

FOX

FOrest Carbon Sink Optimization Model

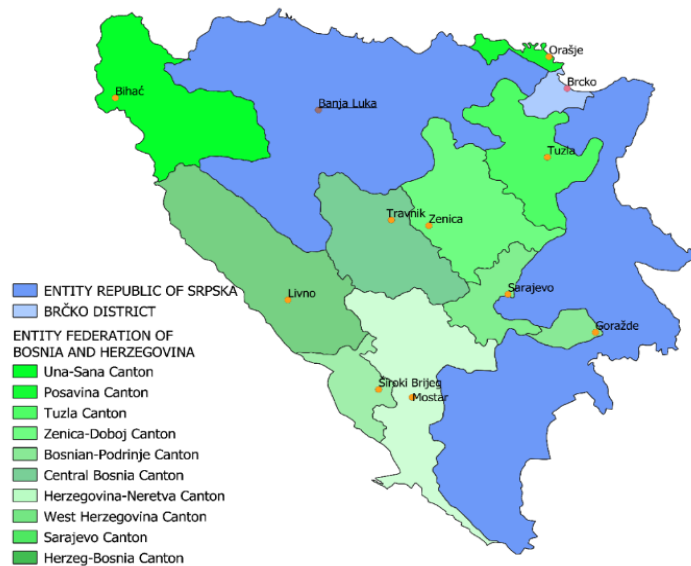
Applicaton of FOX for Bosnia and
Herzegovina

13.06.2023

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ADMINISTRATIVE STRUCTURE

DECENTRALIZED STATE



Republic of Srpska Entity

Ministry of Agriculture, FORESTRY and Water Management of RS

Public Forest Enterprise „Šume Republike Srpske“



49%

Federation of BiH entity

Ministry of Agriculture, FORESTRY and Water Management of FBiH (11 Ministries)

