GIS for Empowerment

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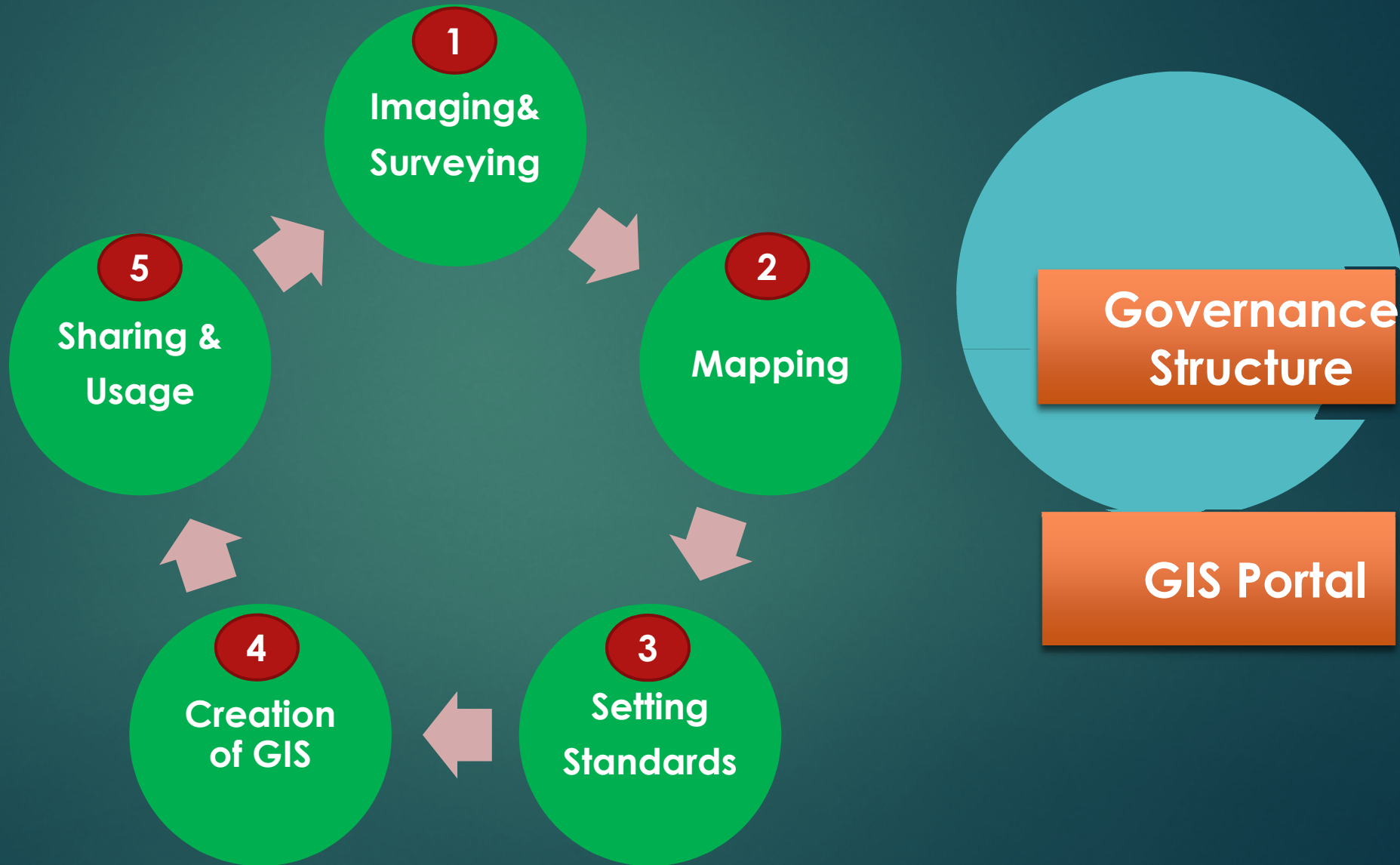
No	Application	Objectives
		Agriculture
1	**Integrated Seasonal Condition Monitoring System (ISMS)**	Concurrent monitoring of seasonal conditions using remote sens extensive weather network data and continuous ground truthing. Develop an early warning of drought using a suite of indicators,
2	**FASAL (Forecasting Agricultural output using Space Agro-Meteorological and Land based observations)**	In-season forecasting of District level acreage and production for m crops
3	**National Land Use Land Cover Mapping using Multi-temporal Satellite Data**	Spatial database on land use/land cover
4	**GIS-based Soil Health Information and Nutrient Management System (G-Soil)**	Development of soil nutrient database from archive data of Soil Tes Laboratories (STL) of AP for the years 2000 to 2014 and generation of health maps at district, mandal, village and cadastral level. Development of soil portal and link with AGRISNET for soil nutrient dat STL' s of A P and automatic generation of soil fertility maps.

