

BIOSERVICES

Linking soil biodiversity and ecosystem functions and services in different land uses: from the identification of drivers, pressures, and climate change resilience to their economic valuation



Title: Pre-identification of Stakeholders Tool

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Tool

Document summary

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Pre-identification of stakeholders tool

To support inclusive and effective engagement in diverse land use contexts, a stakeholder pre-identification tool was developed in the BIOServicES project. This tool was created through desk research focused on understanding the different land use types across various regions.

The tool recognizes that stakeholder landscapes vary significantly depending on land use. Therefore, it organizes potential stakeholders into eight categories based on land use types. For each type of land use (Agricultural, Urban, Industrial, Mining, Dryland, Forest, Wetland, Semi-natural), different stakeholder groups were identified.

This pre-identification process serves as a starting point for experimental site coordinators to think about key stakeholders connected to the sites mission and outcomes. To facilitate the classification process, stakeholders were pre-identified and categorized into eight distinct groups:

- **Civil society organisations:** Civil society organizations, for example, can include NGOs and advocacy groups focused on environmental conservation
- **Education, Research:** Education and research stakeholders may consist of universities, research institutions, and experts studying topics such as sustainable land management, mining impacts, and biodiversity conservation
- **Finance & Business:** Finance and business stakeholders might include banks, investors, and companies directly funding the site
- **Media:** Media stakeholders, such as journalists and news agencies, help shape public perception and policy discussions on land use issues
- **Public bodies:** Public bodies can refer to government agencies, municipalities, and regulatory authorities overseeing land policies in sectors like mining, agriculture, and urban planning
- **Residents, Citizens:** Residents and citizens typically include local communities living near or using the land
- **Suppliers & Clients:** Suppliers and clients could range from agricultural input providers and buyers to industrial supply chains and mining contractors
- **Workers & Farmers:** Workers and farmers may encompass labourers, agricultural workers, and miners directly engaged in land-based industries, shaping the site through their daily activities



Agricultural Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible Owners and managers of the agricultural site Farmers and agricultural producers (livestock owners included) Workers, former workers Landscaping companies
Community of workers	Agricultural Industry Associations Labor Unions and syndicate
Suppliers, clients	Suppliers and subcontractors (i.e. agricultural inputs, seeds, fertilizers, equipment...) Transport and logistics companies Trade association Direct clients (cooperatives, farmers organizations...) Indirect clients (retailers, consumers...)
Residents, citizens	Local residents' associations Rural Communities and Residents organizations
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental and Conservation Organizations (environmental impacts of Agri practices and could advocate for sustainable and ecofriendly farming.) Land Developers and Real Estate Interests (can be interested in land use decisions for other purpose such as urban or commercial development) NGO on agricultural or rural development Health bodies
Education, Research	Research bodies Academics in agricultural, environmental science and economics Soil experts
Finance & Business	Finance partners Eco or nature tourism
Media	Local media and bloggers Agricultural newspapers

Table 1: Pre-identification of stakeholders for agricultural land use



Dryland Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible Owners and managers of the dryland site Farmers and agricultural producers (livestock owners included) Workers, former workers Landscaping companies
Community of workers	Agricultural Industry Associations Labor Unions and syndicate
Suppliers, clients	Suppliers and subcontractors (i.e. agricultural inputs, seeds, fertilizers, equipment...) Transport and logistics companies Trade association Direct clients Indirect clients
Residents, citizens	Local residents' associations Rural Communities and Residents organizations
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental and Conservation Organizations (environmental impacts of agricultural practices and could advocate for sustainable and ecofriendly farming.) Land Developers and Real Estate Interests (can be interested in land use decisions for other purpose such as urban or commercial development) NGO on agricultural or rural development Health bodies
Education, Research	Research bodies Academics in agricultural, environmental science and economics Soil experts
Finance & Business	Finance partners Eco or nature tourism
Media	Local media and bloggers Industrial newspapers

Table 2: Pre-identification of stakeholders for dryland land use



Forest Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible Owners and managers of forest site Forestry and Logging companies Workers, former workers Landscaping companies
Community of workers	Timber Industry Associations Labor Unions and syndicate
Suppliers, clients	Suppliers and subcontractors (i.e. timber sticks, vegetal materials, fertilizers, equipment...) Transport and logistics companies Energy & Biomass Industry (companies of) Watershed and Water resources Management authorities Direct clients (cooperatives, wood transformation organizations...) Indirect clients (retailers, wood consumers...)
Residents, citizens	Local residents' associations Rural Communities and Residents organizations Hunters and wildlife enthusiasts (all ppl who have an interest of wildlife conservation)
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental and Conservation Organizations (environmental impacts of agricultural practices and could advocate for sustainable and ecofriendly farming.) Land Developers and Real Estate Interests (can be interested in land use decisions for other purpose such as urban or commercial development) NGO on climate change and carbon offset projects Fire management and disaster response authorities Health bodies
Education, Research	Research bodies Academics in agricultural, silviculture, environmental science Soil experts
Finance & Business	Finance partners and carbon offset and Climate change mitigation organization Eco or nature tourism
Media	Local media and bloggers Silviculture, forestry newspapers

