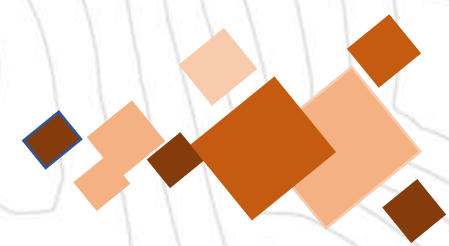




**Geospatial data and services
for Water Resource Management
(Remote Sensing and GIS)**





About Us



ESTABLISHED

SATPALDA was Founded in **2002** With ISO Certification 9001:2015



PROFILE

- Satellite remote sensing
- GIS
- Photogrammetry
- LiDAR
- UAV
- AMDB
- 3D Landcape



EXPERIENCE

Twenty years of rich experience and expertise, Our company has a team of experts with thousands of man hours of production and experience



LOCATION

OFFICE 1: CP 2156, First Floor, Sector 16A, Vasundhara, Ghaziabad-201012, U. Pradesh, India

OFFICE 2: 11006, Kanchenjunga Building, 18, Barakhamba Road, New Delhi - 110001, India.



CONTACT



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Company Overview



PRODUCTS

- Satellite Imagery :
WorldView, GeoEye
Pleiades, SuperView,
KazEOSat, SPOT. GRUS
- TERRASAR-X
- 3D landscape- 50 cm
to 5m DSM/DTM
- AMDB



SERVICES

- Drone
Photogrammetry
- Satellite
Photogrammetry
- Land subsidence
Mapping
- 3D Modelling
- Cadastral Mapping
- GIS MAPPING
- SDSS



SECTORS

- Water
- Mining
- Railways
- Forestry
- Agriculture
- Oil and Gas
- Disaster Management
- Urban Planning
- Waste Management



PARTNERS

- BLACKSKY
- AXELSPACE
- MAXAR
- RESTEC
- SCANEX
- Simactive
- INTERMAP



Global Reach

Operating from

2

locations

Projects

60+

Countries

Across

6

Continents

Delivered

1500+

Projects

Technical staff

70+

Supporting





High resolution satellite imagery

	RESOLUTION	REVISIT FREQ	PAN / MSS	SWATH AREA	ACCURACY
 WorldView - 1	0.50 m	1.7 Days	PAN : 50 cm	17.6 km	<3.5 m CE90
 WorldView - 2	0.40 m	1.1 Days	PAN : 50 cm MSS : 2 m	16.4 km	<3.5 m CE90
 WorldView - 3	0.30 m	<1 Days	PAN : 30 cm MSS : 1.2 m	13.1 km	<3.5 m CE90
 GeoEye - 1	0.40 m	3 Days	PAN : 50 cm MSS : 2 m	15.2 km	<2m CE90 Stereo <3m LE90 Mono
 GRUS	2.5 m	<1 Days	PAN : 2.5 m MSS : 5 m	55 km	<10.69m CE90



Why Modern Technology ?

- Due to climate change, frequency of extreme events have increased rapidly, With GIS tools we can monitor ***abnormal Variations in flood and drought in same area annually.***
- ***Conventional surveying of lakes especially in hilly areas needs a lot of man hour both in field and office*** as well. Too much of field work is required even for the survey of smaller section.
- Remote sensing allows ***repetitive coverage of larger areas*** enabling surveys on a variety of themes and identification of large features. It is also bit cheaper and faster as it allows map revision, reconstruction of base map in the absence of traditional land survey
- GIS is effective when it comes to characterize and model the spatial variation in hydrological process so that experts can manage the use of land within a drainage basin.



Overview

Water utilized in irrigation (80-85)% is more than used in other purposes but still irrigation efficiency is less than 40%.





