

Deliverable 4.1 –

Report on actors driving FMMs in selected European countries

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Summary

This report synthesizes the results of the analysis of actors driving forest management by WP4 in the ten ALTERFOR case studies. Based on the actor-centered power approach, actors were characterized in terms of interests and power resources to act in forest management. Additionally, current forest policy issues and the institutional setting of forest management in all case studies have been analysed. This report is based on a triangulation of qualitative data (qualitative interviews, participatory observations, document analysis) in all ten cases. The data for each case has been compiled by researchers working in the corresponding countries and knowledge of the local language and local circumstances in each case study. In all countries, except the Netherlands, a CSA has been defined to analyze the applied forest management practices and the power relations between actors at a regional level.

The policy context of forest management is very diverse within Europe. All case studies showed that forest management challenges in the 21st century might require the adaptation of new forest management models that optimize the ecosystem service basket provided by forests. The challenges of climate change adaptation and the increasing importance of renewable energies provided by forests (timber for energetic use, wind turbines within forests, large-scale solar panel farms within forests) impact forest management in the CSAs. Related to climate change, catastrophic events (forest fires, windfalls) constitute a major forest management challenge in several cases. In most countries the provision of timber is one of the most important ecosystem services. However, exceptions exist (e.g. Italy, the Netherlands). Trade-offs between the provision of timber and biodiversity protection exist in all case studies. Insect infestations and browsing damages substantially reduce the amount of timber in several cases. Furthermore, in all cases, society has increasing demands for cultural ecosystem services provided by forests. Thus, new forest management models are needed, taking these diverse forest management challenges into account. The actor analysis in all cases is only a first step to foster knowledge transfer and implementation of alternative forest management models by practice. The next step of WP4 will be the contribution to the development of alternative forest management scenarios for all case studies, based on the interests of relevant actors. Next, stakeholder workshops will present the results of the work by WP1, WP2, and WP3 in the CSAs. These stakeholder workshops need to relate to important forest policy problems and conflicts in the CSAs to inspire politicians and practitioners.



Objective of the deliverable

This deliverable presents which actors are driving forest management in the ten case studies of ALTERFOR. Based on the RIU Model, forest relevant actors and their networks are identified and their actions in the case study areas are analysed. The analysis focuses on actors' interests and power to act in forest management. The interests of the actors were empirically investigated primarily by assessing forest use up to the present. The basis of power of actors was identified by observing the means of coercion, incentives, and dominant information.



Introduction

Europe's forest resources face multiple challenges at the beginning of the 21st century. Amongst other ecosystem services, forests are expected to provide timber and biomass, to contribute to climate change mitigation by sequestering carbon within stands, maintain biodiversity, supply habitats for multiple species, and to allow outdoor recreation and tourism.

Ecosystem services are defined as benefits people obtain from ecosystems (MEA 2005). Not all forest ecosystem services can be generated unlimited without impacting the generation of other ecosystem services. Trade-offs exist between some ecosystem services (Bennet et al. 2009; Kandziora et al. 2013; Wang and Fu 2013). For example, an increase of timber provision is often associated with negative impacts on carbon sequestration within forest ecosystems (Fares et al. 2015). Forest management practices impact the generated basket of ecosystem services by forests; the provision of some ecosystem services is supported by human intervention, resulting in a reduction of availability of other ecosystem services (Kandziora et al. 2013). The general interests in ecosystem services of forests by various actors are similar in all European countries. However, applied forest management models and the implemented deliberation between forest ecosystems services differ widely between European countries. In some countries forest management is strongly focused on timber provision. In contrast, in other countries biodiversity protection, non-wood products and recreation are important aims of forest management.

Forest use practices are based on the actions of actors. The actions of actors are steered by the legal framework of forest management in each case study and the decisions and actions of other actors. Of course, existing bio-geophysical conditions of each case study impacts the provision of ecosystem services. However, the ecosystem service basket generated by Europe's forests is mainly the result of forest management. Therefore, this report examines which actors are driving forest management in the ten case studies of ALTERFOR. Specifically, three questions are addressed in this actor analysis:

- 1) Who are the actors interested in ecosystem services provided by forests in the ten ALTERFOR case studies (national level and CSA) and which interests do these actors have?
- 2) Which power resources do the identified actors have to impact forest management?
- 3) How are the power relations between governmental, market, and civil society actors that are driving forest management in the ten ALTERFOR case studies?

The assessment of the actor's power to impact forest management is based on the actor-centered power approach (Krott et al. 2014). The actor-centered power approach is presented in the next section. Then, the applied methods are presented. In the following section, the results of the actors analysis in all ten case studies is presented. The interests of actors in the case studies and their power resources need to be taken into account for developing strategies to implement alternative forest management models.



Analytical framework

The analysis in this report focuses on actors' interests and power to act in forest management.

Interests are understood as being *“based on action orientation, adhered to by individuals or groups, and they designate the benefits the individual or group can receive from a certain object, such as a forest”* (Krott 2005). The assessment of interests is based on the actor's forest use and advocated positions up to present.

In the context of this study, power is defined as *“capability of an actor to influence other actors”* (Krott et al. 2014). Based on the actor-centered power approach (Krott et al. 2014) the assessment of power is based on the ability of actors to apply the mechanisms coercion, incentives, and dominant information (Table 1).

Table 1. Power indicators based on the actor-centered power framework

Definition	Power mechanism	
Altering behavior with force	Coercion	Applying real force
		Threatening with force
		Bluffing about force
		Non-compliance with rules
Altering behavior with advantages or disadvantages	Incentives/ Disincentives	Material
		Immaterial
Altering behavior by supplying unverified information	Dominant information	Ideology
		Expert knowledge

Coercion

Coercion can be based on real force as well the threat of force and even bluffing about force that does not really exist. Avoiding control by other actors is coercion too (e.g. illegal harvesting). Coercion must always influence other actors. Therefore cutting or planting a tree is no coercion because it influences nature directly.

Examples for power based on coercion:

- Implementation of forest law
- Implementation of nature conservation law
- Fencing a forest to stop recreationalists to enter the forests
- Climbing over a fence to enter the forest
- Illegal timber harvesting for domestic heating purposes
- Picking berries without control
- Shooting a deer without control
- Displacing barrels with old oil in the forest without control
- Deciding on a legally-binding forest management plan

Incentives

Material and immaterial (dis-)incentives can be distinguished. Material incentives are money and also all technical sources, e.g. machines, plants, food or support in labor. Immaterial incentives offer social or psychological advantages. In practice incentives are often combined with coercion. A binding fine is coercion but the amount of the fine is a disincentive.

Examples for power based on material (dis-)incentives:

- Subsidies for certain forest management practices
- Providing free extension services by state forest service to private forest owners
- Certification schemes
- Buying timber
- Paying for the tenure of forests for certain activities (e.g. hunting, construction of a wind turbine, constructing a mountain bike dirt place, ...)
- Providing tree seedlings to a reduced price to forest owners

Examples for power based on immaterial (dis-)incentives:

- Appealing to social conventions
- Appealing to moral (e.g. not to extinct a species)
- Appealing to the welfare of future generations

Dominant information

Dominant information can be based on ideologies or based on superior expert knowledge. Dominant information can relate to knowledge about bio-geophysical processes and knowledge about decision-making processes. Dominant information means that the subordinate cannot check the quality of the information and therefore cannot make his/her own rational judgement. Dominant information like expert knowledge can be advantage or a disadvantage for the subordinate.

Examples for dominant information sources which become dominant information if the subordinate is not able to check the content independently:

- Information provided to small-scale forest owners by extension services of the public forest administration
- Recommendations of forest management provided by the Forest Owner Association to forest owners
- Information about forests provided by Greenpeace to the general public
- Information provided by water associations about the impacts of certain forest management practices on water quality

Methods

This report is based on empirical data from ten case studies in Germany, Ireland, Italy, Lithuania, Netherlands, Portugal, Slovakia, Sweden, and Turkey. These countries were selected to represent different bio-geographical and socio-economic backgrounds in Europe. This report is based on a triangulation of qualitative data (qualitative interviews, participatory observations, document analysis) in all ten cases. The data for each case has been compiled by researchers working in the corresponding countries and knowledge of the local language and local circumstances in each case study. In all countries, except the Netherlands, a CSA has been defined to analyze the applied forest management practices and the power relations between actors at a regional level. These CSAs are:

- Bavaria (West Augsburg) in Germany
- Brandenburg (Lieberose/Schlaubetal) in Germany
- Barony of Moycullen, County Galway in Ireland
- Veneto in Italy
- Telšiai in Lithuania
- Vale do Sousa in Portugal
- Podpoľanie in Slovakia
- Kronoberg County in Sweden
- Gölcük in Turkey

The researchers of UGOE trained field researchers from other countries' project partners in the method of actor analysis during a joint seminar in Göttingen, Germany from the 26th -30th of September 2016 to ensure that same standards were applied within all case studies for the actor analysis (→ ALTERFOR Milestone 16).

Results

In the following sections, the results of the actor analysis in all cases is presented.

1. Bavaria (West Augsburg), Germany

In Germany, there is a broad agreement in forest politics that the dominating concept of multi-functional, integrative forestry (timber production, nature conservation, and recreation at the same area) would be most reasonable for the conditions within Germany. Furthermore, almost all actors preferred mixed forests (coniferous and deciduous trees) with mixed age structure, managed by selec-



tive thinning to fulfill the different ecosystem services of forests and to have resilient forests. However, conflicts between different actors exist based on varying priorities between different forest ecosystem services and about how to exactly implement multi-functional forestry. Most important current conflicts about silvicultural management of forests in Germany are: if set-asides of forest shares without any management are reasonable, if non-indigenous tree species should be planted, densities of wild game, amount of deadwoods shares, and the share of coniferous trees in forests. The actor landscape within forest politics in Germany became more diverse in recent years. Traditional forestry actors still play the most important role in forest politics. Due to their close relations to agricultural ministries and forestry administrations, forestry is in a powerful position to influence forest policy. Furthermore, due to the direct access and decision-making authority over forests based on ownership, traditional forestry actors can be considered key actors for forest management. However, due to changes in nature conservation legislations, nature conservation authorities and nature conservation lobby groups became increasingly important in forest politics and have substantial influence on forest management. Actors from timber industries impact forest management by increasingly lobby in favor of higher shares of coniferous trees and influence forest management by market forces. Actors representing hunting can be also considered as indirectly influential because of the importance of wild game densities for forest management. Furthermore, actors from the renewable energy sector became increasingly important for forest management because of the construction of wind turbines within forests and the increased demand for timber due to energetic use. Actors representing employment in forests have very little influence on forest policy processes. Actors with recreational interests are almost meaningless for forest policies at the national level.

Within the case study Bavaria (West Augsburg) the general conflicts about silvicultural concepts within German forest politics are also relevant. The case study area has a high share of Spruce (*Picea abies*), thus bark beetle infestations constitute a major problem. It is intensively discussed how forests can be adapted to expected changes in climatic conditions and how alternative silvicultural concepts with reduced share of Spruce (*Picea abies*) could be implemented. Several local state-actors from forestry and actors from nature conservation preferred increasing the share of White fir (*Abies alba*) and Beech (*Fagus sylvatica*) to increase the resilience of forest and to improve the value of forests as habitats. However, most small-scale forest owner in the case study area are currently not willing to reduce the share of Spruce because of its financial return. Douglas fir (*Pseudotsuga menziesii*) is preferred by several forestry actors as alternative to Spruce but nature conservationists disagree to plant non-native species. The reduction of coniferous trees would require reduction of wild game densities which is in conflict with the interests of local hunters. The case study area has very good growing conditions and wood provision is considered as most important forest function by private and public forest owners. Several companies from timber industries are located in the area and demand mainly coniferous wood. The local population has a high demand for wood (beech) for domestic heating purposes. The case study area is important for the provision of drinking water, thus the impacts on water quality and water quantity of silvicultural concepts need to be considered. Furthermore, the CSA is intensively used for recreational purposes because of the relatively high population density in the area. Recreational users (e.g. fishing, hiking, biking, mushroom and berry picking) sometimes feel disturbed by intensive harvesting measures. Furthermore, large parts of the local population expect from the state forest service to apply silvicultural concepts that produce nice scen-

eries and diverse landscapes and do not interfere with recreation. Landscape protection is an important issue in the CSA. Some local actors suggest to increase the share of traditional forest use concepts (e.g. pastoral forest, coppice) to contribute to conservation of the cultural value of these traditional concepts. Actors from forestry are powerful actors in Bavaria in general and within the case study area. Large-scale forest owners and the lobby groups of forestry and agriculture have close relations to the Bavarian government. Furthermore, due to their private property rights on forests, public and private forest owner are key actors for forest management. Actors from nature and environmental conservation are increasingly powerful in Bavarian forest politics but less influential than in other parts of Germany. Hunters have a strong lobby in Bavaria and impact forest management directly by their hunting strategies and the resulting amount of wild game. Due to the importance of water provision in the CSA water associations have influence of forest management practices. Recreational interests are supported by the “Nature park association” which is influential at the local level and recreationalists enforce their interests directly by accessing and using forests. Actors from timber industries have strong influence of forest management strategies by setting market incentives for coniferous trees, specifically Spruce. The identified actor landscape and the interests of actors are widely typical for rural German forests in the vicinity of larger cities with high population densities.

2. Brandenburg (Lieberose/Schlaubetal), Germany

The case study Brandenburg (Lieberose/Schlaupetal) offers socio-economic conditions typical for remote areas within Germany in need of economic development. The case study area is dominated by Pine (*Pinus sylvestris*), managed by selective thinning with highly mechanized harvesting technology. A former military site within the case study has a high value for biodiversity and many rare species occur in the area. A share of the area of the former military site is taken out of management to allow natural forest ecosystem development. In terms of bio-geophysical conditions the case study areas consists of two parts: the Lieberose area with very poor growing conditions and the Schlaupetal which offers site conditions suitable for several tree species and management strategies. Due to the climatic site conditions the adaptation to climate change is seen as more urgent than in other parts of Germany. Droughts became more common in recent years. The danger of forest fires, how to organize fire monitoring, and how larger fire outbreaks can be avoided constitutes a major challenge. Due to increasing long periods without rain in spring, forests are under stress and the tree growth is negatively impacted. In the last years, the case study area experienced major insect calamities. The Pine-tree lappet (*Dendrolimus pini*) is one of the major pest problems, other insects cause problems as well. Due to the high share of Pine the resilience against insects’ outbreaks is low. The forest management in Brandenburg suffers from very high wild game densities, causing severe browsing damages. There is ongoing discussion in Brandenburg how to legally regulate hunting best to reduce the wild game. The transition towards forests with higher shares of deciduous trees is limited due to high browsing damages. Two major preferences for forest management by actors exist in the case study: On the one hand a preference for very extensive forest management with focus on cultural and ecologic ecosystem services. At the other hand a preference for forest management focused on the pro-

vision of timber. Powerful actors in the case study Brandenburg are the state-owned forest enterprise, nature conservation authorities, the Brandenburg Wilderness Foundation, Birdlife Brandenburg, large-scale forest owners, e.g. the monastery foundation Neuzelle, sawmills, and actors from the touristic sector.

3. Barony of Moycullen, County Galway, Ireland

Historically, most of Ireland was under forest cover, but due to anthropogenic influences this fluctuated and reduced to less than 1% in the early 1900s (Forest Service 2008). To establish a viable forest industry in Ireland, the government started a large afforestation project, utilising fast-growing exotic softwoods Sitka spruce (*Picea sitchensis* (Bong.) Carr.) and lodgepole pine (*Pinus contorta* Douglas). The main purposes of these forests were to produce timber and create jobs in rural areas with high unemployment. Since the early 1980s, government afforestation has ceased and focus has shifted to encouraging private landowners to afforest their agricultural land in exchange for economic incentives (Forest Service 2015c). In 2012, the forest cover had increased to 10.5% (Forest Service 2013) and the ambition is to bring the forest cover to 17% by 2030 (Forest Service 2000). Around the turn of the last millennia, social and environmental forest values gained more recognition and legislative protection by the implementation of Sustainable Forest Management (SFM) and EU Habitats and Birds Directives (DAFF 1996, Forest Service 2015b). Many of the land-use conflicts in Irish forestry relate to stakeholders having different opinions on how the three pillars of SFM (economic, social and environmental) should be balanced. The main conflicts are between using forests for timber production and using forests for enhancing and protecting habitats and biodiversity. A lot of biodiversity conflicts focus on how forestry operations impact water quality and freshwater pearl mussel (FPM) habitats and one of the FPM populations that is deemed to have the best chance of surviving in the future is present in the case study area (CSA). There are social conflicts around farmer's unwillingness to avail of afforestation grants, even if it is financially more beneficial, since they think it threatens and diminishes their culture and heritage as farmers. Many actors from government and civil society have expressed that they were not against forestry but didn't like the fact that extensive areas of blanket peat had been planted and that the two most common species in Irish forestry were non-native. Actors from government are the most powerful since they are implementing legislation and thus have a strong coercion backing. The strongest actor, the Forest service, approve all afforestation grants, felling licenses and fertilisation applications and thus derive a lot of their power from this. The Forest service pay out afforestation grants and road construction grants, this alongside government actors that work to protect the environment give them a strong incentive power. The Forest service is responsible for the national forest inventory and other government actors record species and habitat status, and keep records of protected features (natural and cultural) which makes them very strong in providing dominant information. Market actors are almost as powerful as government actors but must abide by the law and require approval from the Forest Service in order to get afforestation grants and felling licenses. Over half the forest estate is owned by Coillte (the Irish State forest company), the rest is privately owned, thus land ownership and control of the timber resource is the main source of coercion power for market actors. There are private forest companies that offer forest management services and advice to private forest owners, resulting in substantial incentives



and a lot of dominant information. Some market actors (other than Coillte, forest management companies, wood processing industries and private forest owners) are lobby organisations that influence politicians and advocate their interests (Irish Farmers Association, Irish Forestry and Forest Products Association, Irish Timber Grower's Association, Wood Marketing Federation, Irish Timber Council). Civil society actors are relatively weak, but many of them are interested in protecting the environment so their interest coincide with many government actors. Their desire to enhance and protect species, the natural environment, and Irish cultural heritage is their main incentive since it appeals to morals. Many civil society actors tend to engage large parts of the population, resulting in large networks that can identify and report on issues related to habitat degradation due to forestry operations. They also provide knowledge about species protection, biodiversity and how to enhance the environment. Their engagement with the public can make them very influential in rallying the population around causes when they believe that too drastic policy changes are being made.

4. North East Veneto Region, Italy

Italy has experienced a radical change in forest cover that doubled in the last 50 years, in the social demands for forest products and services and in the structure of the wood-working industry, but its institutional organizations, mode of forest governance and the political- legal frameworks have only changed slightly. The objectives and contents of Italian forest policy have slowly evolved over time, but most of the Italian formal institutions connected with the forest sector, at all levels, have been unable to reform and adapt themselves to the new challenges posed by the changing environmental, social, economic and political scenarios. Although the concept of multifunctional forestry is quite traditional and well established in Italian forestry, the momentum recently gained by ecosystem services is creating conflicts between different actors based on varying priorities between different forest ecosystem services and how to exactly implement multi-functional forestry. This is emphasized by traditional conflicts between State (i.e. central) and Regional Authorities, poor vertical and horizontal integration in forest policies and responsibilities, and the more recent conflicts between non-traditional (e.g. environmentalists) and traditional actors. Recent budget cuts and institutional re-arrangements due to the spending review have also contributed to exacerbating conflicts.

The conflicts and the main problematic issues discussed include:

- proactive forest management vs. abandonment of marginal areas (e.g. in mountainous areas),
- forest ownership fragmentation and consequent limitations (abandonment, lack of profitability...) and needs to favor networking/association of smallholders,
- increasing gap between the primary sector (forests and forest management) and the industrial sector (wood and paper),
- industrial vs. energy use of wood,
- the role and valorization of non wood forest products and services often with a public-good nature (natural capital accounting and mechanisms for establishing payments for ecosystem services),

- non-traditional (civil society and private sector) vs. traditional public actors and ways to facilitate dialogue and cooperation among them (e.g. innovative private-public partnerships),
- visibility of the forest sector and knowledge/perception by the general public.

Traditional (public) forestry actors still maintain a central/strong role and a powerful position to influence forest policy. Government authorities at both national and meso-levels are still the most powerful actors in forest management and stakeholders. The State Forest Service (CFS) -though recently reformed and merged with a military police corps- is probably the most well-known entity in the forest sector by the general public. Although some exceptions exist, the role and influence of other actors, including non-public ones, at the national level are much more limited and can mostly be perceived at a lower scale (sub-regional, local). Even when non-public actors might have enough power to influence forest policies, they often have no strong interest in doing so. This is the case for example of the main wood and paper companies that largely depend on wood imports. One of the most dynamic segments within the forest sector is the one related to bioenergy, although conflicts exist both within the segment itself (e.g. medium-small scale plants vs. big plants, heating/combined heating and power generation vs. power generation, etc.) and with other actors/segments (e.g. industrial vs. energy use of wood). Private forest owners are almost voiceless because there are not national wide associations of forest owners, moreover Italy has no representative in either of the two most important associations of private forest owners in Europe. Public forest owners are losing power (due, among other issues, to budget cuts) and they lack adequate representativeness and coordination at both national and international level. Forest enterprises suffer similar conditions, although a new organization to give them a common representation at national scale has been recently created and is gaining visibility. Environmental NGOs are quite active but have a marginal role in forest policy and forest management at the national scale. Finally organizations dealing with products different from wood are gaining relevance but still they are more active at sub-national (and sometimes very local) level. This is the case for example of wild forest products production and trade, as well as for organizations dealing with services delivered by forests (e.g. carbon sequestration, tourism and recreation, mountain therapy, etc.). Although a growing number of initiatives are emerging, in most of cases they are still at a preliminary stage and poorly coordinated. Best practices and models exist, but they often remain isolated and with limited capacity to influence policy and decision-making.

The case study area -in the North East of Veneto Region, Northern Italy- represents an interesting example of living “laboratory” for this new issues and initiatives and for testing innovative forest management solutions. It consists of lowland forests close to urban areas (north of Venice), with no prevalent productive function but with huge potentialities in terms of other functions and services: wild forest products production (mostly truffles and pine seeds), biodiversity conservation, carbon sequestration and, above all, cultural services (tourism and recreation). The area is visited every summer by about 3 millions of tourists and, starting from 35 years ago, has been subject to a large afforestation program. Forests are owned by local Municipalities, while management activities are carried out through various forms: direct management by Municipalities, management agreement with private companies or not-for profit entities, rent to private, etc. Forest owners and managers are supported by the Lowland Forest Association (*Associazione Forestale di Pianura*, AFP), a unique case of private-public cooperation in lowland forest management in Italy. AFP has been established to help



active forest management in the area, encourage positive impacts for locals and enhance the dialogue with multiple stakeholders. The area has recently been FSC certified, being the first case in Veneto, where PEFC certification is traditionally supported by Regional Public Forest Authorities. Management operations are not just financed through Municipal budget, but also through funds raised by the Lowland Forest Association via other sources, such as the Rural Development Program and private investors that are increasingly interested in investing in forest projects to offset their carbon emissions, mitigate their environmental impacts, improve their image, etc. Ongoing and planned investments aim to increase the capacity of the forests to deliver ecosystem services, including cultural ones: all these services are taken into account into the newly developed and approved forest management plan for the area. Innovative management solutions however have to face traditional and/or emerging actors. These include both public actors (Regional Authorities, Forest Service) and private ones. Although management remains challenging, new models and arrangements are being developed. This includes for example the appointment of a representative of local environmentalist into the Board of the Association and the recent agreement with the local Hunting Association for the management of a forest area and the prevention of poaching activities. Hotel managers and the tourism industry are also being involved as the managed area increases. Due to proximity to urban areas and the large number of visitors, as well as to the specific ecological (and socio-economic) features of local forest resources (forest remnants, new plantations, periurban parks, etc.) management operations are not standardised and are mostly oriented to facilitate the evolution towards more natural and stable forest ecosystems. This also leaves managers the opportunity to decide future operations based on the progress of development processes and to decide the type and intensity of management operations according to specific conditions. From a purely technical point of view there is not a fixed management model to replicate and much is left to case-by-case decisions made by the forest manager(s) within the framework of a broader strategy set-up through the management plan, and based on coordination with relevant stakeholders. In the short to medium term, selective systems appear as the only viable forest management solutions. Nonetheless it is worthwhile underlining that new agreements and arrangements (both formal and informal) and networking/cooperation among different actors are part of these new management models and likely represent the most relevant and challenging component of future decision making for the management and development of the area.

5. Telšiai, Lithuania

Current Lithuanian forestry can be described as a struggle between the traditional silvicultural focus on maximizing sustainable timber production and increasing attention on environmental and social values. After the restoration of independence and turning towards market economy, timber was considered one of the few domestically available raw materials. This, also the modernization of forestry technologies, the liberalization of international trade and privatization, including forestland restitution to pre-war landowners and their heirs doubled the forest harvesting. Simultaneously, the acceptance of international environmental standards, joining the EU led to “greening” of society together with introducing or increasing environmental regulations, implemented through segregation management and integrative measures. So, the major forest policy conflicts and problems both at



the national and case study area levels are due to struggle between maintaining stern regulation versus increasing the decision freedom for forest owners and managers in practically all forestry aspects.

Forest policy arena is strongly dominated by state forest institutions, including the forest management requirements which are identical to state and private forest owners, disregarding totally different management conditions and owners' needs. Prevailing public opinion on forests and forestry is in principle negative, as the involvement of public in taking forest management decisions is also low. State forest management via 42 state forest enterprises, simultaneously being legally self-subsistent and economically independent entities but fulfilling the requirements to provide conservation, recreational, social services, is far from being efficient and is pending for reforms. Private foresters are predominantly very fragmented, sometimes rather weak, however aiming diverse management objectives, ranging from strongly economic to purely conservational. Timber trade is strongly influenced by third parties and non-transparent round timber auctioning and interests on local timber industries. Implementation of nature protection measures has also introduced some hesitations on the economic and ecologic effectiveness of solutions. Afforestation, especially on abandoned agricultural lands is promoted, however it is reaching the margins. Research and education in forestry is characterised by limited resources and still unbalanced research personnel and institutions.

Development of legal competences and instruments in Lithuanian forestry was relatively stagnant during last years. However, new Government plans to improve legal forestry environment, and the management models of state and private forests, to support timber industries and to solve some environmental problems. Even though the new Government has been in power just for several months, some steps on fulfilling its program are already evident, e.g. the plans for restructuring state forest management and reduce the number of state forest enterprises have already been announced.

At the national scale, the differences between the interests in ecosystem services are clearly seen if governmental and non-governmental actors' groups are compared. The governmental actors are usually interested in diversity of ecosystem services while the non-governmental actors tend to be more concentrated on a specific ecosystem services. The actors interested in timber provision and environmental conservation are most powerful in forest policy processes at the national level, much due to the fact, that they are represented not only by civil society and market actors, but also by the governmental actors. Medium power resources belong to the actors interested in the provision of renewable energy, timber processing, hunting and certification. The weakest in this context are the actors interested in recreation, water provision, and employment in forests. The governmental actors exercise power primarily through coercion due to their executive power. Power of civil society actors is mainly based on unverified information which is spread within lobbying processes, in public relations, contribution to research projects and general participation in the public discourse. Market actors mainly apply some material incentives by regulating timber demands and prices. It should be noted that strong state influence and powerful forest legislation doesn't allocate much power of the non-traditional forest actors.

Similarly to the national level, the strongest actors at the case study level are interested in forest management, recreation and nature conservation. Telšiai state forest enterprise is the actor with the



biggest power among the actors with the interest in forest management, although it is also strongly controlled by the state authorities. The governmental actors have the strongest power resources in the case study and the market actors have the medium influence – this fits the findings at the national level. Nevertheless, the power of civil society actors at local level is somewhat higher the one at national scale. Actors with interests in wood provision, supporting and cultural ecosystem services have the strongest power resources to impact forest management in the case study. The environmental NGOs in the case study area have less influence, if any, on the forest policy than on the national level.

6. The Netherlands

In the Netherlands forest management can be characterized by efforts to achieve a balanced combination of different forest functions, avoid risks and increase forest stability, use natural processes, and limit investments. Forest owners have the right to use, open up and manage their property according to their own visions; the government can only commit (private) forest owners to engage in a certain management of their forest and to open up their property for visitors when a forest owner receives financial support from the government (such as the Subsidy scheme for landscape and nature management, and the Estate Act). Forest policy in a classical, sectorial sense does not exist anymore in The Netherlands, the regulatory discourse has now shifted towards ‘forest and nature governance’.

