



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



Digital India

Workshop on Geo-Informatics

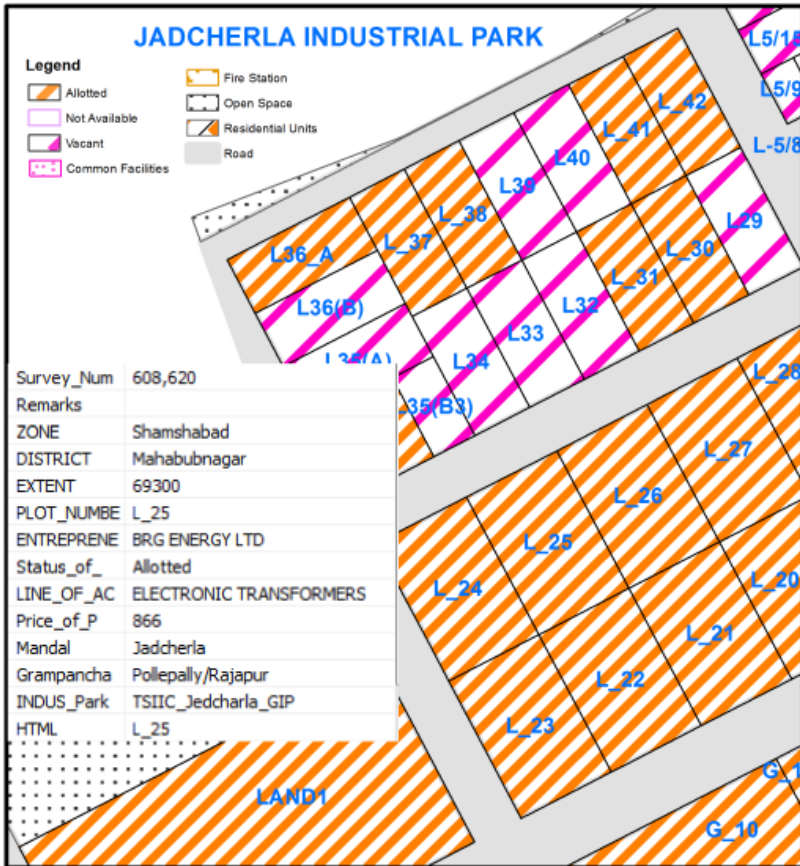
by <Telangana> SeMT
Mr. Akhilesh Kumar Meghwal

- 30 March 2016

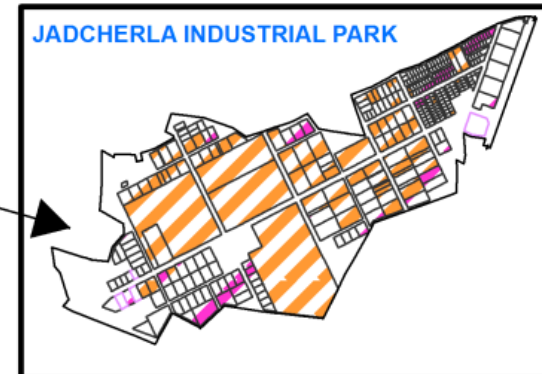
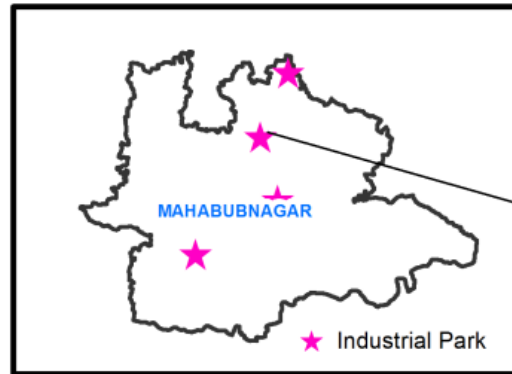
Progress of Telangana in Implementing GIS

