North Eastern
Spatial Data Repository

A platform for Geo-Spatial Data Visualization,
Analysis and Sharing for Governance Applications

NESAC

NeSDR
Spatial Data Repository

WWW.NESDR.GOV.IN

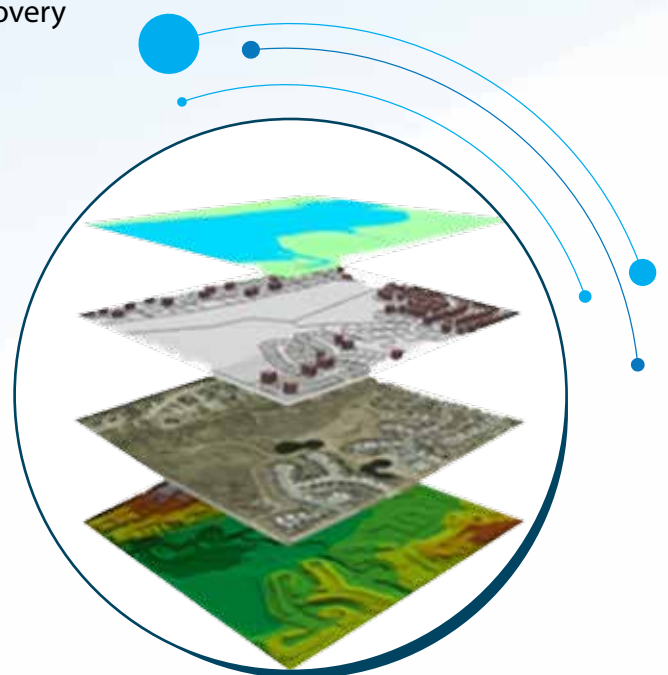# Space Based Services for Overall Development in North Eastern Region

North Eastern Region (NER) of our country with its undulating hills, luxuriant green fields, abundant forest cover and large number of rivers and lakes supports a fairly large population spread across many remote areas. It is endowed with abundant natural sources, rich biodiversity and cultural heritage. However, these inaccessible areas with almost no physical connectivity and difficult terrain prove to be detrimental for planning and developmental activity in the NER. These hindrances can be overcome to a large extent with support from space based services. Space Technology generates copious amounts of spatial and temporal data which if utilized appropriately can change the face of development in the NER via effective Macro and Micro-planning.

Need for Dissemination and Sharing of Space Based Data

Over the last few years, huge spatial database has been generated for the region by State Remote Sensing Applications Centres (SRSACs) of NE Region (NER) and various line departments. Further, the North Eastern Space Applications Centre (NESAC) under Department of Space, Government of India has been executing large number of projects in the areas of Earth Observations Applications in collaboration with SRSACs of NE region (NER). A large number of Satellite Imageries and Maps have been generated. There's need to standardize these datasets and generate interoperable data services for seamless data access and download for maximizing the use of available data by all levels of users. This in turns will reduce data duplicity and bring much needed data democracy and transparency in planning activities.

Major Highlights & Benefits

- Single Window Geospatial Data Search and Discovery

- Spatial Data Sharing Gateway

- Maximizing the Usage of Data and Services in Governance.

- Innovations in Building Governance Applications

- Establish the Geospatial Connectivity Network with SRSACs

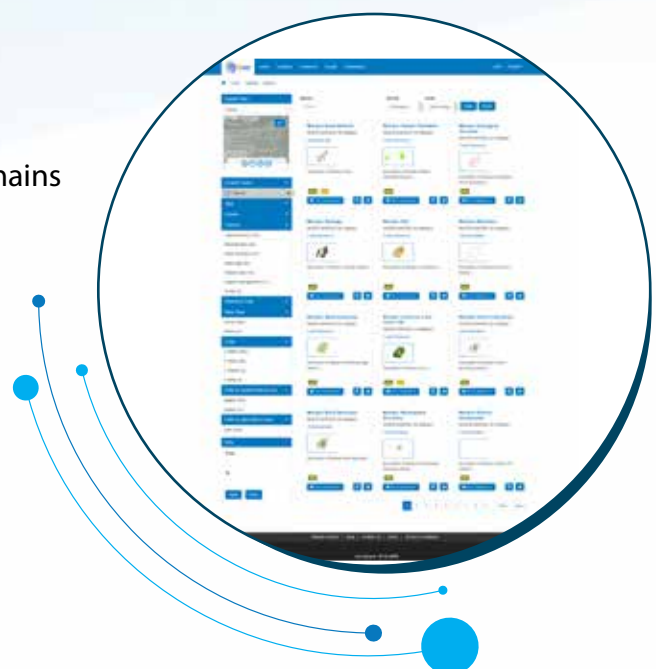# The North Eastern Spatial Data Repository

The aim of the development of North Eastern Spatial Data Repository (NESDR) is to enable data cataloguing, sharing, and retrieving in a decentralized mode. NESAC as a Regional Node host regional database including State data whereas respective State Node are responsible for State data generated by States or other Line Departments. Geospatial facility of each of the SRSACs is strengthened to provide the online data services required for the State.

- Authorized users of NESDR portal will have functionality of searching, querying and downloading of the state specific geospatial datasets through valid authentication of the user credentials

- Framework for creating dynamic creation of geospatial data visualization portal with the functionalities

- Facility to free text search based on keywords present in metadata

- User's have facility to view thumbnail add data to their cart and download data if they are registered

- Advanced Searching tool through keywords, statewise, themewise, scalewise, datewise and by applying spatial filter

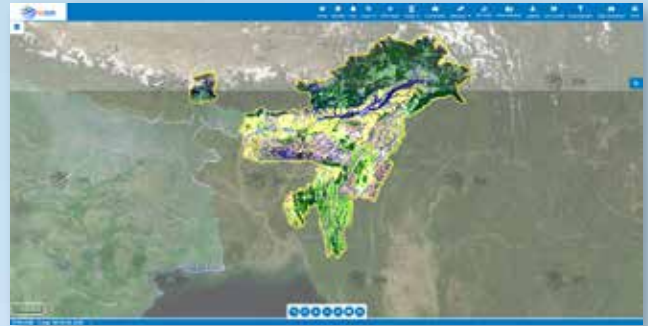- Instant view of dataset's metadata details on a click

Basic Highlights

- Easy and User Friendly UI Design

- Multi Level and Advance Data Searching

- Data Categorization based on thematic domains

- Links to State Portals

- Hosts g-Governance Applications

- Mobile Apps and Spatial Dashboards

- Data Analytics on Historical Data.

Inbuilt Interactive Geospatial Data Exploratory and Analysis Tool

The NeSDR Portal has inbuilt Geospatial Data Exploratory and Analysis Tool for interactive map visualization, analyze, download and printing of maps.

Platform for building perfect g-Governance Applications for planning and monitoring

The data and services being generated from NeSDR standardized data reposiory are being used suitably to realize the need and demand based g-Governance applications and for immediate use in their planning and monitoring of projects and activities on the ground. A number of GeoWeb application services are being hosted via NeSDR platform towards empowering Governance activities of the user Departments. NEC, Ministry of DoNER, Meghalaya Basin Development Authority (MBDA), Bodoland Territorial Council (BTC), Assam, Dima Hasao Autonomous District Council, Assam, ICMR-RMRC, NE, Dibrugarh, Assam, Central Silk Board (CSB), Bangalore, Offices of Chief Electoral Officers Election Department of NE States are the major users of NeSDR Governance Web applications.

Please visit
www.nesdr.gov.in
for more details.

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