ICT enabled Geo-spatial applications and services

- ICT enabled services for the management of information required for grassroots planning.
- NE region of India with eight vibrant states having diverse societal, cultural, economic indicators, is in constant need of innovative and sustainable solutions to address development and governance challenges.
- Spatial Decision Support System (SDSS) with the capability of geospatial maps, integrated applications and tools forms the basis for planning in most of the developmental activities.
- Space Based Information KIOSK (SBIK), North Eastern District Resources Plan (NEDRP), Sericulture Information Linkages & Knowledge System (SILKS), North East Forest Management Plan (NEFMP) and recent development of North East Database Management and Analysis (NEDMA) using GIS Enterprise Server etc. are few significant WebGIS based SDSSs developed by NESAC using open source GIS packages and standards.

**SBIK : Space Based Information Kiosk**
- SBIK is populated with geospatial layers on natural resources, infrastructure, disaster management etc. with proper linkages to the socio-economic data.
- Contains information related to action plans for forest and environment, agriculture, soil conservation, infrastructure etc. for preparation of detailed project report (DPR).
- The statistics for spatial layers can also be generated based on user defined area of interest.

**NEDRP : North Eastern District Resources Plan**

- NEDRP provides district resources atlas in the form of web-based DSS for micro-level/decentralize planning.
- NEDRP is planned to be operational in all districts of NER in phases in the offices of DC Offices/Line Departments. Phase-I covers 25 districts of NER. NEDRP is now operational in all eleven districts of Meghalaya.
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SILKS : Sericulture Information Linkages and Knowledge System
- SILKS is a web based Geo-Information System in the form of Decision Support tools for sericulture planning and developmental activities.
- The programme is sponsored by the Central Sericulture Board (CSB), Ministry of Textile and is developed by NESAC in collaboration with SRSACs for 108 selected districts of 24 states of India. SILKS is now available in 11 local languages at http://silks.csb.gov.in.

NEFMP : North Eastern Forest Management Plan
- NEFMP : For proper planning and formulating strategies to sustainably manage the forests and to conserve the ecologically sensitive areas in the entire northeastern region.
- NEFMP geo-portal containing information about the forest cover at different densities, other land resources, their administrative/management boundaries has been developed with tools for data visualization, analysis and download the map/reports.
- NEFMP statistical tool can be used to estimate the timber stock volume with field inventory data at different management level (plot, compartment, reserved forest, block/range, division etc.).

NEDMA : North Eastern Database Management and Analysis
- NEDMA aims to provide all available geospatial inputs for entire NER, in a user friendly platform using ArcGIS Enterprise server in a 10km x 10 km grid.
- The change and trend analysis of temporal geospatial data including climatic parameter, the dynamic generation of action plan maps based on user defined parameters and query based exploration of location specific geospatial information.
- NEDMA will act as an authentic data repository for any further analysis and also to share information across various government departments, NGOs and academia and institutions.