

Annex to agenda item 4 (b)
Activities of the ECE/FAO Forestry and Timber Section supporting the implementation of the Rovaniemi Action Plan for the Forest Sector in a Green Economy

Objective	Actors	Action	Description / Source of information	Results achieved
Pillar A: Sustainable production and consumption of forest products				
A.0.2 Review challenges and opportunities for sustainable consumption patterns for forest products and the related services (e.g. through a high level conference).	UNECE/FAO, stakeholders, ARCMED	National Wood Resource and Product Balances workshop, Geneva, December 2017	The balance tool matches roundwood supply with demand. In the case of a shortage (i.e. more demand than supply) this can indicate harvest levels are higher than official figures indicate. If removals are higher this can indicate a challenge to sustainable consumption patterns. Meeting webpage: http://www.unece.org/index.php?id=47616	Increased awareness of tool as a check on official figures.
		Forest Products Annual Market Review (FPAMR) - yearly publication	The FPAMR reviews policies, challenges and opportunities for sustainable consumption patterns for forest products. FPAMR publications: http://www.unece.org/forests/fpamr.html	Member States and stakeholders were informed about policies, challenges and opportunities for sustainable consumption patterns for forest products.
A.0.3 Promote the use of sustainable forest products (solid, reconstituted, fibre, products of biorefineries) in all sectors.	Private sector, stakeholders, governments, FCN (Forest Communicators Network), ARCMED	International Days of Forests (21 March each year): IDF 2014 "Forest for Fashion", IDF 2015 "Forests for Food – Food for Forests", IDF 2016 "Forests and Water", IDF 2017 "Forests and Energy"	The Forest Communicators Network promoted IDFs. Activities included publications, events, exhibitions and press releases. For instance, on the occasion of the International Day of Forests 2015 "Forests for Food – Food for Forests" the Joint Section organized various events at the Palais in Geneva to promote forest food as sustainable forest product. These events included a press conference, the "Forests for Food – Food for Forests" conference featuring two roundtables, food tastings from the Italian San Francesco's Woodland, the Opening of the "Learning from Forests" Exhibition (20 March -16 April 2015; provided by the Government of Poland) and the Forest Gala Reception with forest food. http://www.un.org/en/events/forestsday/events.shtml http://www.unece.org/index.php?id=38454	Promotion and increased awareness throughout UNECE member States about sustainable forest products.
		Workshop "More Heat with Less Wood", 6-7 October 2015, Geneva	The More Heat with Less Wood Workshop facilitated the exchange of experiences throughout the UNECE region on how to improve wood energy applications under given socio-economic conditions. Wood energy projects from different development organizations across Eastern Europe, the Balkans and Central Asia were presented. Good practice wood energy projects for the development of a sustainable and healthy use of firewood in housing was identified and discussed. http://www.unece.org/forests/moreheat2015.html#/#/	Identification of challenges of wood energy in households, guidance for cross-sectoral approaches and support by multilateral organizations for the facilitation of good practice wood energy projects.
		Video "More Heat with Less Wood", 2016	The video "More Heat with Less Wood" (2016; over 24,000 views of the versions in English, Albanian, Georgian and Turkish) promotes energy efficiency and wood energy. The short film promotes the efficient use of wood as a fuel in households. Efficient heating technologies, combustion, pyrolysis, thermal insulation, wood storage as well as aspects of consumer health and behaviour of wood use are visualized and explained in an easy to understand manner. http://www.unece.org/forests/moreheat2015.html#/#/	Promotion of the efficient use of wood as a fuel in households.