In the Netherlands, the multifunctional character of forests and forest management is reflected in a diversity of stakeholders involved in forest management. The key actors in Dutch forest management and nature conservation are the central state, the provinces, the municipalities, the (semi-public and private) organizations that manage nature and forest areas (particularly the Dutch National Forest Service, *Natuurmonumenten* and the *Landschappen*), private owners (incl. the umbrella organizations representing private owners), and the forestry actors (employers and employees; particularly the former *Boschap*, Union of Forest Associations, and VVNH).

The diversity of stakeholders involved represents a range of interests. The Dutch government focuses strongly on the multiple-use of forests, combining especially wood provision, biodiversity and nature, and recreation. This is reflected in the management by the Dutch National Forest Service, who combines wood provision, with biodiversity and recreation. In comparison, *Natuurmonumenten* and the Provincial Landscapes focus less on wood provision, and more on the supporting services. Private forest owners focus again more on wood provision, and less on habitats. The eNGOs and the timber industry have a more limited interest; eNGOs focus mainly on the regulating services, and the timber industry on wood provision.

State actors – central government, provinces and municipalities – hold the strongest power resources to regulate and influence the Dutch forest sector. In contrast, both market actors and civil society actors ‘only’ have medium power in the sector. But jointly, they may outnumber state power (like in the design and choice of specific forest management models or regarding forest certification schemes). State actors particularly use coercion and incentives as power resources, whereas non-



state actors particularly use dominant information sources. The following forest ecosystem services are most relevant in the Netherlands: wood and game (provision), biodiversity and habitats (support), water quality (regulation) and recreation and tourism (cultural services).

7. Vale do Sousa, Portugal

In Portugal, there is a general consensus among political decision makers about the need to improve forest policy in order to cope with the problems affecting the forest sector, but there are different opinions about the priorities that should be given to the different problems and policy instruments. The general consensus about the need for policy changes is reflected in the unanimity of the decisions made at the National Parliament concerning Forest Policies. Most of the Portuguese forests are primarily intended for provisioning ecosystem services, e.g. roundwood, pulp and paper and other non-wood forest products. Furthermore, actors such as forest owners and timber industries prefer high harvesting intensities, high shares of eucalypt stands and low amounts of shrubs in forest because of wildfire risk. However, conflicts between different actors exist based on varying priorities between different forest ecosystem services and about how to exactly implement multi-functional forestry. Most important current conflicts about management of forests in Portugal are associated with the following issues:

- Landscape integrated management goals vs. small-scale private property rights;
- Central vs. local policy making;
- Role of the public administration vs. role of forest owners' associations;
- Payment of non-market ecosystem services;
- Preventive vs. suppression fire policy measures;
- Use of non-native tree species;
- Use of timber for traditional uses vs. use of timber for bioenergy;
- Plantation vs. other types of forest;
- Outdoor recreation activities vs. property rights;
- Wildfire risk mitigation management vs. close-to-nature management.

The collective action and the representation of actors within the forest sector have been improving in general and within the case study area, but not up to the point of being very influential in the forest policy making process. Due to property rights, private forest owners are key actors for forest management.

Actors from timber industries impact forest management through their role in managing their land-base (owned or rented) and by lobbying in favor of higher shares of eucalypt and cork oak. They further influence forest management by market incentives. Furthermore, actors from the renewable



energy sector became increasingly important for forest management because of the increased demand of timber for bioenergy. Actors from nature and environmental conservation non-governmental organizations have some power at national level, mostly through information and moral incentives, but they are less influential in Vale do Sousa, at the local level. Actors representing employment in forests have very little influence on forest policy processes.

Actors with recreational interests are almost meaningless for forest policies at the national level. However, recreational interests are supported by significant nature activities promoted by several entities and may thus be influential at the local level; recreationalists enforce their interests directly by accessing and using forests.

8. Podpoľanie, Slovakia

The actor landscape within forest politics in Slovakia become more diverse since early 1990s. More precisely, the transformation from planned to market economy has been accompanied by many institutional changes. Among others, not only new formal institutions such as legally binding laws or soft instruments are introduced or renewed, but also actor landscape is transformed. In this respect, the main institutional upheaval in forestry is related to the changes in forest ownership structure. Specifically, the forest ownerships rights of non-state forest owners are restored. However, the restitution process is still ongoing due to various reasons. Additionally, new actors such as environmental governmental or non-governmental organizations, privately owned business and various associations are formed. In summary, nowadays forest arena consists not only of forestry related actors but also of actors from outside the forestry network (e.g., nature protection, water, and energy from renewable resources, agriculture, and various businesses)

Traditional forestry related actors (governmental and non-governmental) still play the most important role in the forest management. Due to their direct access and decision-making authority over forests based on ownership structure, traditional forestry actors can be considered as key actors for forest management. Actors interested in hunting can be also considered as indirectly influential because of the importance of wild game densities for forest management. Due to changes in formal institutions related to nature protection and conservation, the governmental but especially non-governmental actors become gradually powerful (e.g., media, lobby, public discourse) in respect to forest management. Additionally, actors from timber processing industries impact forest management via increased lobby in favor of higher felling volumes, higher shares of coniferous species, or influence forest management by market forces. In contrast, actors from the renewable energy sector had become increasingly important for forest management because of increased demand for timber due to energetic use.

Generally, the power concerning forest politics at national level is split among actors from and outside forestry arena. Governmental actors mainly interested in forestry and nature have the highest impact on forest politics. From outside the forestry arena, the forest politics is also strongly formally or informally influenced by an agriculture related actors. Furthermore, the governmental actors and

even in some cases also (environmental) non-governmental actors are influenced by businesses rather than politics. The power is increasingly being taken by businesses, which either formally (e.g., associations, non-governmental organizations) or informally influence forest politics. Actors at national level interested in forestry and recreation/tourism represented via various associations and organizations have rather low impact on forest politics. For instance, although associations of non-state forest owners try to have effect (e.g., participating in forest policy formulation processes), their negotiation position is weak. In contrast, actors representing nature via various (environmental) non-governmental organizations exercise medium power in forest politics in Slovakia. Actors interested in timber processing, water and production of energy from renewable resources associated in various associations or organizations have also medium impact on forest politics.

At the level of CSA Podpoľanie the power of various actors concerning forest politics is relatively low. Thus, the results need be interpreted with caution and power characteristics need to be distinguished between forest politics and forest management.

9. Kronoberg County, Sweden

In Sweden the forest sector has been, and still is, a sector of big economic importance, contributing with 11 % of the export value and being an important source of employment. Forest management is oriented towards producing conifer timber and pulpwood for domestic industrial use. Since the 1950s clear cutting has been the totally dominant FMM.

The current forest policy orientation was established in 1993, after a major revision of the forest act. It stipulates that production goals and environmental goals are equally important and policy implementation is characterised by soft policy tools rather than strict regulation. The policy shift in 1993 implied that the government lost their possibility to enforce production-oriented forest management ideals through coercion. Simultaneously, the stronger emphasis on environmental issues has increased the power resources of governmental actors in nature conservation. In short, the national forest policy is characterised by the balancing act between different forest functions, where wood production and nature conservation are most important. The SFA and CAB are the governmental agencies in charge of implementing these policies. Overall, they have medium power resources.

Market actors interested in wood production constitutes the most dominant interest group at both national and case study level. The current forest policy characterised by the principle “Freedom with responsibility” enable them to utilise their power resources to promote production-oriented ideals upon forest owners in the local setting. The internal composition of this group deviates between different regions. In Kronoberg County, the industrialised forest owner organisation Södra constitutes the most important market actor.

Civil society actors can overall be regarded as the weakest actor group. They often lack the power resources to influence forest management in the local setting where forest management is conducted in practice. Instead they are mainly confined to the national level where they try to promote their interests in the policy making process. However, there are large differences between different



interest groups. Environmental NGOs are powerful at the national level and have been successful in their efforts to protect areas of high conservation value in the case study area. Most conflicts in the Swedish forest sector are results of wood production interests that collide with other interests.

Hunting has long tradition in the Swedish culture, and is especially popular among private forest owners and professional foresters. However, especially in southern Sweden the high populations of ungulates is problematic for forest management, causing large damages and making forest owners reluctant to reforest with the preferred forage species.

10. Gölcük, Turkey

Forest management philosophy in Turkey has moved towards the ecosystem based multiple use management concept, accounting for ecological, economic and socio-cultural values in an integrated and sustainable basis since 2008. The necessary regulations for the new approach were also prepared accordingly and are in operational across the country. Almost all actors acknowledged the approach that considers the harmonization of both the conservation and production of ecosystem services. However, conflicts between different actors exist in setting priorities for different forest ecosystem services and about how to exactly implement ecosystem based multiple use forest management concept on the ground.

Most important current conflicts about forest management planning in Turkey are:

1. Stratification of forest lands and/or forest ecosystems to various forest uses
2. Being conservative in determining the annual allowable cut levels in various forest use areas particularly in timber oriented forest use areas
3. Determining management interventions without any decision making techniques
4. Ultimate power of state, less room for the structured participation of other stakeholders

Most important current conflicts about silvicultural management of forests in Turkey are:

1. Unknown or undefined silvicultural models for each forest use/function area, aside from timber production
2. Continuous cover forest model vs even-aged management vs uneven-aged management
3. Industrial plantations vs natural regeneration
4. Optimal stand structure for each forest value or objective
5. Amount of deadwoods shares
6. Thinning intensities for each forest use areas
7. Modeling the development of various stand types (no growth and yield models exist for understocked stands, empirical yield tables exists for only pure and fully stocked stands)

The actors in Turkey have recently started to pronounce their interests and power in the management of forest landscape. State forest actors still play the dominant/key role in forest policies. As the forests are owned and managed by the state, the state actors are the primary decision making authority with a direct relationship with the ministry of forest and water works. In the meantime,



however, nature conservation actors in association with the state nature conservation authority have become increasingly important players in forest policies and have certain influence on forest management over the last couple of decades. Actors from private timber industries have certain impact on forest management by increasing lobby activities in favor of timber oriented forest management by market as well as indirect political forces from the government. Actors representing recreation and hunting have little indirect influence related to the initial forest land allocation to the appropriate forest uses in management planning. Furthermore, actors from the water supply and renewable energy sector became increasingly important for forest management because of the construction of dams for both energy and water supply in forest watersheds and the construction of wind turbines within forests. Actors representing employment (e.g., villagers and cooperatives) in forests have certain influence on forest policy processes as they have certain legislative rights on forestry workforces (e.g., Forest law articles 30 and 31). Actors with the interests of non-wood forest products are currently almost uninfluential in the formulation of forest policies at the national level.

As far as silvicultural management is concerned, the case study area Gölcük has very good growing conditions and wood provision is considered as the most important forest value by the private industries and the state forest industries. One big company and few other small wood processing establishments from timber industries are located in the area and demand mainly wood. The big timber company has high demand of wood that the case study area cannot even supply. Thus intensive silvicultural management model is requested from the case study area to provide as much wood as possible, instead of being conservative, a regular policy of state forest industries. The case study area is important for the provision of drinking water, thus the impacts of silvicultural prescriptions/models on water quality and water quantity need to be considered. Furthermore, the area is quite attractive for recreation and aesthetic values with currently operational 30 small sized promenade areas, because of the close proximity to the industrial area and large metropole (e.g., İstanbul, Adapazarı and Bursa). Protecting forests from insect, illegal cutting and forest fires is also an important issue (yet not the primary issue) in the case study area. Chestnut and mushroom are two important non wood forest products within the study area and the associated actors have limited influence in the management of forests.

The conflicts within the case study area are almost similar to the condition at national level due mainly to the ownership structure. Actors from forestry sector are not quite powerful in the government and within the case study area due to a little contribution (0,8%) of forest sector to GDP. It is quite obvious that the public sectors are the key actors for forest management both in the country and the case study area. Actors from nature conservation are increasingly powerful in forest policies. While water provision in the case study area is gradually increasing, the private water companies have currently weak influence of forest management practices. Actors from timber industries have still strong influence of forest management strategies by setting regulations and market conditions. Cooperatives and villagers are the influential local actors in forest management operations due to their legislative rights on the forest workforce, yet have limited influence in forest management design and planning.

Conclusions and future steps

This report synthesized the results of the analysis of actors driving forest management by WP4 in the ten ALTERFOR case studies. Knowledge about the actors interested in various forest ecosystem services and their power resources to impact forest management are necessary to develop a pluralistic, foresighted integration strategy to reach utilization of ALTERFOR research results in practice based on the RIU-model (Böcher and Krott 2016).

The policy context of forest management is very diverse within Europe. All case studies showed that forest management challenges in the 21st century might require the adaptation of new forest management models that optimize the ecosystem service basket provided by forests. The challenges of climate change adaptation and the increasing importance of renewable energies provided by forests (timber for energetic use, wind turbines within forests, large-scale solar panel farms within forests) impact forest management in the CSAs. Related to climate change, catastrophic events (forest fires, windfalls) constitute a major forest management challenge in several cases. In most countries the provision of timber is one of the most important ecosystem services. However, exceptions exist (e.g. Italy, the Netherlands). Trade-offs between the provision of timber and biodiversity protection exist in all case studies. Insect infestations and browsing damages substantially reduce the amount of timber in several cases. Furthermore, in all cases, society has increasing demands for cultural ecosystem services provided by forests. Thus, new forest management models are needed, taking these diverse forest management challenges into account. Furthermore, the presentation of alternative forest management models to the stakeholders should be linked to the identified current forest policy conflicts in all case studies.

The actor analysis in all cases is only a first step to foster knowledge transfer and implementation of alternative forest management models by practice. The next step of WP4 will be the contribution to the development of alternative forest management scenarios for all case studies, based on the interests of relevant actors. Next, stakeholder workshops will present the results of the work by WP1, WP2, and WP3 in the CSAs. These stakeholder workshops need to relate to important forest policy problems and conflicts in the CSAs to inspire politicians and practitioners.



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Appendix 1: Market and civil society actors in German forest politics (national level)

Identified Actor (Organizations) [in country language]	Identified Actor (Organizations) [English translation]	Website
Market actors		
<p>Forest management</p> <ul style="list-style-type: none"> • Deutscher Forstwirtschaftsrat • Arbeitsgemeinschaft Deutscher Waldbesitzerverbände (AGDW) • Deutscher Forstverein • DLG (Ausschuss für Forstwirtschaft) • Arbeitsgemeinschaft Naturgemäße Waldwirtschaft • Kuratorium für Waldarbeit und Forsttechnik • Deutscher Bauernverband • Verband Deutscher Forstbauschulen • Deutscher Forstunternehmer-Verband • Fachgruppe Forstwirtschaftliche Lohnunternehmer • Bundesverband Freiberuflicher Forstfachverständiger • Bundesverband Deutscher Berufsjäger <ul style="list-style-type: none"> • PEFC • RAL Gütezeichen <p>Timber trade and processing</p> <ul style="list-style-type: none"> • Deutscher Holzwirtschaftsrat • Gesamtverband Deutscher Holzhandel • Hauptverband der der Deutschen Holz und Kunststoff verarbeitenden Industrie und verwandter Industriezweige • Verband der Deutschen Holzwerkstoffindustrie • Vereinigung Deutscher Sägewerksverbände • Arbeitsgemeinschaft der Rohholzverbraucher • Verband Deutscher Papierhersteller 	<ul style="list-style-type: none"> • German Forestry Council • German Forest Owner Association • German Forestry Association • German Agricultural Society (Committee for Forestry) • Working group on natural forestry • Advisory board for work in forestry and forest technology • German Association of Forest Tree Nurseries • German Farmer Association • German Association of Forestry Entrepreneurs • Expert group forestry contractors within the association of the companies within the agricultural sector • Federal association of free-lancing forestry experts • Federal Association of German Professional Hunters <ul style="list-style-type: none"> • PEFC • RAL Certification <ul style="list-style-type: none"> • German Timber Industries Council • German Timber Trade Federation • Central Association of the German timber and plastic material manufacturing industries and related industries • German Association of derived timber products industries • German Association of sawmill associations • Working group of timber users • German association of paper production 	<ul style="list-style-type: none"> • www.dfwr.de • www.waldeigentuemmer.de • www.forstverein.de • www.dlg.org • www.anw-deutschland.de • www.kfw-online.de • www.bauernverband.de • www.vfd-online.org • http://dfuv.eu • www.lohnunternehmen.de • www.bvff-ev.de • www.revierjaeger.de <ul style="list-style-type: none"> • pefc.de • www.ral-guetezeichen.de <ul style="list-style-type: none"> • www.dhwr.de • www.gdholz.de • www.holzindustrie.de • nw.vhi.de/vhi/ • www.saegeindustrie.de • www.rohholzverbraucher.de • www.vdp-online.de

<p>Renewable energy regeneration</p> <ul style="list-style-type: none"> • Bundesverband für Erneuerbare Energien • Bundesverband Bioenergie • Bundesverband Windenergie • Bundesverband für Brennholzhandel und Brennholzproduktion • Deutscher Energieholz und Pellet Verband <p>Water provision</p> <ul style="list-style-type: none"> • Deutscher Vereinigung für Wasserwirtschaft, Abwasser und Abfall • Bundesverband der Energie und Wasserwirtschaft (BDEW) <p>Tourism</p> <ul style="list-style-type: none"> • Deutscher Tourismusverband 	<ul style="list-style-type: none"> • Federal Association for Renewable Energies • Federal Association Bioenergy • Federal Association Wind Energy • Federal Association for Fuelwood Trade and Fuelwood Production • German Association of Fuelwood and Pellets <ul style="list-style-type: none"> • German association for water supply and distribution, waste water and management • Federal association of energy and water management <ul style="list-style-type: none"> • German Association for Tourism 	<ul style="list-style-type: none"> • www.bee-ev.de • www.bioenergie.de • www.wind-energie.de • www.bundesverband-brennholz.de • www.depv.de <ul style="list-style-type: none"> • de.dwa.de • www.bedew.de <ul style="list-style-type: none"> • www.deutschertourismusverband.de
Civil Society actors		
<p>Employment in forests</p> <ul style="list-style-type: none"> • Bund Deutscher Forstleute • IG Bauen Agrar Umwelt <p>Sustainable biomass use</p> <ul style="list-style-type: none"> • Forum Umwelt und Entwicklung/Plattform nachhaltige Biomasse <p>Recreation</p> <ul style="list-style-type: none"> • Deutscher Wanderverband • Deutscher olympischer Sportbund • Mountainbike Verband Deutschland • Allgemeiner Deutscher Fahrradclub (ADFC) • Vereinigung der Freizeitfahrer und Reiter in Deutschland e.V. (VFR) • Kuratorium für Sport und Natur • Deutsche Reiterliche Vereinigung • Deutscher Imkerbund <p>Hunting</p> <ul style="list-style-type: none"> • Deutscher Jagdschutzverband e.V. (DJV) • Ökologischer Jagdverband • Schutzgemeinschaft Deutsches Wild 	<ul style="list-style-type: none"> • German Association of Foresters • Labor Union Construction, Agriculture, Environment <ul style="list-style-type: none"> • Forum Environment and Development/Platform sustainable biomass <ul style="list-style-type: none"> • German Hiking Association • German Sports Union • German Association of Mountain Biking • General German Bicycle Club • German Union of non-professional riders and horse riders • Expert committee for sports and nature • German Horse Riding Union • German beekeeping union <ul style="list-style-type: none"> • German Hunting Association • Ecological Hunting Association • Associations for the Protection of German Wild Game 	<ul style="list-style-type: none"> • www.bdf-online.de • www.igbau.de <ul style="list-style-type: none"> • www.forumue.de <ul style="list-style-type: none"> • www.wanderverband.de • www.dosb.de • www.dimb.de • www.adfc.de • www.vfdnet.de • www.kuratorium-sport-natur.de • www.pferd-aktuell.de • www.deutscherimkerbund.de <ul style="list-style-type: none"> • www.jagdverband.de • www.oeiv.org • www.sdwi.de

<p>Certification</p> <ul style="list-style-type: none"> • FSC <p>Environmental, nature, and landscape conservation</p> <ul style="list-style-type: none"> • Vereinigung Deutscher Gewässerschutz • NABU • BUND • WWF • Greenpeace • Robin Wood • Schutzgemeinschaft Deutscher Wald • Deutscher Naturschutzring • PrimaKlima • Verband Deutscher Naturparke • NaturFreunde Deutschland • EuroNatur Stiftung • DBU Naturerbe GmbH/Projekt Wald in Not • Deutscher Verband für Landespflege (DVL) • Deutsche Landeskulturgesellschaft (DLKG) • Bund Heimat und Umwelt in Deutschland e.V. (BHU) 	<ul style="list-style-type: none"> • FSC <ul style="list-style-type: none"> • German inshore waters protection union • German Chapter of Birdlife International • German Chapter of Friends of the Earth • WWF • Greenpeace • Robin Wood • Association for the Protection of German Forests • Association of German Nature Parks • Friends of Nature Germany • EuroNature Foundation • German Federal Foundation for the Environment Natural Heritage inc./ Project Forests in Danger • German Association for Landscape Planning • German Society for Land Improvement • Union for Homeland and Environment in Germany 	<ul style="list-style-type: none"> • www.fsc-deutschland.de <ul style="list-style-type: none"> • www.vdg-online.de • www.nabu.de • www.bund.net • www.wwf.de • www.greenpeace.de • www.robinwood.de • www.sdw.org • www.dnr.de • www.prima-klima.weltweit.de • www.naturparke.de • www.naturfreunde.de • www.euronatur.org • www.dbu.de • www.lpv.de • www.dlkg.de • www.bhu.de
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Appendix 2: Governmental actors in German forest politics (national level)

<i>Original name</i>	<i>Name translated into English</i>	<i>Website</i>
<ul style="list-style-type: none"> • Bundesministerium für Ernährung und Landwirtschaft • Bundesministerium für Wirtschaft und Energie • Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit • Bundesamt für Naturschutz • Umweltbundesamt • Bundesanstalt für Immobilienaufgaben, Geschäftsbereich Bundesforst • Deutscher Landkreistag • Deutscher Städte- und Gemeindebund 	<ul style="list-style-type: none"> • Federal Ministry for Nutrition and Agriculture • Federal Ministry of Economic Affairs and Energy • Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety • Federal Agency for Nature Conservation • Federal Environmental Agency • Institute for Federal Real Estate Operational Division Federal Forests • German District Association • German Association of Towns and Municipalities 	<ul style="list-style-type: none"> • www.bmel.de • www.bmwi.de • www.bmub.bund.de • www.bfn.de • www.umweltbundesamt.de • www.bundesimmobilien.de • www.landkreistag.de • www.dstggb.de

Appendix 3: Interests in different ecosystem services (Germany, national level)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • German Forestry Council • German Forest Owner Association • German Forestry Association • German Agricultural Society (Committee for Forestry) • Working group on natural forestry • Advisory board for work in forestry and forest technology • German Association of Forest Tree Nurseries • German Farmer Association • German Association of Forestry Entrepreneurs • Expert group forestry contractors • Federal association of free-lancing forestry experts • PEFC • FSC • RAL Certification • German Timber Industries Council • German Timber Trade Federation • Central Association of the German timber and plastic material manufacturing industries and related industries • German Association of derived timber products industries • German Association of sawmill associations • Working group of timber users • German association of paper production • Federal Association for Renewable Energies • Federal Association Bioenergy • Federal Association for Fuelwood Trade and Fuelwood Production • German Association of Fuelwood Pellets • German Association of Foresters • Labor Union Construction, Agriculture, Environment • Federal Ministry for Nutrition and Agriculture • Federal Ministry of Economic Affairs and Energy • Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety • Federal Agency for Nature Conservation • Federal Environmental Agency • Institute for Federal Real Estate Operational Division Federal Forests • German County Association • German Association of Towns and Municipalities
Mushrooms	<ul style="list-style-type: none"> • German Hiking Association • German Chapter of Birdlife International • German Chapter of Friends of the Earth • WWF • Greenpeace • Robin Wood • Association for the Protection of German Forests

Berries	-
Game	<ul style="list-style-type: none"> • German Hunting Association • Ecological Hunting Association
Medical plants	-
Other(s)	-
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • German Chapter of Birdlife International • German Chapter of Friends of the Earth • WWF • Greenpeace • Robin Wood • Association for the Protection of German Forests • Associations for the Protection of German Wild Game • Association of German Nature Parks • Friends of Nature Germany • EuroNature Foundation • German Federal Foundation for the Environment Natural Heritage inc./ Project Forests in Danger • Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety • Federal Agency for Nature Conservation • Federal Environmental Agency • German County Association • German Association of Towns and Municipalities • German Association of Forest Tree Nurseries
Habitat for species	<ul style="list-style-type: none"> • German Chapter of Birdlife International • German Chapter of Friends of the Earth • WWF • Greenpeace • Robin Wood • Association for the Protection of German Forests • Associations for the Protection of German Wild Game • Association of German Nature Parks • Friends of Nature Germany • EuroNature Foundation • German Federal Foundation for the Environment Natural Heritage inc./ Project Forests in Danger • Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety • Federal Agency for Nature Conservation • Federal Environmental Agency • German County Association • German Association of Towns and Municipalities • FSC
Other(s)	-
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • German Chapter of Birdlife International • German Chapter of Friends of the Earth • WWF • Greenpeace • Robin Wood

	<ul style="list-style-type: none"> • Association for the Protection of German Forests
Climate regulation	<ul style="list-style-type: none"> • German Chapter of Birdlife International • German Chapter of Friends of the Earth • WWF • Greenpeace • Robin Wood • Association for the Protection of German Forests
Water quality	<ul style="list-style-type: none"> • German inshore waters protection union • German association for water supply and distribution, waste water and management • Federal association of energy and water management • German Chapter of Birdlife International • German Chapter of Friends of the Earth • WWF • Greenpeace • Robin Wood • Association for the Protection of German Forests
Pest control	<ul style="list-style-type: none"> • German Forestry Council • German Forest Owner Association • Association for the Protection of German Forests
Other(s)	-
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • German Hiking Association • German Sports Union • German Association of Mountain Biking • General German Bicycle Club • German Union of non-professional riders and horse riders • Expert committee for sports and nature • German Horse Riding Union
Aesthetic values	<ul style="list-style-type: none"> • German Association for Landscape Planning • German Society for Land Improvement • Union for Homeland and Environment in Germany
Tourism	<ul style="list-style-type: none"> • German Association for Tourism
Other(s)	-

Appendix 4: Actors in the case study Bavaria (Germany)

Stakeholder Category	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name translated into English]
Market actors		
Forest owners	<ul style="list-style-type: none"> • Bayerischer Waldbesitzerverband e.V. • Verband der Bayrischen Grundbesitzer e.V. • Bayrischer Bauernverband e.V. • Bayrischer Forstverein e.V. • Forstliche Vereinigung Schwaben e.V. <ul style="list-style-type: none"> ○ FBG Augsburg-West ○ FBG Augsburg-Nord ○ FBG Isar-Lech ○ FBG Memmingen ○ FBG Oberallgäu ○ FBG Schwabmünchen ○ WBG Region Augsburg • Fürstlich und Gräfliches Fuggersches Stiftungsforstamt • Privatwald Fugger-Babenhausen • Individuelle, unorganisierte Kleinprivatwaldeigentümer • Individuelle Großprivatwaldeigentümer 	<ul style="list-style-type: none"> • Bavarian forest owner association • Bavarian association of privately owned land • Bavarian farmer association • Bavarian forest association • Union of Swabian forest management associations <ul style="list-style-type: none"> ○ Forest management association Augsburg-West ○ Forest management association Augsburg-Nord ○ Forest management association Isar-Lech ○ Forest management association Memmingen ○ Forest management association Oberallgäu ○ Forest management association Oberallgäu ○ Forest management association Schwabmünchen ○ Forest management association Augsburg Region • Baronial and Comital forestry office of the Fugger Foundation • Private forest Fugger-Babenhausen • Individual, unorganized small-scale forest owners • Individual large-scale forest owners
Timber processing	<ul style="list-style-type: none"> • Verband der Holzwirtschaft und Kunststoffverarbeitung Bayern/Thüringen • Landesinnungsverband des Bayerischen Zimmererhandwerks • Verband Bayrischer Papierfabriken • Netzwerk Holzbau Augsburg • UPM • Pfeifer Sägewerk • Ilim Timber • Diverse lokale Sägewerke, Holzhandel, etc. 	<ul style="list-style-type: none"> • Timber industries and synthetic material processing association Bavaria/Thuringia • State guild association of Bavarian carpentry • Association of Bavarian paper mills • Network timber construction Augsburg • UPM • Pfeifer sawmill • Ilim Timber • Diverse local sawmills, timber trade companies, etc.
Renewable energy provision	<ul style="list-style-type: none"> • Bundesverband Windenergie-Regionalverband Schwaben • Lokale, regionale und andere Windenergieunternehmen • Holzpellet- und Hackschnitzelunternehmen 	<ul style="list-style-type: none"> • Wind energy association- Regional subchapter Schwabia • Local, regional, and other wind energy companies • Wood pellet and woodchips companies
Work in forests	<ul style="list-style-type: none"> • Forstsachverständige • Forstwirte • Forstliche Lohnunternehmer 	<ul style="list-style-type: none"> • Forestry experts • Forest workers • Forestry work contractors

