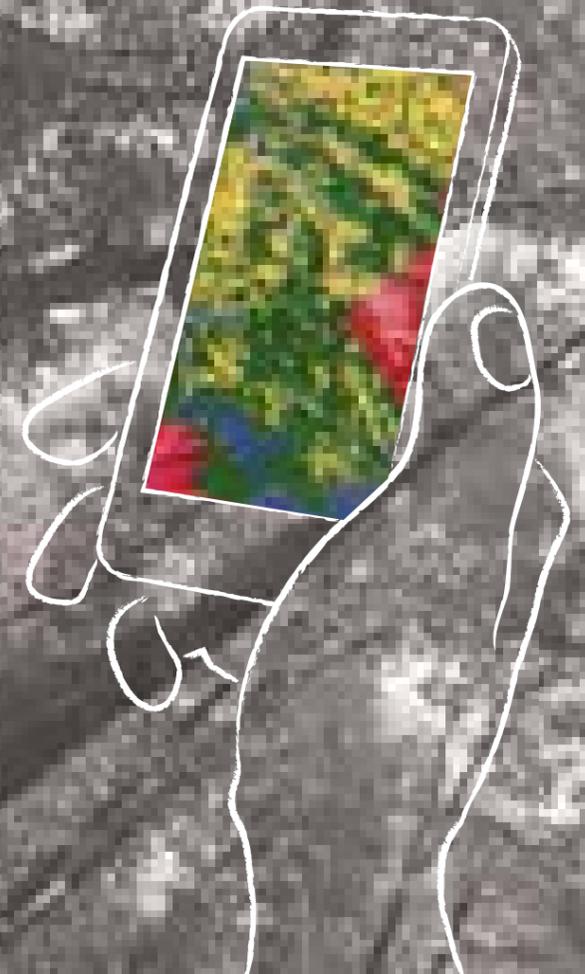


**WHAT  
WE  
MONITOR...**



**Forest-PLUS  
TECHNOLOGIES  
FOR HEALTHY  
FORESTS  
IN INDIA**

**Forest-PLUS**

Partnership for Land Use Science



**Become a  
Technology Partner  
to Forest-PLUS**

Forest-PLUS invites technology providers and investors to partner with us as we develop innovative solutions that will transform forest ecosystem management while improving community livelihoods in India.

Partners include firms that can contribute resources for app development, internet bandwidth in remote locations and big data analysis for forest landscape assessment and village-level microplanning.

Forest-PLUS partners benefit from:

- Access to an extensive network of experts in forestry, community development, community enterprises, communication, training and green finance
- Feedback and support from our government partners at the central, state and community levels
- Support from field teams present in our landscapes in four states of India
- Strong relationships with local communities
- Execution and monitoring support for testing and piloting technologies
- National and international exposure for your technology
- Links to USAID programs and platforms



**Contact us:**

Christopher Kernan, Chief of Party, Forest-PLUS  
+91 9560311414, kit.kernan@tetrattech.com  
Varghese Paul, Senior Forestry Advisor, USAID  
+91-11-2419-8312, vpaul@usaid.gov

**WE  
MANAGE  
BETTER.**

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Forests play a significant role in climate change: healthy forests provide vast carbon sinks that trap CO<sub>2</sub> from the atmosphere while forest degradation and deforestation leads to CO<sub>2</sub> emissions while adversely affecting biodiversity and forest-dependent communities. REDD+ is an emerging global policy mechanism which aims to compensate developing countries for reducing forest carbon emissions and enhancing stocks, while ensuring biodiversity and community safeguards.



### Challenges for taking REDD+ to scale in India

- Low efficiency and frequency of forest monitoring, carbon inventory and reporting
- Inadequate community participation in forest monitoring, carbon inventory and reporting
- Limited data management tools in forestry
- No real-time information dissemination tools for planning and monitoring
- Poor chain of custody for forest products

# Technology can fundamentally transform how forests are managed and governed in India.

Forest-PLUS is developing cost-effective tools to connect decentralized data generation with robust data analysis and reporting at national, state and local levels. These data solutions support transparent and improved forest management and community-based planning while laying the foundation for a community-based monitoring, reporting, and verification (MRV) of REDD+ activities.

Forest-PLUS Technologies under development:

### Forest Data Management System (FDMS)

The FDMS is an enterprise solution supporting improved forest management in India. The FDMS will receive and analyse decentralised data using various tools and mobile apps being developed by Forest-PLUS. A key module of the FDMS is the Inventory Data Management System (IDMS) which measures carbon stocks and land use emission fluxes. The IDMS combines field data with the analysis of remote sensed data to report forest carbon estimates and helps India meet its REDD+ MRV requirements.