Public Forest Enterprise „Šume FBiH“



51%

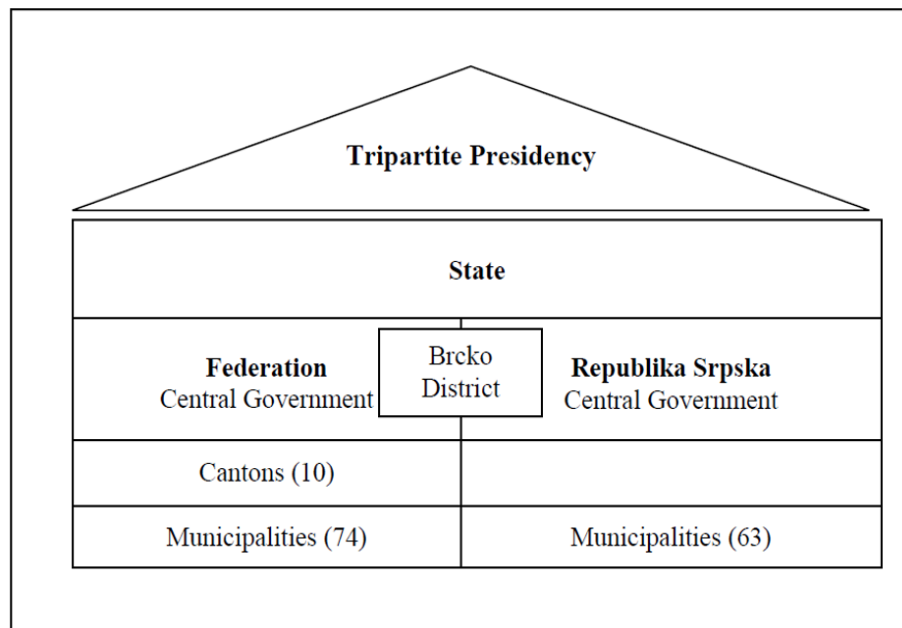
District Brčko

Ministry of Agriculture, FORESTRY and Water Management of BD