Challenges

IRRIGATION
INEFFICIENCY

WATER
RESOURCE
MANAGEMENT

SURGE IN EXTREME
EVENTS

GROUNWATER
OVER
EXPLOITATION

COASTAL AND
INLAND WATER
QUALITY



Solutions

IRRIGATION INEFFICIENCY

- DTM/DEM
- 3-D modelling

WATER RESOURCE MANAGEMENT

- Watershed
Mapping

SURGE IN EXTREME EVENTS

- LULC
- Flood / snow
inundation
mapping
- Topographic map

GROUNWATER OVER EXPLOITATION

- Soil moisture
Mapping
- Groundwater
Zone-Mapping

COASTAL AND INLAND WATER QUALITY

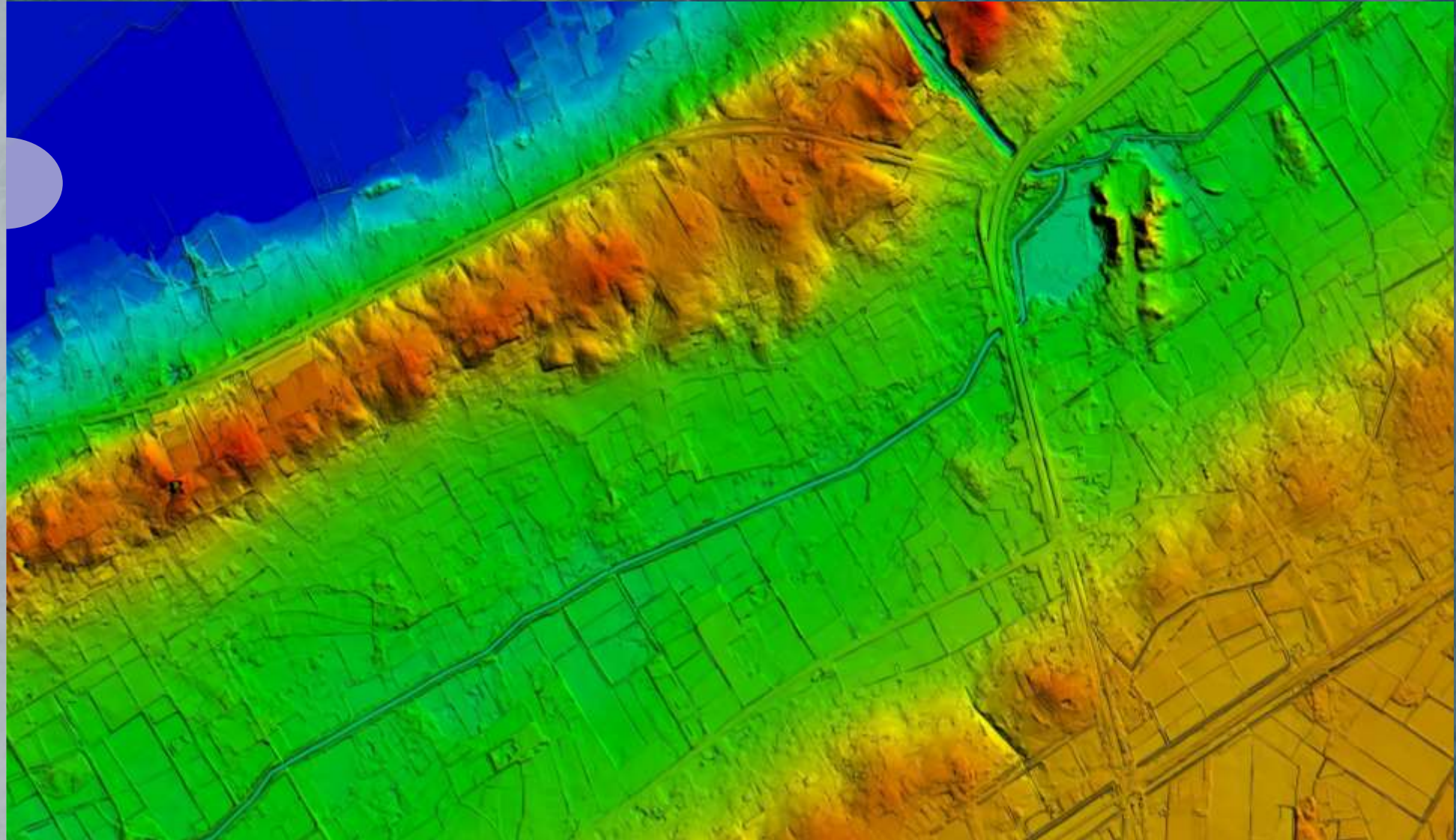
- Surface water
Mapping
- Water quality
assessment



