

Analysis of Biomass and Forestry Issues in the Drin River Basin

Connect Natural Values and People Foundation

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Introduction biomass & forestry study

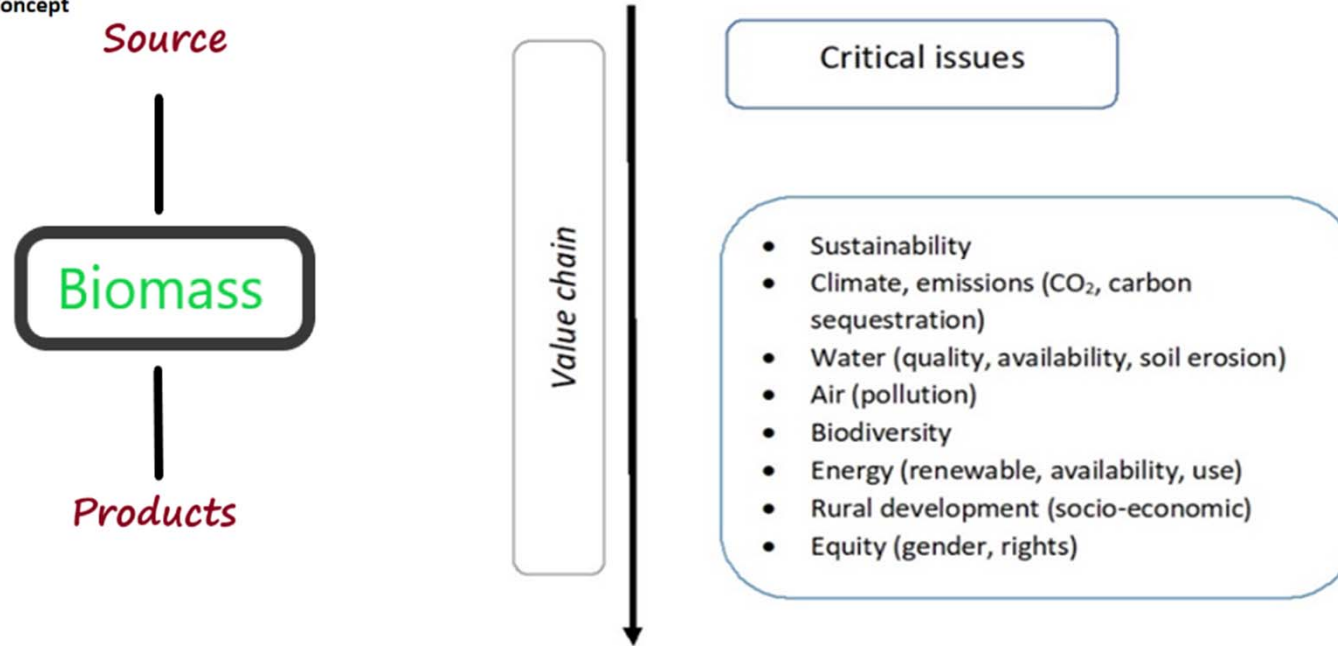
- Analysis of Biomass and Forestry issues in the Drin River Basin
- Focus on interdependencies water, energy, forestry and biomass

This workshop

Sustainable Forest Management (SFM) is important for:

- supply of **good-quality fresh water**,
- protection against natural hazards like **floods** or **soil erosion**, and
- combating **desertification**
- **Land cover** – soil conservation reduce sedimentation, reservoir lifespan
- Avoid **agricultural land degradation**
- Reduce cost of **damaged infrastructure** (irrigation systems, hydropower)

