

Policy brief on C&I and Forest Policy and Management Support Information Systems

Information Systems: Important Tool for Better Forest Policy and Management



FORESTS



**WORKSHOP ON FOREST MONITORING AND RESTORATION
IN THE CAUCASUS AND CENTRAL ASIA**

9 DECEMBER 2020, ONLINE



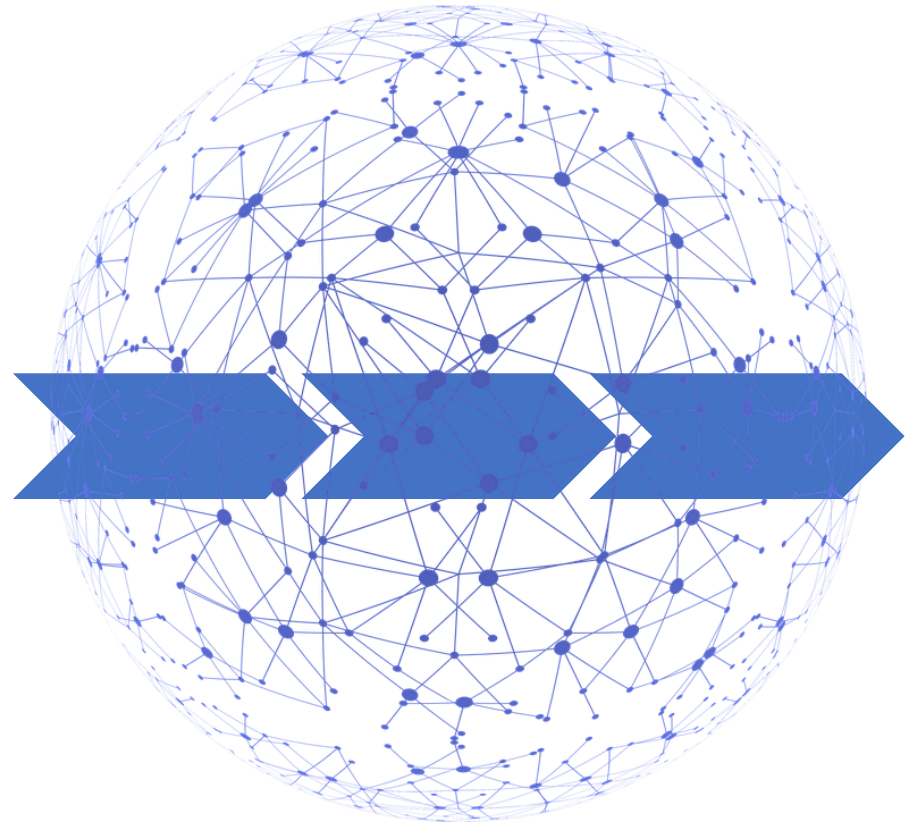
Scope of Forest Policy and Management Support Information Systems

Forest policy is a complex, multi-discipline matter

FORESTS



- Effective policy requires appropriate decisions.
- Politics – sequential exchange of information and opinions that connects all stakeholders, dynamic in space and time.
- Competence in information acquisition and processing determines efficiency of administration.



UNECE



Food and Agriculture Organization
of the United Nations

Scope of Forest Policy and Management Support Information Systems

Forest policy is a complex, multi-discipline matter

FORESTS



- Forest Policy and Management Support Information Systems (FPMSIS) are **tools that facilitate forest policy making**.
- They provide assistance in
 - gathering information on forests,
 - making it accessible,
 - making informed decisions,
 - monitoring their results
 - making corrections to current policies.



UNECE



Food and Agriculture Organization
of the United Nations

Scope of Forest Policy and Management Support Information Systems

Main functions of FPMSIS

FORESTS



Decision Support Systems

- information processing
- analyses and modeling
- visualisation tools
- growth models
- forest management planning
- forest disturbance models etc.