Civil Society		
Employment in forests	<ul style="list-style-type: none"> • BDF - Bund Deutscher Forstleute Landesverband Bayern e.V. • Bayrischer Beamtenbund e.V. • DGB Bayern • Förster 	<ul style="list-style-type: none"> • Bavarian state association of the German forester association • Bavarian association of public officers • German labor union Bavaria • Forester
Recreation	<ul style="list-style-type: none"> • Verein zur Sicherstellung überörtlicher Erholungsgebiete für die Region Augsburg e. V. (EVA) • Pilzverein Augsburg Königsbrunn e.V. • Wanderer • Geo-cacher • Pilz- und Beerensammler • Radfahrer • Mountainbiker • Motor-cross Fahrer • Quad Fahrer 	<ul style="list-style-type: none"> • Association for the regional securing of recreational areas in Augsburg • Mushroom association Augsburg Königsbrunn • Individual hikers • Individual geo-cachers • Mushroom and berry pickers • Individual bikers • Individual mountain bikers • Individual motor-cross riders • Individual off-road vehicle (quad) drivers
Hunting	<ul style="list-style-type: none"> • Jägervereinigung Augsburg e.V., Jagdverband Kreisgruppe Augsburg • Jagdagenda 21 • Ökologischer Jagdverein • Jagdpächter • Jagderlaubnisscheininhaber • Jagdverpächter • Berufsjäger 	<ul style="list-style-type: none"> • Hunting association Augsburg • Hunting agenda 21 • Ecological hunting association • Tenants of a hunt • Hunters with permission to hunt within the state forest • Landlords of a hunt • Professional hunters
Fishing	<ul style="list-style-type: none"> • Fischereiverband Schwaben e.V. 	<ul style="list-style-type: none"> • Fishing association Augsburg
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> • Naturschutzallianz • Naturpark Augsburg Westliche Wälder e.V. • Landschaftspflegeverband Stadt Augsburg e.V. • Bund Naturschutz Bayern • Bund Naturschutz Kreisgruppe Augsburg • Bund für Vogelschutz Bayern • Bund für Vogelschutz Kreisgruppe Augsburg • Schutzgemeinschaft Deutscher Wald Bayern • Individuelle Naturschützer 	<ul style="list-style-type: none"> • Nature conservation alliance • Nature park Augsburg Western forests association • Landscape architecture association of the city of Augsburg • Friends of the Earth Bavaria • Friends of the Earth subgroup Augsburg • Birdlife Bavaria • Birdlife Augsburg • Association for the protection of the German forest Bavaria • Individual nature conservationists
Governmental-Actors		
Forest management	<ul style="list-style-type: none"> • Bayerische Staatsforsten AöR <ul style="list-style-type: none"> ◦ FB Zusmarshausen ◦ FB Ottobern • Amt für Ernährung, Landwirtschaft und Forsten Augsburg • Bayerisches Staatsministerium für Ernährung, Landwirtschaft und Forsten • Zentrum Wald-Forst-Holz Weihenstephan • Bayerische Landesanstalt für Wald und Forstwirtschaft (LWF) 	<ul style="list-style-type: none"> • Bavarian State forest administration <ul style="list-style-type: none"> ◦ District Zusmarshausen ◦ District Ottobern • Office for Nutrition, Agriculture, and Forestry Augsburg • Bavarian State Ministry for Nutrition, Agriculture, and Forestry • Centre Forest-Forestry-Timber Weihenstephan • Bavarian Regional office for forests and forestry

Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> • Bayerische Staatsministerium für Umwelt und Verbraucherschutz (StMUV) • Landesamt für Vogelschutz • Landratsamt Augsburg 	<ul style="list-style-type: none"> • Bavarian State Ministry for the Environment and Consumer Protection • State office for bird protection • District office Augsburg
Water provision	<ul style="list-style-type: none"> • Stadtwerke Augsburg • Diverse kommunale Wasserzweckverbände 	<ul style="list-style-type: none"> • Public utility company Augsburg • Several municipal public utility companies



Appendix 5: Actors in the case study/Contacts (Bavaria, Germany)

Identified Stakeholder (Organizations) [Name translated into English]	Website or physical address/contact
Market actors	
<ul style="list-style-type: none"> Bavarian forest owner association Bavarian association of privately owned land Bavarian farmer association Bavarian forest association Union of Swabian forest management associations Baronial and Comital forestry office of the Fugger Foundation 	<ul style="list-style-type: none"> http://www.bayer-waldbesitzerverband.de/ www.bwe-online.de www.bayerischerbauernverband.de http://www.fvschwaben.de http://www.fugger.de/stiftungen.html
<ul style="list-style-type: none"> Timber industries and synthetic material processing association Bavaria/Thuringia State guild association of Bavarian carpentry Association of Bavarian paper mills Network timber construction Augsburg UPM Pfeifer sawmill Ilim Timber 	<ul style="list-style-type: none"> www.holzverband.de/verband/verband-der-holzwirtschaft-und-kunststoffverarbeitung-bayernthuringen-ev www.zimmerer-bayern.com www.baypapier.com/ www.netzwerkholzbau.de www.upm.de www.pfeifergroup.com www.iliimtimber.com
<ul style="list-style-type: none"> Wind energy association- Regional subchapter Schwabia 	<ul style="list-style-type: none"> www.wind-energie.de/verband/landes-und-regional-verbaende/bayern/regionalverbaende
Civil Society	
<ul style="list-style-type: none"> Bavarian state association of the German forester association Bavarian association of public officers German labor union Bavaria 	<ul style="list-style-type: none"> www.forstverein.de/bayfv/profil.html bbb-bayern.de bayern.dgb.de
<ul style="list-style-type: none"> Association for the regional securing of recreational areas in Augsburg Mushroom association Augsburg Königsbrunn 	<ul style="list-style-type: none"> www.eva-augsburg.de http://pilzeaugsburg.de/
<ul style="list-style-type: none"> Hunting association Augsburg Hunting agenda 21 Ecological hunting association 	<ul style="list-style-type: none"> www.jagd-augsburg.de www.jagdagenda.de www.oeiv-bayern.de
<ul style="list-style-type: none"> Fishing association Augsburg 	<ul style="list-style-type: none"> www.fva-ev.de
<ul style="list-style-type: none"> Nature conservation alliance Nature park Augsburg Western forests association Landscape architecture association of the city of Augsburg Friends of the Earth Bavaria Birdlife Bavaria Birdlife Augsburg Association for the protection of the German forest Bavaria 	<ul style="list-style-type: none"> www.naturschutzallianz.de www.naturpark-augsburg.de lpv-augsburg.de www.bund-naturschutz.de www.lbv.de http://augsburg.lbv.de/lbv-augsburg.html www.sdw-bayern.de
Governmental actors	
<ul style="list-style-type: none"> Bavarian State forest administration Office for Nutrition, Agriculture, and Forestry Augsburg Bavarian State Ministry for Nutrition, Agriculture, and Forestry Centre Forest-Forestry-Timber Weihenstephan 	<ul style="list-style-type: none"> http://www.baysf.de/de.html www.aelf-au.bayern.de www.stmelf.bayern.de www.forstzentrum.de www.lwf.bayern.de

<ul style="list-style-type: none"> • Bavarian Regional office for forests and forestry 	
<ul style="list-style-type: none"> • Bavarian State Ministry for the Environment and Consumer Protection • State office for bird protection • District office Augsburg 	<ul style="list-style-type: none"> • www.stmuv.bayern.de • http://www.lfu.bayern.de/natur/vogelschutzwarte/index.htm • www.landkreis-augsburg.de
<ul style="list-style-type: none"> • Public utility company Augsburg 	<ul style="list-style-type: none"> • www.sw-augsburg.de



Appendix 6: Actors in Bavaria interested in different ecosystem services

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Bavarian forest owner association • Bavarian association of privately owned land • Bavarian farmer association • Bavarian forest association • Union of Swabian forest management associations <ul style="list-style-type: none"> ○ Forest management association Augsburg-West ○ Forest management association Augsburg-Nord ○ Forest management association Isar-Lech ○ Forest management association Memmingen ○ Forest management association Oberallgäu ○ Forest management association Oberallgäu ○ Forest management association Schwabmünchen ○ Forest management association Augsburg Region • Baronial and Comital forestry office of the Fugger Foundation • Private forest Fugger-Babenhausen • Individual, unorganized small-scale forest owners • Individual large-scale forest owners • Timber industries and synthetic material processing association Bavaria/Thuringia • State guild association of Bavarian carpentry • Association of Bavarian paper mills • Network timber construction Augsburg • UPM • Pfeifer sawmill • Ilim Timber • Diverse local sawmills, timber trade companies, etc. • Wood pellet and woodchips companies • Forest workers • Forestry work contractors • Bavarian state association of the German forester association • Bavarian association of public officers • German labor union Bavaria • Forester • Bavarian State forest administration <ul style="list-style-type: none"> ○ District Zusmarshausen ○ District Ottobeuren • Office for Nutrition, Agriculture, and Forestry Augsburg • Bavarian State Ministry for Nutrition, Agriculture, and Forestry • Centre Forest-Forestry-Timber Weihenstephan • Bavarian Regional office for forests and forestry
Mushrooms	<ul style="list-style-type: none"> • Individual mushroom pickers (recreational) • Mushroom association Augsburg Königsbrunn
Berries	<ul style="list-style-type: none"> • Individual berry pickers (recreational)
Game	<ul style="list-style-type: none"> • Hunting association Augsburg • Hunting agenda 21 • Ecological hunting association • Tenants of a hunt • Hunters with permission to hunt within the state forest • Landlords of a hunt

	<ul style="list-style-type: none"> Professional hunters
Medical plants	-
Other(s)	<p>Fish from ponds within the forest:</p> <ul style="list-style-type: none"> Fishing association Augsburg Individual fishermen (recreational) <p>Energy provision by wind turbines within forests</p> <ul style="list-style-type: none"> Wind energy association- Regional subchapter Schwabia Local, regional, and other wind energy companies
Supporting services	
Biodiversity	<ul style="list-style-type: none"> Nature conservation alliance Nature park Augsburg Western forests association Landscape architecture association of the city of Augsburg Friends of the Earth Bavaria Friends of the Earth subgroup Augsburg Birdlife Bavaria Birdlife Augsburg Association for the protection of the German forest Bavaria Individual nature conservationists
Habitat for species	<ul style="list-style-type: none"> Nature conservation alliance Nature park Augsburg Western forests association Landscape architecture association of the city of Augsburg Friends of the Earth Bavaria Friends of the Earth subgroup Augsburg Birdlife Bavaria Birdlife Augsburg Association for the protection of the German forest Bavaria Individual nature conservationists
Other(s)	-
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> Nature conservation alliance Landscape architecture association of the city of Augsburg Friends of the Earth Bavaria Friends of the Earth subgroup Augsburg Birdlife Bavaria Birdlife Augsburg Association for the protection of the German forest Bavaria Individual nature conservationists
Climate regulation	<ul style="list-style-type: none"> Nature conservation alliance Landscape architecture association of the city of Augsburg Friends of the Earth Bavaria Friends of the Earth subgroup Augsburg Birdlife Bavaria Birdlife Augsburg Association for the protection of the German forest Bavaria Individual nature conservationists
Water quality	<ul style="list-style-type: none"> Public utility company Augsburg Several municipal public utility companies

Pest control	<ul style="list-style-type: none"> • Bavarian State forest administration <ul style="list-style-type: none"> ○ District Zusmarshausen ○ District Ottobeuren • Office for Nutrition, Agriculture, and Forestry Augsburg • Bavarian State Ministry for Nutrition, Agriculture, and Forestry • Bavarian Regional office for forests and forestry • Centre Forest-Forestry-Timber Weihenstephan • Bavarian forest owner association • Bavarian association of privately owned land • Bavarian farmer association • Bavarian forest association • Union of Swabian forest management associations <ul style="list-style-type: none"> ○ Forest management association Augsburg-West ○ Forest management association Augsburg-Nord ○ Forest management association Isar-Lech ○ Forest management association Memmingen ○ Forest management association Oberallgäu ○ Forest management association Oberallgäu ○ Forest management association Schwabmünchen ○ Forest management association Augsburg Region • Baronial and Comital forestry office of the Fugger Foundation • Private forest Fugger-Babenhausen • Individual, unorganized small-scale forest owners • Individual large-scale forest owners • Association for the protection of the German forest Bavaria
Other(s)	-
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Association for the regional securing of recreational areas in Augsburg • Mushroom association Augsburg Königsbrunn • Individual hikers • Individual geo-cachers • Mushroom and berry pickers • Individual bikers • Individual mountain bikers • Individual motor-cross riders • Individual off-road vehicle (quad) drivers • Nature park Augsburg Western forests association
Aesthetic values	<ul style="list-style-type: none"> • Landscape architecture association of the city of Augsburg • Nature park Augsburg Western forests association
Tourism	<ul style="list-style-type: none"> • Nature park Augsburg Western forests association
Other(s)	-

Appendix 7: Actors in the case study Brandenburg (Lieberose/Schlaubetal)

Stakeholder Category	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name translated into English]
Market actors		
Forest management	<ul style="list-style-type: none"> Waldbesitzer Verband Brandenburg Waldbauernverband Brandenburg Forum Natur Stiftung Stift Neuzelle Stadtwald Lieberose Individuelle, unorganisierte Kleinprivatwaldeigentümer Individuelle Großprivatwaldeigentümer 	<ul style="list-style-type: none"> Forest Owner Association Brandenburg Small-scale Forest Owner Association Brandenburg Forum for Nature Foundation of Monastery Neuzelle Municipal-owned forest Lieberose Individual, unorganized small-scale forest owner Individual large-scale forest owner
Timber processing	<ul style="list-style-type: none"> Robeta Klenk Holz AG Kiefern Bohm GmbH & Co. KG Holzhandel Templin Hans Henning Fritzsche Holzhandel und Forstbetrieb Sven Wiernowolski Forstbetrieb Holzhandel 	<ul style="list-style-type: none"> Robeta Klenk Holz AG Kiefern Bohm GmbH & Co. KG Holzhandel Templin Hans Henning Fritzsche Holzhandel und Forstbetrieb Sven Wiernowolski Forstbetrieb Holzhandel
Renewable energy provision	<ul style="list-style-type: none"> Juwi Bundesverband Windenergie Berlin/Brandenburg Holzpellet- und Hackschnitzelunternehmen 	<ul style="list-style-type: none"> Juwi Wind energy association Berlin/Brandenburg Wood pellet and wood chips companies
Work in forests	<ul style="list-style-type: none"> Forstliche Lohnunternehmen Forsteinrichtung Berufsjäger 	<ul style="list-style-type: none"> Forestry work contractors Forestry experts Professional hunters
Tourism	<ul style="list-style-type: none"> Tourismus-Marketing Schlaubetal e.V. Tourismus-Entwicklungsgesellschaft (TEG) Lieberose/Oberspreewald mbH Internationale Naturausstellung (I.N.A.) Lieberoser Heide/AG I.N.A. Lieberoser Heide 	<ul style="list-style-type: none"> Tourism-Marketing Schlaubetal Association for Touristic Development Lieberose/Oberspreewald International Nature Exhibition Lieberose Heather Land
Civil Society		
Employment in forests	<ul style="list-style-type: none"> Bund deutscher Forstleute Brandenburg IG Bau Agrar Umwelt Brandenburg 	<ul style="list-style-type: none"> Brandenburg state association of the German forester association German labor union Brandenburg
Recreation	<ul style="list-style-type: none"> Hundespaziergänger Wanderer Geo-cacher Pilz- und Beerensammler Radfahrer Mountainbiker Motor-cross Fahrer Quad Fahrer 	<ul style="list-style-type: none"> Recreationists with dogs Individual hikers Individual geo-cachers Mushroom and berry pickers Individual bikers Individual mountain bikers Individual motor-cross riders Individual off-road vehicle (quad) drivers

Hunting	<ul style="list-style-type: none"> • Landesjagdverband Brandenburg • Ökologischer Jagdverein Brandenburg • Jagdpächter • Jagderlaubnisscheininhaber • Jagdverpächter 	<ul style="list-style-type: none"> • Hunting association Brandenburg • Ecological hunting association Brandenburg • Tenants of a hunt • Hunters with permission to hunt within the state forest • Landlords of a hunt
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> • NABU Brandenburg • BUND Brandenburg • Stiftung Naturlandschaften Brandenburg • Arbeitsgemeinschaft naturgemäße Waldwirtschaft 	<ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management
Governmental-Actors		
Forest management	<ul style="list-style-type: none"> • Forstbetrieb Brandenburg • Brandenburgisches Ministerium für Ländliche Entwicklung Umwelt und Landwirtschaft 	<ul style="list-style-type: none"> • State-owned forest enterprise Brandenburg • Ministry for rural development, the environment, and agriculture
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> • Brandenburgisches Ministerium für Ländliche Entwicklung, Umwelt und Landwirtschaft • Landesamt für Umwelt Brandenburg 	<ul style="list-style-type: none"> • Ministry for rural development, the environment, and agriculture • Authorities for the Environment Brandenburg

Appendix 8: Websites of actors in Brandenburg (Lieberose/Schlaubetal)

Identified Stakeholder (Organizations) [Name translated into English]	Website
Market actors	
Forest management: <ul style="list-style-type: none"> • Forest Owner Association Brandenburg • Small-scale Forest Owner Association Brandenburg • Forum for Nature • Foundation of Monastery Neuzelle 	www.waldbesitzerverband-brandenburg.de www.waldbauern-info.de www.forum-natur-brandenburg.de www.stift-neuzelle.de
Timber industries: <ul style="list-style-type: none"> • Robeta • Klenk Holz AG • Kiefern Bohm GmbH & Co. KG • Holzindustrie Templin • Hans Henning Fritzsche Holzhandel und Forstbetrieb 	www.robeta.de www.klenk.de www.kiefernbohm.de www.hitemplin.com www.forstdienstleistungen-fritzsche.de
Energy sector: <ul style="list-style-type: none"> • Juwi • Wind energy association Berlin/Brandenburg 	www.juwi.de https://www.wind-energie.de/verband/landes-und-regionalverbande/berlin-brandenburg
Touristic sector: <ul style="list-style-type: none"> • Tourismus-Marketing Schlaubetal • Association for Touristic Development Lieberose/Oberspreewald • International Nature Exhibition Lieberose Hether Land 	www.schlaubetal-online.de www.teg-lds.de www.ina-lieberose.de
Civil Society	
Employment in forests: <ul style="list-style-type: none"> • Brandenburg state association of the German forester association • German labor union Brandenburg 	www.bdf-online.de www.igbau.de
Hunting: <ul style="list-style-type: none"> • Hunting association Brandenburg • Ecological hunting association 	www.ljv-brandenburg.de www.oejv-brandenburg.de
Environment, nature and landscape conservation: <ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management 	https://brandenburg.nabu.de www.bund-brandenburg.de www.stiftung-nlb.de www.anw-brandenburg.de

Governmental actors	
<ul style="list-style-type: none"> • State-owned forest enterprise Brandenburg • Ministry for rural development, the environment, and agriculture 	<p>http://forst.brandenburg.de</p> <p>www.mlul.brandenburg.de</p>



Appendix 9: Actors in the case study interested in different ecosystem services in Brandenburg (Lieberose/Schlaubetal)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Forest Owner Association Brandenburg • Small-scale Forest Owner Association Brandenburg • Forum for Nature • Foundation of the Monastery Neuzelle • Municipal-owned forest Lieberose • Other individual, unorganized small-scale forest owner • Other, individual large-scale forest owner • Timber industries, e.g. <ul style="list-style-type: none"> ○ Robeta ○ Klenk Holz AG ○ Kiefern Bohm GmbH & Co. KG ○ Holzhandel Templin ○ Hans Henning Fritzsche Holzhandel und Forstbetrieb ○ Sven Wiernowski Forstbetrieb Holzhandel • Wood pellet and wood chips companies • State-owned forest enterprise Brandenburg • Ministry for rural development, the environment, and agriculture
Mushrooms	<ul style="list-style-type: none"> • Mushroom pickers • Tourism-Marketing Schlaubetal • Association for Touristic Development Lieberose/Oberspreewald • International Nature Exhibition Lieberose Heather Land • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management
Berries	<ul style="list-style-type: none"> • Berry pickers • Tourism-Marketing Schlaubetal • Association for Touristic Development Lieberose/Oberspreewald • International Nature Exhibition Lieberose Heather Land
Game	<ul style="list-style-type: none"> • Hunting association Brandenburg • Ecological hunting association
Medical plants	-
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management • Ministry for rural development, the environment, and agriculture • Authorities for the Environment Brandenburg
Habitat for species	<ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg

	<ul style="list-style-type: none"> • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management • Ministry for rural development, the environment, and agriculture • Authorities for the Environment Brandenburg
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management • Ministry for rural development, the environment, and agriculture • Authorities for the Environment Brandenburg
Climate regulation	<ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management • Ministry for rural development, the environment, and agriculture • Authorities for the Environment Brandenburg
Water quality	<ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management • Ministry for rural development, the environment, and agriculture • Authorities for the Environment Brandenburg
Pest control	<ul style="list-style-type: none"> • Birdlife Brandenburg • Friends of the Earth Brandenburg • Brandenburg Wilderness Foundation • Working group for ecologically-sound forest management • Ministry for rural development, the environment, and agriculture • Authorities for the Environment Brandenburg • Forest Owner Association Brandenburg • Small-scale Forest Owner Association Brandenburg • Forum for Nature • Foundation of the Monastery Neuzelle • Municipal-owned forest Lieberose • Other individual, unorganized small-scale forest owner • Other, individual large-scale forest owner
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Recreationists with dogs • Individual hikers • Individual geo-cachers • Mushroom and berry pickers • Individual bikers • Individual mountain bikers • Individual motor-cross riders • Individual off-road vehicle (quad) drivers
Aesthetic values	<ul style="list-style-type: none"> • Tourism-Marketing Schlaubetal • Association for Touristic Development Lieberose/Oberspreewald • International Nature Exhibition Lieberose Heather Land • Recreationists with dogs • Individual hikers • Individual geo-cachers • Mushroom and berry pickers

	<ul style="list-style-type: none"> • Individual bikers • Individual mountain bikers
Tourism	<ul style="list-style-type: none"> • Tourism-Marketing Schlaubetal • Association for Touristic Development Lieberose/Oberspreewald • International Nature Exhibition Lieberose Heather Land

Appendix 10. Governmental actors in Ireland (national level)

Name	English translation of Irish words	Website
Forest Service		https://www.agriculture.gov.ie/for-estservice/
National Park and Wildlife Services (NPWS)		https://www.npws.ie/
Environmental Protection Agency (EPA)		http://www.epa.ie/
Inland fisheries		http://www.fisheriesireland.ie/
Duchas and Dept. of Arts, Heritage, Regional, Rural and Gaeltacht Affairs	Duchas = heritage Gaeltacht = Gaelic speaking - word used to denote regions in Ireland with many Irish speakers	http://www.ahrrga.gov.ie/en/
National Heritage Council		http://www.heritagecouncil.ie/home/
Sustainable Energy Authority Ireland (SEAI)		http://www.seai.ie/
Coillte Forest	Coillte = Forests/Woods	http://www.coillte.ie/coillteforest/
Coillte Panel Products	Coillte = Forests/Woods	http://www.coillte.ie/medite_smartply/
Coillte Enterprise (Wind Energy Projects)	Coillte = Forests/Woods	http://www.coillte.ie/coillteenterprise/
Council for Forest Research and Development (COFORD)		http://www.coford.ie/
Teagasc	Teagasc = instruction	https://www.teagasc.ie/crops/forestry/

Appendix 11. Market actors in Ireland (national level)

Name	English translation of Irish words	Website
Forest Management		
Coillte Forest	Coillte = Forests/Woods	http://www.coillte.ie/coillteforest/
Irish Timber Growers' Association (ITGA)		http://www.itga.ie/
Irish Forestry and Forest Products Association (IFFPA)		http://www.iffpa.ie/Sectors/IFFPA/IFFPA.nsf/vPages/Home?OpenDocument
Irish Farmers' Association (IFA)		http://www.ifa.ie/sectors/forestry/
Private Forest owners		
Association of Irish Forestry Consultants		http://www.aifc.ie/
Veon Ltd.		http://www.veon.ie/
Commercial Forestry Services Ltd.		http://www.forests.ie/index.htm
Green Belt		http://www.greenbelt.ie/
ProSilva Ireland		https://prosilvaireland.wordpress.com/
Wood processing sector		
Coillte Panel Products	Coillte = Forests/Woods	http://www.coillte.ie/medite_smartply/
Irish Forestry and Forest Products Association (IFFPA)		http://www.iffpa.ie/Sectors/IFFPA/IFFPA.nsf/vPages/Home?OpenDocument
Wood Marketing Federation		http://www.wood.ie/



Irish Timber Council		
Masonite Ireland		http://www.masonite.com/
Balcas Ltd		https://www.balcas.com/
ECC Timber Products Ltd.		http://www.ecc.ie/
Glennon Brothers Ltd.		http://www.glennonbrothers.ie/
Grainer Sawmills Ltd.		http://gpwood.ie/
Murray Timber Group Ltd.		http://www.mtg.ie/
Coolrain Sawmills Ltd.		http://www.gardenliving.ie/
Laois Sawmill Ltd.		http://www.laoissawmills.com/
Medium Palfab Ltd.		http://www.palfab.com/
Woodfab Timber Ltd.		http://www.woodfabtimber.ie/
Wind farm development		
Coillte Enterprise (Wind Energy Projects)	Coillte = Forests/Woods	http://www.coillte.ie/coillteenterprise/
Irish Wind Energy Association (IWEA)		http://www.iwea.com/
Scottish and Southern Energy (SSE)		http://sse.com/

Appendix 12. Civil society actors in Ireland (national level)

Name	English translation of Irish words	Website
Nature and environment protection		
An Taisce - The National Trust for Ireland	An Taisce = The treasure	http://www.antaisce.org/
Irish Peatland Conservation Council (IPCC)		http://www.ipcc.ie/
Crann	Crann = Tree	https://crann.ie/
Woodlands of Ireland		http://www.woodlandsofireland.com/
Tree Council of Ireland		http://treecouncil.ie/
Environmental Pillar		http://environmentalpillar.ie/
Recreation		
Mountaineering Ireland		http://www.mountaineering.ie/
Angling Council Ireland		http://www.anglingcouncil.ie/
National Association of Regional Game Councils		http://nargc.ie/

Appendix 13. Interest in different ecosystem services (national level)

Interest in	Identified Stakeholder (Organizations)
Provisioning services	
Wood	<ul style="list-style-type: none"> • Forest Service • Council for Forest Research and Development (COFORD) • Teagasc • Coillte Forest • Irish Timber Growers' Association (ITGA) • Irish Forestry and Forest Products Association (IFFPA) • Irish Farmers' Association (IFA) • Private Forest owners • Association of Irish Forestry Consultants • Veon Ltd. • Commercial Forestry Services Ltd. • Green Belt • ProSilva Ireland

	<ul style="list-style-type: none"> • Coillte Panel Products • Irish Forestry and Forest Products Association (IFFPA) • Wood Marketing Federation • Irish Timber Council • Masonite Ireland • Balcas Ltd • ECC Timber Products Ltd. • Glennon Brothers Ltd. • Grainer Sawmills Ltd. • Murray Timber Group Ltd. • Coolrain Sawmills Ltd. • Laois Sawmill Ltd. • Medium Palfab Ltd. • Woodfab Timber Ltd.
Mushrooms	-
Berries	-
Game	<ul style="list-style-type: none"> • National Association of Regional Game Councils
Medical plants	-
Other(s)	-
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • National Park and Wildlife Services (NPWS) • Inland fisheries • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC) • Crann • Woodlands of Ireland • Tree Council of Ireland • Environmental Pillar
Habitat for species	<ul style="list-style-type: none"> • National Park and Wildlife Services (NPWS) • Inland fisheries • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC) • Crann • Woodlands of Ireland • Tree Council of Ireland • Environmental Pillar • Angling Council Ireland
Other(s)	-
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Forest Service • Coillte Forestry • Environmental Protection Agency • Irish Peatland Conservation Council (IPCC) • An Taisce - The National Trust for Ireland • Environmental Pillar



Climate regulation	<ul style="list-style-type: none"> • Forest Service • Coillte Forest • Coillte Enterprise • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC) • Environmental Pillar
Water quality	<ul style="list-style-type: none"> • Inland Fisheries • Environmental Protection Agency • Angling Council Ireland
Pest control	<ul style="list-style-type: none"> • Forest Service • National Park and Wildlife Services (NPWS) • Inland fisheries • Coillte Forest • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC) • Environmental Pillar
Other(s)	-
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Mountaineering Ireland • Angling Association Ireland • National Association of Regional Game Councils • Tree Council of Ireland
Aesthetic values	<ul style="list-style-type: none"> • Forest Service • Mountaineering Ireland • Angling Association Ireland • National Association of Regional Game Councils • An Taisce
Tourism	-
Other(s)	-

