Significance of GIS/Remote Sensing

in

Forest Research

What is GIS & Remote Sensing?

 GIS – Geographic Information System is a computer based information System used to digitally represent and analyze the geographic features present on the earth's surface and the events that taking place on it.

 Remote Sensing – It is a surveying and data collection technique about an object or area from a distance, without actually touching it.

Steps of GIS work

- Data Capture & Processing Satellite Imagery, Aerial Photographs,
 GPS Devices.
- Data Preparation & Management computer/software readable format and storage.
- Data Analysis Data Comparation, Predictions, Surface analysis, Change detection.
- Data Presentation Maps, Images, Table & Graphs.

Need of GIS & Remote Sensing

- Map preparation Grid point map, forest cover map, stock map, management map, google earth map etc.
- Forest Fire management, deforestation and degradation of forest land, resource management.
- Wildlife habitat and movement tracking.
- Agroforestry cluster development.
- Watershed management and planning.
- Impact assessment Land Use Land Cover

Institute & their Works

- Kerala Forest Research Institute
- IIRS, Dehradun -
 - Training & Education Diploma, Mtech, certificate programs
 - Research & Development -
 - Outreach Programs Online courses for students, professionals and government officials
- FSI, Dehradun -
 - Forest Cover Biennially
 - Develop database on forest tree resources
 - Thematic map
 - Conduct training Resource survey, Remote sensing & GIS
 - Mapping

Institute & their Works

NRSC, Hyderabad

Works - Satellite data acquisition and processing

Data dissemination – provide data to user agency

Bhuvan Platform

Thematic map preparation

Supports project – Agriculture, Forestry, disaster management, urban planning.