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A.1.1	Maintain monitoring of developments in certification and labelling, preferably with more analysis of the impact of certification and labelling in the marketplace.	UNECE/FAO, EU, certification systems, science	<p>Forest Products Annual Market Review (FPAMR) - yearly publication</p> <p>Roundtable on Forest Certification at the event "Marianske Lazne +70: Celebrating 70 years of UNECE/FAO cooperation on forests", Marianske Lazne, Czech Republic, 5 - 7 September 2017</p>	<p>Chapter 2 of the FPAMR monitors developments in certification and labelling.</p> <p>FPAMR publications: http://www.unece.org/forests/fpamr.html</p> <p>The roundtable provided a platform for regional organizations, forest owners, forest based industries, policymakers, forest certification organizations, NGOs and the private sector in general to discuss the latest trends and developments on forest certification in the ECE region, its future and its complementarity with current legislation, such as the EU Timber Regulation (EUTR) and the US Lacey Act.</p> <p>Meeting webpage: http://www.unece.org/index.php?id=45440</p>	<p>Increased awareness of member States and stakeholders about developments in certification schemes.</p> <p>Key issues on forest certification were identified and discussed.</p>
A.3.1	Generate information and data to support effective forest planning, including through national forest inventories.	UNECE/FAO, FOREST EUROPE, ITTO (CFRQ initiative), JRC, governments	<p>Implementation of the 10th tranche UNDA project "Accountability Systems for Sustainable Forest Management in the Caucasus and Central Asia"</p> <p>FRA, pan-European reporting</p> <p>Publication SP-37: "Forests in the ECE region: Trends and Challenges in Achieving the Global Objectives on Forests", 2015</p> <p>Publication DP-66: "Pilot project on the System for the Evaluation of the Management of Forests (SEMAFOR)", 2017</p>	<p>Supporting the development of national forest reporting systems in the CCA through the UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia". This project is implemented between 2016-2019.</p> <p>Project webpage: http://www.unece.org/forests/areas-of-work/capacity-building/unda2016-2019.html</p> <p>Through the work on Forest Resource Assessment and the Joint UNECE/FAO/Forest Europe reporting on SFM, the Joint Section contributes to generating information and data required for effective forest planning and national forest inventories.</p> <p>http://www.fao.org/forest-resources-assessment/en/ Collected data is available online at: http://w3.unece.org/PXWeb/en</p> <p>The study provided an example of a report, which uses national data for international planning purposes. Using the best available data, the study examined progress of the forest sector in the ECE Region towards the achievement of the four Global Objectives on Forests, adopted by the United Nations General Assembly in 2007. Based on this assessment as well as on the forest sector outlooks and policy commitments by ECE member States, thirteen major challenges for the forest sector in the region are identified and analysed. The study provided policy recommendations for consideration in the discussions at UNFF11.</p> <p>Publication: https://www.unece.org/fileadmin/DAM/timber/publications/forests-in-the-ece-region.pdf</p> <p>The study provided a tool for the verification of comprehensiveness, completeness and usefulness of collected data. It tested the method through voluntary assessment of the sustainability of forest management in European countries, based on the Pan-European set of criteria and indicators. Scale-neutral indicators were developed and used to describe and assess the situation in 20 participating countries. Thresholds were used for the assessment indicators. The study presented detailed results, by indicator and by country, and discussed the main issues arising from the experience. This activity is experimental in nature, checking and testing the method.</p> <p>Publication: http://www.unece.org/fileadmin/DAM/timber/publications/DP-66.pdf</p>	<p>The 5 project countries (Armenia, Georgia, Kazakhstan, Kyrgyzstan and Uzbekistan) developed a draft criteria and indicator set for sustainable forest management (status 2018).</p> <p>The generated information and data supports effective forest planning on a national level.</p> <p>The information about the evaluation system can be used by member States to support effective forest planning.</p>

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A.4.1	Showcase innovative uses of wood and forests, e.g. by regular forums/market places.	Private sector, UNECE/FAO	International Day of Forest, e.g. IDF 2014 "Forests for Fashion – Fashion for Forests"	The Joint Section organises annual celebrations of the International Day of Forests on 21 March to demonstrate the contribution of the forest sector to green economy, to promote sustainable forest management practices and to showcase innovative use of wood and forest products. Especially the IDF 2014 under the theme "Forests for Fashion – Fashion for Forests" and the related events organized on the occasion showcased innovative uses of forest products. http://www.un.org/en/events/forestsday/events.shtml http://www.unece.org/forests/forestsforfashion.html	Increased awareness of innovative uses of wood and forests.