Resource Management Systems

- facilitate resource management
- help operate businesses and organisations
- accounting
- budgeting
- reporting

Information Sharing Systems

- cross-exchange of information between entities
- provide interoperability
- increase administrative efficiency

Communication Support Systems

- public communication
- increase social activity
- transparency
- promote legitimacy of forest policy



UNECE

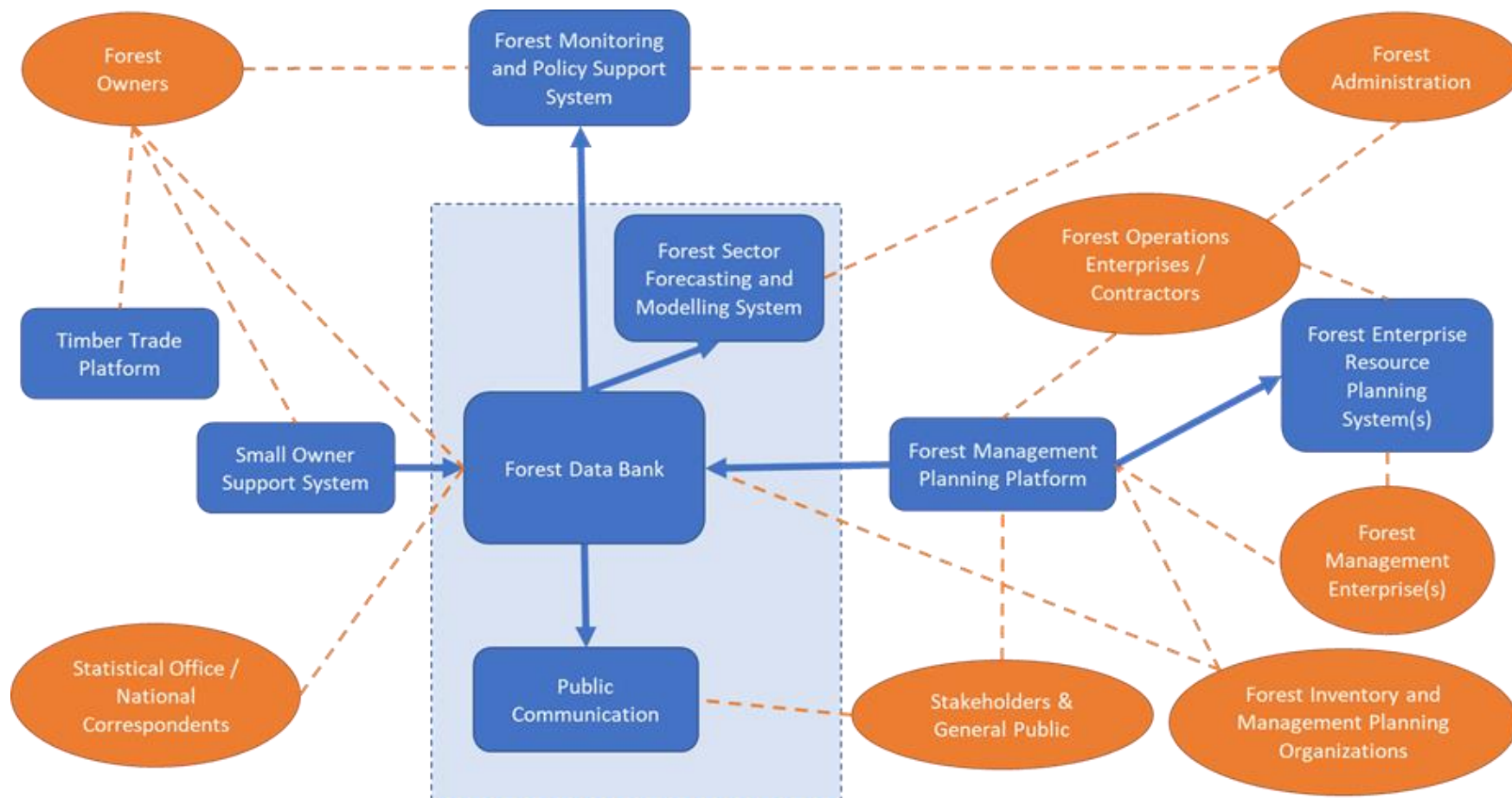


Food and Agriculture Organization
of the United Nations

Scope of Forest Policy and Management Support Information Systems

Components of FPMSIS

FORESTS



Benefits of having FPMSIS

FORESTS



- **Benefits:**
 - improve efficiency of operations
 - reduce costs
 - give decision-makers better and more complete information
 - strategic resource for economic growth
 - increased transparency and participation



UNECE



Food and Agriculture Organization
of the United Nations

How to develop a national FPMSIS infrastructure?

