



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



Digital India

Workshop on Geo-Informatics

by **Head SeMT - Rajasthan State**
Mr. Phani Raja Sekhar

- 30 March 2016

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

Sl. No	Name of the Owning State Department	Name of the Implementing Agency	Implementation Area (e.g. Agriculture, Natural Disaster, Forest, Aviation, Mining, Infra., Health etc.)
1	Education Department <ul style="list-style-type: none">•Elementary Education•Secondary Education•Higher Education•Technical Education	DoIT&C/RISL	<ul style="list-style-type: none">• Mapping of all Educational Establishments across the State• Integration with Non-Spatial Data like DISE• Advanced Analytics and tools like Search Nearby, Routing, Pre-defined & Advanced Query, Scenario Analysis
2	Health Department	DoIT&C/RISL	<ul style="list-style-type: none">• Mapping of all Health Establishments• Advanced Analytics and tools like Search Nearby, Routing, Pre-defined & Advanced Query, Disease Trend Analysis

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

Sl. No	Name of the Owning State Department	Name of the Implementing Agency	Implementation Area (e.g. Agriculture, Natural Disaster, Forest, Aviation, Mining, Infra., Health etc.)
3	GIS based Land Bank Management Application for RIICO	DoIT&C/RISL	<ul style="list-style-type: none">• Mapping of various Raw Land Bank, Upcoming and Existing Industrial Area across the State• Integration with RIICO ERP Application and eAuction (under development)• Advanced Analytics and tools like Locate Vacant Plots based on area, zone, location, size etc., Search Near-by, Routing, Land Profile Report, Site Plan etc.
4	Citizen App	DoIT&C/RISL	<ul style="list-style-type: none">• Mapping of various Point of Interest, Govt Assets and Establishments• Tools like Search Near-by, Routing, Locate Property on Masterplan etc.

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

Sl. No	Name of the Owning State Department	Name of the Implementing Agency	Implementation Area (e.g. Agriculture, Natural Disaster, Forest, Aviation, Mining, Infra., Health etc.)
5	Infrastructure Mapping under Tribal Area Development Program	DoIT&C/RISL	<ul style="list-style-type: none">• Mapping of various Assets (New, Upgradation of Existing and New Infrastructure) of different Line Departments• Inter-sectoral Planning• Advanced DSS for Budget estimation and Financial Sanction
6	Ground Water Department	DoIT&C/RISL	<ul style="list-style-type: none">• Mapping of GWD Assets (Monitoring Stations, Raingauge Meter), Water bodies, GWD Base Layers (various Aquifer, Basin, Command Area, Geomorphology and Geology layer)• Advanced analysis of Water level based on Physical and Chemical parameters, Assets etc.

Rajasthan GIS Implementation Stage

- Standardization of Geo-enabled base data comprising of administrative boundaries, water bodies, transportation network, terrain etc.
- Centralized Approach for developing State-wide GIS Application through setting-up centralized Infrastructure and necessary Software License, standardized approach for creation of common database and integrated reusable application development framework etc.
- Enterprise Platform has been developed to enable Line Departments to update Thematic Maps and Data on regular basis
- SeMT team is providing support towards requirement finalization, conducting UAT, training and handholding of Line Departments

GIS Plans / Goals of the State

Coverage of Web GIS Initiatives

- Creation of Base Map and Thematic Maps
- Develop sector / department specific Web Maps, Web Apps & Mobile Apps
- Mapping of various Government Assets and POIs
- Integration of spatial data with legacy applications through web services
- Design Tools and Templates for undertaking advanced analysis like Change Detection, What-If analysis, Proximity analysis, Buffer analysis, Clip, Point Distance etc.
- GPS based Vehicle tracking system

GIS Plans / Goals of the State

Road Map - Web GIS

Today

- Education GIS
- Health GIS
- Citizen Portal
- CM Routing and Visit
- E-Mitra GIS
- Bhamashah GIS
- RIICO Landbank GIS
- Tribal Area Development Program
- RVPNL GIS

Next 4-6 Months

- Town Planning and UITs
- Ground Water
- Watershed
- ULB
- Mining GIS
- Forest GIS
- Police GIS
- PHED GIS

Next 10-12 Months

- Rajdharaa Mobile App
- Crowdsourcing
- Energy
- Irrigation GIS
- Inspection App

GIS Plans / Goals of the State

Coverage of 3D City

- LiDAR Scanning of heritage monuments and important buildings
- Accurate 3D Modeling of the scanned monuments
- 3D Modeling of Walled City and various modern colonies
- Interactive user driven walkthrough of the Models
- Interactive Games & Guided Tours to promote Rajasthan Tourism
- Prototypes of large scale infrastructure and urban planning
- Advanced models for creating user driven Light & Sound show, Shadow analysis etc.