Irrigation Inefficiency

DTM

3-D modelling

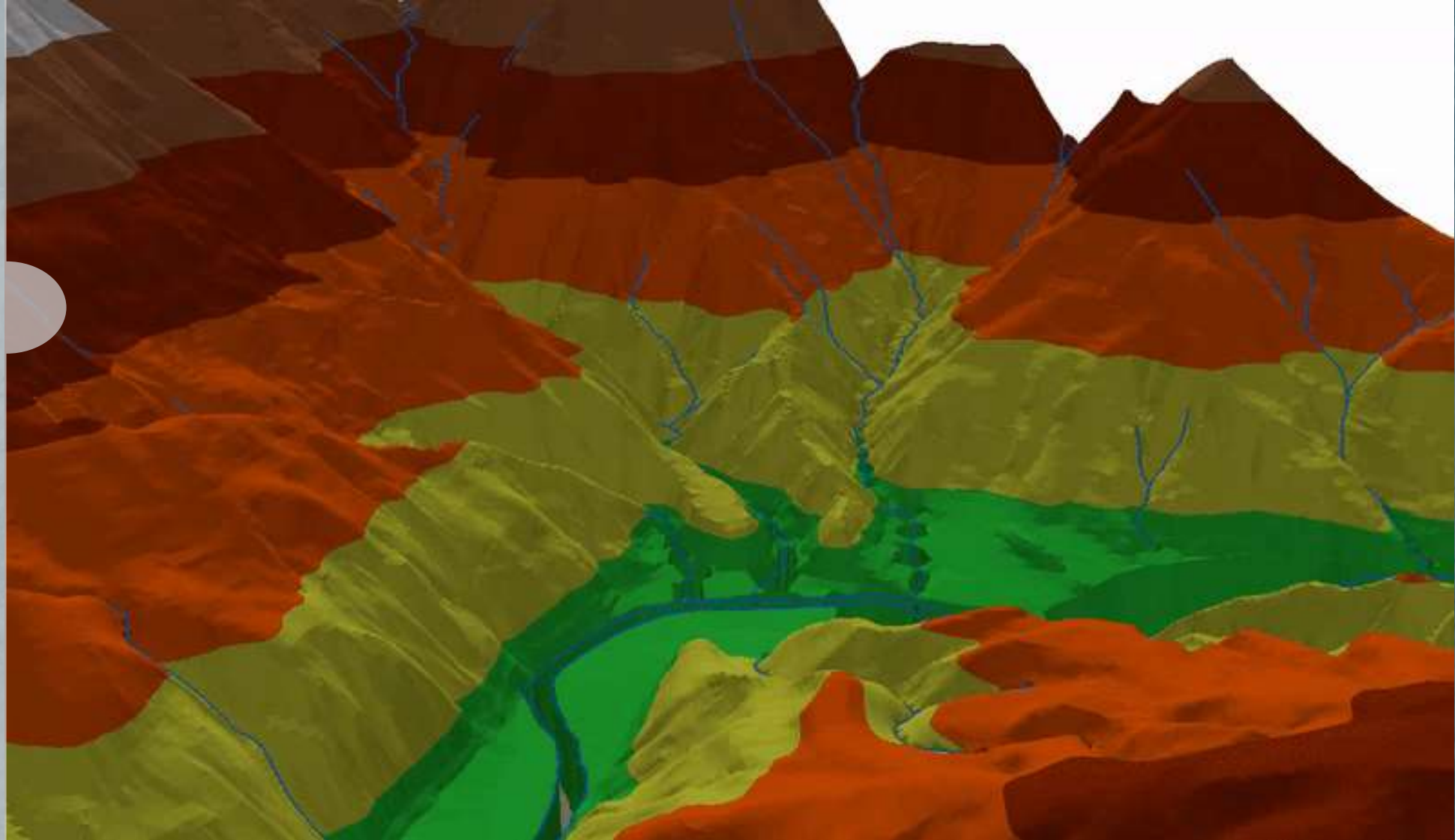




Irrigation Inefficiency

DTM

3-D modelling





Water Resource Management

Watershed
Mapping



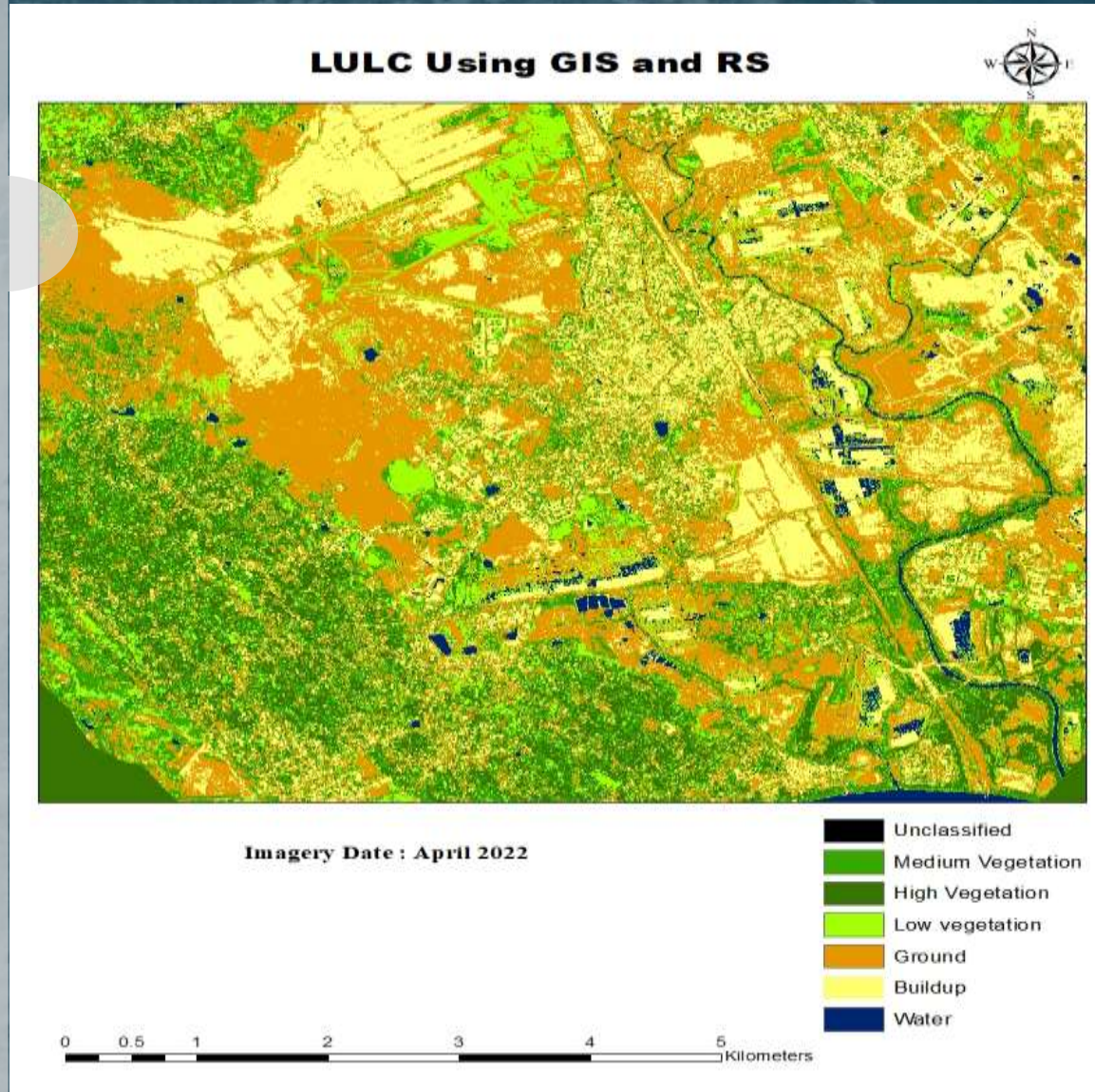