Appendix 14. Governmental actors in the barony of Moycullen

Name	English translation of Irish words	Website
Forest Service		https://www.agriculture.gov.ie/for-estservice/
National Park and Wildlife Services (NPWS)		https://www.npws.ie/
Environmental Protection Agency (EPA)		http://www.epa.ie/
Inland fisheries		http://www.fisheriesireland.ie/
Duchas and Dept. of Arts, Heritage, Regional, Rural and Gaeltacht Affairs	Duchas = heritage Gaeltacht = Gaelic speaking - word used to denote regions in Ireland with many Irish speakers	http://www.ahrrga.gov.ie/en/
Coillte Forest	Coillte = Forests/Woods	http://www.coillte.ie/coillteforest/
Coillte Panel Products	Coillte = Forests/Woods	http://www.coillte.ie/medite_smartply/
Coillte Enterprise (Wind Energy Projects)	Coillte = Forests/Woods	http://www.coillte.ie/coillteenterprise/



Teagasc	Teagasc = instruction	https://www.teagasc.ie/crops/forestry/
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Appendix 15. Market actors in the barony of Moycullen (case study level)

Name	English translation of Irish words	Website
Forest Management		
Coillte Forest	Coillte = Forests/Woods	http://www.coillte.ie/coillteforest/
Irish Farmers' Association (IFA)		http://www.ifa.ie/sectors/forestry/
Private Forest owners		
Wood processing sector		
Coillte Panel Products	Coillte = Forests/Woods	http://www.coillte.ie/medite_smartply/
ECC Timber Products Ltd.		http://www.ecc.ie/
Wind farm development		
Coillte Enterprise (Wind Energy Projects)	Coillte = Forests/Woods	http://www.coillte.ie/coillteenterprise/
Scottish and Southern Energy (SSE)		http://sse.com/

Appendix 16. Civil society actors in the barony of Moycullen (case study level)

Name	English translation of Irish words	Website
Nature and environment protection		
An Taisce - The National Trust for Ireland	An Taisce = The treasure	http://www.antaisce.org/
Irish Peatland Conservation Council (IPCC)		http://www.ipcc.ie/
Recreation		
Mountaineering Ireland		http://www.mountaineering.ie/
Oughterard Anglers and Boatmen's Association	Oughterard is a place name	http://www.oughterardanglers.com/

Appendix 17. Interest in different ecosystem services (CSA Ireland)

Interest in	Identified Stakeholder (Organizations)
Provisioning services	
Wood	<ul style="list-style-type: none"> • Forest Service • Teagasc • Coillte Forest • Irish Farmers' Association (IFA) • Private Forest owners • Coillte Panel Products • ECC Timber Products Ltd.
Mushrooms	-
Berries	-
Game	-
Medical plants	-
Other(s)	-
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • National Park and Wildlife Services (NPWS) • Inland fisheries • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC)
Habitat for species	<ul style="list-style-type: none"> • National Park and Wildlife Services (NPWS) • Inland fisheries • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC) • Oughterard Anglers and Boatmen's Association
Other(s)	-
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Forest Service • Coillte Forestry • Environmental Protection Agency • Irish Peatland Conservation Council (IPCC) • An Taisce - The National Trust for Ireland
Climate regulation	<ul style="list-style-type: none"> • Forest Service • Coillte Forest • Coillte Enterprise • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC)

Water quality	<ul style="list-style-type: none"> • Inland Fisheries • Environmental Protection Agency • Oughterard Anglers and Boatmen's Association
Pest control	<ul style="list-style-type: none"> • Forest Service • National Park and Wildlife Services (NPWS) • Inland fisheries • Coillte Forest • An Taisce - The National Trust for Ireland • Irish Peatland Conservation Council (IPCC)
Other(s)	-
<i>Cultural services</i>	
Outdoor recreation	<ul style="list-style-type: none"> • Mountaineering Ireland • Oughterard Anglers and Boatmen's Association
Aesthetic values	<ul style="list-style-type: none"> • Forest Service • Mountaineering Ireland • Oughterard Anglers and Boatmen's Association • An Taisce
Tourism	-
Other(s)	-

Appendix 18: Non-public actors in Italian forest politics (national level)

Identified Actor (Organizations) [in country language]	Identified Actor (Organizations) [English translation]	Website
Private		
Forest owners		
<ul style="list-style-type: none"> Private owners: No national-wide association Multiple private owners (farms, companies, individuals, etc.): extreme fragmentation and lack of representativity 	<ul style="list-style-type: none"> Private owners: No national-wide association 	
<i>Farmer associations</i>		
<ul style="list-style-type: none"> Coldiretti Confederazione Italiana Agricoltori (CIA) Confagricoltura 	<ul style="list-style-type: none"> Direct Farmer Association Italian Farmer Confederation Agriculture Confederation 	<ul style="list-style-type: none"> www.coldiretti.it www.cia.it www.confagricoltura.it
Forest enterprises and their associations		
<ul style="list-style-type: none"> Alleanza delle Cooperative Italiane – Settore Agroalimentare Coordinamento Nazionale Imprese Boschive (Conaibo) 	<ul style="list-style-type: none"> Alliance of Agro and Agro-food Cooperatives National Forest Enterprise Consortium 	<ul style="list-style-type: none"> www.alleanzacooperative.it/acroalimentare
Timber/Paper trade and processing (including bioenergy)		
<ul style="list-style-type: none"> Federazione Italiana delle Industrie del Legno, del Sughero, del Mobile e dell'Arredamento (Federlegno) Confederazione Nazionale dell'Artigianato e della Piccola e Media Impresa (CNA) Associazione Italiana delle Industrie della Carta, Cartoni e Paste per Carta (Assocarta) Federazione Italiana Produttori di Energia da Fonti Rinnovabili (Fiper) 	<ul style="list-style-type: none"> Italian Federation of wood, cork and furniture industries National Confederation of Handicraft and Small-Medium Enterprises Italian Federation of pulp, paper and paperboard industries Italian Renewable Energy Producer Federation 	<ul style="list-style-type: none"> www.federlegno.it www.cna.it www.assocarta.it www.fiper.it
Chartered Agronomists and Foresters		
<ul style="list-style-type: none"> Consiglio dell'Ordine Nazionale dei Dottori Agronomi e Dottori Forestali (CONAF) 	<ul style="list-style-type: none"> National Association of Chartered Agronomists and Foresters 	<ul style="list-style-type: none"> www.conaf.it
Civil Society actors		
Employment in forests		

<ul style="list-style-type: none"> Federazione Italiana Lavoratori Costruzioni e Affini (Filca-Cisl) Federazione Nazionale Lavoratori Edili, affini e del legno (Feneal-Uil) 	<ul style="list-style-type: none"> Italian Federation of the Building and Construction Sector Workers National Federation of Construction and Wood Workers 	<ul style="list-style-type: none"> www.filcacisl.it www.fenealuil.it
<p>Sustainable biomass use</p>		
<ul style="list-style-type: none"> Associazione Italiana Energie Agroforestali (AIEL) 	<ul style="list-style-type: none"> Italian Agroforestry Energy Association 	<ul style="list-style-type: none"> www.aiel.cia.it
<p>Hunting</p>		
<ul style="list-style-type: none"> Federazione Italiana della Caccia (Federaccia) 	<ul style="list-style-type: none"> Italian Hunting Association 	<ul style="list-style-type: none"> www.federaccia.org
<p>Certification</p>		
<ul style="list-style-type: none"> FSC Italia (Associazione Italiana per la Gestione Forestale Responsabile) PEFC Italia 	<ul style="list-style-type: none"> FSC Italy PEFC Italy 	<ul style="list-style-type: none"> https://it.fsc.org/it-it www.pefc.it
<p>Tourism and recreation</p>		
<ul style="list-style-type: none"> Federazione Italiana Escursionismo (FIE) Federazione Italiana Turismo Equestre e TREC Federazione Italiana Amici della Bicicletta (FIAB) Associazione Italiana Turismo Natura (AITN) Federazione Italiana Sport Orientamento (FISO) Associazione Montagnaterapia Italiana Onlus 	<ul style="list-style-type: none"> Italian hiking and outdoor Federation Italian Horse Tourism Federation Italian Bike Federation Italian Association for Nature Tourism Italian Orienteering Sport Federation Italian Mountain Therapy Association 	<ul style="list-style-type: none"> www.fie.org www.fitetrec-ante.it www.fiab-onlus.it www.aitn.org www.fiso.it www.amionlus.it
<p>Wild forest products (Truffle)</p>		
<ul style="list-style-type: none"> Associazione Nazionale Tartufai Italiani (ANTI) Federazione Nazionale delle Associazioni Tartufai Italiani (FNATI) Many regional/local mushroom, truffle, chestnut, wild herbs...associations 	<ul style="list-style-type: none"> Italian Truffle Picker Association National Federation of Italian Truffle Picker Associations Many regional/local mushroom, truffle, chestnut, wild herbs...associations 	<ul style="list-style-type: none"> www.assotartufai.it www.fnati.it
<p>Environmental, nature, and landscape conservation</p>		
<ul style="list-style-type: none"> WWF Greenpeace Legambiente Lega Italiana Protezione Uccelli (Lipu) Terra! Amici della Terra 	<ul style="list-style-type: none"> WWF Greenpeace Legambiente (Environment League) Italian Association for Bird Protection (Lipu) Terra! (Earth!) Friends of the Earth Italian Environment Fund 	<ul style="list-style-type: none"> www.wwf.it www.greenpeace.it www.legambiente.it www.lipu.it www.terraonlus.it www.amicidellaterra.it

<ul style="list-style-type: none"> Fondo Ambiente Italiano (FAI) 		<ul style="list-style-type: none"> www.fondoambiente.it
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Appendix 19: Public actors in Italian forest politics (national level)

<i>Original name</i>	<i>Name translated into English</i>	<i>Website</i>
<ul style="list-style-type: none"> Ministero delle Politiche Agricole, Alimentari e Forestali (Mipaaf) Ministero dell’Ambiente e della Tutela del Territorio e del Mare (Mattm) Ministero dei Beni Culturali Corpo Forestale dello Stato (CFS) Conferenza Stato Regioni Dipartimenti Forestali Regionali Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA) Consiglio per la Ricerca in Agricoltura (CREA) Università e altri enti di ricerca <p>Public forest owners and their associations (note: form a legal point of view these associations are private entities, however they represent interests of public bodies):</p> <ul style="list-style-type: none"> Associazione Nazionale (ANARF) Federazione Italiana Comunità Forestali (Federforeste) <p>Protected and Natural Areas:</p> <ul style="list-style-type: none"> Federparchi Europarc Italia 	<ul style="list-style-type: none"> Ministry of Agriculture, Forestry and Food Policies Ministry of Environment Ministry of Cultural Heritage State Forest Service State-Regions Conference Regional Forest Departments Italian National Institute for Environmental Protection and research National Research Council for Agriculture Universities and other research institutes <ul style="list-style-type: none"> National Association of Regional Forest Administration Italian Federation of Forest Communities and Municipalities <ul style="list-style-type: none"> Italian Federation of Parks and Natural Areas 	<ul style="list-style-type: none"> www.politicheagricole.it www.minambiente.it www.beniculturali.it www.isprambiente.gov.it www.crea.gov.it www.corpoforestale.it www.statoregioni.it <ul style="list-style-type: none"> www.anarf.org www.federforeste.it <ul style="list-style-type: none"> www.parks.it

Appendix 20: Interests in different ecosystem services (national level)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Ministry of Agriculture, Forestry and Food Policies • State Forest Service • Italian National Institute for Environmental Protection and research • National Research Council for Agriculture • Universities and other research institutes • National Association of Regional Forest Administration • Italian Federation of Forest Communities and Municipalities • Regional Forest Departments • Farmer Associations • Alliance of Agro and Agro-food Cooperatives • National Forest Enterprise Consortium • Italian Federation of wood, cork and furniture industries • National Confederation of Handicraft and Small-Medium Enterprises • Italian Federation of pulp, paper and paperboard industries • Italian Renewable Energy Producer Federation • National Association of Chartered Agronomists and Foresters • Italian Federation of the Building and Construction Sector Workers • National Federation of Construction and Wood Workers • Italian Agroforestry Energy Association • FSC Italy • PEFC Italy • WWF • Greenpeace • Legambiente • Terra! • Friends of the Earth
Wild forest products	<ul style="list-style-type: none"> • Ministry of Environment • State Forest Service • Regional Forest Departments • Italian National Institute for Environmental Protection and research • Universities and other research institutes • Italian Federation of Parks and Natural Areas (Federparchi Europarc Italia) • Farmer Associations • National Association of Chartered Agronomists and Foresters • FSC Italy • PEFC Italy • WWF • Legambiente • Italian Truffle Picker Association • National Federation of Italian Truffle Picker Associations
Game	<ul style="list-style-type: none"> • Italian Hunting Association
Supporting services	

Biodiversity	<ul style="list-style-type: none"> • Ministry of Environment • State Forest Service • Regional Forest Departments • Italian National Institute for Environmental Protection and research • Universities and other research institutes • Italian Federation of Parks and Natural Areas (Federparchi Europarc Italia) • National Association of Chartered Agronomists and Foresters • FSC Italy • PEFC Italy • WWF • Legambiente • Italian Association for Bird Protection • Italian Environment Fund
Habitat for species	<ul style="list-style-type: none"> • Ministry of Environment • State Forest Service • Regional Forest Departments • Italian National Institute for Environmental Protection and research • Universities and other research institutes • Italian Federation of Parks and Natural Areas (Federparchi Europarc Italia) • National Association of Chartered Agronomists and Foresters • FSC Italy • PEFC Italy • WWF • Legambiente • Italian Association for Bird Protection • Italian Environment Fund
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Ministry of Environment • State Forest Service • Italian National Institute for Environmental Protection and research • National Research Council for Agriculture • Universities and other research institutes • National Association of Regional Forest Administration • Italian Federation of Forest Communities and Municipalities • Legambiente • FSC Italy • PEFC Italy • Carbon credit brokers/traders
Water quality	<ul style="list-style-type: none"> • Ministry of Environment • Regional Forest Departments • Italian National Institute for Environmental Protection and research • Universities and other research institutes • FSC Italy • Legambiente
Hydrogeological protection	<ul style="list-style-type: none"> • Ministry of Environment • State Forest Service • Italian National Institute for Environmental Protection and research
Cultural services	

Outdoor recreation	<ul style="list-style-type: none"> • Italian hiking and outdoor Federation • Italian Horse Tourism Federation • Italian Bike Federation • Italian Association for Nature Tourism • Italian Orienteering Sport Federation • Italian Sport Federation/Unions • Italian Mountain Therapy Association
Aesthetic values	<ul style="list-style-type: none"> • Ministry of Cultural Heritage • State Forest Service • WWF • Legambiente • Italian Environment Fund
Tourism	<ul style="list-style-type: none"> • Italian Association for Nature Tourism • Italian Tourism Federation

Appendix 21: Non-public actors in the case study (CSA Veneto)

Identified Actor (Organizations) [in country language]	Identified Actor (Organizations) [English translation]	Website
Private		
<p>Forest owners</p> <p>Several farmers (as well as companies and individuals) owning forest areas</p> <p><i>Farmer associations</i></p> <ul style="list-style-type: none"> • Coldiretti Veneto e Venezia • Confederazione Italiana Agricoltori (CIA) Veneto e Venezia • Confagricoltura Veneto e Venezia <p>Forest enterprises</p> <p>Several ones, among them:</p> <ul style="list-style-type: none"> • Waldplus • De Luca • Il Bozzolo Verde • Valorizzazione Biomasse snc <p>Wood/Firewood trade companies</p> <p>Several ones, among them:</p> <ul style="list-style-type: none"> • Bozza Cav. Rainieri 	<ul style="list-style-type: none"> • Direct Farmer Association - Veneto and Venice offices • Italian Farmer Confederation -Veneto and Venice offices • Agriculture Confederation - Veneto and Venice offices <p>Several ones, among them:</p> <ul style="list-style-type: none"> • Waldplus • De Luca • Il Bozzolo Verde • Valorizzazione Biomasse snc <p>Several ones, among them:</p> <ul style="list-style-type: none"> • Bozza Cav. Rainieri • Bortolato 	<ul style="list-style-type: none"> • www.venetocoldiretti.it • www.veneziacoldiretti.it • www.ciaveneto.it • www.ciavenezia.it • www.confagricolturaveneto.it • www.confagricolturave.it <ul style="list-style-type: none"> • www.waldplus.it • www.deluca-woodenergy.it • www.ilbozzoloverde.it • www.woodvab.it <ul style="list-style-type: none"> • www.bozzacavrainieri.it • www.bortolato.eu

<ul style="list-style-type: none"> • Bortolato • FB Calor Srl <p>Chartered Agronomists and Foresters</p> <ul style="list-style-type: none"> • Ordine Provinciale dei Dottori Agronomi e Dottori Forestali (Venezia) <p>Other companies (sponsorship, C-offsetting)</p> <p>Several ones, including retailers, companies operating in the energy sector, mineral water companies etc.</p> <p>Among them a national-wide carbon project broker looking for areas for afforestation/reforestation initiatives:</p> <ul style="list-style-type: none"> • Azzeroco2 <p>Hotels and camping-sites</p> <ul style="list-style-type: none"> • Associazione Albergatori Bibionesi • Associazione Albergatori Caorle • Associazione Albergatori Eraclea • Associazione Albergatori Venezia • Camping Santa Margherita (Caorle) • Several hotel managers 	<ul style="list-style-type: none"> • FB Calor Srl <p>Province Association of Chartered Agronomists and Foresters (Venice)</p> <p>Several ones, including retailers, companies operating in the energy sector, mineral water companies etc.</p> <p>Among them a national-wide carbon project broker looking for areas for afforestation/reforestation initiatives:</p> <ul style="list-style-type: none"> • Azzeroco2 <ul style="list-style-type: none"> • Bibione Hotel Association • Caorle Hotel Association • Eraclea Hotel Association • Venice Hotel Association • Santa Margherita Camping (Caorle) • Several hotel managers 	<ul style="list-style-type: none"> • www.fbcalor.com • www.agronomiforestalivenezia.it • www.azzeroco2.it • www.bibionehotels.it • www.caorlehotel.com • www.hotel-association.com/eraclea-mare.htm • www.caorlecamping.it
Civil Society actors		
<p>Hunting</p> <ul style="list-style-type: none"> • Associazione Cacciatori Veneti • Federazione Italiana della Caccia (Federaccia) - Veneto <p>Tourism and recreation</p> <ul style="list-style-type: none"> • Federazione Italiana Escursionismo (FIE) - Veneto • Federazione Italiana Turismo Equestre e TREC - Veneto • Federazione Italiana Amici della Bicicletta (FIAB) - Mestre (Venice) • Federazione Italiana Sport Orientamento (FISO) - Veneto • Nordic Walking Lignano • ASD Maratoneti Eraclea • ASD Ambiente e Salute – Nordic Walking Eraclea • Associazione Vivilabici <p>Wild forest products</p>	<ul style="list-style-type: none"> • Veneto Hunting Association • Italian Hunting Association – Veneto office • Italian hiking and outdoor Federation - Veneto office • Italian Horse Tourism Federation - Veneto office • Italian Bike Federation - Mestre (Venice) office • Italian Orienteering Sport Federation - Veneto office • Nordic Walking Lignano • Non Professional Marathon runner Association • Environment and Health - Nordic Walking • Live bike Association • Friuli Venezia Giulia Truffle Picker Association 	<ul style="list-style-type: none"> • www.associazionecacciatoriveneti.it • www.federaccia.org • www.fieveneto.it • www.veneto.fitetrec-ante.it • www.fiabmestre.it • www.fisoveneto.it • www.nordicwalkinglignano.it • https://facebook.com/Maratoneti-Eraclea-120249241326874/ • www.nordicwalkingeraclea.alterfor.it • www.vivilabici.it • www.lnxtartufaiavg.it

<ul style="list-style-type: none"> • Associazione Tartufai Friuli Venezia Giulia • Gruppo Amici Micologi Mirano • Gruppo Micologico Culturale Sandonatese • Società Veneziana di Micologia <p>Environmental, nature, and landscape conservation</p> <ul style="list-style-type: none"> • WWF Veneto Orientale • Legambiente Veneto Orientale • Lega Italiana Protezione Uccelli (Lipu) - Venezia • Associazione Naturalistica Sandonatese • Associazione Culturale Naturalistica Sagittaria • Associazione Tegliese Prati delle Pars • Centro di Educazione Ambientale di Eraclea • Associazione Verdi Acque • Associazione Naturalistica Bosco di San Stino 	<ul style="list-style-type: none"> • Mirano Mycologist Friends Group • Sandonatese Mycologist Cultural Group • Venice Mycology Society <ul style="list-style-type: none"> • WWF Eastern Veneto • Legambiente Eastern Veneto • Italian Association for Bird Protection - Venice office • San Dona Nature Association • Concordia Sagittaria Nature Association • Pars Meadows Association • Eraclea Environmental Education Centre • Verdi Acque Association • Bosco di San Stino Nature Association 	<ul style="list-style-type: none"> • www.https://m.facebook.com/micologia.sandonatese/?locale2=it_IT <ul style="list-style-type: none"> • digilander.libero.it/wwfvenetoorientale/associazione/ • www.legambientevenetoorientale.it • www.lipuvenezia.it • www.associazionenaturalistica.it • www.associazionesagittaria.it • www.pratidellepars.it • verdiacque.tumblr.com • www.boscodisanstino.ilbello.com
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Appendix 22: Public actors in the case study (CSA Veneto)

Original name	Name translated into English	Website
<ul style="list-style-type: none"> • Regione Veneto, Direzione AdG FEASR Parchi e Foreste • Regione Veneto, Direzione Turismo, Sezione Economia e Sviluppo montano • Regione Veneto, Dipartimento Agricoltura, Sezione Parchi biodiversità programmazione silvopastorale e tutela dei consumatori • Regione Veneto, Dipartimento Difesa del suolo e Foreste • Regione Veneto, Dipartimento Ambiente, Sezione Tutela Ambiente • Servizi Forestali Veneto • Agenzia Veneta per i Pagamenti in Agricoltura (AVEPA) • Veneto Agricoltura • Uffici locali Informazioni e Accoglienza Turistica (IAT) 	<ul style="list-style-type: none"> • Veneto Region, Department of Rural Development, Parks and Forests • Veneto Region, Department of Tourism, Economy and mountain development Unit • Veneto Region, Department of Agriculture, Park and biodiversity Unit • Veneto Region, Department of Soil protection and Forests • Veneto Region, Department of Environment, Environment Protection Unit • Regional Forest Service • Regional Authority in charge of managing Rural Development and Agriculture Payments (AVEPA) • Regional Agency for technical extension and assistance in Agriculture (Veneto Agricoltura) 	<ul style="list-style-type: none"> • www.regioneveneto.it/web/guest/direzione-adg-feasr-parchi-e-foreste • www.regioneveneto.it/web/guest/sezione-economia-e-sviluppo-montano • www.regioneveneto.it/web/guest/sezione-parchi-biodiversita-programmazione-silvopastorale-e-tutela-dei-consumatori • www.regioneveneto.it/web/guest/dipartimento-del-suolo-e-foreste • www.regioneveneto.it/web/guest/sezione-tutela-ambiente • www.regioneveneto.it/web/agricoltura-e-foreste/servizi-forestali • www.avepa.it • www.venetoagricoltura.org • www.altinumwelcomecard.it



<p>Public forest owners:</p> <ul style="list-style-type: none"> • Provincia di Venezia • Comune di Quarto d'Altino • Ente Parco Regionale del fiume Sile • Comune di San Donà di Piave • Comune di Torre di Mosto • Comune di Concordia Sagittaria • Comune di Eraclea • Comune di San Stino di Livenza • Comune di San Michele al Tagliamento • Comune di Caorle <p>The formers are coordinated by the:</p> <ul style="list-style-type: none"> • Associazione Forestale di Pianura (AFP) [<i>note: AFP is not a forest owner itself. From a legal point of view it is a stand-alone body operating as an association of lowland forest owners</i>] 	<ul style="list-style-type: none"> • Local Tourism Information and Welcome offices • Venice Province • Quarto d'Altino Municipality • Sile River Regional Park • San Donà di Piave Municipality • Torre di Mosto Municipality • Concordia Sagittaria Municipality • Eraclea Municipality • San Stino di Livenza Municipality • San Michele al Tagliamento Municipality • Caorle Municipality <p>The formers are coordinated by the:</p> <ul style="list-style-type: none"> • Lowland Forest Association (AFP) 	<ul style="list-style-type: none"> • www.visitcaorle.com • www.cavallino.info • www.provincia.venezia.it • www.comune.quartodaltino.ve.it • www.parcosile.it • www.sandonadipiave.net • www.torredimosto.it • www.comune.concordiasagittaria.ve.it • www.comune.eraclea.ve.it • www.sanstino.it • www.comunesanmichele.it • www.comune.caorle.ve.it • www.afvo.it
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Appendix 23: Interests in different ecosystem services (CSA Veneto)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	

Wood	<ul style="list-style-type: none"> • Veneto Region, Department of Rural Development, Parks and Forests • Veneto Region, Department of Agriculture, Park and biodiversity Unit • Veneto Region, Department of Environment, Environment Protection Unit (→ focus on bioenergy) • Regional Forest Service • Regional Authority in charge of managing Rural Development Payments (AVEPA) • Regional Agency for technical extension and assistance in Agriculture (Veneto Agricoltura) • Private forest owners • Farmer Associations • Lowland Forest Association (AFP) • Public owners (AFP members): • Venice Province • Quarto d'Altino Municipality • Sile River Regional Park • San Donà di Piave Municipality • Torre di Mosto Municipality • Concordia Sagittaria Municipality • Eraclea Municipality • San Stino di Livenza Municipality • San Michele al Tagliamento Municipality • Caorle Municipality • (Local) Forest enterprises • Wood/Firewood trade companies • Chartered Agronomists and Foresters • Other companies/Investors
Wild forest products	<p>Veneto Region, Department of Rural Development, Parks and Forests Veneto Region, Department of Tourism, Economy and mountain development Unit Regional Forest Service Regional Authority in charge of managing Rural Development Payments (AVEPA) Regional Agency for technical extension and assistance in Agriculture (Veneto Agricoltura) Private forest owners Farmer Associations Lowland Forest Association (AFP) Public owners (AFP members): Venice Province Quarto d'Altino Municipality Sile River Regional Park San Donà di Piave Municipality Torre di Mosto Municipality Concordia Sagittaria Municipality Eraclea Municipality San Stino di Livenza Municipality San Michele al Tagliamento Municipality Caorle Municipality (Local) Forest enterprises Other companies/Investors Friuli Venezia Giulia Truffle Picker Association Mirano Mycologist Friends Group Sandonatense Mycologist Cultural Group Venice Mycology Society</p>
Game	<ul style="list-style-type: none"> • Venetian Hunting Association • Italian Hunting Association – Veneto office • Other companies/Investors

	<ul style="list-style-type: none"> Private forest owners
Supporting services	
Biodiversity	<p>Veneto Region, Department of Agriculture, Park and biodiversity Unit State Forest Service Regional Authority in charge of managing Rural Development Payments (AVEPA) Regional Agency for technical extension and assistance in Agriculture (Veneto Agricoltura) Lowland Forest Association (AFP) Public owners (AFP members): Venice Province Quarto d'Altino Municipality Sile River Regional Park San Donà di Piave Municipality Torre di Mosto Municipality Concordia Sagittaria Municipality Eraclea Municipality San Stino di Livenza Municipality San Michele al Tagliamento Municipality Caorle Municipality Other companies/Investors WWF Eastern Veneto Legambiente Eastern Veneto Italian Association for Bird Protection - Venice office San Dona Nature Association Concordia Sagittaria Nature Association Pars Meadows Association Eraclea Environmental Education Centre Associazione Verdi Acque Associazione Naturalistica Bosco di San Stino Tourists Local population</p>
Habitat for species	<p>Veneto Region, Department of Agriculture, Park and biodiversity Unit State Forest Service Regional Authority in charge of managing Rural Development Payments (AVEPA) Regional Agency for technical extension and assistance in Agriculture (Veneto Agricoltura) Lowland Forest Association (AFP) Public owners (AFP members): Venice Province Quarto d'Altino Municipality Sile River Regional Park San Donà di Piave Municipality Torre di Mosto Municipality Concordia Sagittaria Municipality Eraclea Municipality San Stino di Livenza Municipality San Michele al Tagliamento Municipality Caorle Municipality Other companies/Investors WWF Eastern Veneto Legambiente Eastern Veneto Italian Association for Bird Protection - Venice office San Dona Nature Association Concordia Sagittaria Nature Association</p>