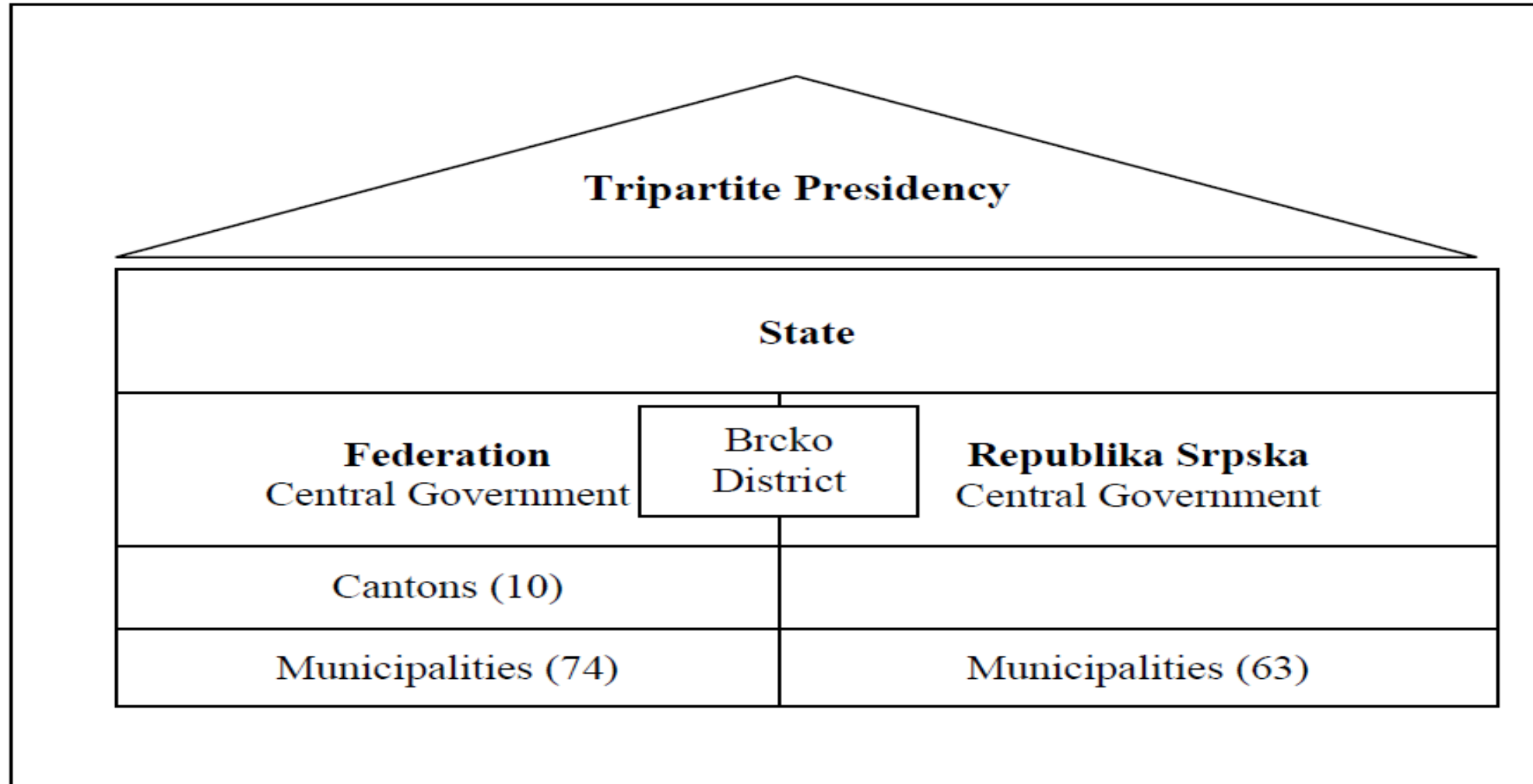
Public Forest Enterprise „Šume FBiH“



0,03%

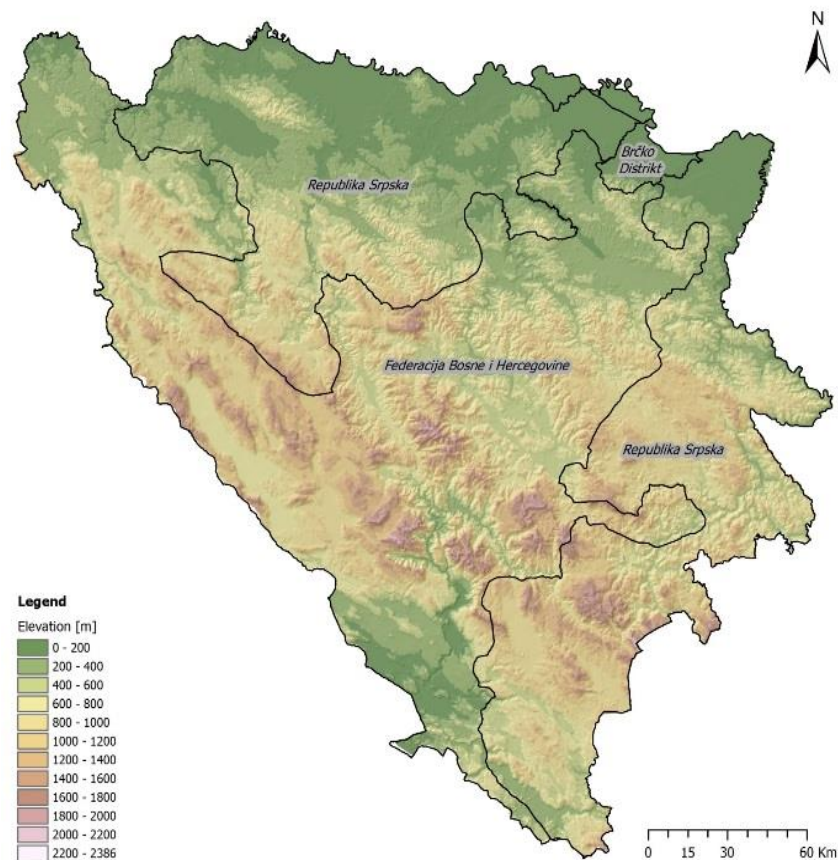


The Constitutional Structure of Bosnia and Herzegovina.