Surge In Extreme Events

LULC

Inundation
Mapping

Topographic
Mapping





Surge In Extreme Events

LULC

Inundation
Mapping

Topographic
Mapping



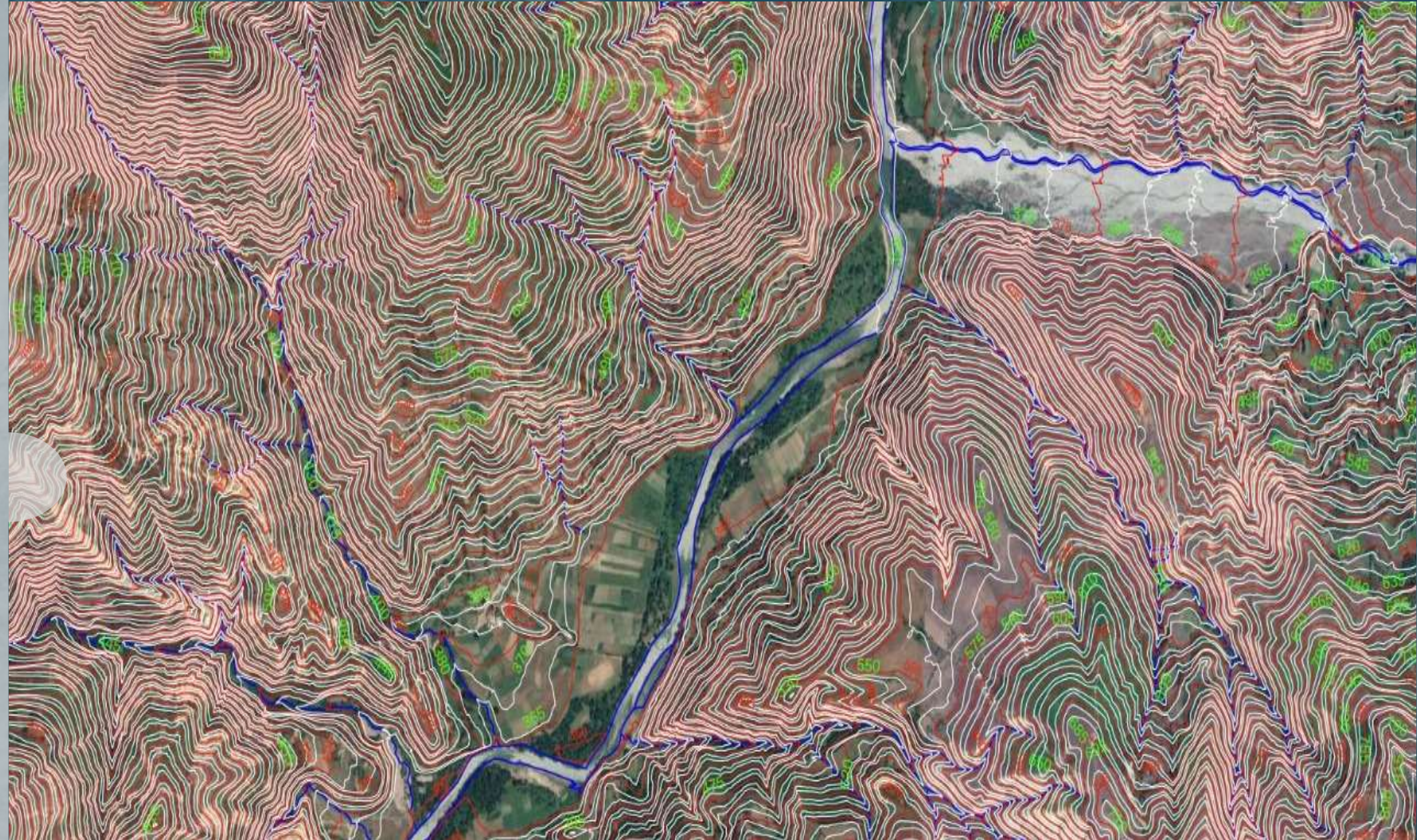