Department	Status	Implementation Area
TSIIC	WIP	Ease of doing business: Web GIS Application for vacant Plots
Panchayat Raj	Complete	Telangana Water Grid Project: Drinking Water Supply to all households.
Irrigation Dept	WIP	Mission Kakatiya-Renovation of all the minor irrigation tanks of the State
Panchayat Raj	WIP	Road Information Systems-Update of Geo-database & Monitoring Construction
Planning Dept.	WIP	SISDP-Effective management of natural resources in planning, implementation and monitoring of developmental activities.
Panchayat Raj	WIP	Rural Information System-Mapping of resources & assets for decentralised planning
CCLA	WIP	Bhu-Bharati, Spatial and Textual Corrections to 9 lakhs Land Parcel Maps LPM's
Disaster Mgmt	WIP	ISMS: Crop Area, Production and Condition Assessment.
Agriculture	WIP	FASAL: Crops discrimination, acreage and production forecast using satellite data
Agriculture	WIP	CHAMAN: Area assessment and production forecasting of major horticultural crops
Agriculture	Complete	Soil Resources Mapping: Soil resource maps of five districts on 1:50,000 scale
Ground Water	WIP	RGNDWM: Ground Water Quality Layer and spatial database creation

GIS Application on Telangana State Industrial Infrastructure



TRAC Supports TSIC, in providing the spatial information of vacant plots and infrastructure to the Prospective Entrepreneurs for ease of doing business in Telangana State.



