
- Fully automated O&M and planning
- Automatic report generation & sharing, Base map creation





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A Dorf Ketal - Trentar Company



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