Surge In Extreme Events

LULC

Inundation
Mapping

Topographic
Mapping

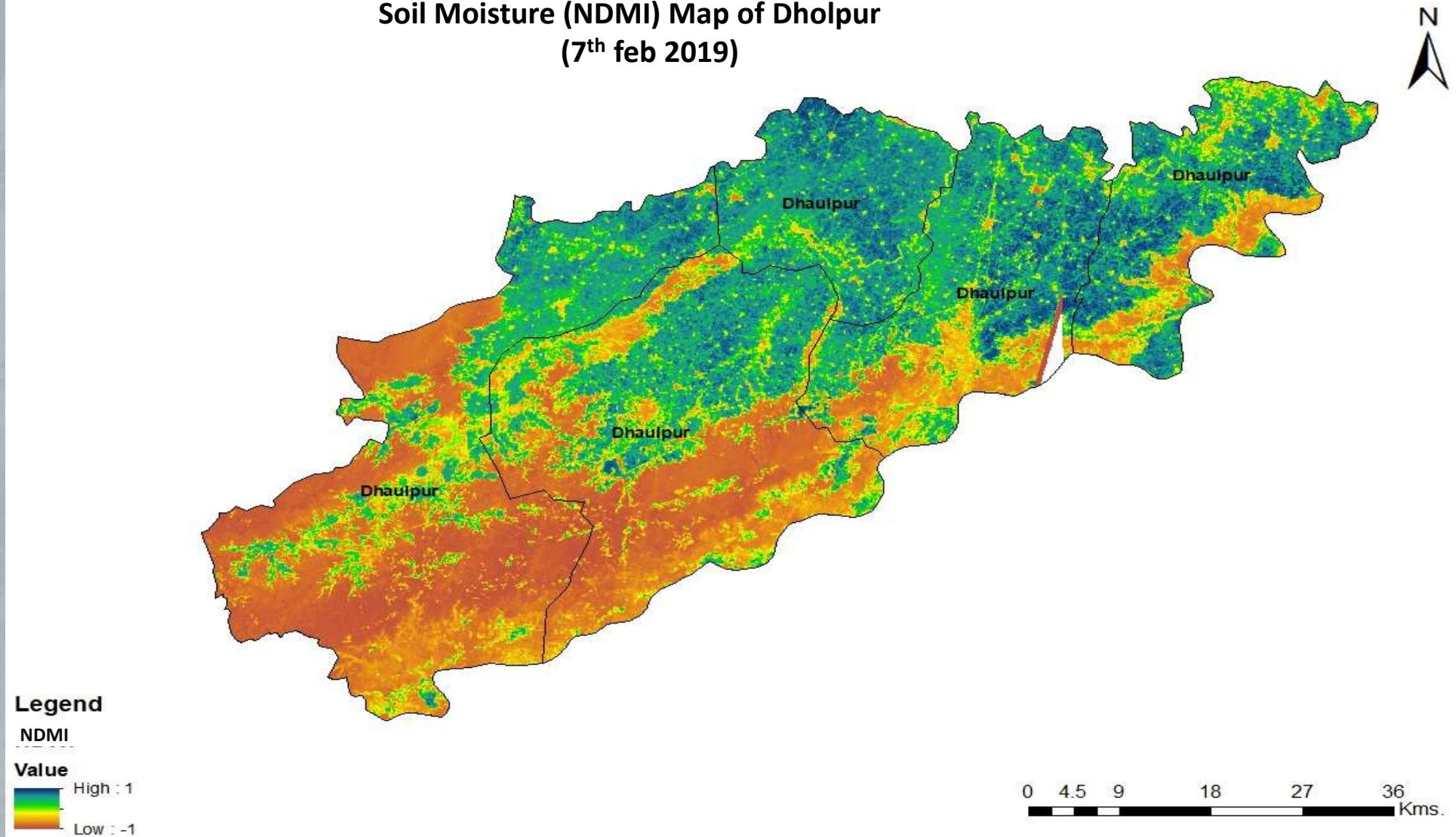




Groundwater Overexploitation

Soil moisture Mapping

Soil Moisture (NDMI) Map of Dholpur
(7th feb 2019)

