



Forest Geo-Hub

A collaborative platform for sustainable
management of Environment & Forests





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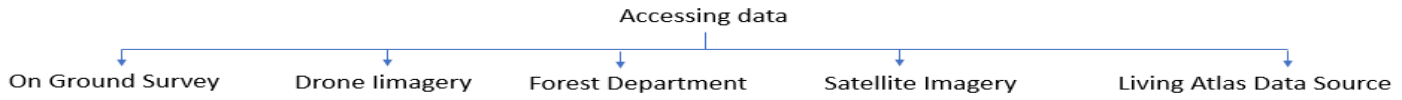
Forests cover approximately 31 percent of the global land area and in India, about 21.67% of the geographical area is covered by forests. With ever-expanding development activities and urbanization, deforestation and forest degradation continue to take place at alarming rates. To protect forest ecosystems and minimize the ongoing loss of biodiversity, access to accurate information is critical. Today, decision-makers need visibility on the latest forest cover data, change in the forest spread, tree plantation, or any illegal activity for effective forest planning, management, and sustenance.

Geographic Information System (GIS) empowers forest managers with essential tools to manage multiple workflows such as forest type - cover, landscape integrity, biological richness, and protected areas, etc.

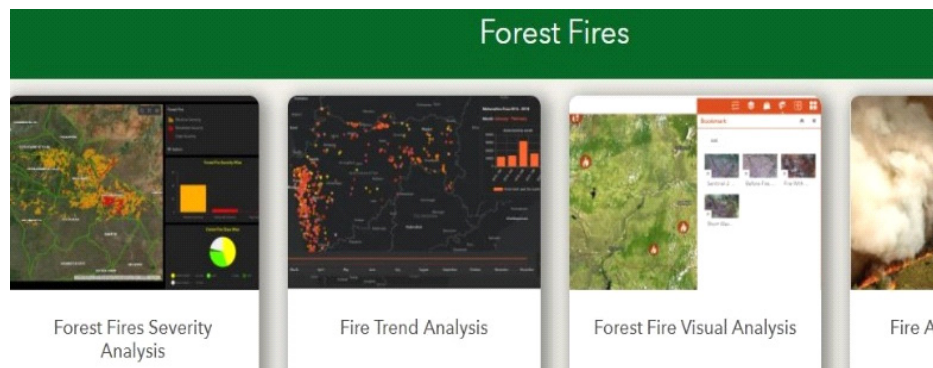
Esri India's Forest GeoHub is a single point destination for forest managers to share updated forest information and data sourced from different sources in a common GIS platform. It is a hub of all relevant applications featuring diverse workflows that provide an in-depth view of the jurisdiction forest area. The workflows provide pointed domain-specific information through data visualization over the web and enable users to visually interpret any change through trends data to further take actionable decisions. The main objective of this platform is to give a common view to the relevant authorities and departments involved in forest management to help reduce damage and focus on risk preparedness.

Some of the key application areas of Forest GeoHub:

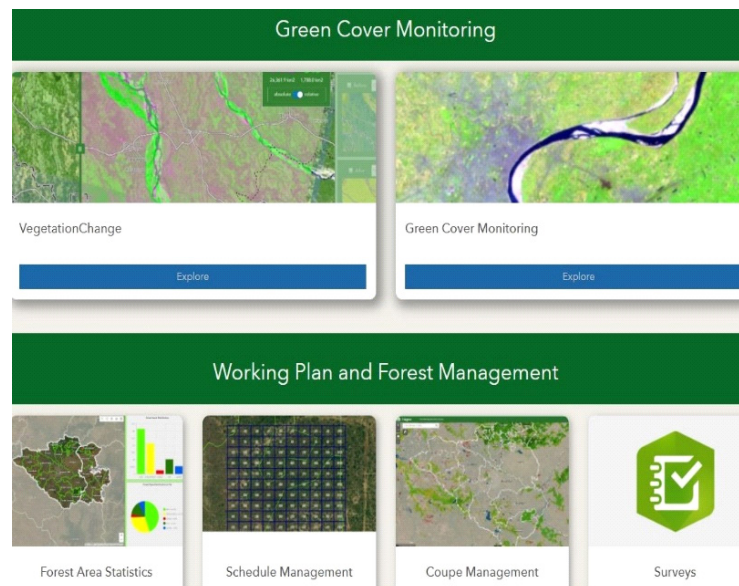
- 1 Forest GIS data clearinghouse:** A central hub of updated departmental GIS data i.e., satellite imagery, mobile photo, video or drone, and relevant PDF reports



- 2 Plantation Monitoring:** Dashboard view of multiple plantation activity backed by GIS-based data, web applications enabling report creation, and a corresponding mobile app for field reporting.



- 3 Fire:** GIS-based web and mobile application enabling effective mapping of forest fire spread and populating dashboard to generate updated reports utilizing FSI information



- 4 Monitoring:** Specialized Forest monitoring via satellite/drone multispectral imagery to identify any change in forest cover
- 5 Forest Area Management:** Dashboard featuring forest cover and type map to identify any change or red flag early warning systems for deforestation.
- 6 Forest Right Act:** Satellite imagery data and periodic drone activity to identify any illegal encroachment, or activity within the forest area. Also, Custom GIS mobile app and web app to delineate any claim.



- 7 Wildlife Monitoring:** A centralized view of up-to-date data on animal-human conflict, damage to land or people, geographical pattern, and a corresponding mobile app for field reporting.
- 8 Protected Area Management:** Application to detect and monitor forest degradation, ecosystem restoration, log incidents, and present reports. ArcGIS for Protected Area Management allows protected area management staff to work more effectively and transparently on conservation area management challenges both within and beyond a park boundary.

Esri's Forest GeoHub is a robust platform backed by credible spatial data that is designed to help users explore data layers to improve planning, reporting, and understanding. With this, the users can identify any shortcomings in their current approaches and further effectively pave way for policy, planning, strategy formulation for efficient forest management

If you have any questions about Forest GeoHub, email us at info@esri.in or visit us at <https://www.esri.in>

About Esri:

Esri, the global market leader in geographic information system (GIS) software, offers the most powerful mapping and spatial analytics technology available. Since 1969, Esri has helped customers unlock the full potential of data to improve operational and business results. Today, Esri software is deployed in more than 3,50,000 organizations globally (more than 5,000 organizations in India) including the world's largest cities, most national governments, and 75 percent of Fortune 500 companies. Today, Esri engineers the most advanced solutions for digital transformation, the Internet of Things (IoT), and location analytics to inform the most authoritative maps in the world. Our core values revolve around a user-centric approach where we are committed to serving our users and customers.

Established in 1996, Esri India is headquartered in Noida, Uttar Pradesh, with multiple regional offices across India.



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