NATURAL CHARACTERISTICS

GEOMORPHOLOGY



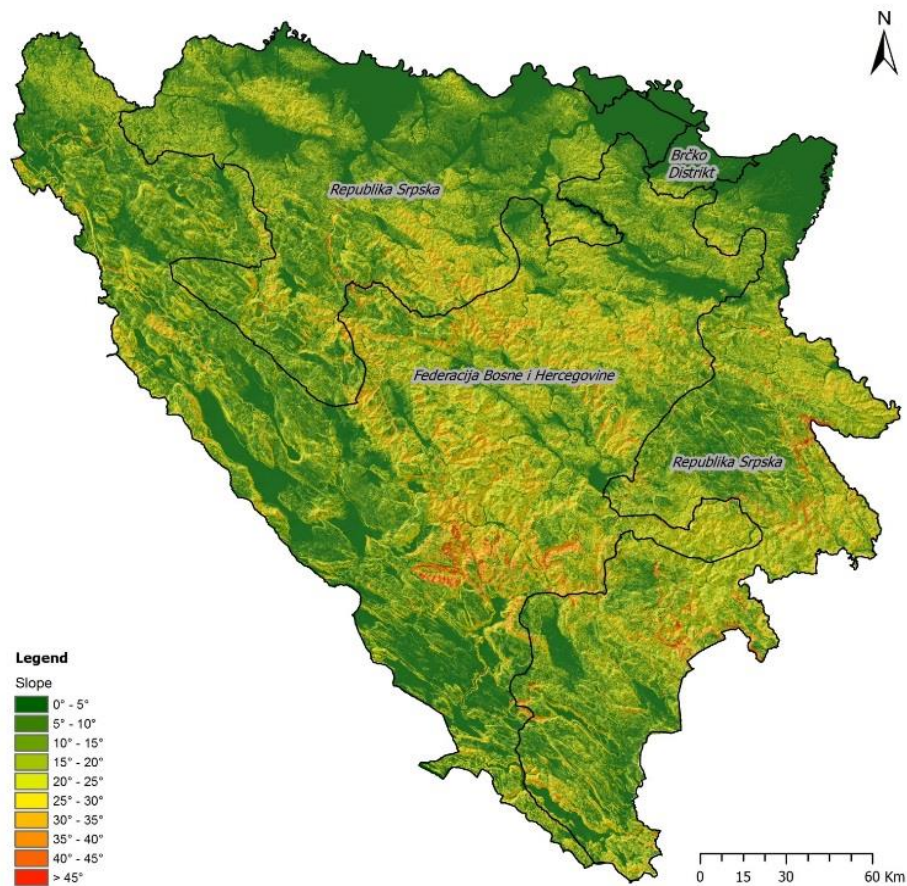
VEGETATION



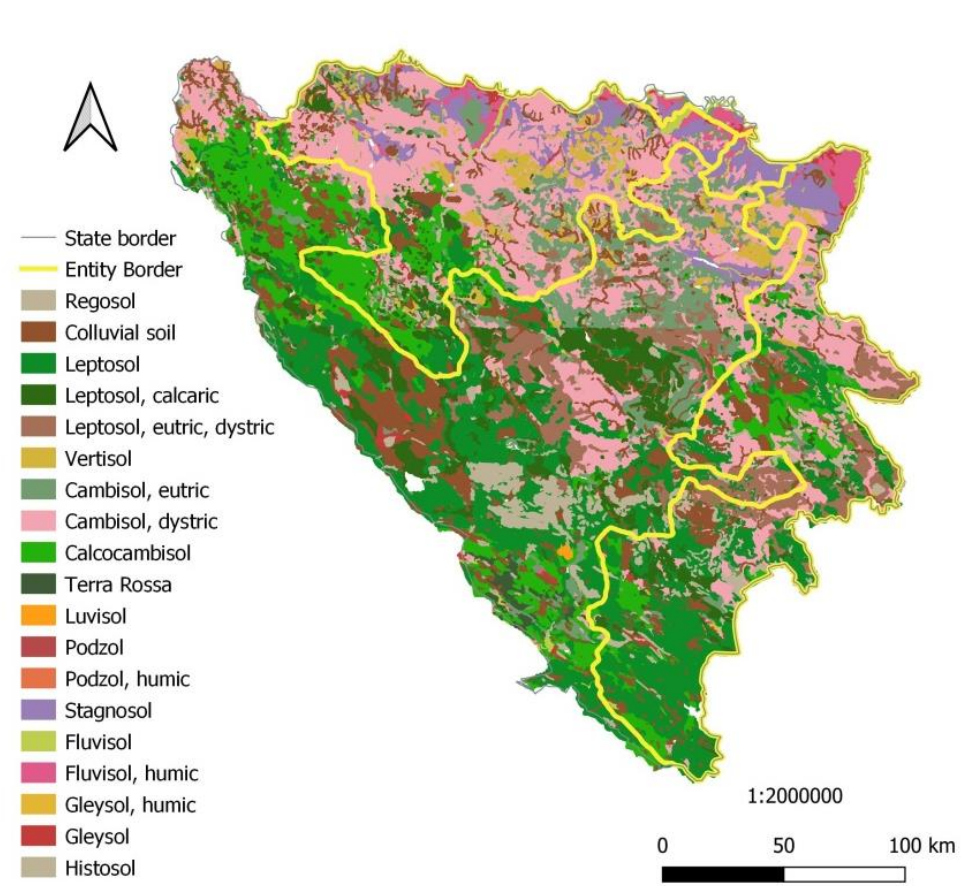
57,3% territory above 500 m altitude

cca 52% of Forests and Forest land

NATURAL CHARACTERISTICS



39,7% with slope above 15°



soils

FORESTRY SECTOR

JOINT CHALLENGES



Illegal exploitation

Post conflict country

High political tensions over natural resources

Juristictions and mined areas



FORESTRY SECTOR

JOINT CHALLENGES



Implementation of legal framework

Weak implementation of existing framework

Absence of Law on Forestry in FBiH

Unsufficient system of control

FORESTRY SECTOR

JOINT CHALLENGES



Weak economical situation

High pressure on forests

Low awareness on ecological functions