Proposed Water grid Telangana State



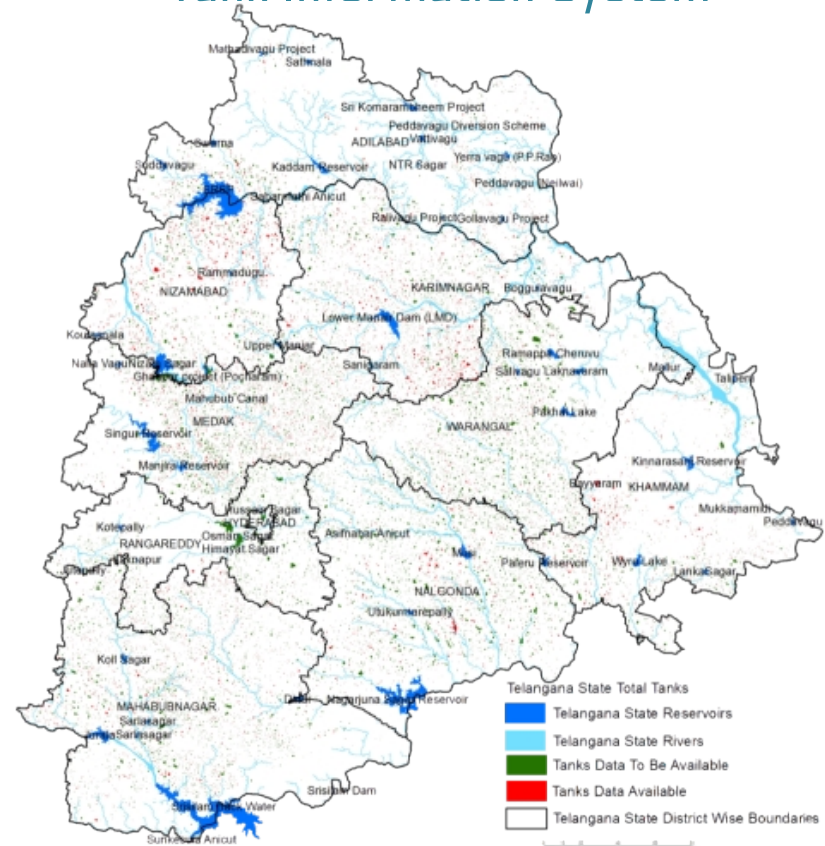
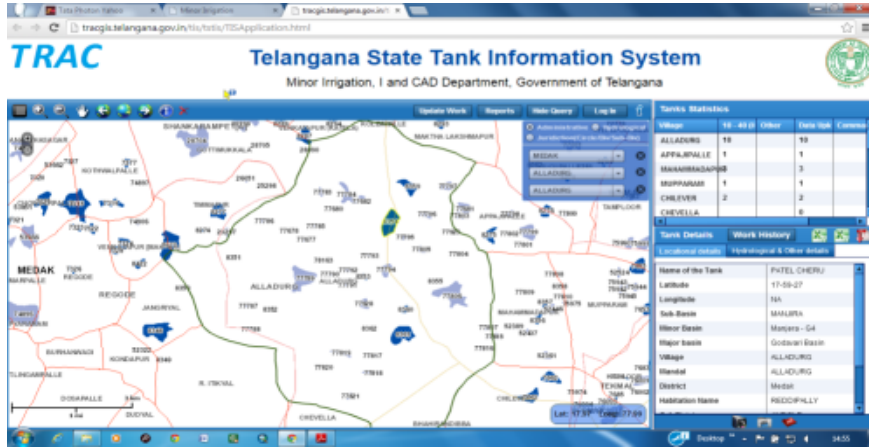
Telangana State Reservoir Capacities					
SNO	RESERVOIR	CAPACITY IN TMC	DISTRICT	MANDAL	VILLAGE
1	NAGARIJUNA SAGAR	408.240	NALGONDA	PEDDAVURA	NANDIKONDA
2	SRISAILAM	263.630	KURNOOL	SRISAILAM	SRISAILAM
3	SRSP	91.000	NIZAMABAD	BALKONDA	POCHAMPADU
4	PULICHINTALA PROJECT	45.000	GUNTUR	BELAMKONDA	BELAMKONDA
5	SINGUR PROJECT	29.910	MEDAK	PULKAL	SINGUR
6	MID MANERU RESERVOIR	25.870	KARIMNAGAR	BOINPELLY	MANWADA
7	LMD	24.500	KARIMNAGAR	KARIMNAGAR	KARIMNAGAR
8	SRIPADA SAGAR PROJECT	20.180	KARIMNAGAR	PEDDAPALLY	YELLAMPALLY
9	NIZAM SAGAR PROJECT	17.800	NIZAMSAGAR	NIZAMSAGAR	ACHAMPET
10	PRIYADARSHINI JURALA	11.940	MAHABUBNAGAR	DHAROOR	REVULAPALLY
11	KOMRABHEEM PROJECT	10.390	ADILABAD	ASIFABAD	ADA
12	KINNERASANI PROJECT	8.400	KHAMMAM	PALWANCHA	YANAMBAIL
13	KADDAM	7.600	ADILABAD	KADDAM	PEDDUR
14	MUSI PROJECT	4.603	NALGONDA	SURYAPET	SOLIPET
15	PAKAL LAKE	3.262	WARANGAL	KHANAPUR	ASHOK NAGAR
16	ALISAGAR PROJECT	2.960	NIZAMBAD	NAVIPET	KOSLI
17	RAMAPPA LAKE	2.912	WARANGAL	VENKATAPUR	PALAMPET
18	LAKNAVARAM RESERVOIR	2.135	WARANGAL	GOVINDARAO PET	SALVAI
19	WYRA RESERVOIR	2.112	KHAMMAM	WYRA	WYRA
20	UPPER MANERU DAM	2.100	NIZAMBAD	KAMAREDDY	MANAIR
21	DINDI PROJECT	2.085	NALGONDA	GUNDLAPALLY	GUNDLAPALLY
22	UDAYA SAMUDRAM	1.500	NALGONDA	NALGONDA	CHANDANPALLY