Choose the right approach and size

FORESTS



- **Analysis!**
 - What are the needs and opportunities for improvements?
 - Involve the most important stakeholders
 - Ensure balance and impartiality
 - Choose what's suits best
 - Consider existing components
 - Think of alternatives
 - Evaluate total cost
 - Cost-effectiveness analysis

How to develop a national FPMSIS infrastructure?

Criteria and Indicators of Sustainable Forest Management can be a cornerstone

FORESTS



- Forest management and policy are complex domains, they must be conceptually streamlined for the sake of efficiency and communication.
- Criteria and indicators of SFM:
 - outline an area of competence/interest of SFM in a country
 - provide a tool for measuring progress towards SFM
 - provide structure for forest inventory and national forest reporting
 - optimise the number of parameters measured
 - facilitate the communication process
- This is a **strategic tool** for forest policy and management.



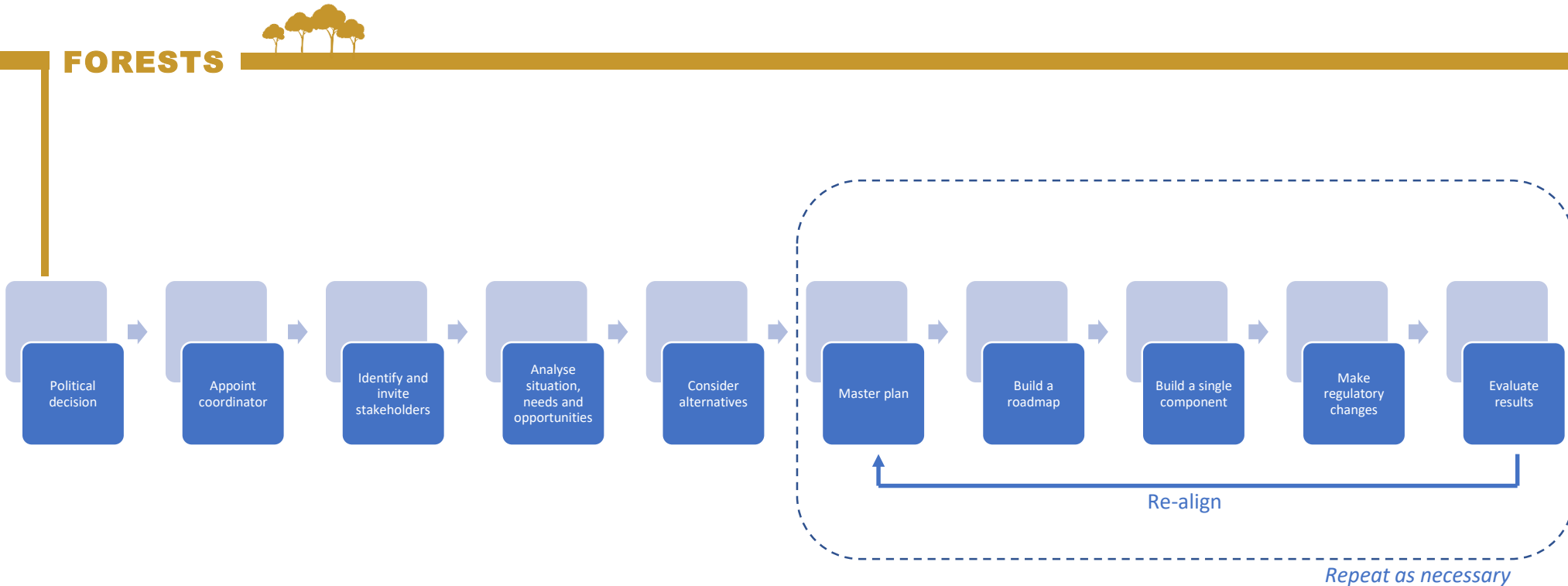
UNECE



Food and Agriculture Organization
of the United Nations

How to develop a national FPMSIS infrastructure?

An example proces of building FPMSIS



Inception

Planning

Implementation

How to develop a national FPMSIS infrastructure?

Need for sustainability

FORESTS



- FPMSIS is a cutting edge innovation

TECHNOLOGY + ORGANIZATIONAL CHANGE

- Involved actors must understand benefits AND requirements AND be committed to implementation
- Ensure:
 - uninterrupted operation
 - permanent processes of information update
 - continuous alignment to current needs
 - stable funding and resources



UNECE



Food and Agriculture Organization
of the United Nations

Thank you!



FORESTS



Dr. Andrzej Talarczyk
Independent researcher

andrzej@talarczyk.com