Juristictions over forests and forest land



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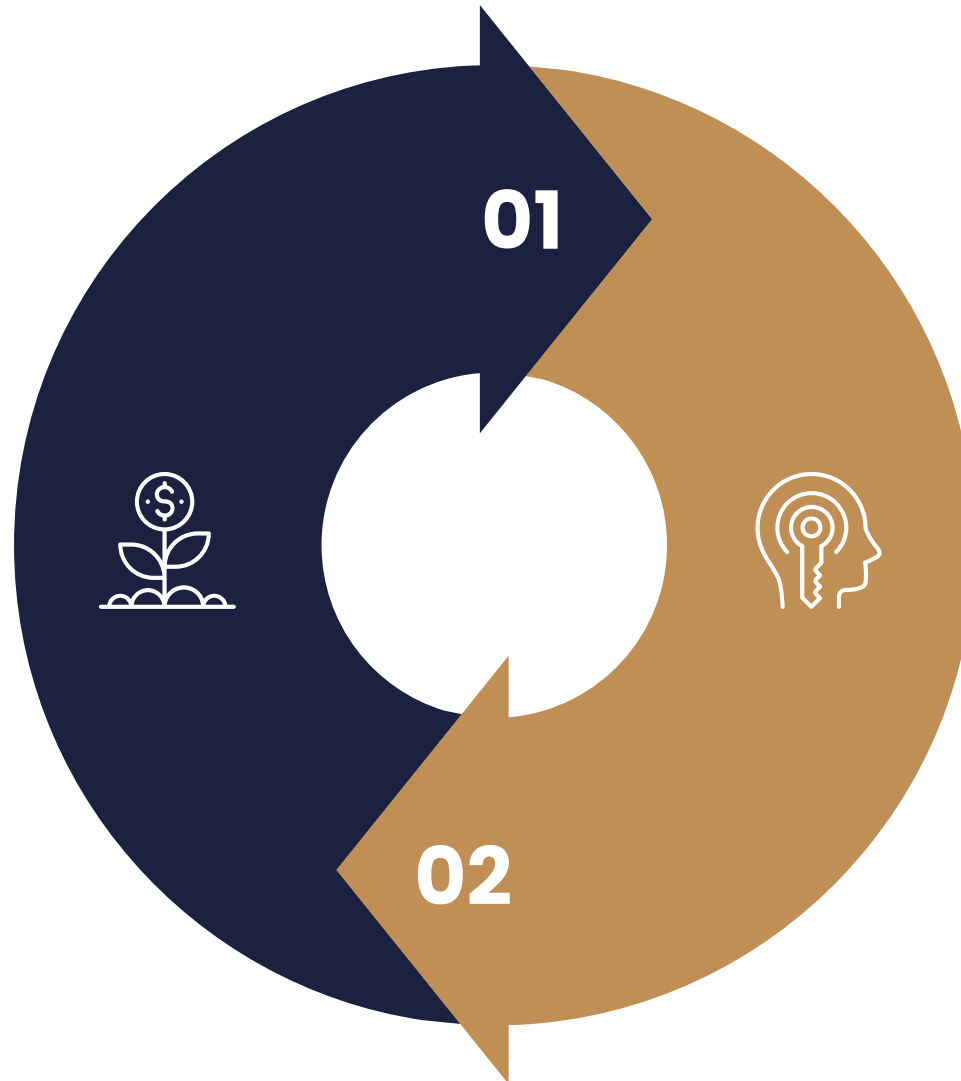
DATA USED FOR THE ANALYSIS



BOTH ENTITIES

Republika Srpska

Statistical data
Official data of Public Forest
Enterprize
Expert research and opinion



Federacija BiH

Statistical data
Official data of Cantons
Expert research and opinion

FOREST CATEGORIES

BOTH ENTITIES

High forests

Mixed forests with selective forest management system



02

Forest plantations

Spruce, pines, fir



03

Coppice forests

The most presented ones (beech, oaks, other)



01



DATA CHALLENGES FOR MODEL

BOTH ENTITIES

Different sources

Data are not synchronized

Uncertain data

Methodology and data collection.