S.No	DISTRICTS	PIPELINE LENGTH IN KM	TOTAL STRUCTURES
1	ADILABAD	7565	963
2	KARIMNAGAR	4794	94
3	KHAMMAM	4687	2600
4	MAHABUBNAGAR	8122	3055
5	MEDAK	4910	682
6	NALGONDA	8978	456
7	NIZAMABAD	3366	72
8	RANGAREDDY	4276	1785
9	WARANGAL	6383	606
Grand Total		53080	10313

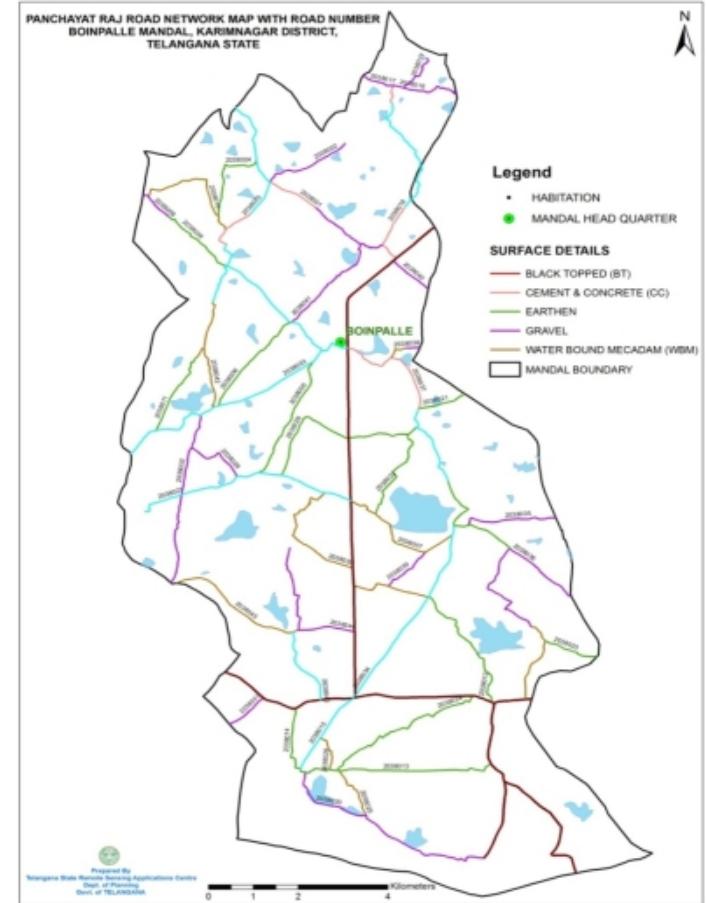
Mission Kakatiya - Tank Information System

Web Interface of Tank Interface System

Tank Information System

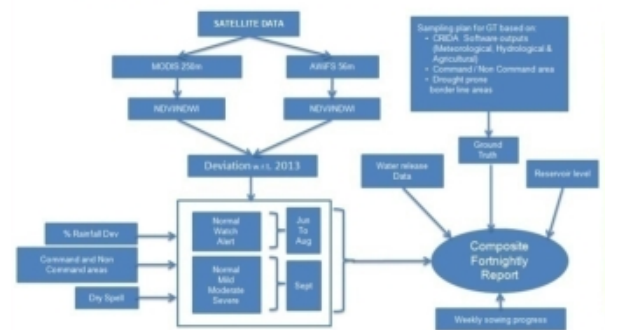
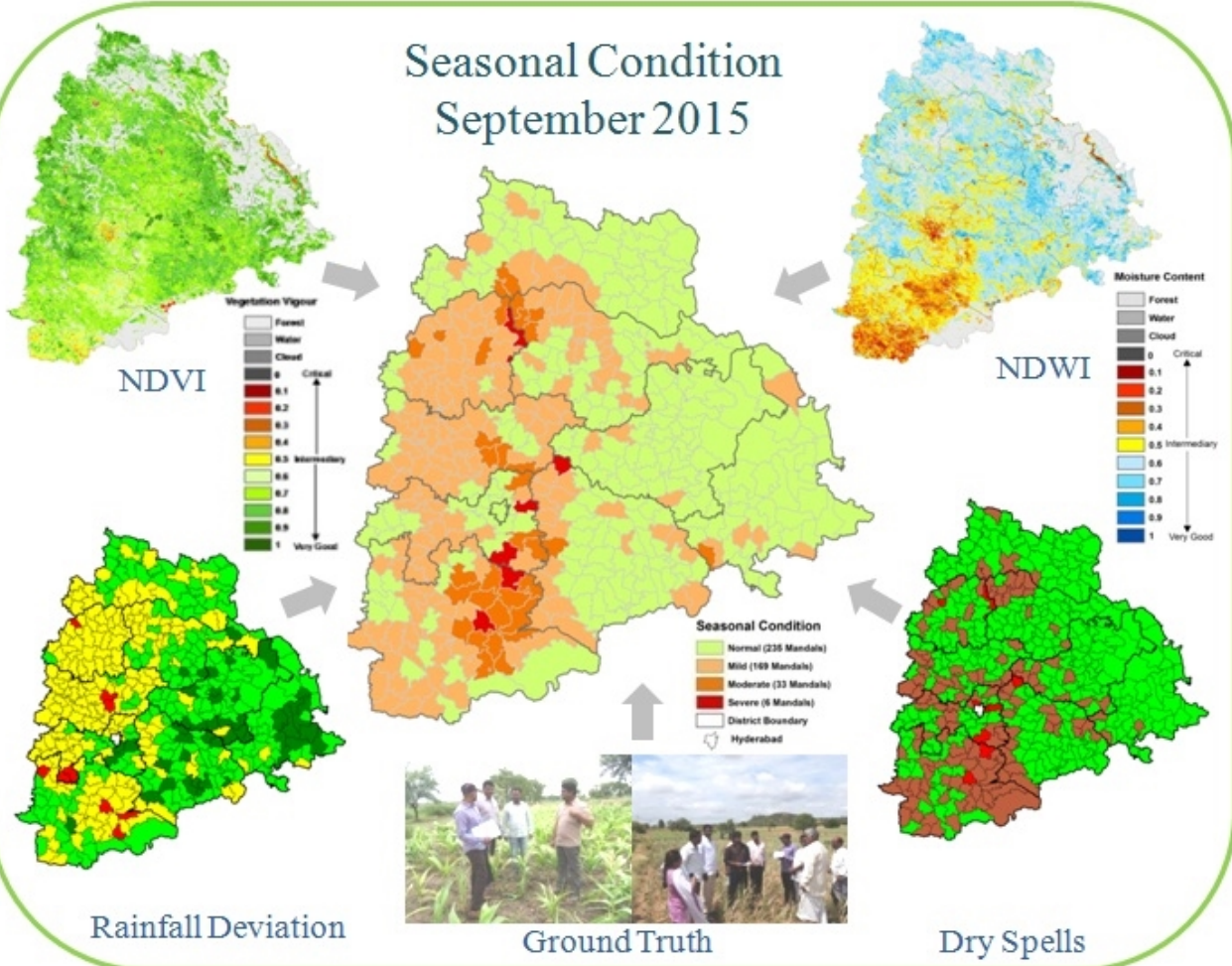