No	Application	Objectives
	Irrigation	
	Satellite-Based Command Area Monitoring for Major and Medium irrigation projects	Estimation of extent of Wet and ID crops in Major and Medium Irrigation Projects a Assessment of Water Use Efficiency at Project/distributaries level.
	Tank Information System	Mapping of all MI Systems. Identification of suitable sites for new irrigation structures in surplus areas.
	Reservoir Sedimentation Studies (RSS) of all medium and major reservoirs.	Estimation of rate of siltation and loss of storage using Remote Sensing and GIS technique
	Canal Network Flow System for Major and Medium irrigation projects	To achieve optimum utilization of water flow through canals by monitoring water relea at important points in the canal network.
	Integrated Watershed Management (IWMP)	Generation of natural resources database and suitable developmental action pla including identification of sites for Water-harvesting structures, through remote sensing a GIS techniques at cadastral level on 1:10,000 scale for watersheds in DPAP / DDP a backward districts of Andhra Pradesh.
	Sea water intrusion studies along the coast of Andhra Pradesh	To investigate and assess the potential threat of seawater intrusion to the unconfin aquifer in the coastal areas of AP coast to benefit irrigation, industrial and environmen users of the ground water resources.
	Development Planning	
	Generic Asset Mapping Tool	To create a generic tool and GIS layer to map the community/ Government assets in various sectors like (i) Educational Institutions (ii) Healthcare Institutions (iii) Roads Industrial Parks and Industries (v) Tourism spots. (vi) Power
	Creation of sub parcel level geo-rectified digital Cadastral	The main objective of the study is computerization of cadastral maps with sub parcels a generating GIS compatible soft copy products.

Components of AP GIS Policy

1 Imaging& Surveying

2 Mapping

3 Setting Standards

4 Creation of GIS

5 Sharing & Usage

Governance Structure

GIS Portal

Citizen Interface

Enterprise Application Architecture

GROUP APPLICATIONS

- **Content Management**
- **Sector Promotion**
- **Land Management**
- **Project Management**
- **Social Benefits**

SEVEN MISSIONS

- Primary
- Social
- Skills
- Service
- Industry
- Infrastructure
- Urban

Other Depts & Agencies

Cross-cutting Services
e-Biz, ICJS, Disaster Mgt, Nutrition, EMS..

CORE Dashboard	KM	e-Office	State Portal	e-Cabinet

Productivity

HRMS	Financial Mgt	Logistics	e-Procurement	Litigation Mgt

Establishment

Land	People	Entities	GIS	Things (IoT)

Core Data

Security	e-Mail, VC	Identity & Access Mgt	Mobile Gateway	Payment Gateway	Social Media Gateway

Support

Data Centre	Cloud	WAN/SDN	LAN & WiFi	Call Centre	Fibre Grid	e-Service Delivery

Infrastructure

Areas to be targeted

1. Urban Development
2. Smart Cities
3. Mining
4. Forest
5. Environment
6. Disaster Management
7. Decision Support Systems

8. Agriculture
9. Fisheries
10. Rural Development
11. Planning
12. Water Resource Management
13. Traffic Management
14. Public Assets Management

Thank You

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