Map 0. Concept

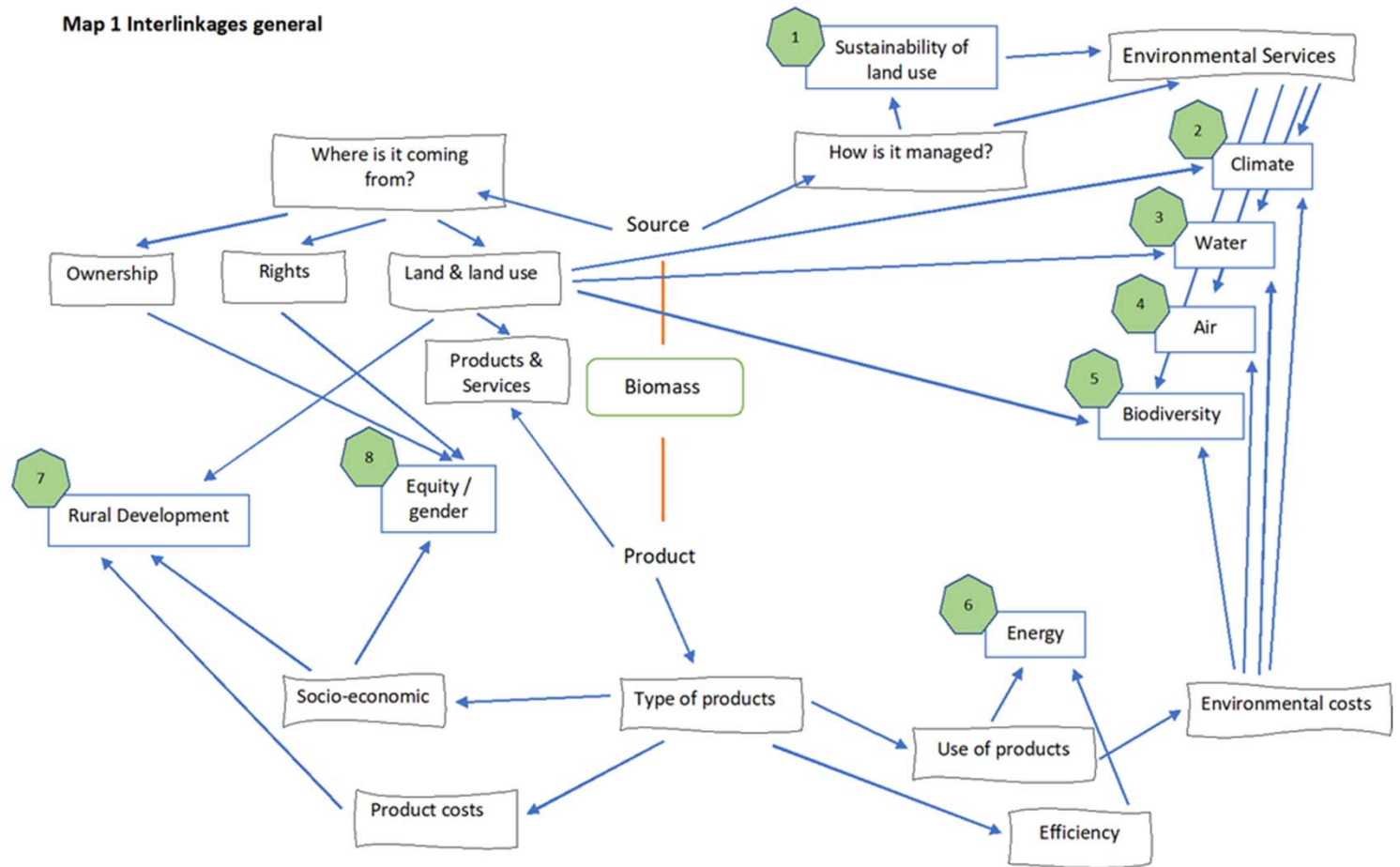


Study - Main Concept & Critical Issues

Map of Interlinkages

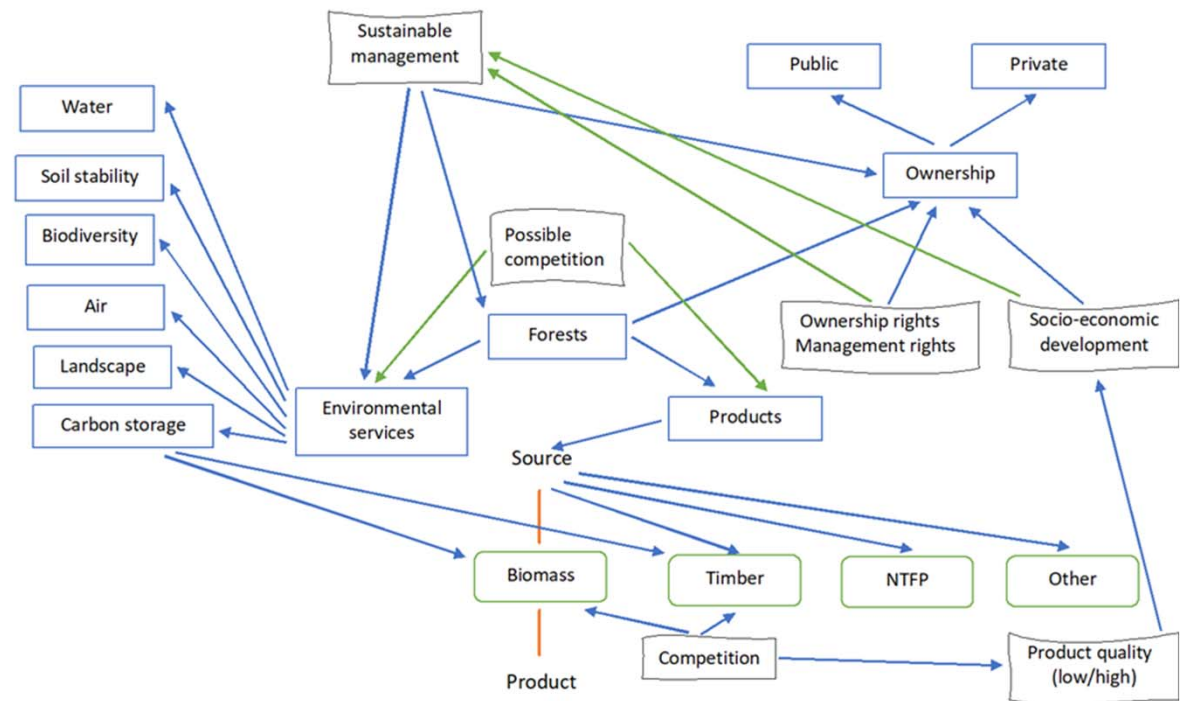
SDG	Description	Critical issue of the biomass nexus
SDG 1	No poverty	Rural Development (socio-economic) (7)
SDG 2	Zero hunger	Sustainability (1) Biodiversity (5)
SDG 5	Gender equality	Equality (gender, rights) (8)
SDG 6	Clean water and sanitation	Water (quality, availability, soil erosion) (3)
SDG 7	Affordable and clean energy	Energy (renewable, availability, use) (6) Air pollution (4)
SDG 13	Climate action	Climate, emissions (CO ₂ , carbon sequestration) (2)
SDG 15	Life on land	Biodiversity (5) Sustainability (1)

Map 1 Interlinkages general



Forest and Biomass relation

Map Forest - Biomass



Key Indicators Forest - Biomass

Key indicators Forests and Land in the Drin Basin	
Key indicator	Value
Forests land (ha)	835,760 ha
Wood biomass harvest (m ³ /yr)	2,963,597 m ³ /yr
Annual growth forest (m ³ /yr)	1,950,110 m ³ /yr
Degraded forest (ha)	99,087 ha

Forests harvest – the importance of wood for energy

Annual Harvest Wood Products in Drin River Basin (Albania, Kosovo, Montenegro, North Macedonia)