Road Information System of Telangana State



INTEGRATED SEASONAL CONDITION MONITORING SYSTEM (ISMS)

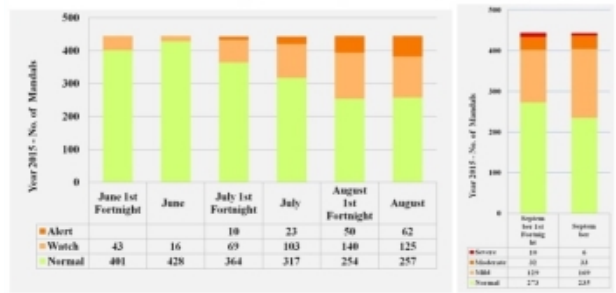
Seasonal Condition September 2015



Classification of Agricultural situation

Month	Category	Description
June-August	Normal	<ul style="list-style-type: none"> Agricultural situation is normal
	Watch	<ul style="list-style-type: none"> Progress of Agricultural situation is slow Ample scope for recovery No external intervention needed
	Alert	<ul style="list-style-type: none"> Very slow progress of agricultural situation Need for intervention Develop and implement contingency plans to minimize loss
September	Mild drought	<ul style="list-style-type: none"> Crops have suffered stress slightly
	Moderate drought	<ul style="list-style-type: none"> Considerable loss in production Take measures to alleviate suffering
	Severe	<ul style="list-style-type: none"> High risk Significant reduction in crop yield Management measures to provide relief

Monthly Seasonal condition of Telangana up to 30th September 2015



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Telangana GIS Implementation Stage

- Coordination mechanism among Departments, proposed.
- GIS framework was proposed to be developed under SSDI, not implemented
- No integration among the available GIS applications
- SeMT Team has provided consulting support on
 - MAUD & GHMC City Planning/Building Approval System,
 - Fibre Grid & Water Grid

GIS Plans / Goals of Telangana

- Smart City Monitoring System: City Planning/ Building Approvals using satellite maps
- On-field Tracking of works/implementation of schemes
- GIS based planning for Government Schemes, eg. Water Grid, Fibre Grid etc.
- Asset Mapping for effective decentralized planning.

Support Desired from DeitY

- Capacity Building in government Departments.
- Establish effective GIS policy framework & GIS standards
- Facilitate coordination between National & State level agencies to reduce duplicate efforts of geographic database development and achieving direct cost benefits
- Involvement in projects of national importance.
- Enhancement of GIS Infrastructure

Thank You