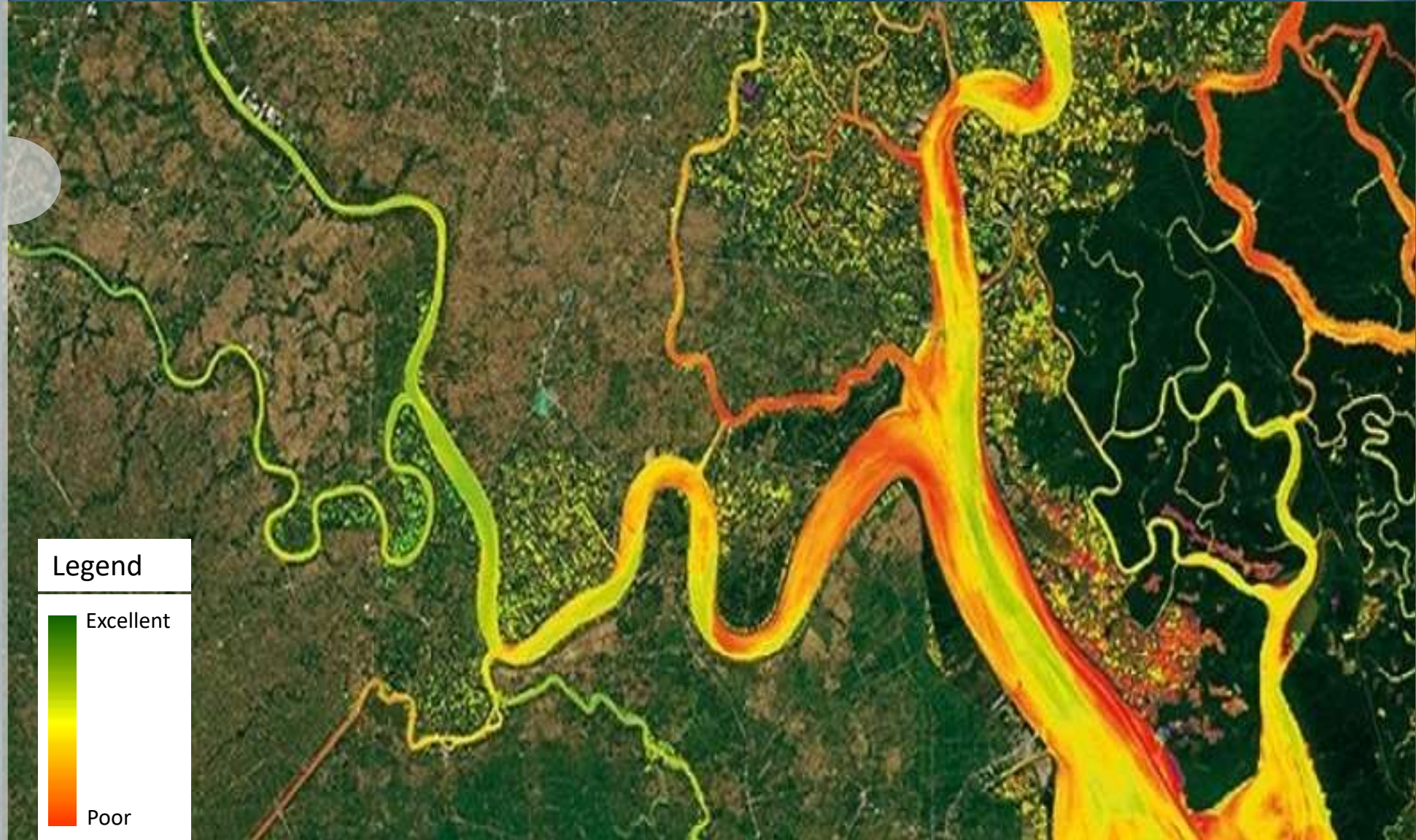




Coastal And Inland Water Quality

Water quality
assessment

Surfacewater
Mapping

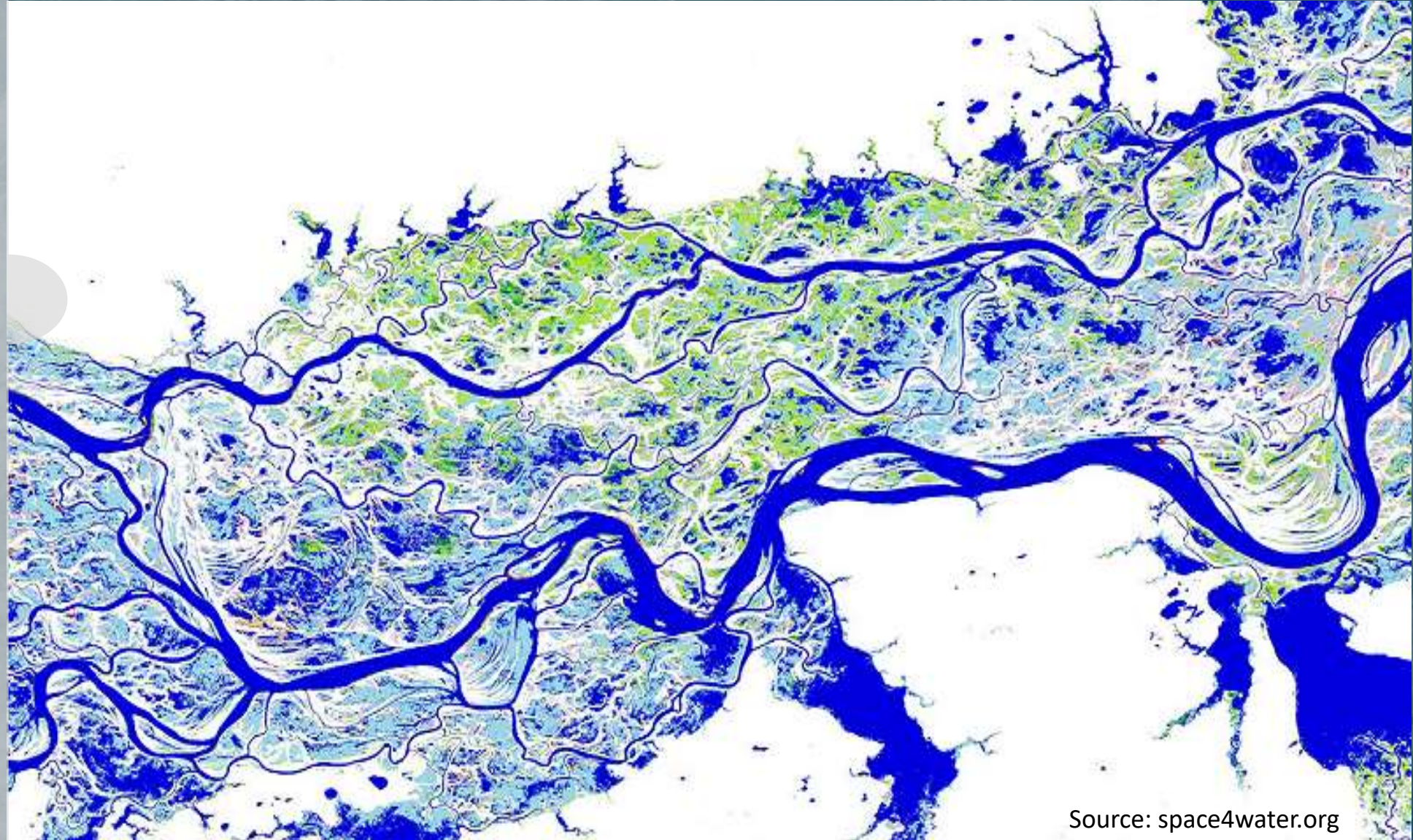




Coastal And Inland Water Quality

Water quality
assessment

Surface water
Mapping





Case Study

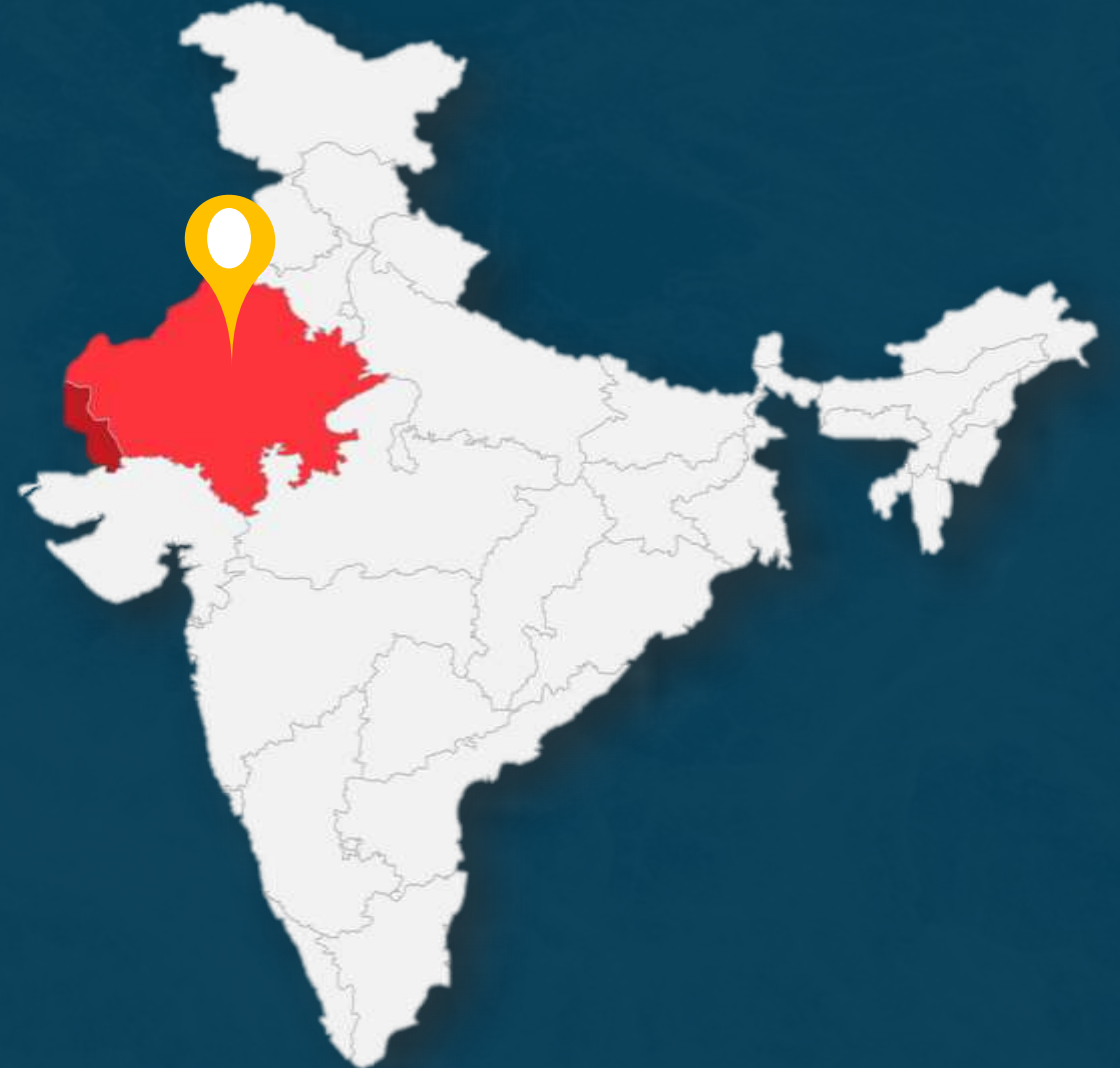
Lift Canal : kumbharan, Rajasthan

