



Department of Electronics and Information Technology
Ministry of Communications and Information Technology
Government of India



Digital India

Workshop on Geo-Informatics

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- 30 March 2016

Progress of Punjab in Implementing GIS based Decision Support Systems (DSS)

Sl. No	Name of the Owing State Department	Name of the Implementing Agency	Implementation Area <e.g. Agriculture, Natural Disaster, Forest, Aviation, Mining, Infra., Health etc.>
1	PUDA (Punjab Urban Development Authority)	Department of Town and Country Planning	Urban Planning (Completed in many districts)
3	Residue Burning Project		Punjab Pollution Control Board
4	Single Property Mapping	Municipal Corporation	MC (Completed)
5	Punjab Mandi Roads Mapping	NIC	Punjab Mandi Board (In Process)
6	Punjab Mandi Mapping on GIS	NIC	Punjab Mandi Board (In Process)
7	Mapping of E Seva Kendra	DGR / SeMT	DGR (In Process)

Punjab GIS Implementation Stage

- PRSC is the nodal agency for GIS work in Punjab State
- Punjab GIS has been developed by NIC
- NIC has proposed 16 modules for the state for GIS Application for which the data collection is in progress and would be hosted very soon.
- NIC is in stage of developing GIS for the Punjab Mandi Board (largest Mandi Board in Asia) in which the locations of all Mandi Boards in Punjab (165) and the roads constructed by Punjab Mandi Board are mapped and the application will be hosted on NIC cloud Meghraj.

GIS Plans / Goals of the Punjab

- **Mapping of eSeva Kendras**
 - Citizen will have information of nearest E Seva Kendra
 - List of services available at nearest and neighbouring E Seva Kendra
 - Need not to go far places for availing services available in neighbourhood
 - Regional Language support available
- **Agro-Ecosystems and Crop Modeling**
 - Impact of climate change on agro-ecosystems
 - Crop growth monitoring and production forecasting
 - Cropping system analysis
- **Forestry and Land use**
 - Forest mapping and monitoring
 - Forest cover change analysis
 - Land use/cover mapping

GIS Plans / Goals of the Punjab

- **Geology, Water Resources and Geoinformatics**
 - Geological and structural analysis
 - Ground water exploration and Hydrochemistry
 - Monitoring and mapping of changes in river courses and river bank erosion.
 - Natural Resources & Environment
- **Soil resource mapping and land capability classification**
 - Soil-site suitability analysis for different crops
 - Delineation and monitoring of degraded lands (dunes, soil salinity/alkalinity, water logging, soil erosion)
 - Evaluation of soil fertility

Support Desired from DeitY

- GIS framework – Best practices to be adopted
- Capacity building w.r.t. GIS – Manpower and Data Sharing of already available data

Thank You