	<p>Pars Meadows Association Eraclea Environmental Education Centre</p> <ul style="list-style-type: none"> • Verdi Acque Association <p>Bosco di San Stino Nature Association Tourists Local population</p>
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Veneto Region, Department of Rural Development, Parks and Forests • Veneto Region, Department of Environment, Environment Protection Unit • Regional Agency for technical extension and assistance in Agriculture (Veneto Agricoltura) • Private forest owners • Farmer Associations • Lowland Forest Association (AFP) • Public owners (AFP members): <ul style="list-style-type: none"> • Venice Province • Quarto d'Altino Municipality • Sile River Regional Park • San Donà di Piave Municipality • Torre di Mosto Municipality • Concordia Sagittaria Municipality • Eraclea Municipality • San Stino di Livenza Municipality • San Michele al Tagliamento Municipality • Caorle Municipality • Other companies/Investors • WWF Eastern Veneto • Legambiente Eastern Veneto • Tourists • Local population
Water quality	<p>Veneto Region, Department of Rural Development, Parks and Forests Veneto Region, Department of Environment, Environment Protection Unit Veneto Region, Department of Soil protection and Forests Regional Agency for technical extension and assistance in Agriculture (Veneto Agricoltura) Private forest owners Farmer Associations Lowland Forest Association (AFP) Public owners (AFP members): Venice Province Quarto d'Altino Municipality Sile River Regional Park San Donà di Piave Municipality Torre di Mosto Municipality Concordia Sagittaria Municipality Eraclea Municipality San Stino di Livenza Municipality San Michele al Tagliamento Municipality Caorle Municipality Other companies/Investors Tourists Local population</p>

Hydrogeological protection	<ul style="list-style-type: none"> • Veneto Region, Department of Soil protection and Forests • Regional Forest Service • Lowland Forest Association (AFP) • Public owners (AFP members): <ul style="list-style-type: none"> • Venice Province • Quarto d'Altino Municipality • Sile River Regional Park • San Donà di Piave Municipality • Torre di Mosto Municipality • Concordia Sagittaria Municipality • Eraclea Municipality • San Stino di Livenza Municipality • San Michele al Tagliamento Municipality • Caorle Municipality • Local population
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Veneto Region, Department of Tourism, Economy and mountain development Unit • Italian hiking and outdoor Federation - Veneto office • Italian Horse Tourism Federation - Veneto office • Italian Bike Federation - Mestre (Venice) office • Italian Orienteering Sport Federation - Veneto office • Nordic Walking Lignano • Non Professional Marathon runner Association • Environment and Health - Nordic Walking • Live bike Association • Local population • Other companies/investors • Lowland Forest Association (AFP) • Public owners (AFP members): <ul style="list-style-type: none"> • Venice Province • Quarto d'Altino Municipality • Sile River Regional Park • San Donà di Piave Municipality • Torre di Mosto Municipality • Concordia Sagittaria Municipality • Eraclea Municipality • San Stino di Livenza Municipality • San Michele al Tagliamento Municipality • Caorle Municipality
Aesthetic values	<ul style="list-style-type: none"> • Veneto Region, Department of Tourism, Economy and mountain development Unit • Regional Forest Service • WWF Eastern Veneto • Legambiente Eastern Veneto • San Dona Nature Association • Concordia Sagittaria Nature Association • Verdi Acque Association • Lowland Forest Association (AFP) • Public owners (AFP members): <ul style="list-style-type: none"> • Venice Province • Quarto d'Altino Municipality • Sile River Regional Park • San Donà di Piave Municipality

	<ul style="list-style-type: none"> • Torre di Mosto Municipality • Concordia Sagittaria Municipality • Eraclea Municipality • San Stino di Livenza Municipality • San Michele al Tagliamento Municipality • Caorle Municipality
<p>Tourism</p>	<p>Veneto Region, Department of Tourism, Economy and mountain development Unit</p> <p>Local Tourism Information and Welcome Offices</p> <p>Bibione Hotel Association</p> <p>Caorle Hotel Association</p> <p>Eraclea Hotel Association</p> <p>Venice Hotel Association</p> <p>Santa Margherita Camping (Caorle)</p> <p>Verdi Acque Association</p> <p>Tourists</p> <p>Lowland Forest Association (AFP)</p> <p>Public owners (AFP members):</p> <p>Venice Province</p> <p>Quarto d'Altino Municipality</p> <p>Sile River Regional Park</p> <p>San Donà di Piave Municipality</p> <p>Torre di Mosto Municipality</p> <p>Concordia Sagittaria Municipality</p> <p>Eraclea Municipality</p> <p>San Stino di Livenza Municipality</p> <p>San Michele al Tagliamento Municipality</p> <p>Caorle Municipality</p>

Appendix 24: Market and civil society actors in Lithuanian forest politics (national level)

Identified Actor (Organizations) [in country language]	Identified Actor (Organizations) [English translation]	Website
Market actors		
Forest management		
State forest management		
Generalinė miškų urėdija	Directorate general of state forests	http://www.gmu.lt/en/
Miškotvarkos mokslinė techninė taryba	Scientific and technical council for forest management planning	
VĮ Valstybinis miškotvarkos institutas	SC State forest inventory and management planning institute	http://www.lvmi.lt/
42 miškų urėdijų administracijos	Administrations of 42 State forest enterprises	
4 nacionalinių parkų direkcijos	Directions of 4 national parks	
30 regioninių parkų direkcijos	Directions of 30 regional parks	
Private forest management		
Lietuvos miško savininkų asociacija	Forest owner association of Lithuania	https://forest.lt/
Privačių miškų savininkų asociacija	Association of private forest owners	http://www.pmsa.lt/
Ikea	Ikea	http://www.ikea.com/lt/lt/
UAB Greengold Management	JSC Greengold Management	http://www.greengold.se
Euroforest	Euroforest	http://www.euroforest.se
UAB "TIMBEX"	JSC "TIMBEX"	http://www.timbex.lt
UAB Džukijos mediena	JSC Džukijos mediena	http://www.dzukijosmediena.lt/
UAB Džukijos miškas	JSC Džukijos miškas	http://www.dzukijosmiskas.lt/
UAB Bangenės miškas	JSC Bangenės miškas	http://www.bangenesmiskas.lt/
UAB HD Forest	JSC HD Forest	http://www.hdforest.lt/
Timber trade and processing		
Asociacija "Lietuvos mediena"	Association "Lithuanian wood"	http://www.lietuvosmediena.lt/
Lietuvos nepriklausomų medienos matuotojų asociacija	Lithuanian association of impartial timber scalers	http://lnmma.lt/
UAB "KLAIPĖDOS MEDIENA"	JSC "KLAIPĖDOS MEDIENA"	http://www.klaipedos.mediena.lt/en/index.html
UAB "STORA ENSO LIETUVA"	JSC "STORA ENSO LIETUVA"	http://storaensomiskas.lt/
UAB "LIKMERĖ"	JSC "LIKMERĖ"	http://www.likmere.lt/
UAB "SVEASKOG BALTFOR"	JSC "SVEASKOG BALTFOR"	
UAB „GKF“	JSC „GKF“	http://www.gkf.lt
UAB MMC forest	JSC MMC forest	http://www.mmc.lt/
Šilalės mediena	Šilalės mediena (šilalė wood)	http://www.silalesmediena.eu/
UAB Renostera	JSC Renostera	http://www.renostera.lt/
UAB Laurama	JSC Laurama	http://laurama.medis.lt/
UAB Litforina	JSC Litforina	http://www.litforina.lt
Water provision		
Lietuvos vandens tiekėjų asociacija	Lithuanian association of water providers	http://www.lvta.lt/
Biomass for energy		
Lietuvos biomasės energetikos asociacija LITBIOMA	Lithuanian Biomass Energy Association LITBIOMA	http://www.biokuras.lt
UAB „Klasmann-Deilmann Bioenergy“	JSC „Klasmann-Deilmann Bioenergy“	http://www.bioenergija.lt
Mushrooms and berries		
Lietuvos Miško Grybų ir Uogų Verslininkų Asociacija	Association of Lithuanian Entrepreneurs of Forest Mushrooms and Berries	-
UAB Fudo	JSC Fudo	http://www.fudo.lt/
Medical plants		

Lietuvos liaudies medicinos asociacija	Lithuanian folk medicine association	http://www.lma.lt/en/
UAB Švenčionių vaistažolės	JSC „Švenčionių vaistažolės“	http://www.etnoarbata.lt/en/about-us.html
Civil Society actors		
Employment in forests		
Lietuvos miškininkų sąjunga	Lithuanian foresters' union	http://www.misksajunga.lt/
Lietuvos miško ir miško pramonės darbuotojų profesinių sąjungų federacija	Federation of Lithuanian Forest and Wood Worker Trade Unions	http://www.lmpf.lt/
Lietuvos aplinkos apsaugos sistemos darbuotojų profesinė sąjunga	The trade union of nature protection workers of Lithuania	http://www.aplinkos-profsajunga.lt/
Recreation and tourism		
Lietuvos kaimo turizmo asociacija	Lithuanian association for rural tourism	http://www.atostogoskaime.lt/
Lietuvos turizmo asociacija	Lithuanian Tourism Association	http://www.ltas.lt/
Nacionalinė turizmo verslo asociacija	National Tourism Business Association	http://www.ntva.lt/lt/
Lietuvos turizmo informacijos centrų asociacija	Lithuanian tourism information centres association	www.ltica.lt
Lietuvos nacionalinė kelionių vadovų asociacija	Lithuanian national travel guides association	www.kiveda.lt
Lietuvos turizmo rūmai	Lithuanian tourism chamber	www.turizmorumai.lt
Hunting		
Lietuvos medžiotojų sąjunga Gamta	Lithuanian Hunter Union "Gamta" (Nature)	http://www.medziokles.lt/
Lietuvos medžiotojų ir žvejų draugija	Lithuanian hunter and fishermen association	http://www.lmzd.lt/
Lietuvos mėškeriojų sąjunga	Lithuanian fishermen association	www.meskeriojujasajunga.lt
Certification		
UAB NEPCon LT	JSC NEPCon LT	http://www.nepcon.org/
Environmental, nature, and landscape conservation		
Lietuvos entomologų draugija	Lithuanian Entomologist society	www.entomologai.lt
Lietuvos ornitologų draugija	Lithuanian Ornithologist society	www.birdlife.lt
Žaliųjų judėjimas	The Lithuanian Green Movement	http://www.zalieji.lt/
Baltijos aplinkos forumas	Baltic Environmental Forum	http://www.bef.lt/
Gamtos paveldo fondas	Lithuania Natural heritage fund	http://www.gpf.lt/
Lietuvos gamtos fondas	Lithuanian fund for nature	http://www.glis.lt/
Aplinkos apsaugos politikos centras	Center for environmental policy	www.aapc.lt
Bendrija „Atgaja“	Community "Atgaja"	www.atgaja.lt
Darnaus vystymo iniciatyvos	Sustainable Development Initiatives	www.dvi.lt
Gamtos apsaugos asociacija „Baltijos vilkas“	Nature protection organization "Baltijos vilkas" ("Baltic wolf")	www.vilkai.lt
Judėjimas „Už gamtą“	Movement "For the nature"	http://www.uzgamta.net/
Lietuvos dendrologų draugija	Lithuanian dendrologists society	www.dendrologai.lt
Science and education		
Aleksandro Stulginskio Universitetas	Aleksandras Stulginskis University	http://www.asu.lt/
LAMMC Miškų institutas	Lithuanian Research Centre for Agriculture and Forestry, Forest Research Institute	http://www.mi.lt/
Kauno Miškų ir Aplinkos Inžinerijos kolegija	Kaunas Forestry and Environmental Engineering college	http://www.kmaik.lt/
Gamtos tyrimų centras	Nature research centre	http://www.gamtostyrimai.lt/en/
Vytauto Didžiojo universitetas	Vytautas Magnus University	http://www.vdu.lt/en/
Kauno technologijos universitetas	Kaunas University of Technology	http://www.ktu.edu
Vilniaus universitetas	Vilnius University	http://www.vu.lt
Lietuvos edukologijos universitetas	Lithuanian University of Educational Sciences	http://www.leu.lt



Lietuvos sveikatos mokslų universitetas	Lithuanian University of Health Sciences	http://www.lsmuni.lt/
Mykolo Romerio universitetas	Mykolas Romeris University	https://www.mruni.eu/en/
Šiaulių universitetas	Šiauliai University	http://www.su.lt
Lietuvos energetikos institutas	Lithuanian Energy Institute	http://www.lei.lt/
Lietuvos agrarinės ekonomikos institutas	Lithuanian Institute of Agrarian Economics	http://www.laei.lt/
Other		
Lietuvos žemėtvarkos ir hidrotechnikos inžinierių sąjunga	Lithuanian union of land management and hydrotechnics engineers	http://lzhis.lt/
Lietuvos matininkų asociacija	The Lithuanian Association of Surveyors	http://www.matininkuasociacija.lt/
VŠĮ Lietuvos žemės ūkio konsultavimo tarnyba	Lithuanian Agriculture Advisory Service	http://www.lzukt.lt/
VĮ Valstybės žemės fondas	SC State land fund	http://www.vzf.lt/
UAB Aerogeodezijos institutas	JSC Institute of Aerial Geodesy	http://www.agi.lt/
AB „Lietuvos geležinkeliai“	SC Lithuanian Railways	http://www.litrail.lt/



Appendix 25: Governmental actors in forest politics (national level)

Original name	Name translated into English	Website
Aplinkos ministerija	Ministry of Environment	https://www.am.lt/
Valstybinė miškų tarnyba	Forest Department	http://www.amvmt.lt/
Valstybinė saugomųjų teritorijų tarnyba	State Service for Protected Areas	http://www.vstt.lt/
Lietuvos geologijos tarnyba	Lithuanian Geology Survey	https://www.lgt.lt/
Valstybinė teritorijų planavimo ir statybos inspekcija	State Territorial Planning and Construction Inspectorate under the Ministry of Environment	http://www.vtpsi.lt/
Aplinkos projektų valdymo agentūra	Environmental Project Management Agency	http://www.apva.lt/
Aplinkos apsaugos agentūra	The Environmental Protection Agency	http://www.gamta.lt/
Valstybinė aplinkos apsaugos tarnyba	State Environmental Protection Authority	http://www.vaat.am.lt/
Lietuvos hidrometeorologijos tarnyba	Lithuanian Hydrometeorological Service	http://www.meteo.lt/
Žemės ūkio ministerija	Ministry of Agriculture	http://www.zum.lrv.lt/
Nacionalinė mokėjimo agentūra	National paying agency	https://www.nma.lt/
Nacionalinė žemės tarnyba prie ŽŪM	National Land Service Under the Ministry of Agriculture	http://www.nzt.lt/
Valstybinė augininkystės tarnyba	State plant service	http://www.vatzum.lt/
Ūkio ministerija	Ministry of Economy	http://www.ukmin.lrv.lt/
Valstybinis turizmo departamentas	State department of tourism	http://www.tourism.lt/
Mokslo, inovacijų ir technologijų agentūra	Agency for Science, Innovation and Technology	http://www.mita.lt/
Lietuvos standartizacijos departamentas	Lithuanian Standards Board	http://www.lsd.lt/
Lietuvos automobilių kelių direkcija prie Susisiekimo ministerijos	Lithuanian Road Administration under the ministry of transport and communications	http://www.lakd.lt/
Valstybinė kelių transporto inspekcija prie Susisiekimo ministerijos	State Road Transport Inspectorate under the Ministry of Transport and Communications	https://www.vkti.gov.lt/
Krašto apsaugos ministerija	Ministry of National Defence	http://www.kam.lt/
Vidaus reikalų ministerija	Ministry of the Interior	http://www.vrm.lrv.lt/
Kultūros ministerija	Ministry of Culture	http://www.lrkm.lrv.lt/
Kultūros paveldo departamentas	Cultural Heritage Department	http://www.kpd.lt/
Energetikos ministerija	Ministry of Energy	http://www.enmin.lrv.lt/
Finansų ministerija	Ministry of Finance	http://www.finmin.lrv.lt/
Lietuvos mokslo taryba	Research Council of Lithuania	http://www.lmt.lt

Appendix 26: Interests in different ecosystem services (national level)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Near all services	
	<ul style="list-style-type: none"> Ministry of Environment (excluding the Forest Management) Forest Department of the Ministry of Environment State Forest Service
Provisioning services	
Wood	<ul style="list-style-type: none"> Directorate General of State Forests Scientific and technical council for forest management planning SC State Forest Inventory and Management Planning Institute Administrations of 42 state forest enterprises Forest Owner Association of Lithuania Association of Private Forest Owners Ikea JSC Greengold Management Euroforest JSC "TIMBEX" JSC Dzūkijos mediena JSC Dzūkijos miškas JSC Bangenės miškas JSC HD Forest Association "Lithuanian wood" Lithuanian Association of Impartial Timber Scalpers JSC "Klaipėdos Mediena" JSC "Stora Enso Lietuva" JSC "Likmerė" JSC "Sveaskog Baltfor" JSC „GKF“ JSC MMC forest JSC Šilalės mediena (Šilalė wood) JSC Renostera JSC Laurama JSC Bangenė JSC Litforina Lithuanian Biomass Energy Association LITBIOMA JSC „Klasmann-Deilmann Bioenergy“ Lithuanian foresters' union JSC NEPCon LT Ministry of Economy Ministry of Energy State Road Transport Inspectorate under the Ministry of Transport and Communications
Mushrooms	<ul style="list-style-type: none"> Association of Lithuanian Entrepreneurs of Forest Mushrooms and Berries JSC Fudo
Berries	<ul style="list-style-type: none"> Association of Lithuanian Entrepreneurs of Forest Mushrooms and Berries JSC Fudo
Game	<ul style="list-style-type: none"> Directorate general of state forests SC State forest inventory and management planning institute Lithuanian Hunter Union "Gamta" (Nature) Lithuanian hunter and fishermen association Lithuanian fishermen association
Medical plants	<ul style="list-style-type: none"> Lithuanian folk medicine association JSC „Švenčionių vaistažolės“
Other(s)	<ul style="list-style-type: none"> The Lithuanian Association of Surveyors SC State Land Fund JSC Institute of Aerial Geodesy SC Lithuanian Railways National Paying Agency

	<ul style="list-style-type: none"> • National Land Service Under the Ministry of Agriculture • Lithuanian Road Administration • Ministry of National Defense • Ministry of the Interior • Ministry of Finance • State Plant Service • State Territorial Planning and Construction Inspectorate under the Ministry of Environment
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • SC State Forest Inventory and Management Planning Institute • Directions of 4 national parks • Directions of 30 regional parks • JSC "Stora Enso Lietuva" • Lithuanian Hunter Union "Gamta" (Nature) • JSC NEPCon LT • Lithuanian Entomologist Society • Lithuanian Ornithologist Society • The Lithuanian Green Movement • Baltic Environmental Forum • Lithuania Natural heritage fund • Lithuanian fund for nature • Center for environmental policy • Sustainable Development Initiatives • Ministry of Agriculture • State Service of Protected Areas
Habitat for species	<ul style="list-style-type: none"> • Directions of 4 national parks • Directions of 30 regional parks • JSC NEPCon LT • Lithuanian Ornithologist Society • The Lithuanian Green Movement • Baltic Environmental Forum • Lithuanian Fund for Nature • Community "Atgaja" • Nature protection organization "Baltijos vilkas" ("Baltic wolf") • Movement "For the nature" • Lithuanian Dendrologists Society • State Service of Protected Areas
Employment in forests	<ul style="list-style-type: none"> • Directorate General of STATE FORESTS • Forest Owner Association of Lithuania • Federation of Lithuanian Forest and Wood Worker Trade Unions • The Trade Union of Nature Protection Workers of Lithuania • Lithuanian Foresters' Union • Ministry of Economy
Other	<ul style="list-style-type: none"> • National Paying Agency
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Directorate General of State Forests • SC State Forest Inventory and Management Planning Institute • Lithuanian Biomass Energy Association LITBIOMA • Center for Environmental Policy • Lithuanian Energy Institute • Ministry of Agriculture • Ministry of Energy • The Environmental Protection Agency
Climate regulation	<ul style="list-style-type: none"> • Ministry of Agriculture • The Environmental Protection Agency • Lithuanian Hydrometeorological Service
Water quality	<ul style="list-style-type: none"> • Lithuanian Association of Water Providers • Lithuanian Union of Land Management and Hydrotechnics Engineers • Lithuanian Geology Survey
Pest control	<ul style="list-style-type: none"> • Directorate General of State Forests
Other(s)	<ul style="list-style-type: none"> • National Paying Agency

Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Directorate general of state forests • SC State forest inventory and management planning institute • Directions of 4 national parks • Directions of 30 regional parks • Lithuanian association for rural tourism • Lithuanian Tourism Association • National Tourism Business Association • Lithuanian Tourism Information Centres Association • Lithuanian national travel guides association • Lithuanian tourism chamber • Lithuanian Ornithologist society • Ministry of Agriculture • State Department of Tourism • State Service of Protected Areas
Aesthetic values	<ul style="list-style-type: none"> • Directorate General of State Forests • Directions of 4 national parks • Directions of 30 regional parks • Lithuanian Association for Rural Tourism • Lithuanian Tourism Association • National Tourism Business Association • Lithuanian Tourism Information Centres Association • Lithuanian National Travel Guides Association • Lithuanian Tourism Chamber • State Department of Tourism • State Service of Protected Areas
Tourism	<ul style="list-style-type: none"> • Directions of 4 national parks • Directions of 30 regional parks • Lithuanian Association for Rural Tourism • Lithuanian Tourism Association • National Tourism Business Association • Lithuanian Tourism Information Centres Association • Lithuanian National Travel Guides Association • Lithuanian Tourism Chamber • Lithuania Natural Heritage Fund • State Department of Tourism • State Service of Protected Areas
Science and education	<ul style="list-style-type: none"> • Scientific and technical council for forest management planning • SC State Forest Inventory and Management Planning Institute • Lithuanian Association of impartial Timber Scalers • Lithuanian Foresters' Union • Aleksandras Stulginskis University • Lithuanian Research Centre for Agriculture and Forestry, Forest Research Institute • Kaunas Forestry and Environmental Engineering college • Nature Research Centre • Vytautas Magnus University • Kaunas University of Technology • Vilnius University • Lithuanian University of Educational Sciences • Lithuanian University of Health Sciences • Mykolas Romeris University • Šiauliai University • Lithuanian Energy Institute • Lithuanian Institute of Agrarian Economics • Lithuanian Agriculture Advisory Service • Agency for Science, Innovation and Technology • Research Council of Lithuania • Environmental Project Management Agency
Natural heritage	<ul style="list-style-type: none"> • Directions of 4 national parks • Directions of 30 regional parks • Lithuanian Association for Rural Tourism

	<ul style="list-style-type: none"> • Lithuanian Tourism Association • National Tourism Business Association • Lithuanian Tourism Information Centres Association • Lithuanian National Travel Guides Association • Lithuanian Tourism Chamber • Lithuania Natural Heritage Fund • State Department of Tourism • State Service of Protected Areas • Cultural Heritage Department
	<ul style="list-style-type: none"> • National Paying Agency

Appendix 27: Actors in the case study (Telšiai, Lithuania)

Stakeholder Category	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name translated into English]
Market actors		
Forest owners	<ul style="list-style-type: none"> • Žemaitijos miškas • Nepriklausomi smulkūs miškų savininkai • Nepriklausomi stambūs miškų savininkai • UAB Telmeda 	<ul style="list-style-type: none"> • Žemaitija forest • Independent small-scale forest owners • Independent large-scale forest owners • JSC Telmeda
Timber trade, processing and renewable energy provision	<ul style="list-style-type: none"> • UAB Kietasis biokuras • UAB Robmona • UAB Gilinis • UAB Milašaičių lentpjūvė • UAB Kertmedis • UAB Babrūna 	<ul style="list-style-type: none"> • JSC Kietasis biokuras (hard biofuel) • JSC Robmona • JSC Gilinis • JSC Milašaičių lentpjūvė (Miličaičiai sawmill) • JSC Kertmedis • JSC Babruna
Water provision	<ul style="list-style-type: none"> • UAB Baltijos mineralinių vandenų kompanija • UAB Telšių vandenys • UAB Plungės vandenys 	<ul style="list-style-type: none"> • JSC "Baltijos mineralinių vandenų kompanija" (Baltic mineral water company) • JSC "Telšių vandenys" (Water of Telšiai) • JSC Plungės vandenys (Water of Plungė)
Mushrooms and berries	<ul style="list-style-type: none"> • MB Miškona • UAB Garvilė • UAB Fudo 	<ul style="list-style-type: none"> • MB Miškona • UAB Garvilė • UAB Fudo
Work in forests	<ul style="list-style-type: none"> • UAB Telšių Romanta • UAB Eridaras • UAB Valdo Ranga • UAB Viršilita • UAB VK Eglutė 	<ul style="list-style-type: none"> • JSC Telšių Romanta • JSC Eridaras • JSC Valdo Ranga • JSC Viršilita • JSC VK Eglutė (Spruce)
Civil Society		
Employment in forests	<ul style="list-style-type: none"> • VĮ Telšių miškų urėdijos profesinė sąjunga 	<ul style="list-style-type: none"> • The trade union of Telšiai forest enterprise
Recreation	<ul style="list-style-type: none"> • Žemaitijos kaimo turizmo asociacija • Telšių turizmo informacijos centras • Vietiniai gyventojai • Poilsiautojai 	<ul style="list-style-type: none"> • Žemaitija Association for Rural Tourism • Telšiai Centre for Touristic Information • Locals • Tourists
Hunting and fishing	<ul style="list-style-type: none"> • Telšių medžiotojų ir žvejų draugija 	<ul style="list-style-type: none"> • Hunter and Fishermen Association of Telšiai
Governmental-Actors		
Forest management	<ul style="list-style-type: none"> • VĮ Telšių miškų urėdija 	<ul style="list-style-type: none"> • SC Telšiai State Forest Enterprise
	<ul style="list-style-type: none"> • Valstybinės miškų tarnybos Miškų kontrolės skyriaus Klaipėdos teritorinis poskyris 	<ul style="list-style-type: none"> • Klaipėda regional branch of Forest Control Department of the State Forest Service
	<ul style="list-style-type: none"> • Nacionalinės mokėjimų agentūros Telšių skyrius 	<ul style="list-style-type: none"> • Telšiai branch of the National Paying Agency
	<ul style="list-style-type: none"> • Nacionalinės žemės tarnybos Telšių skyrius 	<ul style="list-style-type: none"> • Telšiai branch of the National Land Service
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> • Varnių regioninis parkas 	<ul style="list-style-type: none"> • Varniai Regional Park
	<ul style="list-style-type: none"> • Žemaitijos nacionalinis parkas 	<ul style="list-style-type: none"> • Žemaitija National Park
Local administration	<ul style="list-style-type: none"> • Telšių rajono savivaldybė 	<ul style="list-style-type: none"> • Telšiai District Municipality
	<ul style="list-style-type: none"> • Plungės rajono savivaldybė 	<ul style="list-style-type: none"> • Plungė District Municipality

	<ul style="list-style-type: none">• Regioninės plėtros departamento prie vidaus reikalų ministerijos Telšių apskrities skyrius	<ul style="list-style-type: none">• Telšiai branch of Regional Development Department under Ministry of the Interior of the Republic of Lithuania
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Appendix 28: Actors in the case study/Contacts (Telšiai, Lithuania)

Identified Stakeholder (Organizations) [Name translated into English]	Website or physical address/contact
Market actors	
<ul style="list-style-type: none"> • Žemaitija forest • Independent small-scale forest owners • Independent large-scale forest owners • JSC Robmona • JSC VK Eglutė (Spruce) • JSC Telmeda • JSC Kietasis biokuras (hard biofuel) • JSC “Baltijos mineralinių vandenų kompanija” (Baltic mineral water company) • JSC “Telšių vandenys” (Water of Telšiai) • JSC Plungės vandenys (Water of Plungė) • MB Miškona • JSC Garvilė • JSC Fudo • JSC Telšių Romanta • JSC Eridaras • JSC Valdo Ranga • JSC Viršilė • JSC Gilinis • JSC Milašaičių lentpjūvė (Miličaičiai sawmill) • JSC Kertmedis • JSC Babruna 	<ul style="list-style-type: none"> • http://www.zemaitijosmiskas.lt/ • - • - • http://robmona.lt/ • - • - • http://www.kietasisbiokuras.lt/ • http://www.tiche.lt/ • http://www.telsiuvandenys.lt/ • http://www.plungesvandenys.lt/ • - • - • http://www.fudo.lt/ • - • - • - • - • http://www.gilinis.lt/ • http://www.mlentpjuve.lt/ • http://www.kertmedis.lt/ • http://www.babruna.lt/
Civil Society	
<ul style="list-style-type: none"> • Žemaitija Association for Rural Tourism • Telšiai Centre for Touristic Information • The Trade Union of Telšiai SFE • Hunter and Fishermen Association of Telšiai 	<ul style="list-style-type: none"> • http://www.poilsizemaitijoje.lt/ • http://www.telsiaitic.lt/ • - • http://www.lmzd.lt/
Governmental actors	
<ul style="list-style-type: none"> • Telšiai SFE • Varniai Regional Park • Žemaitija National Park • Telšiai District Municipality 	<ul style="list-style-type: none"> • http://www.telsiuuredija.lt/ • http://www.varniurp.am.lt/ • http://www.zemaitijosnp.lt/ • http://www.telsiai.lt/