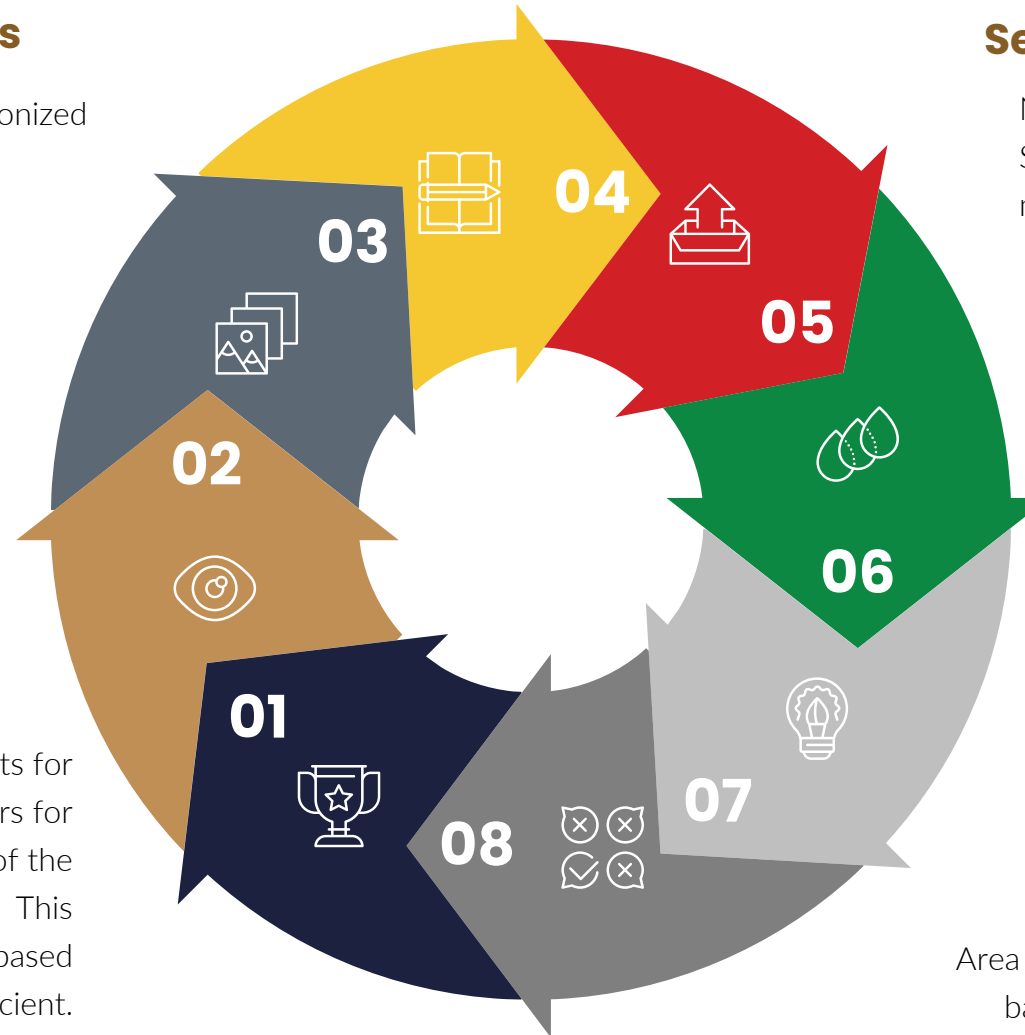
Forest inventory in BiH

Only data source on BiH level, but not officially approved

Ages to diameter

Recalculated based on Tables of taxation elements for high forests. Table of thickness growth by years for tree species is used, by making a comparison of the thickness growth for each species for one year. This was base for calculation of diameter-year-area based on coefficient.

