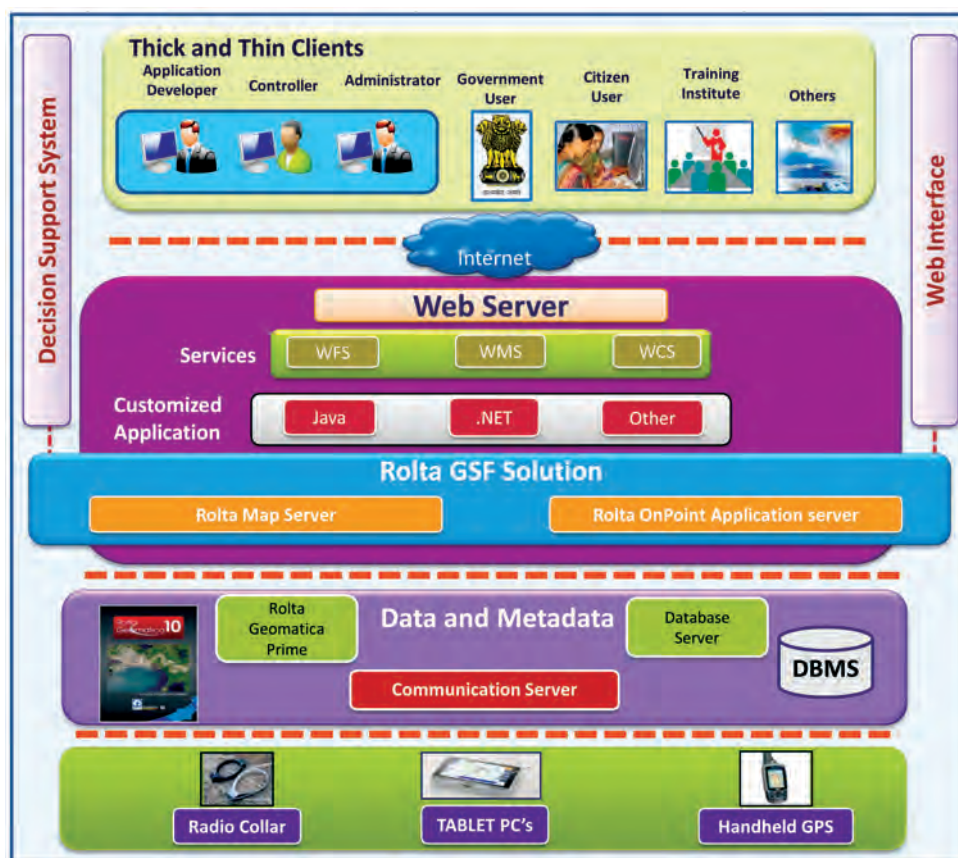# Forest Management

The rapid deforestation and degradation have made conservation and protection of the existing forest lands imperative through sustainable forest management approach. To fulfill ecological and socio-economic aspects of sustainability there is a need for integrated decision support systems to support strategic and planned operational initiative of forest department

Managing forests in today's ever-changing world is multifaceted job for forest officer and wildlife conservators. Forest management practices involve coordination among various agencies which are unswervingly related. It involves observation of environmental change over time and space to find out spatio-temporal variation of environment.

Rolta Geospatial Fusion™ for forest management provides advanced tools and applications to establish web based enterprise level applications for forest management involving multiple stakeholders (departments, agencies and community) by integrating latest industrial trend in geospatial industry and web technologies.

Rolta's solution enables to view, model and manage data for effective planning, conservation and sustainable utilization of existing forest resources.

• Plan, Implement and Monitor: The solution allows planned implementation of forest plans (Working Plan, Management Plan) as well as provides monitoring capabilities across the organizational hierarchy.

- Protect and Manage: Rolta's solution provides decentralized mechanism to identify and manage common threats (forest fire, encroachment, poaching) and conflicts with human settlement and fringe villages.
- Identify, Prioritize and Conserve: Spatial data integration and data analysis achieved through Rolta's solution enables agencies to identify, prioritize unique habitats and heritage sites for conservation.
- Plan and Manage Assets: Rolta's solution helps to establish a state-of-the-art spatially enabled asset management system that identifies existing assets and prepare asset based plan, identify additional requirements like water holes, watch towers, fire lines, nurseries, etc. through a robust criteria/rule based decision support system.

Besides these the enterprise approach also enables multi-level data security through user based access to resources (data, applications and tools) for centralized data administration and storage.

Key Features

- State of the art spatially enabled Forest Asset Management System

- Thematic information of species movement for corridor mapping

- Habitat management through spatial overlay operations

- Spatio-temporal species distribution representation with charts, graphs and reports

- Site specific planning for eco-tourism activity

Benefits

- Location Specific Management Plans for Afforestation, Plantation, Forest Nurseries, Social Forestry, etc.

- Implementation of Working Plans and Management Plans for sustainable utilization of existing resources

- Integration of MIS data for Establishment of Centralize Knowledge Base

- Identifies , Prioritizes and Provides facilities to monitor the unique Habitats and Heritage

- Provides decentralized mechanism to identify and manage common threats (forest fire, encroachment, etc)

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