Appendix 29: Actors in the case study interested in different ecosystem services (Telšiai, Lithuania)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Telšiai SFE • JSC Gilinis • JSC Babruna • JSC Milašaičių lentpjūvė • JSC Kertmedis • JSC Robmona • JSC Kietasis biokuras (hard biofuel) • JSC VK Eglutė (Spruce) • JSC Žemaitijos miškas (Žemaitija forest) • JSC Telmeda • Independent small-scale private forest owners • Independent large-scale private forest owners • Locals
Mushrooms	<ul style="list-style-type: none"> • FA Miškona • JSC Garvilė • JSC Fudo • Independent small-scale private forest owners • Independent large-scale private forest owners • Locals
Berries	<ul style="list-style-type: none"> • FA Miškona • JSC Garvilė • JSC Fudo • Independent small-scale private forest owners • Independent large-scale private forest owners • Locals
Game	<ul style="list-style-type: none"> • Hunter and Fishermen Association of Telšiai
Medical plants	<ul style="list-style-type: none"> • Locals
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • Telšiai SFE • Varniai regional park • Žemaitija national park
Habitat for species	<ul style="list-style-type: none"> • Telšiai SFE • Varniai regional park • Žemaitija national park
Employment in forests	<ul style="list-style-type: none"> • The Trade Union of Telšiai SFE • JSC Žemaitijos miškas (Žemaitija forest) • JSC Telšių Romanta • JSC Eridaras • JSC Valdo Ranga • JSC Viršilita
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Telšiai SFE
Climate regulation	<ul style="list-style-type: none"> • Telšiai SFE
Water quality	<ul style="list-style-type: none"> • JSC "Baltijos mineralinių vandenų kompanija" (Baltic mineral water company) • JSC "Telšių vandenys" (Water of Telšiai) • JSC Plungės vandenys (Water of Plungė)
Pest control	<ul style="list-style-type: none"> • Telšiai SFE • Varniai Regional Park
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Telšiai District Municipality • Varniai Regional Park

	<ul style="list-style-type: none"> • Žemaitija National Park • Telšiai SFE • Independent small-scale private forest owners • Independent large-scale private forest owners • Locals • Tourists
Aesthetic values	<ul style="list-style-type: none"> • Telšiai District Municipality • Independent small-scale private forest owners • Independent large-scale private forest owners • Locals • Tourists
Tourism	<ul style="list-style-type: none"> • Telšiai District Municipality • Varniai Regional Park • Žemaitija National Park • Žemaitija Association for Rural Tourism • Telšiai Centre for Touristic Information • Tourists
Natural heritage	<ul style="list-style-type: none"> • Telšiai District Municipality • Telšiai SFE • Varniai Regional Park • Žemaitija National Park • Locals • Tourists

Appendix 30: Actors' interests in different forest ecosystem services (The Netherlands)

Interest in	Identified Stakeholder (Organizations) in Dutch language	Identified Stakeholder (Organizations) in English language	Website or physical address
Provisioning services			
Wood and raw material	Houtverwerkende industrie	Timber industry	
	Houthandel	Timber traders	
	Aannemers	Contractors	
	Transporteurs	Transport companies	
	Biomassa sector	Biomass sector	
	Beeldende kunstenaars	Artists	
	Algemene Vereniging Inlands Hout (AVIH)	General Association Home-grown Timber	www.avih.nl
	Koninklijke Vereniging Van Nederlandse Houtondernemingen (VVDH)	Royal Dutch Timber Company Association	www.vvdh.nl
	Platform Hout Nederland (PHN)	Dutch Timber Platform	www.probos.nl
	Nederlandse Emballage en Palletindustrie Vereniging (EPV)	Dutch Packaging and Pallet Industry Association	www.epv.nl
	Koninklijke Vereniging van Nederlandse Papier- en Kartonfabrieken (VNP)	Royal Association of Dutch Paper and Board	www.vpn.nl
	Nederlandse Branchevereniging voor de Timmerindustrie (NBvT)	Dutch Branch Association for the Carpentry Industry	www.nbv.nl
	Nederlandse Vereniging voor Houtskelbouwers (VHSB)	Association of Wood Skeleton Builders	www.bewustmethout.nl
	Vereniging van Bos- en Natuurterreineigenaren (VBNE)	Association of Forest and Nature Area Owners	www.vbne.nl
	Staatsbosbeheer	State Forest Service	www.staatsbosbeheer.nl
	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	De 12 Landschappen	Provincial Landscapes	www.landschappen.nl
	Federatie Particulier Grondbezit (FPG)	Federation of Private Landownership	www.fpg.nl
	Particuliere bos- en landgoedeigenaren	Individual private forest and estate owners	
	(Unie van) Bosgroepen	(Union of) Forest Groups	www.bosgroepen.nl
	Stichting Probos	Probos Foundation	www.probos.nl
	Koninklijke Nederlandse Bosbouwvereniging (KNBV)	Royal Dutch Forestry Association	www.knbv.nl
	Forest Steward Certification NL (FSC)	Forest Steward Certification NL	www.fsc.nl
	PEFC Nederland	Programme for the Endorsement of Forest Certification NL	www.pefcnederland.nl
	Nederlandse Vereniging van Rentmeesters	Dutch Steward Association	www.rentmeesternvr.nl
	Vereniging van Gemeentelijke Bos- en natuureigenaren (VGBNE)	Association of Municipal Forest and Nature Area Owners	
	Stichting Nationale Parken (SNP)	Foundation of Cooperating National Parks	www.nationaalpark.nl
	Vereniging Energie Nederland	Energy Netherlands	www.energie-nederland.nl
	Stichting Ecobouw Nederland	Ecobouw Netherlands Foundations	www.ecobouwnederland.nl
	Branche Vereniging Organische Reststoffen (BVOR)	Dutch Association of Biowaste processors	www.bvor.nl
Stuurgroep Natuurterrein, bos, landschap en houtketen van RVO (NBLH)	Steering Group Nature, Forest, Landscape and Wood Chain	www.rvo.nl/onderwerpen/duurzam-ondernemen	
Stichting Platform Bio-energie	Platform Bio-Energy	www.platformbioenergie.nl	
Coöperatie Biomassalland	Cooperative Biomassalland	http://www.biomassalland.nl	
Adviesbedrijven	Consultant companies		

	Individuele burgers / bosgebruikers	Individual citizens / forest users	
Mushrooms	Individuele burgers / bosgebruikers	Individual citizens / forest users	
	Kleine bedrijven	Small enterprises	
	Culinaire sector	Culinary sector	
Berries	Individuele burgers / bosgebruikers	Individual citizens / forest users	
Game	Nederlandse Jagers Vereniging (NJV)	Dutch Hunters Association	www.jagersvereniging.nl
	Nederlandse Organisatie voor Jacht en Grondbeheer (NOJG)	Dutch Organisation for Hunting and Land Management	www.nojg.nl
	Vereniging Het Reewild	Roe deer Association	www.reewild.nl
	Vereniging Het Edelhert	Red deer Association	www.hetedelhert.nl
	Wildbeheereenheden (WBE's)	Game management Units	
	Fauna Beheer Eenheden (FBE's)	Fauna management Units	
	Kroondomein Het Loo	Royal Domain Het Loo	www.kroondomein.nl
	Stichting het Geldersch Landschap en Geldersche Kasteelen	Stichting het Geldersch Landschap en Geldersche Kasteelen	www.glk.nl
	Stichting NP Hoge Veluwe	Stichting NP Hoge Veluwe	www.hogeveluwe.nl
	Nederlandse Bond van Poeliers en Wildhandelaren (NPBW)	Advisory and advocacy for craft poultry and game companies	www.nbpw.nl
	Culinaire sector	Culinary sector	
	Consumenten	Consumers	
	Individuele burgers / bosgebruikers	Individual citizens / forest users	
Medical plants	-		
Other(s)	-		
Supporting services			
Biodiversity	Vogelbescherming	Bird Protection Association	www.vogelbescherming.nl
	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	Provinciale Landschappen	Provincial Landscapes	
	Staatsbosbeheer	National Forest Service	www.staatsbosbeheer.nl
	Stichting Probos	Probos Foundation	www.probos.nl
	FSC/PEFC	FSC/PEFC	www.fsc.nl , www.pefcnederland.nl
	Stichting Kritisch Bosbeheer (SKB)	Foundation Critical Forest Management	www.nieuwe-wildernis.nl
	Zoogdierenvereniging	Mammal Society	www.zoogdierenvereniging.nl
	Europese Commissie	European Commission	
	Ministeries and Parlement	Ministeries and Parliament	
	Provinciale overheden	Provincial governments	
	Nederlandse Jagers Vereniging (NJV)	Dutch Hunters Association	www.jagersvereniging.nl
	Nederlandse Organisatie voor Jacht en Grondbeheer	Dutch Organization for Hunting and Land Management	www.nojg.nl
	Vereniging Het Reewild	Roe deer Association	www.reewild.nl
	Vereniging Het Edelhert	Red deer Association	www.hetedelhert.nl
	Wildbeheereenheden (WBEs)	Game management Units	
	Stichting Beheer Landelijk Gebied (SBNL)	The Foundation for Nature and Rural Areas	www.sbnl.nl
	Das & Boom	Das & Boom	www.dasenboom.nl
	Vereniging Nederlands Cultuurlandschap (VNC)		www.nederlandscultuurlandschap.nl
	Faunabescherming	Fauna Protection	www.faunabescherming.nl
Adviesbedrijven	Consultant companies		
Habitat for species	Vogelbescherming	Bird Protection Association	www.vogelbescherming.nl
	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	De 12 Landschappen	Provincial Landscapes	www.landschappen.nl
	Staatsbosbeheer	National Forest Service	www.staatsbosbeheer.nl
	Stichting Probos	Probos Foundation	www.probos.nl

	FSC/PEFC	FSC/PEFC	www.fsc.nl , www.pefcnederland.nl
	Stichting Kritisch Bosbeheer (SKB)	Foundation Critical Forest Management	www.nieuwe-wildernis.nl
	Zoogdierenvereniging	Mammal Society	www.zoogdierveniging.nl
	Europese Commissie	European Commission	
	Ministeries and Parlement	Ministeries and Parliament	
	Provincial governments		
	Nederlandse Jagers Vereniging (NJV)	Dutch Hunters Association	www.jagersvereniging.nl
	Nederlandse Organisatie voor Jacht en Grondbeheer	Dutch Organization for Hunting and Land Management	www.nojg.nl
	Vereniging Het Reewild	Roe deer Association	www.reewild.nl
	Vereniging Het Edelhert	Red deer Association	www.hetedelhert.nl
	Wildbeheereenheden (WBEs)	Game management Units	
	Stichting Beheer Landelijk Gebied (SBNL)	The Foundation for Nature and Rural Areas	www.sbnl.nl
	Das & Boom	Das & Boom	www.dasenboom.nl
	Vereniging Nederlands Cultuurlandschap (VNC)	Association for Dutch Cultural landscapes	www.nederlandscultuurlandschap.nl
	Faunabescherming	Fauna Protection	www.faunabescherming.nl
	Adviesbedrijven	Consultant companies	
Other(s)	-		
Regulating services			
Carbon sequestration	Europese Commissie	European Commission	
	Ministeries and Parlement	Ministeries and Parliament	
	Milieu-organisaties (Natuur en Milieu, Milieufederaties, Milieudefensie, Trees for all)	Environmental ngo's	www.treesforall.nl
	Groenfront	GroenFront	www.groenfront.nl
	Klimaatbureau	Climate Agency	www.klimaatbureau.nl
Climate regulation	Europese Commissie	European Commission	
	Ministeries and Parlement	Ministeries and Parliament	
	Milieu-organisaties (Natuur en Milieu, Milieufederaties, Milieudefensie, Trees for all)	Environmental ngo's	www.treesforall.nl
	Groenfront	GroenFront	www.groenfront.nl
	Klimaatbureau	Climate Agency	www.klimaatbureau.nl
Water quality	Adviesbedrijven	Consultant companies	
	Waterleidingmaatschappijen	Water provision bodies	
	Unie van Waterschappen	Association of Water Boards	www.uvw.nl
	Milieu-organisaties (Natuur en Milieu, Milieufederaties, Milieudefensie)	Environmental ngo's	
	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	LandschappenNL	Provincial Landscapes	www.landschappen.nl
	Staatsbosbeheer	State Forest Service	www.staatsbosbeheer.nl
Pest control	Adviesbedrijven	Consultant companies	
	Staatsbosbeheer	State Forest Service	www.staatsbosbeheer.nl
	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	De 12 Landschappen	Provincial Landscapes	www.landschappen.nl
	Federatie Particulier Grondbezit	Federation of Private Landownership	www.fpg.nl
	Individuele particuliere bos- en landgoedeigenaren	Individual private forest and estate owners	
	(Unie van) Bosgroepen	(Unie van) Bosgroepen	www.bosgroepen.nl
	Stichting Probos	Probos Foundation	www.probos.nl
	Koninklijke Nederlandse Bosbouwvereniging (KNBV)	Royal Dutch Forestry Association	www.knbv.nl
	Kroondomein Het Loo	Royal Domain Het Loo	www.kroondomein.nl
	Stichting NP Hoge Veluwe	Stichting NP Hoge Veluwe	www.hogeveluwe.nl
	Nederlandse Jagersvereniging, Nederlandse Organisatie voor Jacht en Grondbeheer, Vereniging Het Reewild, Vereniging Het Edelhert, Wildbeheereenheden (WBEs)	Dutch Hunting Association, Dutch Organization for Hunting and Land Management, Roe	www.jagersvereniging.nl www.nojg.nl www.reewild.nl www.hetedelhert.nl

		deer Association, Red deer Association, Game Management Units	
	Universiteiten/Wetenschap & Onderzoek (WU, VHL, WUR Environmental Research (Alterra))	Institutions for academic education, science, applied research and higher vocational education	
	Adviesbedrijven	Consultant companies	
Other(s)	-		
Cultural services			
Outdoor recreation	Tourism entrepreneurs ('Horeca' sector)		
	Vereniging van Recreatieondernemers Nederland (RECRON)	Association of Recreation Entrepreneurs	www.recron.nl
	Provincial governments		
	Municipalities		
	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	De 12 Landschappen	Provincial Landscapes	www.landschappen.nl
	Staatsbosbeheer	State Forest Service	www.staatsbosbeheer.nl
	Stichting Nationale Parken (SNP)	Foundation of Cooperating National Parks	www.nationaalpark.nl
	NIVON Natuurvrienden NL	NIVON-Nature Friends NL	www.nivon.nl
	Volunteer groups		
	Algemene Nederlandse Wielrijdersbond (ANWB)	Royal Dutch touring Club	www.anwb.nl
	Fietsersbond Koninklijke Nederlandse Wielren Unie	Cyclist's Union Royal Dutch Cycling Union	www.wielrijdersbond.nl www.knwu.nl
	Koninklijke Wandelbond Nederland		www.kwbn.nl/
Koninklijke Nederlandse Hippische Sportfederatie	Royal Dutch Equestrian Federation	www.knhs.nl	
Individual citizens			
Aesthetic values	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	LandschappenNL	Provincial Landscapes	www.landschappen.nl
	Staatsbosbeheer	State Forest Service	www.staatsbosbeheer.nl
	Stichting Nationale Parken (SNP)	Foundation of Cooperating National Parks	www.nationaalpark.nl
	Landschapsbeheer Nederland (& provinciale stichtingen)	Landscape Management Netherlands & provincial foundations	www.landschappen.nl
	Koninklijke Nederlandse Natuurhistorische Vereniging (KNNV)	Royal Dutch Natural History Society	www.knnv.nl
	Instituut voor natuureducatie en duurzaamheid (IVN)	Institute for Nature and Sustainability	www.ivn.nl
	Bomenstichting	Tree Foundation	www.bomenstichting.nl
	Volunteer groups		
	Kunstenaars en cineasten		
Individuele burgers / bosgebruikers	Individual citizens / forest users		
Tourism	Recreatieondernemers ('Horeca' sector)	Tourism entrepreneurs	
	Vereniging van Recreatieondernemers Nederland (RECRON)	Association of Recreation Entrepreneurs	www.recron.nl
	Provinciale overheden	Provincial governments	
	Gemeenten	Municipalities	
	Vereniging Natuurmonumenten	Natuurmonumenten	www.natuurmonumenten.nl
	De 12 Landschappen	Provincial Landscapes	www.landschappen.nl
	Staatsbosbeheer	State Forest Service	www.staatsbosbeheer.nl
	Stichting Nationale Parken (SNP)	Foundation of Cooperating National Parks	www.nationaalpark.nl
	NIVON Natuurvrienden NL	NIVON-Nature Friends NL	www.nivon.nl
	Vrijwilligersgroepen	Volunteer groups	
	Algemene Nederlandse Wielrijdersbond (ANWB)	Royal Dutch Touring Club	www.anwb.nl
	Fietsersbond Koninklijke Nederlandse Wielren Unie	Cyclist's Union Royal Dutch Cycling Union	www.wielrijdersbond.nl www.knwu.nl

	Koninklijke Wandelbond Nederland	Royal Netherlands Walking Association	www.kwbn.nl/
	Koninklijke Nederlandse Hippische Sportfederatie	Royal Dutch Equestrian Federation	www.knhs.nl
	Individual citizens		
Knowledge & education/science	Universiteiten/Wetenschap & Onderzoek (WU, VHL, WUR Environmental Research (Alterra))	Institutions for academic education, science, applied research and higher vocational education	
	VMBO-Groen Terra/ MBO Helicon	Schools for vocational education	
	Centrum Hout	Wood Centre	www.centrum-hout.nl
	Houtopleidingscentrum	Wood Training Centre	www.houtopleidingscentrum.nl
	Instituut voor natuureducatie en duurzaamheid (IVN)	Institute for Nature and Sustainability	www.ivn.nl
	Koninklijke Nederlandse Natuurhistorische Vereniging (KNNV)	Royal Dutch Natural History Society	www.knnv.nl
	Stichting Hout Research (SHR)	Timber Research Institute	www.shr.nl
	Stichting Nationale Boomfeestdag	Arbor Day Foundation	www.boomfeestdag.nl
	Adviesbedrijven	Consultant companies	www.boscursus.nl
Other(s)	Bos- en zorgsector; groene zorgcombinaties (s-Heerenloo, Visio Het Loo Erf)	Forest and nature inclusive health care	www.zorghoutvesterij.nl/
	Reclassering Nederland	Probation Netherlands	www.reclassering.nl/
	Natuurbegraven Nederland Branchevereniging Natuurbegraafplaatsen Nederland	Nature burials Netherlands Branch Association for Nature Cemeteries in the Netherlands	www.natuurbegravenland.nl/natuurbegraven www.brana.nu
	Nationaal Groenfonds	Dutch National Fund for Green Investments	www.nationaalgroenfonds.nl

Appendix 31: Power resources of different interests in forest management

Strong impact: +++; Medium impact: ++; Low impact: +; No impact: 0

Interest in	Power resources		
	Means of Coercion	Incentives	Dominant information sources
Provisioning forest ecosystem services			
Wood	++	+++	+++
Mushrooms	+	+	+
Berries	+	+	+
Game	++	++	++
Medical plants	+	+	+
Supporting forest ecosystem services			
Biodiversity	+++	++	+++
Habitat for species	+++	++	+++
Regulating forest ecosystem services			
Carbon sequestration	+	+	+
Climate regulation	+	+	+
Water quality	+++	+++	+++
Pest control	++	++	++
Cultural forest ecosystem services			
Outdoor recreation	+	+++	+++
Aesthetic values	+	++	++
Tourism	+	+++	+++



Knowledge & education/science	+	+++	+++
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Appendix 32: Market and civil society actors in Portugal forest policy (national level)

Identified Actor (Organizations) [in country language]	Identified Actor (Organizations) [English translation]	Website
Market actors		
Forest management		
<ul style="list-style-type: none"> • Forestis, Associação Florestal de Portugal • Floresta Atlântica, Sociedade Gestora de Fundos de Investimento Imobiliário • ANEFA, Associação Nacional de Empresas Florestais, Agrícolas e do Ambiente 	<ul style="list-style-type: none"> • Forestis, Forest Association of Portugal (Federation of Forest Owners Associations) • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Portuguese Association of Forestry, Agriculture and Environment Enterprises (ANEFA) 	<ul style="list-style-type: none"> • www.forestis.pt • www.floresta-atlantica.pt • www.anefa.pt
Timber trade and processing		
<ul style="list-style-type: none"> • The Navigator Company • Altri Florestal • Europac & Kraft Viana • SONAE Indústria, Produção e Comercialização de Derivados de Madeira • CELPA, Associação da Indústria Papeleira • Centro Pinus, Associação para a Valorização da Floresta de Pinho • AIMMP, Associação das Indústrias de Madeira e Mobiliário de Portugal • AIFF, Associação para a Competitividade das Indústrias da Fideira Florestal • Abastena, Sociedade Abastecedora de Madeiras • Unimadeiras, Produção, Comércio e Exploração Florestal 	<ul style="list-style-type: none"> • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Europac & Kraft Viana (paper and packaging industry) • SONAE Industry, Production and Trade of Wood Derivatives • Pulp and Paper Industry Association (CELPA) • Pinus Center, Association for Pine Forest Sector Valorization • Association of Industries of Wood and Furniture of Portugal (AIMMP) • Competitiveness and Technology Center for Forest Industries (AIFF) • Abastena, Wood Supply Company • Unimadeiras, Production, Trade and Forest Exploitation 	<ul style="list-style-type: none"> • www.thenavigatorcompany.com • www.altri.pt • www.europacgroup.com • www.sonaeindustria.com • www.celpa.pt • www.centropinus.org • http://aimmp.pt • www.aiff.org.pt • www.abastena.pt • http://unimadeiras.pt
Renewable energy regeneration		
<ul style="list-style-type: none"> • APREN, Associação Portuguesa de Energias Renováveis 	<ul style="list-style-type: none"> • Portuguese Renewable Energy Association (APREN) 	<ul style="list-style-type: none"> • www.apren.pt

Identified Actor (Organizations) [in country language]	Identified Actor (Organizations) [English translation]	Website
<ul style="list-style-type: none"> • CBE, Centro da Biomassa para a Energia • ANPEB, Associação Nacional de Pellets Energéticas de Biomassa 	<ul style="list-style-type: none"> • Biomass Centre for Energy (CBE) • Portuguese Association of Biomass Energy Pellets (ANPEB) 	<ul style="list-style-type: none"> • www.centrodabiomassa.pt • www.anpeb.pt
<ul style="list-style-type: none"> • APEB, Associação dos Produtores de Energia e Biomassa • EDP Produção - Bioelétrica <p>Water provision</p> <ul style="list-style-type: none"> • AdP, Águas de Portugal <p>Tourism</p> <ul style="list-style-type: none"> • CTP, Confederação do Turismo Português 	<ul style="list-style-type: none"> • APEB, Association of Energy and Biomass Producers (APEB) • Portuguese Energies - Bioelectricity (EDP) • Portuguese company for water supply and wastewater sanitation (AdP) • Portuguese Association for Tourism (CTP) 	<ul style="list-style-type: none"> • apebiomassa.wixsite.com/apeb/biomassa • www.edp.com • www.adp.pt • www.confederaçãoturismoportugues.pt
Civil Society actors		
<p>Employment in forests</p> <ul style="list-style-type: none"> • SETAA, Sindicato da Agricultura, Alimentação e Florestas <p>Sustainable biomass use</p> <ul style="list-style-type: none"> • CBE, Centro da Biomassa para a Energia <p>Recreation</p> <ul style="list-style-type: none"> • FCMP, Federação de Campismo e Montanhismo de Portugal • UVP, Federação Portuguesa de Ciclismo • FPCUB, Federação Portuguesa de Cicloturismo e Utilizadores de Bicicleta • FMP, Federação de Motociclismo de Portugal • FPTT, Federação Portuguesa de Todo o Terreno • FPO, Federação Portuguesa de Orientação • Geocaching • FNAP, Federação Nacional dos Apicultores de Portugal <p>Hunting and Fishing</p> <ul style="list-style-type: none"> • Fençaça, Federação Portuguesa de Caça 	<ul style="list-style-type: none"> • Union of Agriculture, Food and Forestry (SETAA) • Biomass Centre for Energy (CBE) • Portuguese Camping and Mountaineering Federation (FCMP) • Portuguese Cycling Federation (UVP) • Portuguese Federation of Cycletourism and Bicycle Users (FPCUB) • Portuguese Motorcycle Federation (FMP) • Portuguese All-Terrain Federation (FPTT) • Portuguese Orienteering Federation (FPO) • Geocaching • Portuguese Beekeeping Federation (FNAP) • Portuguese Hunting Federation (Fençaça) 	<ul style="list-style-type: none"> • www.setaa.pt • www.centrodabiomassa.pt • www.fcmpportugal.com • www.fpciclismo.pt • www.fpcub.pt • http://fmp-live.pt • http://fptt.pt • www.fpo.pt • www.geocaching.pt • http://fnap.pt/ • www.fencaca.pt



Identified Actor (Organizations) [in country language]	Identified Actor (Organizations) [English translation]	Website
<ul style="list-style-type: none"> • CNCP, Confederação Nacional dos Caçadores Portugueses • ANPC, Associação Nacional de Proprietários Rurais, Gestão Cingética e Biodiversidade 	<ul style="list-style-type: none"> • Portuguese Hunters Confederation (CNCP) • Portuguese Association of Rural Owners, Hunting Management and Biodiversity (ANPC) 	<ul style="list-style-type: none"> • www.cncp.pt • www.anpc.pt
<ul style="list-style-type: none"> • FPPD, Federação Portuguesa da Pesca Desportiva <p>Certification</p> <ul style="list-style-type: none"> • FSC Portugal • PEFC Portugal, Programa para o Reconhecimento da Certificação Florestal <p>Environmental, nature, and landscape conservation</p> <ul style="list-style-type: none"> • Quercus, Associação Nacional da Conservação da Natureza • WWF Portugal • SPEA, Sociedade Portuguesa para o Estudo das Aves • FAPAS, Fundo para a Protecção dos Animais Selvagens • GEOTA - Grupo de Estudos de Ordenamento do Território e Ambiente • LPN, Liga para a Protecção da Natureza • ZERO, Associação Sistema Terrestre Sustentável • Greenpeace Portugal 	<ul style="list-style-type: none"> • Portuguese Federation for Sport Fishing (FPPD) • Forest Stewardship Council (FSC) • Programme for the Endorsement of Forest Certification (PEFC) • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace 	<ul style="list-style-type: none"> • www.fppd.pt • https://pt.fsc.org/pt-pt • www.pefc.pt • www.quercus.pt • www.wwf.pt • www.spea.pt • www.fapas.pt • www.geota.pt • www.lpn.pt • http://zero.org/ • www.greenpeace.org/portugal/pt

Appendix 33: Governmental actors in forest policy (Portugal, national level)

<i>Original name</i>	<i>Name translated into English</i>	<i>Website</i>
<ul style="list-style-type: none"> • MAFDR, Ministério da Agricultura, Florestas e Desenvolvimento Rural ○ ICNF, Instituto da Conservação da Natureza e das Florestas ○ IFAP, Instituto de Financiamento da Agricultura e Pescas ○ DGAV, Direção-Geral de Alimentação e Veterinária • Ministério da Economia ○ DGEG, Direção Geral de Energia e Geologia • Ministério do Ambiente ○ APA, Agência Portuguesa do Ambiente • Ministério da Defesa ○ GNR, Guarda Nacional Republicana: SEPNA, Serviço de Proteção da Natureza e Ambiente e GIPS, Grupo de Intervenção de Proteção e Socorro • Ministério da Cultura ○ DGPC, Direção-Geral do Património Cultural • Ministério das Finanças ○ AT, Autoridade Tributária e Aduaneira • Ministério do Trabalho, Solidariedade e Segurança Social ○ ACT, Autoridade para as Condições do Trabalho • ANMP, Associação Nacional de Municípios Portugueses 	<ul style="list-style-type: none"> • Ministry of Agriculture, Forestry and Rural Development ○ Institute for the Nature Conservation and Forests ○ Institute for Financing Agriculture and Fisheries ○ Directorate General for Food and Veterinary • Ministry of Economy ○ Directorate General for Energy and Geology • Ministry of Environment ○ Portuguese Environment Agency • Ministry of Defence ○ Portuguese National Guard (GNR): Protection of Nature and Environment Service (SEPNA) and Safe and Protection Intervention Group (GIPS) • Ministry of Culture ○ Directorate General for Cultural Heritage • Ministry of Finance ○ Tributary and Customs Authority • Ministry of Labour and Social Solidarity ○ Authority for Work Conditions • Portuguese Association of Municipalities 	<ul style="list-style-type: none"> ○ www.portugal.gov.pt ○ www.icnf.pt ○ www.ifap.min-agricultura.pt ○ www.dgv.min-agricultura.pt • www.portugal.gov.pt ○ www.dgeg.pt • www.portugal.gov.pt ○ www.apambiente.pt • www.portugal.gov.pt ○ www.gnr.pt • www.portugal.gov.pt ○ www.patrimoniocultural.pt • www.portugal.gov.pt ○ www.portaldasfinancas.gov.pt • www.portugal.gov.pt ○ www.act.gov.pt • www.anmp.pt