How many years is needed for a certain type of tree to reach the appropriate diameter.



Selective forest management system

Not adequate for running model.
Specific method of forest management unlike in Europe.

No clear cut management

Clear cut on larger areas is forbidden.
Only for plantations but not often.

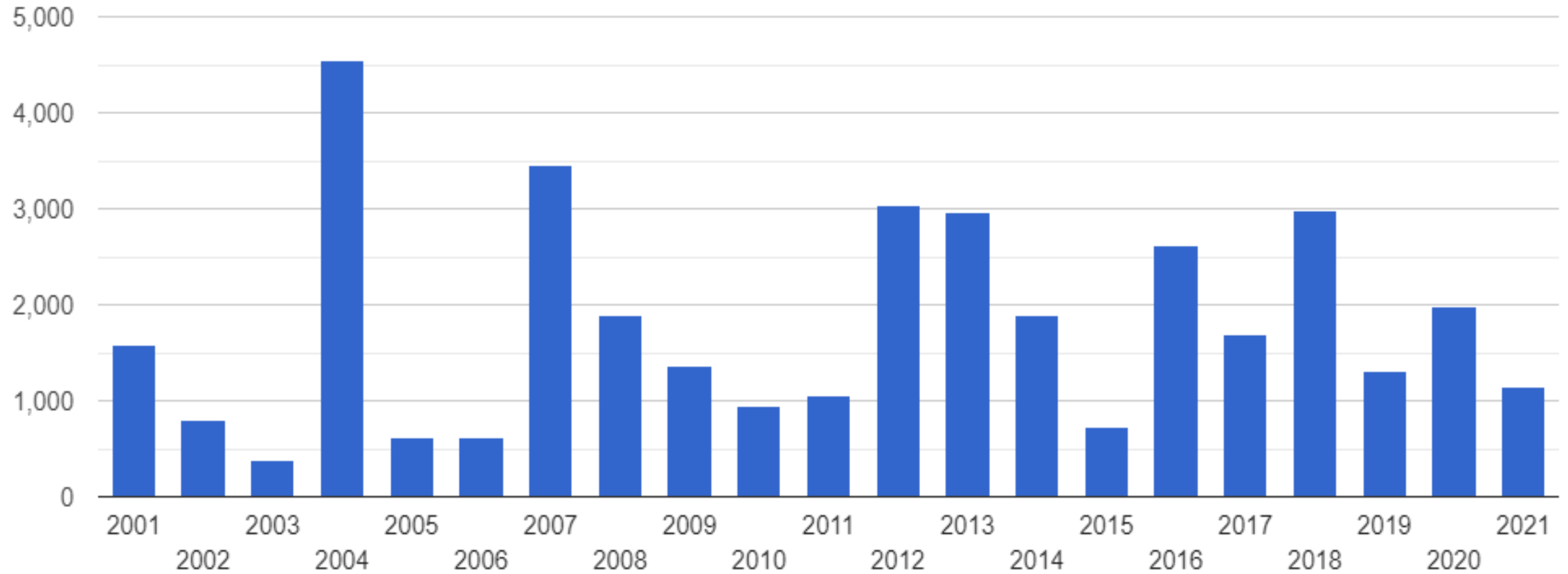
Species area

Model is running based on areas covered by species. Recalculated based on existing data.

Younger forest categories

Area of younger forests are calculated based on data for older categories.