			Forest Products Annual Market Review (FPAMR) - yearly publication	Innovative ways to use wood and forest products are also presented in the Forest Products Annual Market Reviews produced by the Joint Section on the yearly basis. FPAMR publications: http://www.unece.org/forests/fpamr.html	Increased awareness of innovative uses of wood and forest products.
			Committee and Commission session market and other panel discussions and exhibitions	Market Discussions, panel discussions and exhibitions that took place during sessions of COFFI and EFC showcased innovative uses of wood and forests, e.g. presentations given during the market discussions at Las2017, including presentations such as "Building Bigger, Taller and Smarter with Wood", "Linking Global Trends to the Future of Furniture" and "The potential contribution of the forest sector to climate change mitigation". The 76th session of COFFI to be held in Vancouver, Canada, under the banner "Building the future with wood" will discuss how wood is the material of the future in different construction domains. Meeting webpage: http://www.unece.org/forests/las2017	Increased awareness of trends in building with wood and trends in wooden furniture as well as about the potential role of the forest sector in mitigating climate change.
A.4.3	Review and promote innovation intended to improve efficiency in the use of materials in the manufacturing and processing of forest products, and the competitiveness of the sector.	UNECE/FAO	Forest Products Annual Market Review (FPAMR) - yearly publication: Innovation chapters	Innovative ways to use wood and forest products are presented in the Forest Products Annual Market Reviews produced by the Joint Section on the yearly basis (for example: FPAMR 2016-2017, chapter 6.7 "Innovation in the sector"). FPAMR publications: http://www.unece.org/forests/fpamr.html	Increased awareness about innovative ways to use wood and forest products.
			Market Discussions (at Silva2015 and Las2017)	Market Discussions that took place during sessions of COFFI and EFC showcased innovative uses of wood and forests, e.g. presentations given during the market discussions at Las2017, including presentations such as "Building Bigger, Taller and Smarter with Wood" and "Linking Global Trends to the Future of Furniture". The market discussions at Silva2015 (Engelberg, Switzerland, 2015) focussed on wooden construction, with the views of several experts on the use of hardwood and cross-laminated timber. The 76th session of COFFI to be held in Vancouver, Canada, under the banner "Building the future with wood" will promote innovation in using wood as a material in construction. Meeting webpage: http://www.unece.org/forests/las2017 Meeting webpage: http://www.unece.org/index.php?id=42383	Increased awareness about innovative ways to use wood and forest products.

Objective		Actors	Action	Description / Source of information	Results achieved
A.5.1	Present and discuss LCA outcomes, starting from the recommendations of the workshop on LCA "the Green Life of Wood" held in October 2012.	UNECE/FAO, LCA community, stakeholders	Publication SP-38: "Promoting sustainable building materials and the implications on the use of wood in buildings: A review of leading public policies in Europe and North America", 2016	<p>The study on "Promoting sustainable building materials and the implications on the use of wood in buildings" produced by the Joint Section monitored and analysed the developments in green building. The study provides an overview of the current policy and regulatory environment regarding sustainable construction materials in the building sector in Europe and North America, and, where applicable, offers a commentary on the effectiveness of such regimes in driving the adoption of wood products. The study's objective has been to conduct a broad survey across a range of policies, initiatives and programmes in order to document the current circumstances as a starting point for further discussions, technical meetings and policy debates with a view to enhance the use of wood in buildings through policy advice to member States.</p> <p>Publication: https://www.unece.org/fileadmin/DAM/timber/publications/SP-38.pdf</p>	Dissemination of information about current policy and regulatory environment regarding sustainable construction materials in the building sector.