GIS Plans / Goals of the State

Road Map – 3D City Modeling

8 Gates of Walled City
Albert Hall
Hawa Mahal
Jantar Mantar
City Palace, Jaipur
City Palace, Udaipur

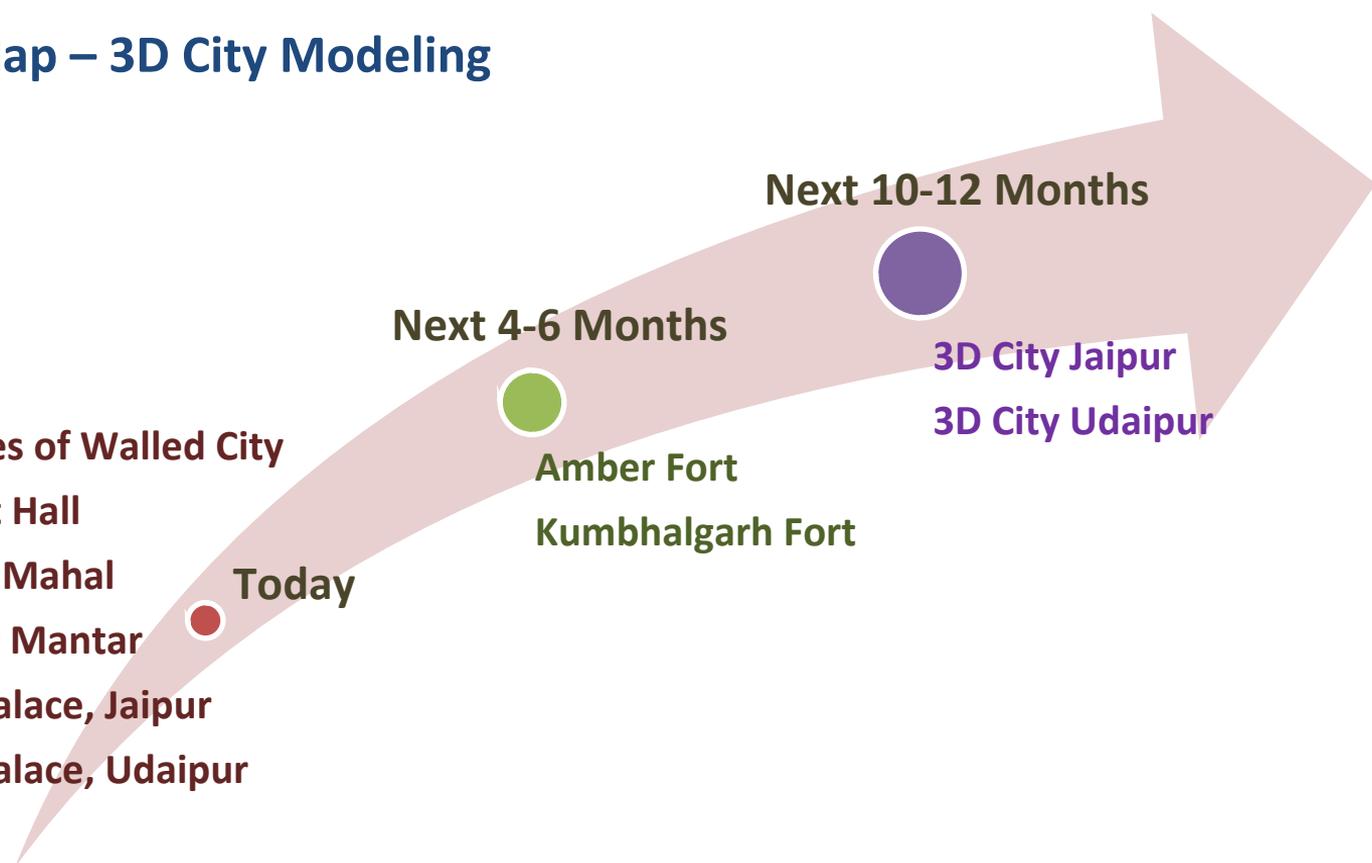
Today

Next 4-6 Months

Amber Fort
Kumbhalgarh Fort

Next 10-12 Months

3D City Jaipur
3D City Udaipur



Support Desired from Deity

- Create Provision in the upcoming Application for effective integration with Rajasthan GIS Applications using Web Services
- Provide Rajasthan centric data / layer like LULC, Forest Cover etc.

Thank You