Deforestation in BiH (ha)

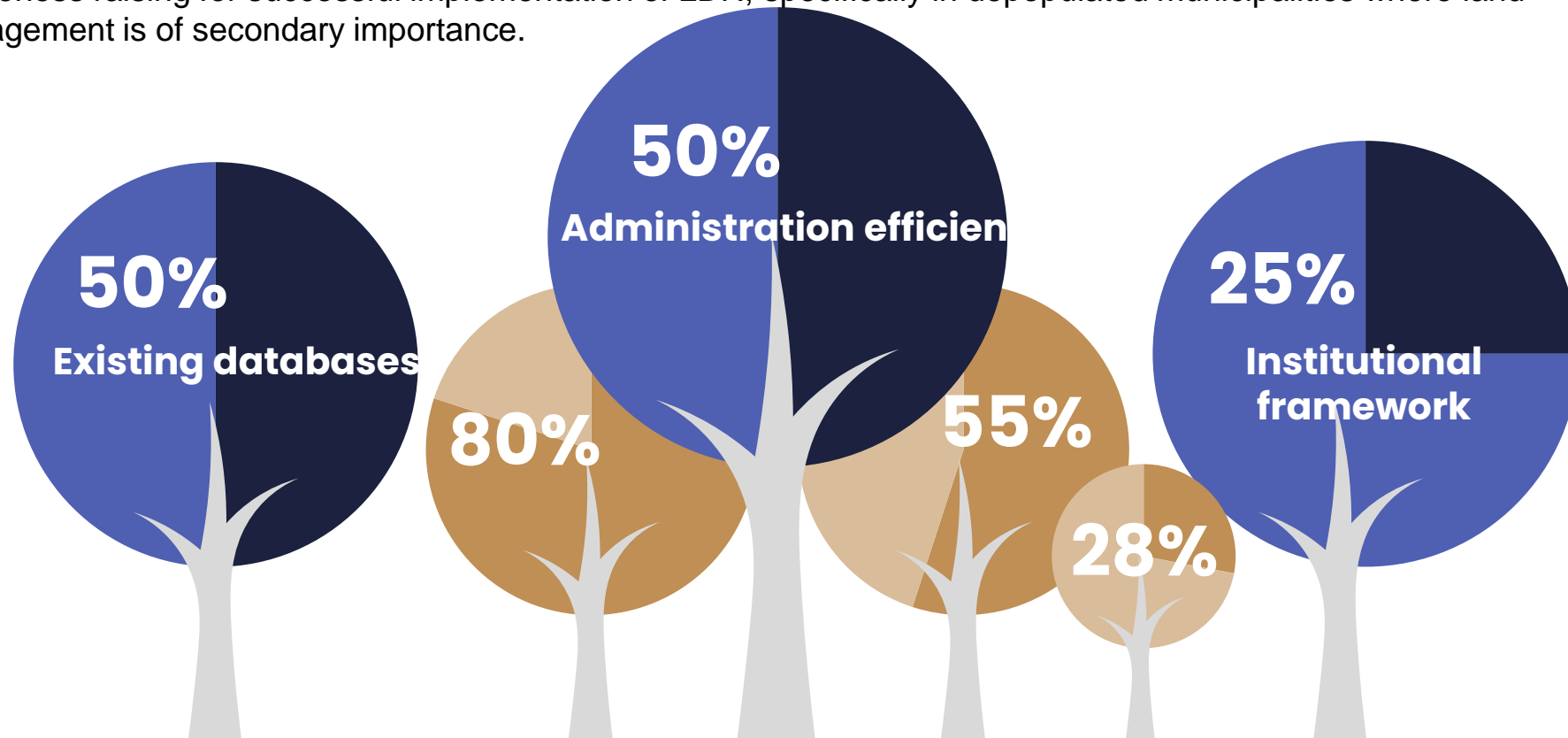


Source: FAO, 2018

CONCLUSIONS

RECOMMENDATIONS

1. Serbia and BiH are developing post-communist and post –conflict countries, facing land data shortage;
2. Consistent implementation of the existing legislative framework, enhanced the system of control and stronger cooperation between institution in terms of land data exchange;
3. Shortage of Strategy for Land protection as an opportunity to avoid land degradation and implement initiatives conducive to achieve land degradation neutrality;
4. Establishment of land information systems and land monitoring with additional national indicators linked to LDN;
5. Connect existing traditional land knowledge to modern approaches and technology;
6. Awareness raising for successful implementation of LDN, specifically in depopulated municipalities where land management is of secondary importance.



THANK YOU FOR ATTENTION



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