### Remote Sensing Protocols

Forest-PLUS is developing advanced protocols to estimate forest carbon using ground-truthed optical and synthetic aperture radar (SAR) remote sensed data. These protocols give accurate, frequent, and higher resolution measurements of forest carbon, allowing rapid and efficient MRV of REDD+ activities.

### mForest App

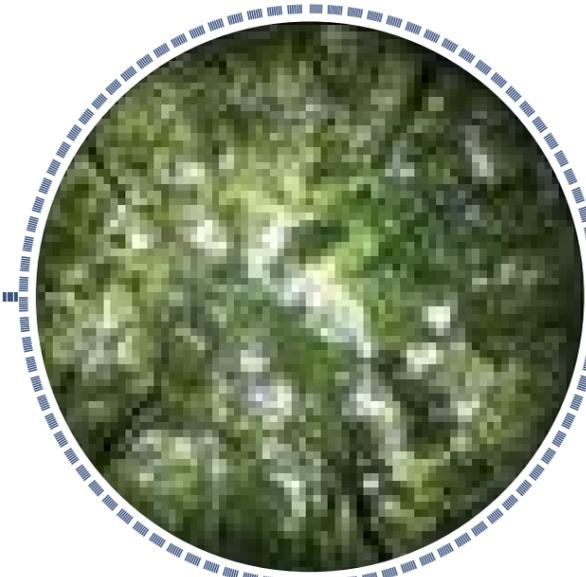
The Forest-PLUS mForest app gives forest departments and communities an efficient mobile technology-based tool for forest inventories. The app connects seamlessly with the IDMS to receive and share spatial, topographical, and ecological information.

### PLAN-IT App

The Forest-PLUS PLAN-IT app gives forest dependent communities and development planners easy access to scientific and technical data and analysis to improve village-level microplanning.

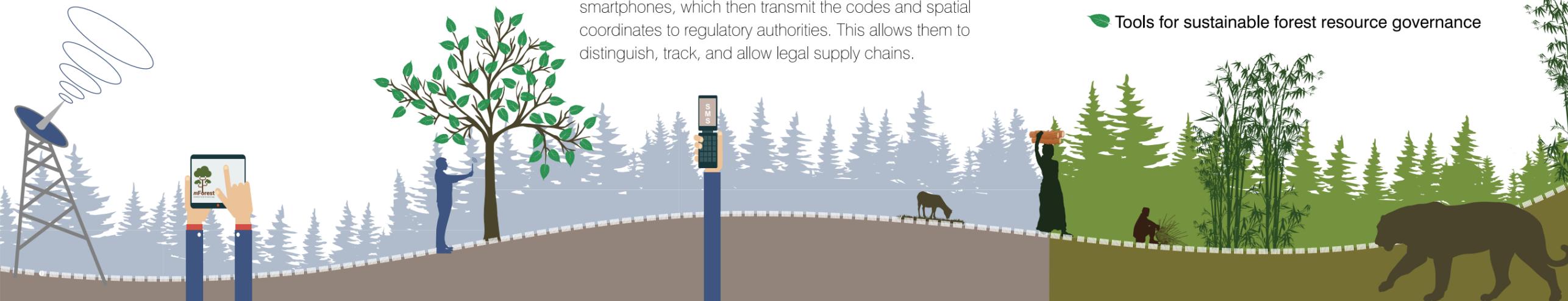
### Chain of Custody (COC) App for Forest Products