Table 3: Pre-identification of stakeholders for forest land use



Industrial Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible Owners and managers of the industrial site Workers, former workers Landscaping companies
Community of workers	Industry Associations Labor Unions and syndicate
Suppliers, clients	Suppliers and subcontractors Transport and logistics companies Direct clients Indirect clients
Residents, citizens	Local residents' associations Citizens and citizen organizations Neighbours
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental protection agencies (footprint regulation, observatory...) Health bodies
Education, Research	Economic development bodies Research bodies Academics in industry (industrial exploitation, industrial waste treatment...) Soil experts
Finance & Business	Finance partners Eco or nature tourism
Media	Local media and bloggers Industrial newspapers

Table 4: Pre-identification of stakeholders for industrial land us



Mining Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible Owners and managers of the mining site Mining companies Workers, former workers Landscaping companies to fulfil compulsory compensation Landscaping companies (after exploitation time?)
Community of workers	Mining companies Associations Labor Unions and syndicate
Suppliers, clients	Suppliers and subcontractors (i.e. mining inputs, chemicals...) Transport and logistics companies Trade association Water and waste treatment enterprise Direct clients (cooperatives, farmers organizations...) Indirect clients (retailers, consumers...)
Residents, citizens	Local residents' associations Rural Communities and Residents organizations Neighbours impacted (upstream and downstream)
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental and Conservation Organizations (environmental impacts of Agri practices and could advocate for sustainable and ecofriendly farming.) NGO on rural development Health bodies
Education, Research	Research bodies Academics in environment, geology Soil experts
Finance & Business	Finance partners Local tourism (can be influenced by mining landscape)
Media	Local media and bloggers Environmental newspapers

Table 5: Pre-identification of stakeholders for mining land use



Urban Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible / owners and entities owning the area Urban planning firm Companies working on this site Urban farmers Landscaping companies
Community of workers	Community gardeners
Suppliers, clients	
Residents, citizens	Local residents' associations Citizens and citizen organizations Neighbours
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental and Conservation Organizations (environmental impacts of urban activities) Health bodies
Education, Research	Research bodies Academics in urban design and policy makers Soil experts
Finance & Business	Finance partners
Media	Local media and bloggers

Table 6: Pre-identification of stakeholders for urban land use



Semi-natural Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible Owners and managers of the site Farmers and agricultural producers (livestock owners included) or any type of producers working on this area Workers, former workers Landscaping companies
Community of workers	
Suppliers, clients	Suppliers and subcontractors Transport and logistics companies Trade association Watershed and Water resources Management authorities
Residents, citizens	Local residents' associations Rural Communities and Residents organizations Hunters and wildlife enthusiasts (all ppl who have an interest of wildlife conservation)
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental and Conservation Organizations (environmental impacts of agricultural practices and could advocate for sustainable and ecofriendly farming.) Land Developers and Real Estate Interests (can be interested in land use decisions for other purpose such as urban or commercial development) NGO on agricultural or rural development Health bodies
Education, Research	Research bodies Academics in agricultural, environmental science and economics Soil experts
Finance & Business	Finance partners Eco or nature tourism (birdwatching, hunting, wildlife photography...) Recreational and tourism industry (skiing, tourism infrastructures...) Fire management and disaster response authorities
Media	Local media and bloggers

Table 7: Pre-identification of stakeholders for semi-natural land use



Wetland Land Use: Pre-stakeholder identification

Categories	Type of stakeholders
Workers & Farmers	Site responsible Owners and managers of the wetland site Farmers and agricultural producers (livestock owners included) Workers, former workers Peat exploitation companies Fishermen and aquaculture operators
Community of workers	Aquaculture agricultural Associations Labor Unions and syndicate
Suppliers, clients	Watershed and Water resources Management authorities
Residents, citizens	Local residents' associations Rural Communities and Residents organizations Hunters and wildlife enthusiasts (all ppl who have an interest of wildlife conservation)
External ecosystem, pressure, laws, health laws (public bodies and civil society organisations)	Government authorities and regulatory bodies (local, regional, national) Environmental and Conservation Organizations (environmental impacts of agricultural practices and could advocate for sustainable, and ecofriendly farming.) Land Developers and Real Estate Interests (can be interested in land use decisions for other purpose such as urban or commercial development) NGO on agricultural or rural development Health bodies
Education, Research	Research bodies Academics in agricultural, environmental science and economics Soil experts
Finance & Business	Finance partners Eco or nature tourism (birdwatching, hunting, wildlife photography...)
Media	Local media and bloggers Aquaculture newspapers

Table 8: Pre- identification of stakeholders for wetland land use