Nature of work

Analysis of the topographic area, designing of a selected lift system, mapping of soil types, land use pattern, network of irrigation channels, potential water source & land gradient.

Deliverables

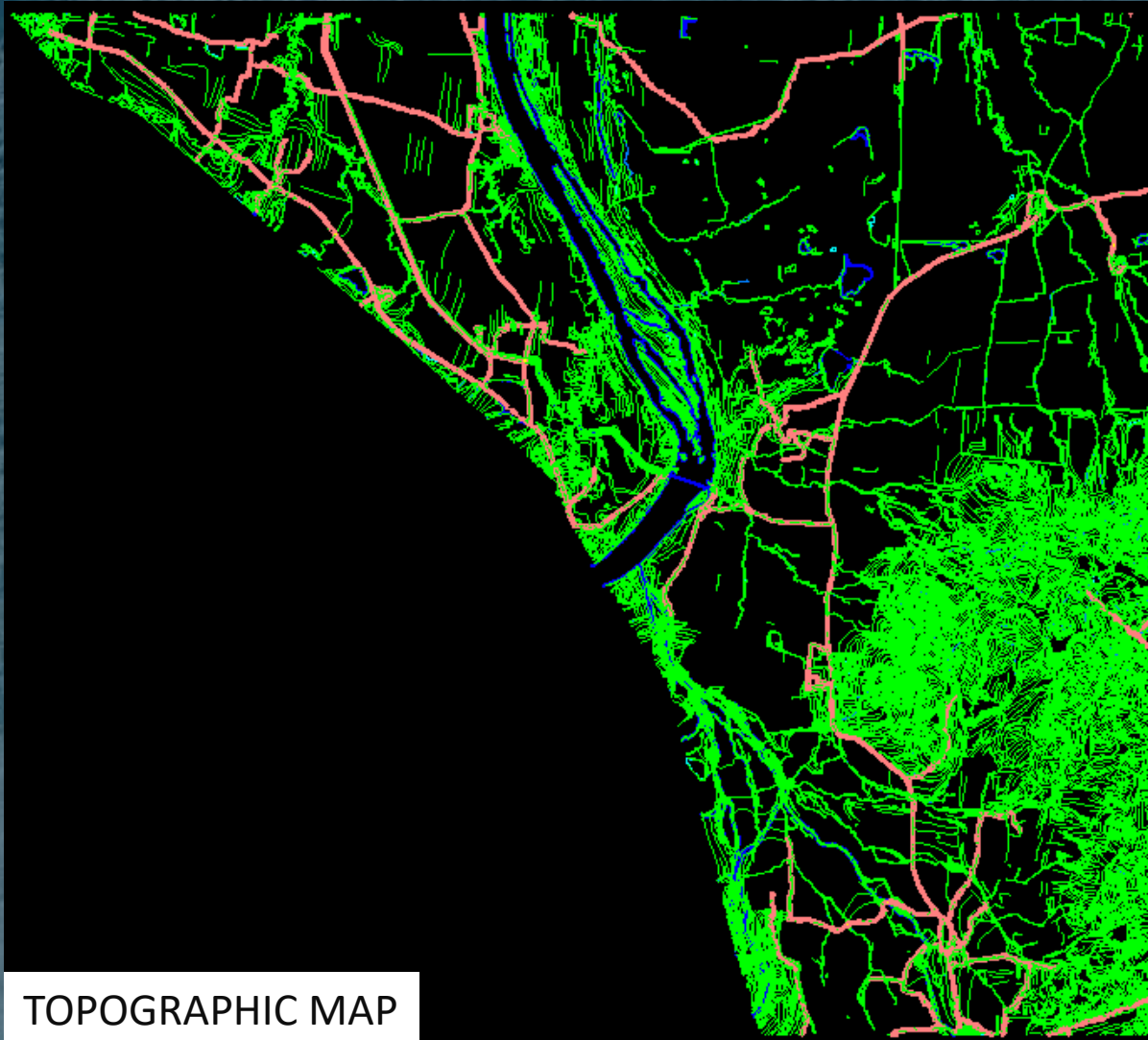
- DTM 1m
- orthophoto
- Contour map (DWG)
- Topographic Map