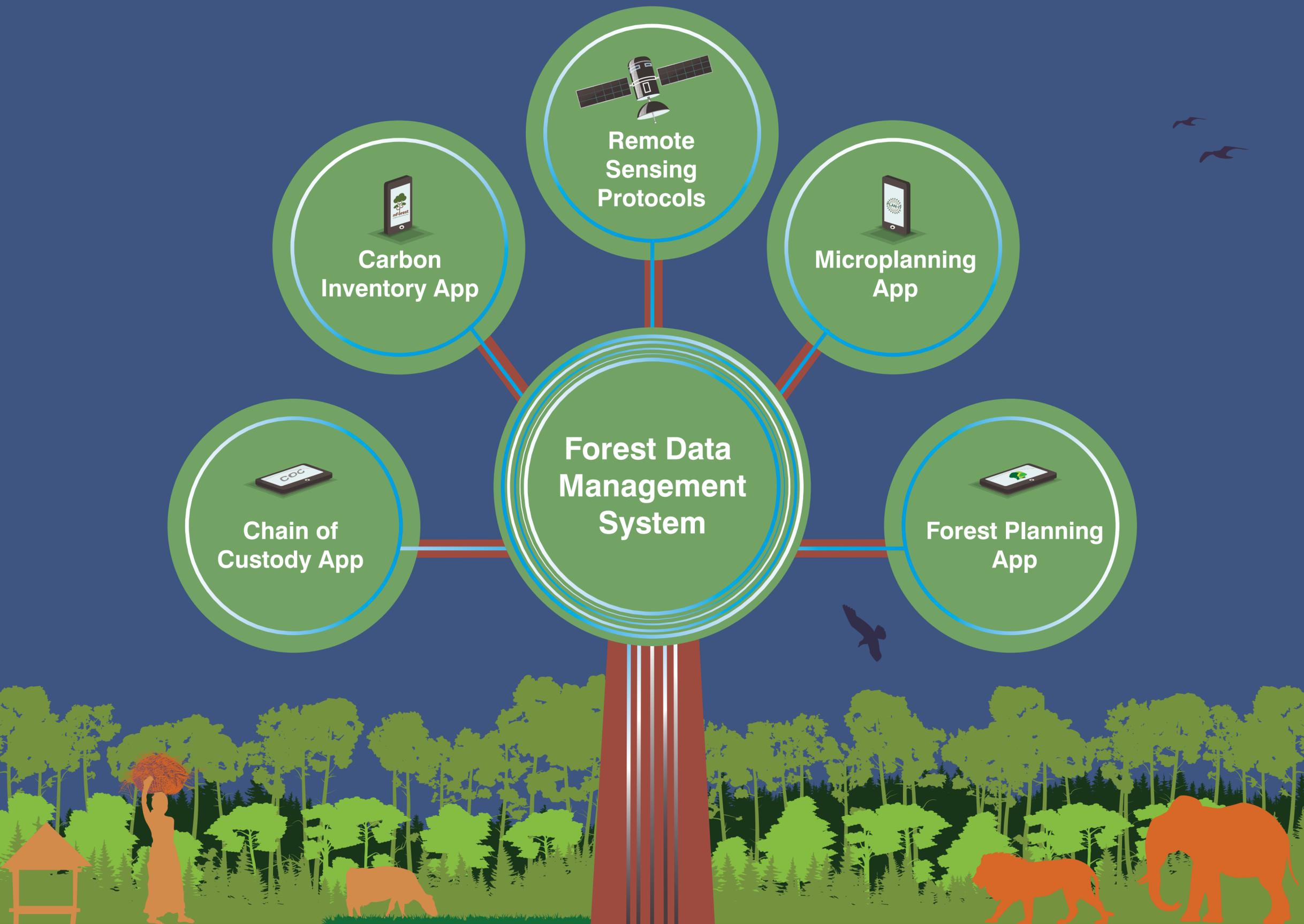
The COC app helps track forest products from legal origin to market. It tags the products with unique codes readable by smartphones, which then transmit the codes and spatial coordinates to regulatory authorities. This allows them to distinguish, track, and allow legal supply chains.



### Forest-PLUS technologies enable effective land use management that is inclusive and transparent by providing stakeholders:

- Efficient and frequent forest monitoring, carbon inventory and reporting
- Sustainable value chains of forest products, yielding improved community livelihoods
- Accountability in forest products' trade through chain of custody tracking
- Decentralized information gathering and dissemination
- Forestry data management tools with real-time access for planning and monitoring
- Tools for sustainable forest resource governance

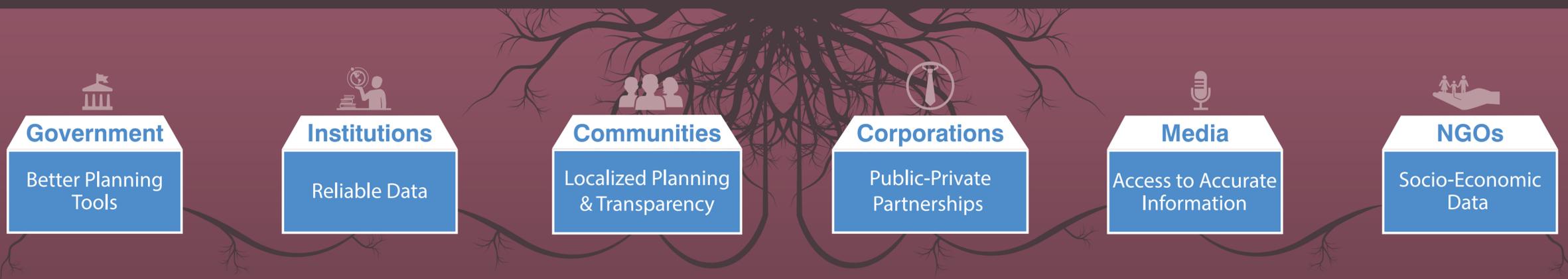




IMPROVED LIVELIHOODS

**CARBON BENEFITS**

BIODIVERSITY PROTECTION



# Forest-PLUS Technologies for Healthy Forests