A.6.2	Establish a task force to monitor and analyse developments in green building, in order to bring important trends and issues (e.g. the alleged unfair treatment of forest products) to the attention of policy makers, and monitor whether green building codes, standards and programmes constitute barriers to trade in forest products.	UNECE/FAO, EFI, governments, private sector organisations	Establishment of the Joint Task Force on Energy Efficiency Standards in Buildings	<p>In 2015, the Committee on Sustainable Energy and the Committee on Housing and Land Management endorsed the establishment of a Joint Task Force on Energy Efficiency Standards in Buildings to enhance market harmonization for products and technologies that increase energy efficiency in buildings and support the achievement of the global and regional commitments in the UNECE region. The first meeting of the Joint Task Force took place in Geneva, Switzerland, in October 2017. The meeting's objectives was to operationalize the Task Force and to discuss the approaches and preliminary results of a study on mapping existing energy efficiency standards in buildings in the UNECE region.</p> <p>Meeting webpage: https://www.unece.org/index.php?id=46402 Report of the meeting: https://www.unece.org/fileadmin/DAM/energy/se/pdfs/geee/geee4_Oct2017/Report_of_the_JTF_on_EE_in_buildings_Final.pdf.</p>	Establishment of a UNECE task force to monitor and analyse developments in green building.
A.6.4	Inform forest sector stakeholders and stakeholders from other sectors about developments in green building, especially in as much as they affect forest products.	FCN (Forest Communicators Network), FCBA	All COFFI and EFC Sessions between 2014-2017; presentations at other UNECE committee meetings	<p>Discussions during sessions of COFFI and EFC informed forest sector stakeholders and stakeholders from other sectors about developments in green building, such as the presentation on "Building Bigger, Taller and Smarter with Wood", which was given at Las2017 in Warsaw.</p> <p>Regular presentations of the Joint Section in meetings of other UNECE sectoral committees (e.g. Committee on Environmental Policy (CEP), Sustainable Energy, Housing)</p> <p>Meeting webpage: http://www.unece.org/forests/las2017</p>	Dissemination of information about development in green buildings.
			Publication SP-38: "Promoting sustainable building materials and the implications on the use of wood in buildings: A review of leading public policies in Europe and North America", 2016	<p>The study on "Promoting sustainable building materials and the implications on the use of wood in buildings" encouraged innovative and traditional wood use in construction and provided an overview on the new developments in green building and how those affect forest products.</p> <p>Publication: https://www.unece.org/fileadmin/DAM/timber/publications/SP-38.pdf</p>	Dissemination of information about development in green buildings.

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A.7.1 Exchange national experiences with regulations on illegal logging.	TTF, EFI-FLEGT, governments, TI, FOREST EUROPE, UNECE/FAO	Meeting: Forest Products Markets and Forest Sector Workforce in the Balkans, 8 - 10 December 2015, Podgorica, Montenegro	The workshop brought together 30 experts from the Balkans and Central Asia and Caucasus (UNECE/FAO UNDA project on Sustainable Forest Management for Greener Economies in the Caucasus and Central Asia) to discuss, exchange experiences, map out the needs for capacity building as well as identifying opportunities for improvement by approaching the problems of exploiting harvesting technique, illegal logging, corruption and inefficient wood industries. It was noted that knowledge and experience exchange together with realistic figures of roundwood removals are crucial to address the problem of illegal logging at all levels. Meeting webpage: http://www.unece.org/index.php?id=41338 Article: http://www.unece.org/info/media/news/forestry-and-timber/2015/western-balkan-countries-call-for-action-to-defeat-illegal-logging/doc.html	National experiences with regulations on illegal logging were exchanged and further exchange encouraged.