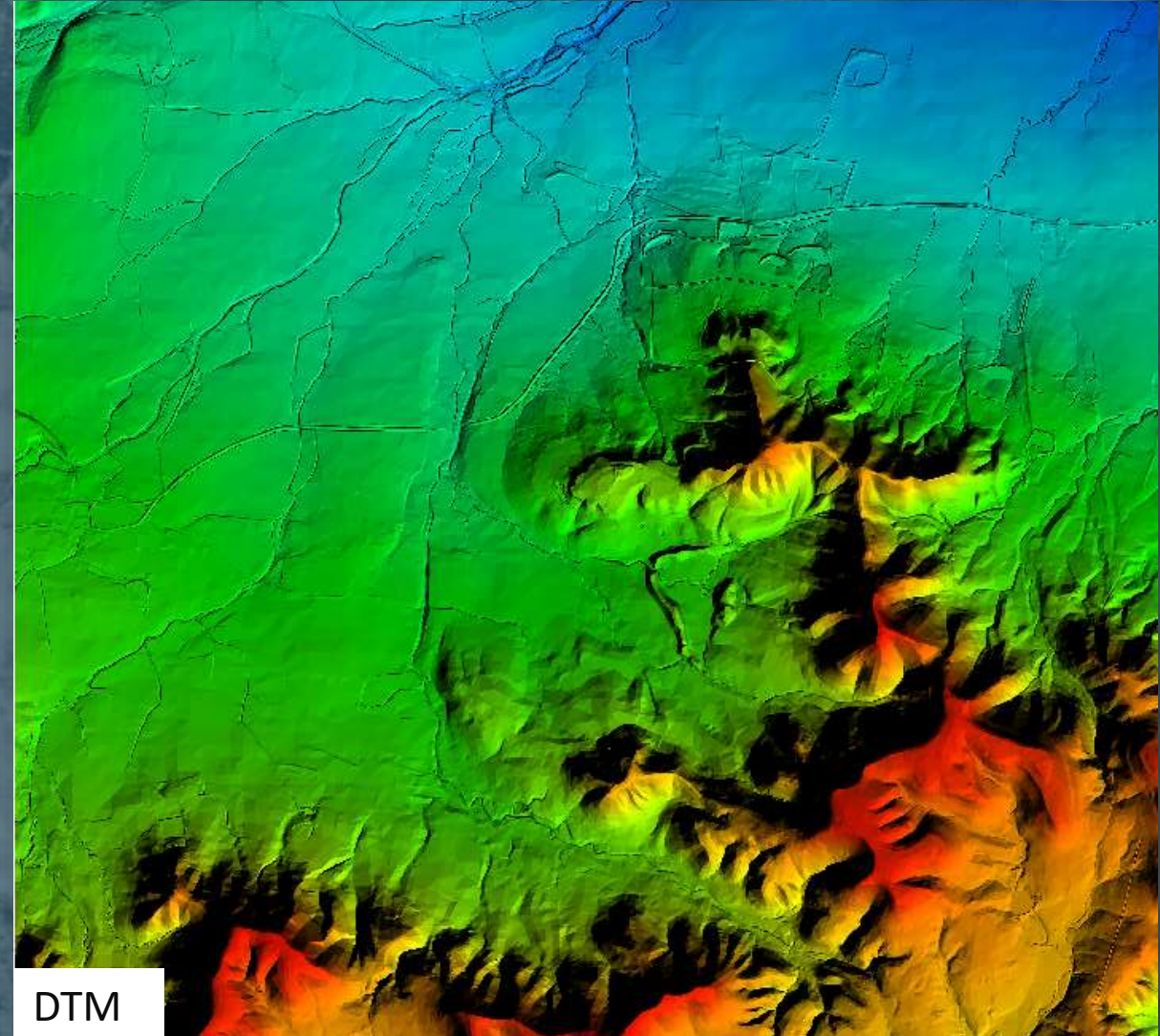


Case Study

Lift Canal : kumbharan, Rajasthan



TOPOGRAPHIC MAP



DTM



Thank You



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Exhibition Area: Booth no. 30