Appendix 34: Interests in different ecosystem services (Portugal, national level)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Forestis, Forest Association of Portugal (Federation of Forest Owners Associations) • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Portuguese Association of Forestry, Agriculture and Environment Enterprises (ANEFA) • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Europac & Kraft Viana (paper and packaging industry) • SONAE Industry, Production and Trade of Wood Derivatives • Pulp and Paper Industry Association (CELPA) • Pinus Center, Association for Pine Forest Sector Valorization • Association of Industries of Wood and Furniture of Portugal (AIMMP) • Competitiveness and Technology Center for Forest Industries (AIFF) • Abastena, Wood Supply Company • Unimadeiras, Production, Trade and Forest Exploitation • Portuguese Renewable Energy Association (APREN) • Biomass Centre for Energy (CBE) • Portuguese Association of Biomass Energy Pellets (ANPEB) • APEB, Association of Energy and Biomass Producers (APEB) • Portuguese Energies - Bioelectricity (EDP) • Union of Agriculture, Food and Forestry (SETAA) • Institute for the Nature Conservation and Forests • Institute for Financing Agriculture and Fisheries • Directorate General for Food and Veterinary • Directorate General for Energy and Geology • Portuguese Environment Agency • Portuguese National Guard (GNR): Protection of Nature and Environment Service (SEPNA) and Safe and Protection Intervention Group (GIPS) • Directorate General for Cultural Heritage • Tributary and Customs Authority • Authority for Work Conditions • Portuguese Association of Municipalities
Mushrooms	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace • Portuguese Camping and Mountaineering Federation (FCMP) • Geocaching
Game	<ul style="list-style-type: none"> • Portuguese Hunting Federation (Fençaça) • Portuguese Hunters Confederation (CNCP) • Portuguese Association of Rural Owners, Hunting Management and Biodiversity (ANPC) • Institute for the Conservation of Nature and Forest
Medical plants	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Portuguese Beekeeping Federation (FNAP)
Fish	<ul style="list-style-type: none"> • Portuguese Federation for Sport Fishing (FPPD) • Institute for the Nature Conservation and Forests
Honey	<ul style="list-style-type: none"> • Portuguese Beekeeping Federation (FNAP) • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Directorate General for Food and Veterinary
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace • Institute for the Nature Conservation and Forests • Portuguese Environment Agency
Habitat for species	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace • Forest Stewardship Council (FSC) • Programme for the Endorsement of Forest Certification (PEFC) • Institute for the Nature Conservation and Forests • Portuguese Environment Agency
Other(s)	-
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • ZERO, Sustainable Terrestrial System Association • Greenpeace • Institute for the Nature Conservation and Forests • Portuguese Environment Agency
Climate regulation	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace • Institute for the Nature Conservation and Forests • Portuguese Environment Agency
Water quality	<ul style="list-style-type: none"> • Portuguese company for water supply and wastewater sanitation (AdP) • Portuguese Association of Municipalities • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace • Portuguese Environment Agency • Portuguese Association of Municipalities
Pest control	<ul style="list-style-type: none"> • Forestis, Forest Association of Portugal (Federation of Forest Owners Associations) • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Portuguese Association of Forestry, Agriculture and Environment Enterprises (ANEFA) • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Europac & Kraft Viana (paper and packaging industry) • SONAE Industry, Production and Trade of Wood Derivatives • Pulp and Paper Industry Association (CELPA) • Pinus Center, Association for Pine Forest Sector Valorization • Association of Industries of Wood and Furniture of Portugal (AIMMP) • Competitiveness and Technology Center for Forest Industries (AIFF) • Abastena, Wood Supply Company • Unimadeiras, Production, Trade and Forest Exploitation • Portuguese Renewable Energy Association (APREN) • Biomass Centre for Energy (CBE) • Portuguese Association of Biomass Energy Pellets (ANPEB) • APEB, Association of Energy and Biomass Producers (APEB) • Portuguese Energies - Bioelectricity (EDP) • Institute for the Nature Conservation and Forests • Portuguese Association of Municipalities • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Portuguese Beekeeping Federation (FNAP) • Portuguese Hunting Federation (Fencaça) • Portuguese Hunters Confederation (CNCP) • Portuguese Association of Rural Owners, Hunting Management and Biodiversity (ANPC) • Institute for the Nature Conservation and Forests • Directorate General for Food and Veterinary
Wildfires reduction	<ul style="list-style-type: none"> • Forestis, Forest Association of Portugal (Federation of Forest Owners Associations) • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Portuguese Association of Forestry, Agriculture and Environment Enterprises (ANEFA) • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Europac & Kraft Viana (paper and packaging industry) • SONAE Industry, Production and Trade of Wood Derivatives • Pulp and Paper Industry Association (CELPA) • Pinus Center, Association for Pine Forest Sector Valorization • Association of Industries of Wood and Furniture of Portugal (AIMMP) • Competitiveness and Technology Center for Forest Industries (AIFF) • Abastena, Wood Supply Company • Unimadeiras, Production, Trade and Forest Exploitation • Portuguese Renewable Energy Association (APREN) • Biomass Centre for Energy (CBE) • Portuguese Association of Biomass Energy Pellets (ANPEB) • APEB, Association of Energy and Biomass Producers (APEB) • Portuguese Energies - Bioelectricity (EDP) • Institute for the Nature Conservation and Forests • Portuguese company for water supply and wastewater sanitation (AdP) • Portuguese Association of Municipalities • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Portuguese Beekeeping Federation (FNAP) • Portuguese Hunting Federation (Fencaça) • Portuguese Hunters Confederation (CNCP) • Portuguese Association of Rural Owners, Hunting Management and Biodiversity (ANPC) • Institute for the Nature Conservation and Forests • Portuguese National Guard (GNR): Protection of Nature and Environment Service (SEPNA) and Safe and Protection Intervention Group (GIPS)
Soils	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • ZERO, Sustainable Terrestrial System Association • Greenpeace • Directorate General for Energy and Geology • Portuguese Environment Agency • Institute for the Nature Conservation and Forests
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Portuguese Camping and Mountaineering Federation (FCMP) • Portuguese Cycling Federation (UVP) • Portuguese Federation of Cycletourism and Bicycle Users (FPCUB) • Portuguese Motorcycle Federation (FMP) • Portuguese All-Terrain Federation (FPTT) • Portuguese Orienteering Federation (FPO) • Geocaching • Portuguese Beekeeping Federation (FNAP)
Aesthetic values	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace • Portuguese Camping and Mountaineering Federation (FCMP) • Portuguese Cycling Federation (UVP) • Portuguese Federation of Cycletourism and Bicycle Users (FPCUB) • Portuguese Motorcycle Federation (FMP) • Portuguese All-Terrain Federation (FPTT) • Portuguese Orienteering Federation (FPO) • Geocaching
Tourism	<ul style="list-style-type: none"> • Portuguese Association for Tourism (CTP)
Environmental education	<ul style="list-style-type: none"> • Quercus, Portuguese Association for Nature Conservation • World Wildlife Fund (WWF) • Portuguese Society for the Study of Birds (SPEA) • Fund for the Protection of Wild Animals (FAPAS) • Environmental and Land Use Planning Study Group (GEOTA) • Nature Protection League (LPN) • ZERO, Sustainable Terrestrial System Association • Greenpeace • Pulp and Paper Industry Association (CELPA) • Pinus Center, Association for Pine Forest Sector Valorization • Portuguese Environment Agency • Institute for the Nature Conservation and Forests
Research	<ul style="list-style-type: none"> • Forestis, Forest Association of Portugal (Federation of Forest Owners Associations) • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Portuguese Association of Forestry, Agriculture and Environment Enterprises (ANEFA)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Pulp and Paper Industry Association (CELPA) • Pinus Center, Association for Pine Forest Sector Valorization • Association of Industries of Wood and Furniture of Portugal (AIMMP) • Competitiveness and Technology Center for Forest Industries (AIFF) • Biomass Centre for Energy (CBE) • Institute for the Nature Conservation and Forests • Directorate General for Food and Veterinary • Portuguese Environment Agency • Directorate General for Energy and Geology

Appendix 35: Actors in the case study (Vale do Sousa, Portugal)

Stakeholder Category	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name translated into English]
Market actors		
Forest owners	<ul style="list-style-type: none"> • AFVS, Associação Florestal do Vale do Sousa • Proprietários florestais individuais • Floresta Atlântica, Sociedade Gestora de Fundos de Investimento Imobiliário 	<ul style="list-style-type: none"> • Vale do Sousa Forest Owners' Association (AFVS) • Individual, unorganized forest owners • Atlantic Forest Fund, Real Estate Investment Funds Management Company
Timber processing	<ul style="list-style-type: none"> • Serrações de madeira locais e regionais • Madeireiros (madeira e lenha) locais e regionais • Madeicampo, Exploração Florestal • M cruz & Soares, Comerciante de Madeiras e Lenhas • The Navigator Company • Altri Florestal • Unimadeiras, Produção, Comércio e Exploração Florestal • Abastena, Sociedade Abastecedora de Madeiras 	<ul style="list-style-type: none"> • Local and regional sawmills • Local and regional timber and fuelwood companies • Madeicampo, Forest Exploitation • M cruz & Soares, Wood and Firewood Trader • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Unimadeiras, Production, Trade and Forest Exploitation • Abastena, Wood Supply Company
Renewable energy provision	<ul style="list-style-type: none"> • Centrais Regionais Termoeléctricas de Biomassa • Empresas regionais de pellets 	<ul style="list-style-type: none"> • Regional thermoelectric biomass companies • Regional wood pellet companies
Work in forests	<ul style="list-style-type: none"> • Técnicos florestais • Trabalhadores florestais • Empreiteiros florestais 	<ul style="list-style-type: none"> • Forester • Forest workers • Forestry work contractors
Civil Society		
Employment in forests	<ul style="list-style-type: none"> • Técnicos florestais • Trabalhadores florestais • SEETA, Sindicato da Agricultura, Alimentação e Florestas 	<ul style="list-style-type: none"> • Forester • Forest workers • Union of Agriculture, Food and Forestry - regional delegation (SETAA)
Recreation	<ul style="list-style-type: none"> • Caminhantes da natureza • Ciclistas • Ciclistas de montanha (BTT) • Praticantes de motocross • Praticantes de escalada • Praticantes de Rapell 	<ul style="list-style-type: none"> • Individual hikers • Individual bikers • Individual mountain bikers • Individual motor-cross riders • Individual mountain climbing practitioners • Practitioners of rapell

Stakeholder Category	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • Geocachers 	<ul style="list-style-type: none"> • Individual geocachers
	<ul style="list-style-type: none"> • Praticantes de desportos de rio (rafting, hidrospeed, canoagem) • Amigos do Pedal Lagares Clube (Penafiel) • Associação Cultural Recreativa e Desportiva Sódscidas (Penafiel) • Associação Desportiva BTENROS (Penafiel) • Associação Desportiva Recreativa Ases de Penafiel • Associação Penafiel Bike Clube • BTT Castro Mozinho (Penafiel) • Clube BTT Penafiel • Clube Penatrilhos Associação Desportiva (Penafiel) • Clube TT Paredes • Extreme Clube Lagares (Penafiel) • J.R.C. Power (Castelo de Paiva) • Apicultores 	<ul style="list-style-type: none"> • River sports (rafting, hidrospeed, canoeing) • Friends of Pedal Lagares Club (Penafiel) • Sódscidas" Sports Cultural Association " (Penafiel) • "BTENROS" Sports Association (Penafiel) • "Ases" Penafiel Sports Association • Penafiel Bike Association • Castro Mozinho Mountain Bikers Association (Penafiel) • Penafiel Mountain Bikers Association • Penatrilhos Sports Association (Penafiel) • All-terrain Sports Association (Paredes) • Lagares motor-cross riders Association • J.R.C. Power (Castelo de Paiva) • Beekeepers
Hunting and Fishing	<ul style="list-style-type: none"> • Caçadores • Pescadores (águas interiores) • Clube de Caça e Pesca do Vale do Sousa (Paredes) • Clube de Caça e Pesca de Paredes • Clube de Caçadores de Rebordosa (Paredes) • Associação de Caçadores do Vale do Tâmega (Penafiel) • Clube de Caçadores de Canelas (Penafiel) • Clube de Caçadores de Rio de Moinhos (Penafiel) • Associação de Caçadores e Pescadores da Serra da Boneca (Penafiel) • Clube de Pesca e Caça de Penafiel • Associação Pesca Desportiva Amigos do Douro (Penafiel) • Clube de Caça e Pesca de Castelo de Paiva 	<ul style="list-style-type: none"> • Hunters • Fishermen (rivers) • Sousa Valley Hunting and Fishing Association (Paredes) • Paredes Hunting and Fishing Association • Rebordosa Hunting Association (Paredes) • Vale do Tâmega Hunting Association (Penafiel) • Canelas Hunting Association (Penafiel) • Rio de Moinhos Hunting Association (Penafiel) • Serra da Boneca Hunting and Fishing Association (Penafiel) • Penafiel Hunting and Fishing Association • "Friends of Douro River" Fishing Association (Penafiel) • Castelo de Paiva Hunting and Fishing Association

Stakeholder Category	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name translated into English]
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> S.O.S. Rio Paiva, Associação de Defesa do Vale do Paiva 	<ul style="list-style-type: none"> S.O.S. Paiva River, Paiva Valley Environmental Association
	<ul style="list-style-type: none"> Organização Ambientalista "Campo Aberto" Quercus, Associação Nacional da Conservação da Natureza - Núcleo Regional do Porto 	<ul style="list-style-type: none"> "Campo Aberto" Environmental Association Quercus, National Association for Nature Conservation - Regional Delegation
Governmental-Actors		
Forest management	<ul style="list-style-type: none"> ICNF, Instituto da Conservação da Natureza e das Florestas - Departamento de Conservação da Natureza e Florestas do Norte CCDRN, Centro de Coordenação e Desenvolvimento Regional do Norte Câmara Municipal de Penafiel Câmara Municipal de Paredes Câmara Municipal de Castelo de Paiva Junta de Freguesia de Lagares Junta de Freguesia de Sobreira 	<ul style="list-style-type: none"> Institute for the Nature Conservation and Forests - North Regional Department (ICNF) North Regional Coordination and Development Commission (CCDRN) Municipality of Penafiel Municipality of Paredes Municipality of Castelo de Paiva Lagares Parish Council Sobreira Parish Council
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> ICNF, Instituto da Conservação da Natureza e das Florestas - Departamento de Conservação da Natureza e Florestas do Norte 	<ul style="list-style-type: none"> Institute for the Nature Conservation and Forests - North Regional Department (ICNF)
Water provision	<ul style="list-style-type: none"> Águas do Norte Be Water, Águas de Paredes 	<ul style="list-style-type: none"> North Water Supply System Paredes Water Supply System

Appendix 36: Actors in the case study/Contacts (Vale do Sousa, Portugal)

Identified Stakeholder (Organizations) [Name translated into English]	Website or physical address/contact
Market actors	
<ul style="list-style-type: none"> Vale do Sousa Forest Owners' Association (AFVS) Atlantic Forest Fund, Real Estate Investment Funds Management Company 	<ul style="list-style-type: none"> www.afvs.ws www.floresta-atlantica.pt
<ul style="list-style-type: none"> The Navigator Company (pulp and paper industry) Altri Forest (pulp and paper industry) Madeicampo, Forest Exploitation Abastena, Wood Supply Company Unimadeiras, Production, Trade and Forest Exploitation 	<ul style="list-style-type: none"> www.thenavigatorcompany.com www.altri.pt www.madeicampo.com www.abastena.pt http://unimadeiras.pt
Civil Society	
<ul style="list-style-type: none"> Union of Agriculture, Food and Forestry - regional delegation (SETAA) 	<ul style="list-style-type: none"> www.setaa.pt
<ul style="list-style-type: none"> Lagares motor-cross riders Association Friends of Pedal Lagares Club (Penafiel) Sódescidas" Sports Cultural Association " (Penafiel) "BTENROS" Sports Association (Penafiel) Penafiel Bike Association Penafiel Mountain Bikers Association Penatrilhos Sports Association (Penafiel) All-terrain Sports Association (Paredes) 	<ul style="list-style-type: none"> www.extremelagares.com http://amigosdopedal.net http://sodescidas.blogspot.pt/ https://btenros.wordpress.com www.penafielbikeclube.pt www.clubebttpenafiel.pt www.penatrilhos.com www.clubettparedes.com
<ul style="list-style-type: none"> Sousa Valley Hunting and Fishing Association Vale do Tâmega Hunting Association (Penafiel) 	<ul style="list-style-type: none"> http://ccpvalesousa.blogspot.pt http://acvt.weebly.com/
<ul style="list-style-type: none"> S.O.S. Paiva River, Paiva Valley Environmental Association Environmental Association "Open Field" Quercus, National Association for Nature Conservation - Regional Delegation 	<ul style="list-style-type: none"> www.riopaiva.org www.campoaberto.pt www.quercus.pt
Governmental actors	
<ul style="list-style-type: none"> Institute for the Nature Conservation and Forests - North Regional Department (ICNF) CCDRN, North Regional Coordination and Development Commission Municipality of Penafiel 	<ul style="list-style-type: none"> www.icnf.pt www.ccdr-n.pt www.cm-penafiel.pt

Identified Stakeholder (Organizations) [Name translated into English]	Website or physical address/contact
<ul style="list-style-type: none"> • Municipality of Paredes 	<ul style="list-style-type: none"> • www.cm-paredes.pt
<ul style="list-style-type: none"> • Municipality of Castelo de Paiva 	<ul style="list-style-type: none"> • www.cm-castelo-paiva.pt
<ul style="list-style-type: none"> • North Water Supply System • Paredes Water Supply System 	<ul style="list-style-type: none"> • www.adnorte.pt • www.paredes-bewater.com.pt



Appendix 37: Actors in the case study interested in different ecosystem services (Vale do Sousa, Portugal)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Vale do Sousa Forest Owners' Association (AFVS) • Individual, unorganized forest owners • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Local and regional sawmills • Local and regional timber and fuelwood companies • Madeicampo, Forest Exploitation • M cruz & Soares, Wood and Firewood Trader • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Unimadeiras, Production, Trade and Forest Exploitation • Abastena, Wood Supply Company • Regional thermoelectric biomass companies • Regional wood pellet companies • Forester • Forest workers • Forestry work contractors • Union of Agriculture, Food and Forestry - regional delegation (SETAA) • Municipality of Penafiel • Municipality of Paredes • Municipality of Castelo de Paiva • Lagares Parish Council • Sobreira Parish Council • Institute for the Nature Conservation and Forests - Regional Department (ICNF) • North Regional Coordination and Development Commission (CCDRN)
Mushrooms	<ul style="list-style-type: none"> • Vale do Sousa Forest Owners' Association (AFVS) • Individual, unorganized forest owners • Quercus, National Association for Nature Conservation - Regional Delegation
Game	<ul style="list-style-type: none"> • Hunters • Sousa Valley Hunting and Fishing Association (Paredes) • Paredes Hunting and Fishing Association • Rebordosa Hunting Association (Paredes) • Vale do Tâmega Hunting Association (Penafiel) • Canelas Hunting Association (Penafiel) • Rio de Moinhos Hunting Association (Penafiel) • Serra da Boneca Hunting and Fishing Association (Penafiel) • Penafiel Hunting and Fishing Association • Castelo de Paiva Hunting and Fishing Association
Medical plants	<ul style="list-style-type: none"> • Sousa Valley Forest Owners Association • Individual, unorganized forest owners • Quercus, National Association for Nature Conservation - Regional Delegation

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Fish	<ul style="list-style-type: none"> • Fishermen (rivers) • Sousa Valley Hunting and Fishing Association (Paredes) • Paredes Hunting and Fishing Association • Serra da Boneca Hunting and Fishing Association (Penafiel) • Penafiel Hunting and Fishing Association • "Friends of Douro River" Fishing Association (Penafiel) • Castelo de Paiva Hunting and Fishing Association
Honey	<ul style="list-style-type: none"> • Sousa Valley Forest Owners Association • Individual, unorganized forest owners
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association • Quercus, National Association for Nature Conservation - Regional Delegation • Institute for the Nature Conservation and Forests - Regional Department (ICNF)
Habitat for species	<ul style="list-style-type: none"> • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association • Quercus, National Association for Nature Conservation - Regional Delegation • Institute for the Nature Conservation and Forests - Regional Department (ICNF)
Other(s)	<ul style="list-style-type: none"> •
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association • Quercus, National Association for Nature Conservation - Regional Delegation • ICNF, Institute for the Nature Conservation and Forests - Regional Department
Climate regulation	<ul style="list-style-type: none"> • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association • Quercus, National Association for Nature Conservation - Regional Delegation • ICNF, Institute for the Nature Conservation and Forests - Regional Department
Water quality	<ul style="list-style-type: none"> • North Water Supply System • Paredes Water Supply System • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association • Quercus, National Association for Nature Conservation - Regional Delegation • ICNF, Institute for the Nature Conservation and Forests - Regional Department
Pest control	<ul style="list-style-type: none"> • Vale do Sousa Forest Owners' Association (AFVS) • Individual, unorganized forest owners • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Local and regional sawmills • Local and regional timber and fuelwood companies • Madeicampo, Forest Exploitation • Macruz & Soares, Wood and Firewood Trader • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry)

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • Unimadeiras, Production, Trade and Forest Exploitation • Abastena, Wood Supply Company • Regional thermoelectric biomass companies • Regional wood pellet companies • Forester • Forest workers • Forestry work contractors • Municipality of Penafiel • Municipality of Paredes • Municipality of Castelo de Paiva • Lagares Parish Council • Sobreira Parish Council • Institute for the Nature Conservation and Forests - Regional Department (ICNF) • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association • Quercus, National Association for Nature Conservation - Regional Delegation
Forest fires	<ul style="list-style-type: none"> • Vale do Sousa Forest Owners' Association (AFVS) • Individual, unorganized forest owners • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Local and regional sawmills • Local and regional timber and fuelwood companies • Madeicampo, Forest Exploitation • Macruz & Soares, Wood and Firewood Trader • The Navigator Company (pulp and paper industry) • Altri Forest (pulp and paper industry) • Unimadeiras, Production, Trade and Forest Exploitation • Abastena, Wood Supply Company • Regional thermoelectric biomass companies • Regional wood pellet companies • Forester • Forest workers • Forestry work contractors • Municipality of Penafiel • Municipality of Paredes • Municipality of Castelo de Paiva • Lagares Parish Council • Sobreira Parish Council • Institute for the Nature Conservation and Forests - Regional Department (ICNF) • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association • Quercus, National Association for Nature Conservation - Regional Delegation
Soils	<ul style="list-style-type: none"> • Institute for the Nature Conservation and Forests - Regional Department (ICNF) • Municipality of Penafiel • Municipality of Paredes • Municipality of Castelo de Paiva
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Individual hikers • Individual bikers

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • Individual mountain bikers • Individual motor-cross riders • Individual mountain climbing practitioners • Practitioners of rapell • Individual geocachers • River sports (rafting, hidrospeed, canoeing) • Friends of Pedal Lagares Club (Penafiel) • Sódescidas" Sports Cultural Association " (Penafiel) • "BTENROS" Sports Association (Penafiel) • "Ases"Penafiel Sports Association • Penafiel Bike Association • Castro Mozinho Mountain Bikers Association (Penafiel) • Penafiel Mountain Bikers Association • Penatrilhos Sports Association (Penafiel) • All-terrain Sports Association (Paredes) • Lagares motor-cross riders Association • J.R.C. Power (Castelo de Paiva) • Beekeepers
Aesthetic values	<ul style="list-style-type: none"> • Vale do Sousa Forest Owners' Association (AFVS) • Individual hikers • Individual bikers • Individual mountain bikers • Individual motor-cross riders • Individual mountain climbing practitioners • Practitioners of rapell • Individual geocachers • River sports (rafting, hidrospeed, canoeing) • Friends of Pedal Lagares Club (Penafiel) • Sódescidas" Sports Cultural Association " (Penafiel) • "BTENROS" Sports Association (Penafiel) • "Ases"Penafiel Sports Association • Penafiel Bike Association • Castro Mozinho Mountain Bikers Association (Penafiel) • Penafiel Mountain Bikers Association • Penatrilhos Sports Association (Penafiel) • All-terrain Sports Association (Paredes) • Lagares motor-cross riders Association • J.R.C. Power (Castelo de Paiva) • Beekeepers
Tourism	<ul style="list-style-type: none"> • Municipality of Penafiel • Municipality of Paredes • Municipality of Castelo de Paiva • Lagares Parish Council
Environmental education	<ul style="list-style-type: none"> • Sousa Valley Forest Owners Association • Municipality of Penafiel • Municipality of Paredes • Municipality of Castelo de Paiva • S.O.S. Paiva River, Paiva Valley Environmental Association • "Campo Aberto" Environmental Association

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
	<ul style="list-style-type: none"> • Quercus, National Association for Nature Conservation - Regional Delegation
Research	<ul style="list-style-type: none"> • Sousa Valley Forest Owners Association • The Navigator Company • Altri Forest • Atlantic Forest Fund, Real Estate Investment Funds Management Company • Unimadeiras, Production, Trade and Forest Exploitation • Abastena, Wood Supply Company

Appendix 38: Market & civil society actors in Slovak forest politics (national level)

Identified actors (organizations) [in country language]	Identified actors (organizations) [English translation]	Website
Market & Civil Society actors		
<p>Forestry</p> <ul style="list-style-type: none"> Slovenská lesnícka komora Rada združení vlastníkov neštátnych lesov Slovenska Združenie obecných lesov Slovenskej republiky Únia regionálnych vlastníkov neštátnych lesov Slovenska Únia diecéznych lesov <p>Timber trade and processing</p> <ul style="list-style-type: none"> Zväz spracovateľov dreva SR Zväz celulózo-papierenského priemyslu Slovenskej republiky <p>Certification</p> <ul style="list-style-type: none"> PEFC Slovensko FSC <p>Hunting, Fishing</p> <ul style="list-style-type: none"> Slovenská poľovnícka komora Slovenský poľovnícky zväz Slovenský rybársky zväz <p>Agriculture</p> <ul style="list-style-type: none"> Zväz poľnohospodárskych družstiev a obchodných spoločností SR Slovenská poľnohospodárska a potravinárska komora <p>Tourism, recreation</p> <ul style="list-style-type: none"> Zväz cestovného ruchu SR Zväz hotelov a reštaurácií Slovenskej Republiky Klub slovenských turistov Slovenský cykloklub <p>Water</p>	<ul style="list-style-type: none"> Slovak Forestry Chamber Council of Non-state Forest Owners Associations in Slovakia Association of Municipal Forests in Slovakia Union of Regional Non-state Forest Owners in Slovakia Union of diocesan forests in Slovakia Slovak Association of Wood Processors Pulp and Paper Industry Federation of Slovak Republic PEFC Slovakia FSC Slovak Hunters Chamber Slovak Hunting Union Slovak Fishing Association Slovak association of agricultural cooperatives and companies Slovak Agriculture and Food Chamber Slovak Association of Tourism Slovak Association of Hotels and Restaurants Slovak Club of Tourists Slovak Bicycle Club 	<ul style="list-style-type: none"> http://www.slsk.sk/ No web http://www.zolsr.sk/ http://privlesy.sk/ http://www.propopulo-poprad.sk/ http://www.zdsr.sk/ http://www.paper.sk http://www.pefc.sk/ https://ic.fsc.org/en http://www.polovnickakomora.sk/ http://www.polovnictvo.sk/ http://www.srzrada.sk/ http://www.zpd.sk/ http://www.sppk.sk/index.php?start http://www.zcrsr.sk/ http://www.zhrs.sk/ http://www.kst.sk/ http://www.cykloklub.sk/