A.7.2 Analyse and monitor the effectiveness and long term impacts and consequences of the US Lacey Act and EU timber trade regulation on the sector (inside and outside the region), with participation from other regions.	EFI, EU, UNECE COFFI, ITTO, UNFF, TI, JRC, FOREST EUROPE, all UNECE member countries	Forest Products Annual Market Review (FPAMR) 2016-2017	The FPAMR 2016-2017 describes the effectiveness and long term impacts and consequences of the US Lacey Act and EU timber trade regulation on the sector, claiming that the EUTR and the Lacey Act have changed the operating behaviour of timber traders (chapter 1.4 "Forest product trade barriers affecting the UNECE region", chapter 2.2.5 "Due diligence and legal wood supply" and chapter 3.4 "Non-tariff trade restrictions") Publication: http://www.unece.org/fileadmin/DAM/timber/publications/FPAMR2017AdvanceDraft.pdf	The effectiveness and long-term impacts and consequences of the US Lacey Act and EU timber trade regulation on the sector have been addressed, but not thoroughly analysed or monitored over a long term.
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Pillar B. The low carbon forest sector

B.1.2 Continue to monitor developments in wood energy (supply and trade), compare developments with policy targets, put demand for wood energy in the context of overall forest sector trends and potential.	UNECE/FAO (in context of outlook studies)	Joint Wood Energy Enquiry: JWEE 2013 published, JWEE 2015 collected and published	Data collected bi-annually through the Joint Wood Energy Enquiry shows trends in sources and uses of wood energy. All available data is published here: https://www.unece.org/forests/jwee.html Summary of the JWEE 2013: https://www.unece.org/fileadmin/DAM/timber/wood_energy/JWEE2013-info-note.pdf	The collected data offers a comprehensive overview over the developments in wood energy. The bi-annual intervals allow for monitoring of long-term developments.
		Forest Products Annual Market Review (FPAMR): Wood Energy chapters	The chapters in the Forest Products Annual Market Review continue to monitor developments in wood energy (supply and trade), compare developments with policy targets, put demand for wood energy in the context of overall forest sector trends and potential. FPAMR publications: http://www.unece.org/forests/fpamr.html	The FPAMR offers a comprehensive overview over the developments in wood energy.
		Publication SP-42: "Wood Energy in the ECE region" (to be published in 2018)	The publication "Wood Energy in the ECE Region: Data, trends and outlook in Europe, the Commonwealth of Independent States and North America" highlights the use and most recent statistics on wood energy markets across the UNECE region. It aims to communicate the relevance of wood energy in the region and help bridge information about the forest and energy sectors. It also intends to offer some of the best-available information on the role that wood energy can play in various sectors to support environmental, energy, and socio-economic strategies toward a greener economy. It focuses on commercial wood energy uses in the UNECE inclusive of energy generated for cooking, heating and electricity generation.	Increased awareness the relevance of wood energy in the region and dissemination of information about developments in wood energy with regards to the forest and energy sectors.

	Objective	Actors	Action	Description / Source of information	Results achieved
B.1.4	Promote the use of wood in construction. Compare national experiences with the use of different benchmarks, policy measures and legal frameworks. Establish targets for the use of wood in construction.	National authorities, architecture and urban planning professional associations, and forest industry. International standardisation bodies. FCBA, UNECE/FAO	Publication SP-38: "Promoting sustainable building materials and the implications on the use of wood in buildings", 2016	The study on "Promoting sustainable building materials and the implications on the use of wood in buildings" produced by the Joint Section encouraged and promoted innovative and traditional use of wood in construction. Publication: https://www.unece.org/fileadmin/DAM/timber/publications/SP-38.pdf	Promotion of innovative and traditional use of wood in construction.
			Market Discussions at Las2017, the Joint Session of the ECE Committee on Forests and the Forest Industry (COFFI) and the FAO European Forestry Commission (EFC), Warsaw, Poland, 9-13 October 2017	The market discussions at Las2017 included a presentation on "Building Bigger, Taller and Smarter with Wood", highlighting benefits of building with wood such as lower energy used for production, the lesser level of greenhouse gas emissions and carbon storage in buildings. Meeting webpage: http://www.unece.org/forests/las2017 Presentation slides: http://www.unece.org/fileadmin/DAM/timber/meetings/20171009/Presentations/Item_2_j_1_Building_Bigger__Taller_and_Smarter_with_Wood_-_Macdonald.pdf	Promotion of the use of wood in construction. Benefits, challenges and opportunities of constructing with wood were highlighted.