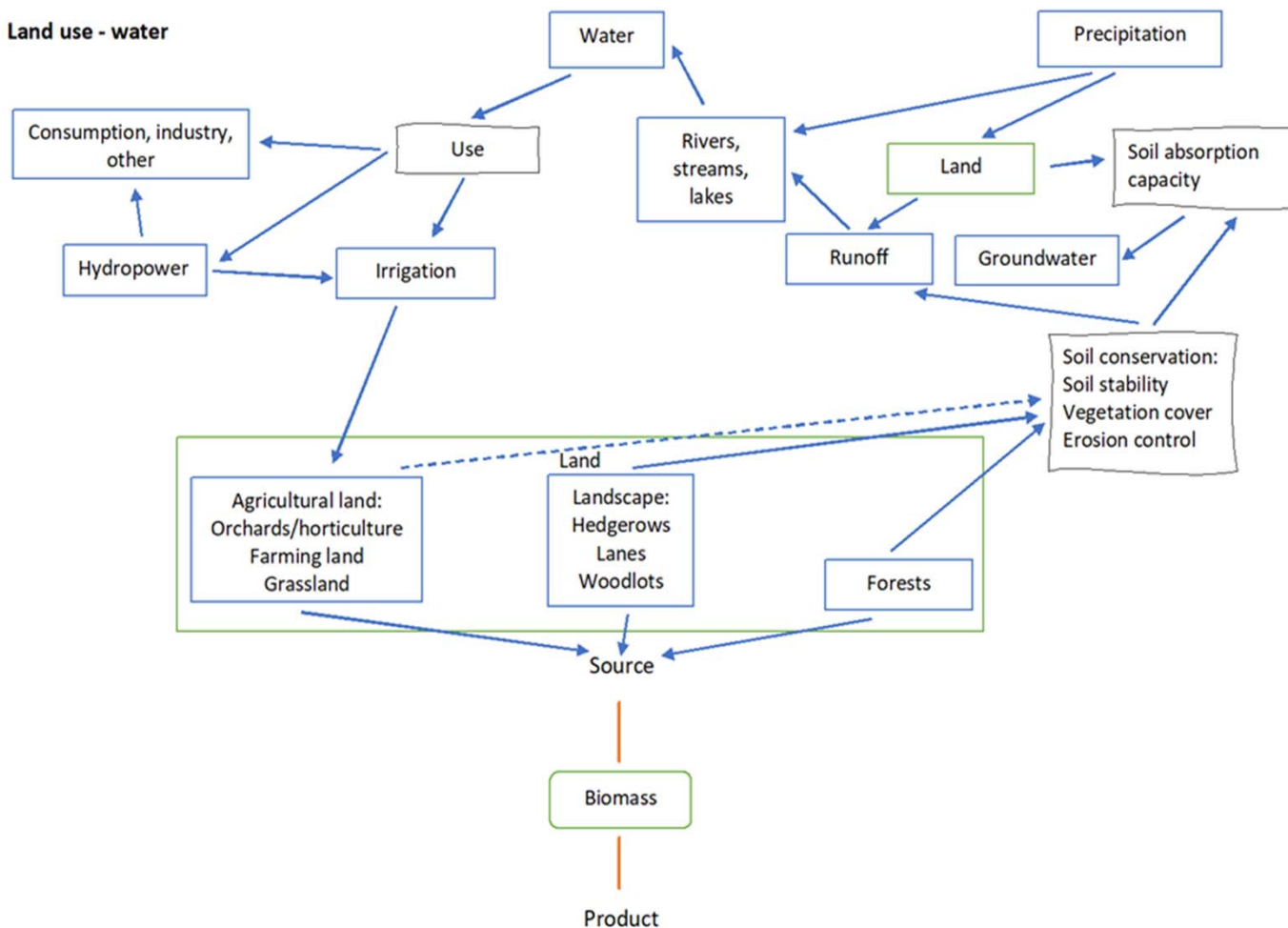
Drin Basin	Total annual harvest (m ³ /yr) in Basin	Annual harvest timber (m ³ /yr)	Annual harvest timber (% of total)	Annual harvest fuelwood (m ³ /yr)	Annual harvest fuelwood (% of total)	Annual harvest processed biomass (m ³ /yr)	Annual harvest processed biomass (% of total)
Total	2.96 mln	0.19 mln	6.4%	2.43 mln	82.0%	0.34 mln	11.6%

Energy use and type of energy use

Drin Basin	Energy use (GWh/yr)	Energy use renewables (GWh/yr)	Share of renewables (%)	Biomass use of renewables (GWh/yr)	Share of biomass (%)	Share of biomass of renewables (%)
Total	83,073	29,088	35.0%	20,827	25.1%	71.6%

Land – Energy – Water - Climate relation

Map Land use - water



Key Indicators Forest - Water

Key indicators Water for the Drin Basin

Key indicator	Value
Soil loss (m ³ or t/ha)	17.1 million m ³ in North Macedonia 2 million m ³ in Montenegro 10.9 – 15.1 t/ha in Albania
Water availability from rivers or for irrigation (m ³)	Not available
Vegetation cover (ha and %)	835,760 ha forest in the basin (38%)

Recommendations

1. Sustainable management natural resource is a pre-requisite
2. River basin and regional approach, cooperation and communication needed
3. training, extension service
4. Promote biomass as a efficient energy source (replacing firewood and fossil fuels)
5. Include gender perspective in value chain development for biomass
6. A pro-poor initiatives e.g. obtaining seasoned firewood or shifting to biomass systems

End

Thank you

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