<ul style="list-style-type: none"> Slovenský výbor pre hydrológiu Asociácia vodárenských spoločností Slovenský priehradný výbor <p>Cultural</p> <ul style="list-style-type: none"> UNESCO <p>Employment</p> <ul style="list-style-type: none"> Republiková únia zamestnávateľov Odborový zväz DREVO, LESY VODA <p>Environmental, nature, and landscape conservation</p> <ul style="list-style-type: none"> WWF Slovakia Greenpeace Slovensko Slovak Committee for the UNESCO Man and Biosphere Programme (MAB) and Biosphere Reserves in Slovakia Medzinárodná únia na ochranu prírody a prírodných zdrojov Ochrana dravcov na Slovensku, občianske združenie Slovenská ornitologická spoločnosť / BirdLife Slovensko Lesoochránárske zoskupenie VLK RIEKA – občianske združenie na ochranu vodných tokov Iniciatíva Za Živé rieky PRALES, občianske združenie EKO budúcnosť, občianske združenie Spoločnosť pre ochranu netopierov na Slovensku DAPHNE – Inštitút aplikovanej ekológie 	<ul style="list-style-type: none"> Slovak Committee for Hydrology Association of Water Companies Slovak National Committee on Large Dams UNESCO National Union of Employers Trade Union WOOD, FORESTS, WATER WWF Slovakia Greenpeace Slovakia Slovak Committee for the UNESCO Man and Biosphere Programme (MAB) and Biosphere Reserves in Slovakia International Union for Conservation of Nature Raptor protection of Slovakia Slovak ornithological Society/BirdLife Slovakia Wolf Forest Protection Movement RIEKA – civil society for water course protection Initiative live river PRALES, civil society EKO future Slovak Society for Protection of Bats DAPHNE 	<ul style="list-style-type: none"> http://www.ih.savba.sk/ihp/main-page.html http://www.avssr.sk/ http://www.skcold.sk/ UNESCO http://www.ruzsr.sk/ http://www.ozdlv.sk/ http://slovakia.panda.org/ http://www.greenpeace.org/slovakia/sk/ http://www.unesco.org/new/en/natural-sciences/environment/ecological-sciences/biosphere-reserves/europe-north-america/slovakia/mab-national-committeeslovakia/ https://www.iucn.org/ http://www.dravce.sk/ http://www.vtaky.sk/ http://www.wolf.sk/ http://www.ozrieka.sk/ http://ziverieky.sk/ http://www.oz-prales.com/ http://eko-buducnost.sk/ http://www.netopiere.sk/ http://www.daphne.sk/
Businesses		
<p>Water provision</p> <ul style="list-style-type: none"> Veolia Voda Slovensko <p>Renewable energy regeneration</p> <ul style="list-style-type: none"> Slovenské elektrárne, a.s. 	<ul style="list-style-type: none"> Veolia Water Slovakia Slovak power plants 	<ul style="list-style-type: none"> http://www.veolia.sk/o-nas/veolia-v-slovenskej-republike/veolia-voda https://www.seas.sk/

Appendix 39: Governmental actors in Slovak forest politics (national level)

Identified actors (organiza- tions) [in country language]	Identified actors (organ- izations) [English translation]	Website	
Government			
<ul style="list-style-type: none"> Ministerstvo pôdohospodárstva a rozvoja vidieka Slovenskej republiky Ministerstvo životného prostredia Slovenskej republiky Ministerstvo obrany Slovenskej republiky Ministerstvo vnútra Slovenskej republiky Ministerstvo financií Slovenskej republiky Ministerstvo hospodárstva Slovenskej republiky Ministerstvo školstva, vedy, výskumu a športu Slovenskej republiky 	<ul style="list-style-type: none"> Ministry of Agriculture and Rural Development of the SR Ministry of Environment of the SR Ministry of Defense of the SR Ministry of Interior of the SR Ministry of Finance of the SR Ministry of Economy of SR Ministry of Education, Science, Research and Sport of the SR 	<ul style="list-style-type: none"> http://www.mpsr.sk/ http://www.minzp.sk/ http://www.mosr.sk/ http://www.minv.sk/ http://www.finance.gov.sk/ http://www.economy.gov.sk/ https://www.minedu.sk/ 	<ul style="list-style-type: none">
Governmental organisations			
<p>Forestry</p> <ul style="list-style-type: none"> LESY Slovenskej republiky, š.p. Vojenské lesy a majetky SR, š.p. Štátne lesy TANAPu <p>Environmental</p> <ul style="list-style-type: none"> Štátna ochrana prírody Slovenskej republiky Slovenská agentúra životného prostredia Slovenská inšpekcia životného prostredia Environmentálny fond <p>Other</p> <ul style="list-style-type: none"> Národné lesnícke centrum Technická univerzita vo Zvolene 	<ul style="list-style-type: none"> State-owned enterprise Forests of the SR Military Forests and Estates of the SR TANAP State Forests State Nature Protection of Slovak Republic Slovak Environmental Agency Slovak Environmental Inspection Environmental fund National Forest Centre 	<ul style="list-style-type: none"> http://www.lesy.sk www.vlm.sk http://www.lesytanap.sk http://www.sopsr.sk http://www.sazp.sk http://www.sizp.sk/ http://www.envirofond.sk/ http://www.nlcsk.sk www.tuzvo.sk http://www.sacr.sk http://www.svp.sk http://www.vvb.sk/ 	

<ul style="list-style-type: none"> • Slovenská agentúra pre cestovný ruch • Slovenský vodohospodársky podnik, š.p. • Vodohospodárska výstavba, š.p. • Štátna veterinárna a potravinová správa Slovenskej republiky • Slovenský plynárenský priemysel 	<ul style="list-style-type: none"> • Technical University in Zvolen • Slovak Tourist Board • Slovak Water Management Company, SOE • Water construction, SOE • State Veterinary and Food Administration of the Slovak Republic • Slovak Gas Industry 	<ul style="list-style-type: none"> • http://www.svps.sk/ • www.spp.sk 	
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Appendix 40: Interests in different ES in SR (national level)

Interest in ecosystem services	Identified actors (organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Ministry of Agriculture and Rural Development of the SR • Ministry of Interior of the SR • Ministry of Finance of the SR • State enterprise Forests of the SR • Ministry of Defence of the SR • Ministry of Economy of the SR • State-owned enterprise Forests of the SR • Military Forests and Estates of the SR • TANAP State Forests • Council of Non-state Forest Owners Associations in Slovakia • Association of Municipal Forests in Slovakia • Union of Regional Non-state Forest Owners in Slovakia • Union of diocesan forests in Slovakia • Slovak Association of Wood Processors • Pulp and Paper Industry Federation of Slovak Republic • Slovak Forestry Chamber • Trade Union WOOD, FORESTS, WATER • PEFC Slovakia • FSC
Mushrooms, Berries	<ul style="list-style-type: none"> • Slovak Club of Tourists
Game, Fish	<ul style="list-style-type: none"> • Ministry of Agriculture and Rural Development of the SR • Ministry of Interior of the SR • State-owned enterprise Forests of the SR • Military Forests and Estates of the SR • TANAP State Forests • Slovak Hunters Chamber • Slovak Hunting Union • Slovak Fishing Association • State Veterinary and Food Administration of the Slovak Republic
Food	<ul style="list-style-type: none"> • Slovak association of agricultural cooperatives and companies • Slovak Agriculture and Food Chamber
Medical plants	-
Other(s)	-
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • Ministry of Environment of the SR • Slovak Environmental Agency • State Nature Protection of SR • State-owned enterprise Forests of the SR • Military Forests and Estates of the SR • TANAP State Forests

	<ul style="list-style-type: none"> • WWF Slovakia • Greenpeace Slovakia • Slovak Committee for the UNESCO Man and Biosphere Programme (MAB) and Biosphere Reserves in Slovakia • International Union for Conservation of Nature • Raptor protection of Slovakia • Slovak ornithological Society/BirdLife Slovakia • Wolf Forest Protection Movement • RIEKA – civil society for water course protection • Initiative live river • PRALES, civil society • EKO future • Slovak Society for Protection of Bats • DAPHNE • PEFC Slovakia
Habitat for species	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR • Military Forests and Estates of the SR • TANAP State Forests • Raptor protection of Slovakia • Slovak ornithological Society/BirdLife Slovakia • Wolf Forest Protection Movement • Slovak Society for Protection of Bats • PRALES, civil society • PEFC Slovakia
Other(s)	-
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR • Military Forests and Estates of the SR • TANAP State Forests • WWF Slovakia • Greenpeace Slovakia • PEFC Slovakia
Climate regulation	<ul style="list-style-type: none"> • Ministry of Environment of the SR • State-owned enterprise Forests of the SR • Ministry of Economy of the SR • Slovak Environmental Agency • WWF Slovakia • Greenpeace Slovakia •
Water quality	<ul style="list-style-type: none"> • Ministry of Environment of the SR • Ministry of Agriculture and Rural Development of the SR • State-owned enterprise Slovak Water Management Company • Veolia Water Slovakia • Slovak Environmental Agency • State-owned enterprise Forests of the SR • Military Forests and Estates of the SR • TANAP State Forests • Slovak Committee for Hydrology • Association of Water Companies

	<ul style="list-style-type: none"> • Slovak National Committee on Large Dams • Slovak Fishing Association • RIEKA – civil society for water course protection • Initiative live river
Pest control	<ul style="list-style-type: none"> • National Forest Centre • State-owned enterprise Forests of the SR • State Nature Protection of Slovak Republic • Slovak Environmental Agency • Slovak Environmental Inspection • State Veterinary and Food Administration of the SR
Other(s)	-
<i>Cultural services</i>	
Outdoor recreation	<ul style="list-style-type: none"> • Slovak Club of Tourists • Slovak Bicycle Club
Aesthetic values	<ul style="list-style-type: none"> • Slovak Tourist Board • Slovak Association of Tourism • Slovak Club of Tourists • Slovak Bicycle Club • UNESCO
Tourism	<ul style="list-style-type: none"> • Slovak Tourist Board • Slovak Association of Tourism • Slovak Association of Hotels and Restaurants
Cultural and national heritage	<ul style="list-style-type: none"> • UNESCO • Ministry of Culture of the SR • State enterprise Forests of the SR
Research in Forestry	<ul style="list-style-type: none"> • National Forest Centre • Technical University in Zvolen
Education in Forestry	<ul style="list-style-type: none"> • Ministry of Education, Science, Research and Sport of the SR • Technical University in Zvolen
Other(s)	-

Appendix 41: Actors in CSA Podpoľanie

Stakeholder Category	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name translated into English]
Market & Civil Society actors		
Forest owners	<ul style="list-style-type: none"> Združenie vlastníkov spoločenských a súkromných lesov BB kraja Spoločnosť a súkromné lesy, ktoré nie sú v združeniach 	<ul style="list-style-type: none"> Association of Community and Private Forests in Banská Bystrica Region Community and Private Forests that aren't grouped in Associations
Recreation	<ul style="list-style-type: none"> Klub slovenských turistov <ul style="list-style-type: none"> KST Detva KST Hriňová Cykloklub Poľana 	<ul style="list-style-type: none"> Slovak Club of Tourists (SCT) <ul style="list-style-type: none"> SCT Detva SCT Hriňová Cycling Club Poľana
Hunting	<ul style="list-style-type: none"> Slovenská poľovnícka komora <ul style="list-style-type: none"> Obvodná poľovnícka komora Zvolen Obvodná poľovnícka komora Detva Obvodná poľovnícka komora Banská Bystrica Slovenský poľovnícky zväz <ul style="list-style-type: none"> Okresná organizácia Slovenského poľovníckeho zväzu vo Zvolene Okresná organizácia Slovenského poľovníckeho zväzu v Detve Okresná organizácia Slovenského poľovníckeho zväzu v Banskej Bystrici Lokálne poľovné združenia 	<ul style="list-style-type: none"> Slovak Hunters Chamber <ul style="list-style-type: none"> Hunter Chamber District Zvolen Hunter Chamber District Detva Hunter Chamber District Banská Bystrica Slovak Hunting Union (SHU) <ul style="list-style-type: none"> District organization of SHU in Zvolen District organization of SHU in Detva District organization of SHU in Banská Bystrica Local Hunting Associations
Fishing	<ul style="list-style-type: none"> Slovenský rybársky zväz <ul style="list-style-type: none"> Mestská organizácia SRZ Zvolen Mestská organizácia SRZ Banská Bystrica Mestská organizácia SRZ Lučenec 	<ul style="list-style-type: none"> Slovak Fishing Association (SFA) <ul style="list-style-type: none"> City organization of SFA in Zvolen City organization of SFA in Banská Bystrica City organization of SFA in Lučenec
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> Priatel'ia Zeme - CEPA Podpoľanie nad zlato, OZ Združenie Slatinka Občianske združenie PRONATUR 	<ul style="list-style-type: none"> Earth friends – CEPA Podpoľanie over Gold Association Slatinka Civic Association PRONATUR
Other	<ul style="list-style-type: none"> Podpoľanie, OZ Miestna akčná skupina (MAS) Podpoľanie Miestna akčná skupina (MAS) Hornohrad (rozvoj, ochrana prírody) Partnerstvo pre rozvoj regiónu Poltár Koordinačné združenie miest a obcí mikroregiónu Podpoľanie 	<ul style="list-style-type: none"> Podpoľanie, Civic Association Local Action Group Podpoľanie Local Action Group Hornohrad Partnership for development of the region Poltár Coordination Association of Municipalities in Micro-Region Podpoľanie
Businesses		
Timber processing	<ul style="list-style-type: none"> Lokálne pily a obchodné spoločnosti s drevom 	<ul style="list-style-type: none"> Local sawmills and timber trade companies

Renewable energy provision	<ul style="list-style-type: none"> • AGROSEV, s.r.o. 	<ul style="list-style-type: none"> • AGROSEV, LTD.
Water provision	<ul style="list-style-type: none"> • Stredoslovenská vodárenská prevádzková spoločnosť, a.s. 	<ul style="list-style-type: none"> • Central-Slovakia Water Operating Company, Inc.
Government and Governmental organizations		
Forest management	<ul style="list-style-type: none"> • Odštepny závod Kriváň, LESY SR, š.p. • Pozemkový a lesný odbor <ul style="list-style-type: none"> ○ Okresný úrad Zvolen ○ Okresný úrad Lučenec 	<ul style="list-style-type: none"> • State enterprise Forests of the Slovak Republic, Branch Kriváň • Cadastral and forest division <ul style="list-style-type: none"> ○ District authorities Zvolen ○ District authorities Lučenec
Environmental, nature, and landscape conservation	<ul style="list-style-type: none"> • Správa CHKO Poľana 	<ul style="list-style-type: none"> • Protected Landscape Area Poľana - the Poľana Biosphere Reserve
Water provision	<ul style="list-style-type: none"> • Slovenský vodohospodársky podnik, š.p., Odštepny závod Banská Bystrica, 	<ul style="list-style-type: none"> • State-owned enterprise Slovak Water Management Company, Branch Banská Bystrica
Pest control	<ul style="list-style-type: none"> • Regionálna veterinárna a potravinová správa (RVPS) <ul style="list-style-type: none"> ○ RVPS Zvolen ○ RVPS Lučenec 	<ul style="list-style-type: none"> • Regional Veterinary and Food Administration (RVFA) <ul style="list-style-type: none"> ○ RVFA Zvolen ○ RVFA Lučenec
Cultural	<ul style="list-style-type: none"> • Podpolianske múzeum Detva 	<ul style="list-style-type: none"> • Museum in Detva

Appendix 42: Actors in CSA Podpoľanie (Contacts)

Identified Stakeholder (Organizations) [Name translated into English]	Website
Market & Civil Society actors	
<ul style="list-style-type: none"> Association of Community and Private Forests in Banská Bystrica County 	<ul style="list-style-type: none"> http://www.zvsaslbbk.sk/
<ul style="list-style-type: none"> Community and Private Forests that aren't grouped in Associations 	<ul style="list-style-type: none"> No web due lot of involved organisations and persons
<ul style="list-style-type: none"> Slovak Club of Tourists (SCT) <ul style="list-style-type: none"> SCT Detva SCT Hriňová 	<ul style="list-style-type: none"> http://www.kst.sk/
<ul style="list-style-type: none"> Cycling Club Poľana 	<ul style="list-style-type: none"> http://www.cyklo.sk/
<ul style="list-style-type: none"> Slovak Hunters Chamber <ul style="list-style-type: none"> Hunter Chamber District Zvolen Hunter Chamber District Detva Hunter Chamber District Banská Bystrica 	<ul style="list-style-type: none"> http://www.opkzvolen.sk/ http://www.opkdt.sk http://www.polovnickakomora.sk/spk/kontakty/kraj-bb/opk-bb/4-opk-banska-bystrica.html
<ul style="list-style-type: none"> Slovak Hunting Union (SHU) <ul style="list-style-type: none"> District organization of SHU in Zvolen District organization of SHU in Detva District organization of SHU in Banská Bystrica 	<ul style="list-style-type: none"> http://www.spzsv.sk/ http://spz.polovnictvo.sk/kontakty/oko-rgo http://spz.polovnictvo.sk/kontakty/oko-rgo
<ul style="list-style-type: none"> Local Hunting Associations 	<ul style="list-style-type: none"> No web due lot of local associations and organisations. Most of them don't have website.
<ul style="list-style-type: none"> Slovak Fishing Association (SFA) <ul style="list-style-type: none"> City organization of SFA in Zvolen City organization of SFA in Banská Bystrica City organization of SFA in Lučenec 	<ul style="list-style-type: none"> http://www.srz-zvolen.sk/ http://www.rybybb.sk/ http://www.rybarstvonovohradu.sk/
<ul style="list-style-type: none"> Slovak association of agricultural cooperatives and companies 	<ul style="list-style-type: none">
<ul style="list-style-type: none"> Slovak Agriculture and Food Chamber (SAFCh) <ul style="list-style-type: none"> SAFCh Zvolen SAFCh Lučenec 	<ul style="list-style-type: none">
<ul style="list-style-type: none"> Earth friends – CEPA 	<ul style="list-style-type: none"> http://cepa.priateliazeme.sk/
<ul style="list-style-type: none"> Podpoľanie over Gold 	<ul style="list-style-type: none"> http://www.podpolanienadzlato.sk/
<ul style="list-style-type: none"> Association Slatinka 	<ul style="list-style-type: none"> http://www.slatinka.sk/
<ul style="list-style-type: none"> Civic Association PRONATUR 	<ul style="list-style-type: none"> http://www.ozpronatur.sk/sk/
<ul style="list-style-type: none"> Podpoľanie, Civic Association 	<ul style="list-style-type: none"> www.podpolanou.sk/
<ul style="list-style-type: none"> Local Action Group Podpoľanie 	<ul style="list-style-type: none"> www.podpolanou.sk/
<ul style="list-style-type: none"> Local Action Group Hornohrad 	<ul style="list-style-type: none"> http://www.mashornohrad.sk/
<ul style="list-style-type: none"> Partnership for development of the region Poltár 	<ul style="list-style-type: none"> http://www.ptpartnerstvo.sk/
<ul style="list-style-type: none"> Coordination Association of Municipalities in Micro-Region Podpoľanie 	<ul style="list-style-type: none"> http://www.detva.sk/?id_menu=63793
Businesses	

<ul style="list-style-type: none"> Local sawmills and timber trade companies 	<ul style="list-style-type: none"> No web due different companies
<ul style="list-style-type: none"> Local agricultural companies 	<ul style="list-style-type: none"> No web due different companies
<ul style="list-style-type: none"> AGROSEV, LTD. 	<ul style="list-style-type: none"> http://www.agrosev.sk/
<ul style="list-style-type: none"> Central-Slovakia Water Operating Company, Inc. 	<ul style="list-style-type: none"> http://www.stvps.sk/
<ul style="list-style-type: none"> Gold mining company 	<ul style="list-style-type: none"> http://www.emed-mining.com/
Government and governmental organizations	
<ul style="list-style-type: none"> State-owned enterprise Forests of the SR, Branch Kriváň 	<ul style="list-style-type: none"> http://www.lesy.sk/showdoc.do?docid=223&id=18
<ul style="list-style-type: none"> Cadastral and forest division <ul style="list-style-type: none"> District authorities Zvolen District authorities Lučenec 	<ul style="list-style-type: none"> http://www.minv.sk/?pozemkovy-a-lesny-odbor-50 http://www.minv.sk/?pozemkovy-a-lesny-odbor-53
<ul style="list-style-type: none"> Protected Landscape Area Poľana - the Poľana Biosphere Reserve 	<ul style="list-style-type: none"> http://www.chkopolana.eu/
<ul style="list-style-type: none"> State-owned enterprise Slovak Water Management Company, Branch Banská Bystrica 	<ul style="list-style-type: none"> http://www.svp.sk/hron/
<ul style="list-style-type: none"> Regional Veterinary and Food Administration (RVFA) <ul style="list-style-type: none"> RVFA Zvolen RVFA Lučenec 	<ul style="list-style-type: none"> http://www.svps.sk/zakladne_info/rvps18.asp http://www.svps.sk/zakladne_info/rvps20.asp
<ul style="list-style-type: none"> Museum in Detva 	<p>No official web site; info can be found on: http://www.kcdetva.sk/sk/Category/19/Category/23/Podpolianske%20m%C3%BAzeum.proxia</p>

Appendix 43: Actors in CSA *Podpoľanie* interested in different ES

Interest in	Identified Stakeholder (Organizations) [Name translated into English]
Provisioning services	
Wood	<ul style="list-style-type: none"> • Association of Community and Private Forests in Banská Bystrica County • Community Forests unorganized in Associations • Local sawmills and timber trade companies • AGROSEV, LTD. • State-owned enterprise Forests of the SR, Branch Kriváň • Cadastral and forest department • Licensed forest manager • Communal forest owners • Private small scale forest owners • Private large scale forest owners • Forest contractors – workers
Mushrooms, Berries	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Slovak Club of Tourists - Regional Clubs • Individual pickers
Game, Fish	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Slovak Hunters Chamber – District organizations • Slovak Hunting Union - District organizations • Local Hunting Associations • Slovak Fishing Association – City organizations
Food	<ul style="list-style-type: none"> • Slovak association of agricultural cooperatives and companies • Slovak Agriculture and Food Chamber • Local agricultural companies
Bullion	<ul style="list-style-type: none"> • Gold mining company
Other(s)	-
Supporting services	
Biodiversity	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Protected Landscape Area Poľana - the Poľana Biosphere Reserve • Earth friends – CEPA • Association Slatinka • Civic Association PRONATUR • Individual nature conservationist
Habitat for species	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Protected Landscape Area Poľana - the Poľana Biosphere Reserve • Association Slatinka • Individual nature conservationist
Other(s)	-
Regulating services	
Carbon sequestration	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Protected Landscape Area Poľana - the Poľana Biosphere Reserve

	<ul style="list-style-type: none"> • Association Slatinka
Climate regulation	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Protected Landscape Area Poľana - the Poľana Biosphere Reserve
Water quality	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Protected Landscape Area Poľana - the Poľana Biosphere Reserve • State-owned enterprise Slovak Water Management Company, Branch Banská Bystrica • Central-Slovakia Water Operating Company, Inc. • Association Slatinka • Local citizens
Pest control	<ul style="list-style-type: none"> • State-owned enterprise Forests of the SR, Branch Kriváň • Protected Landscape Area Poľana - the Poľana Biosphere Reserve • Regional Veterinary and Food Administration • Individual unorganized small scale forest owners • Individual unorganized large scale forest owners
Other(s)	-
Cultural services	
Outdoor recreation	<ul style="list-style-type: none"> • Slovak Club of Tourists - Regional Clubs • Cycling Club Poľana • Civic Association PRONATUR • Individual hikers • Individual bikers and mountain bikers • Individual moto-cross bikers and off-road vehicle drivers
Aesthetic values	<ul style="list-style-type: none"> • Slovak Club of Tourists - Regional Clubs • Cycling Club Poľana • Association Slatinka • Individual hikers • Individual bikers and mountain bikers
Tourism	<ul style="list-style-type: none"> • Slovak Club of Tourists - Regional Clubs • Cycling Club Poľana • Civic Association PRONATUR
Other(s)	-

Appendix 44: Organization of actors according to their interests for ecosystem services (Turkey, national level)

Interest in	Identified Stakeholder (Organizations) [Name in country language]	Identified Stakeholder (Organizations) [Name in English]	Website/physical address.
Provisioning services			
Wood	<ul style="list-style-type: none"> Orman Genel Müdürlüğü Gölcük İşletme Müdürlüğü Kastamonu Entegre ORKOOP: Orman Kooperatifleri Merkez Birliği Orman Mühendisleri Odası 	<ul style="list-style-type: none"> General Directorate of Forestry Gölcük State forest Industry Kastamonu Integrated ORKOOP: Associations of forestry cooperatives Chambers of Forest Engineers 	<ul style="list-style-type: none"> ogm.gov.tr sakaryaobm.ogm.gov.tr/Sayfalar/isletmeler/GolcuklslMud.aspx kastamonuentere.com.tr orkoop.org.tr ormuh.org.tr
Mushrooms			
Berries			
Game	<ul style="list-style-type: none"> Sakarya avcılar kulübü derneği 	<ul style="list-style-type: none"> Sakarya hunters club 	<ul style="list-style-type: none"> sakarya-vcilarclubudernegi.com/
Medical plants	<ul style="list-style-type: none"> Ege İhracatçılar birliği 	<ul style="list-style-type: none"> Aegean Export associations 	<ul style="list-style-type: none"> Egebirlik.com.tr
Supporting services			
Biodiversity	<ul style="list-style-type: none"> Orman Genel Müdürlüğü Doğa Koruma ve Milli Parklar Genel Müdürlüğü Doğa Koruma Merkezi WWF Türkiye Orman Mühendisleri Odası 	<ul style="list-style-type: none"> General Directorate of Forestry General Directorate of National Parks and Nature Protection Nature Conservation Center WWF Turkey Chambers of Forest Eng 	<ul style="list-style-type: none"> Ogm.gov.tr Dkmpgm.gov.tr Dkm.com.tr Wwfturkey.org Ormuh.org.tr
Habitat for species	<ul style="list-style-type: none"> Orman Genel Müdürlüğü Doğa Koruma ve Milli Parklar Genel Müdürlüğü Doğa Koruma Merkezi WWF Türkiye 	<ul style="list-style-type: none"> General Directorate of Forestry General Directorate of National Parks and Nature Protection Nature Conservation Center WWF Turkey 	<ul style="list-style-type: none"> Ogm.gov.tr Dkmpgm.gov.tr Dkm.com.tr Wwfturkey.org
Regulating services			
Carbon sequestration	<ul style="list-style-type: none"> Orman Genel Müdürlüğü Enerji ve Tabii Kaynaklar Bakanlığı 	<ul style="list-style-type: none"> General Directorate of Forestry Ministry of Energy and Natural Resources 	<ul style="list-style-type: none"> Ogm.gov.tr enerji.gov.tr/en-US/Main-page
Climate regulation	<ul style="list-style-type: none"> Orman Genel Müdürlüğü Enerji ve Tabii Kaynaklar Bakanlığı 	<ul style="list-style-type: none"> General Directorate of Forestry Ministry of Energy and Natural Resources 	<ul style="list-style-type: none"> Ogm.gov.tr enerji.gov.tr/en-US/Main-page
Water quality	<ul style="list-style-type: none"> Devlet Su İşleri GM OGM 	<ul style="list-style-type: none"> GD of State Water Works GDF 	<ul style="list-style-type: none"> Dsi.gov.tr Ogm.gov.tr
Pest control	<ul style="list-style-type: none"> Orman Genel Müdürlüğü Tarım İşletmeleri GM 	<ul style="list-style-type: none"> General Directorate of Forestry GD of Agricultural Management 	<ul style="list-style-type: none"> Ogm.gov.tr Tigem.gov.tr
Soil protection	<ul style="list-style-type: none"> Orman Genel Müdürlüğü TEMA: Türkiye erozyonla mücadele ağaçlandırma ve doğal varlıkları koruma vakfı 	<ul style="list-style-type: none"> General Directorate of Forestry The Turkish foundation for combating soil erosion for reforestation and the protection of natural habitats 	<ul style="list-style-type: none"> Ogm.gov.tr Tema.org.tr
Cultural services			
Outdoor recreation	<ul style="list-style-type: none"> Orman Genel Müdürlüğü 	<ul style="list-style-type: none"> General Directorate of Forestry 	<ul style="list-style-type: none"> Ogm.gov.tr
Aesthetic values	<ul style="list-style-type: none"> Kültür Varlıkları ve Müzeler GM 	<ul style="list-style-type: none"> GD of Cultural Heritage and Museum 	<ul style="list-style-type: none"> Kvmgm.kultur.gov.tr
Tourism	<ul style="list-style-type: none"> Kültür Varlıkları ve Müzeler GM 	<ul style="list-style-type: none"> GD of Cultural Heritage and Museum 	<ul style="list-style-type: none"> Kvmgm.kultur.gov.tr