			Market Discussions the 74th session of the ECE Committee on Forests and the Forest Industry (COFFI), Geneva, 18-20 October 2016	A panel discussion on wood construction in the ECE region took place during the 74th session of the ECE Committee on Forests and the Forest Industry (COFFI), which covered obstacles to increasing the use of wood in construction. In order to overcome the mentioned obstacles, it was suggested to: a) enhance the education of architects and engineers on the physical and design properties and use of wood; b) harmonize and update regulations, products standards, and building and fire safety codes; c) improve communication with insurers and financiers about actual risks and cost effectiveness; d) adopt lifecycle analysis of buildings including embodied emissions; e) promote increased public funding for wood construction; f) set up a taskforce to engage with the construction sector to promote wood construction. Meeting report: http://www.unece.org/fileadmin/DAM/timber/meetings/20161018/E/ECE_TIM_2016_2_Report_final_5.01.2017.pdf	Identification of challenges to the promotion of building with wood and suggested measures to overcome difficulties.

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B.1.7	Promote use of low carbon energy and materials over high-carbon/non-renewable alternatives.	UNEP, UNECE/FAO, FCN (Forest Communicators Network)	Promotion of building with wood, and heating with wood through press releases, articles and video.	<p>The use of low carbon energy and materials over high-carbon/non-renewable alternatives, in particular building with wood and heating with wood, has been promoted through communication by the Joint Section. These included press releases ("Wood continues to be the primary source of renewable energy in Europe, 3 March 2016, "UNECE/FAO survey confirms wood as leading source of renewable energy in the UNECE region", 24 April 2013; "The 21st Century will be the century of wood", 21 October 2016), articles ("UNECE/FAO discuss wood energy on International Day of Forests", 2017; "Clean wood energy in households – complex but possible", 2015; "How to foster the sustainable use of wood energy?", 2015) as well as the video "More Heat with Less Wood", 2016.</p> <p>Press releases: "Wood continues to be the primary source of renewable energy in Europe, 3 March 2016, http://www.unece.org/?id=42348; "UNECE/FAO survey confirms wood as leading source of renewable energy in the UNECE region", 24 April 2013, http://www.unece.org/?id=32790; "The 21st Century will be the century of wood", 21 October 2016, http://www.unece.org/?id=44135</p> <p>Articles: "UNECE/FAO discuss wood energy on International Day of Forests", 2017, http://www.unece.org/info/media/news/forestry-and-timber/2017/unecefao-discuss-wood-energy-on-international-day-of-forests/doc.html; "Clean wood energy in households – complex but possible", 2015, http://www.unece.org/info/media/news/forestry-and-timber/2015/clean-wood-energy-in-households-complex-but-possible/doc.html; "How to foster the sustainable use of wood energy?", 2015, http://www.unece.org/info/media/news/forestry-and-timber/2015/more-heat-with-less-wood-how-to-foster-the-sustainable-use-of-wood-energy/doc.html</p> <p>Video: "More Heat with Less Wood", 2016, http://www.unece.org/forests/moreheat2015.html/#/.</p>	Increased awareness about low carbon energy and materials over high-carbon/non-renewable alternatives especially related to building with wood and heating with wood.
			Publication SP-42: "Wood Energy in the ECE region" (to be published in 2018)	The publication "Wood Energy in the ECE Region: Data, trends and outlook in Europe, the Commonwealth of Independent States and North America" highlights the use and most recent statistics on wood energy markets across the UNECE region. It aims to communicate the relevance of wood energy in the region and help bridge information about the forest and energy sectors. It also intends to offer some of the best-available information on the role that wood energy can play in various sectors to support environmental, energy, and socio-economic strategies toward a greener economy. It focuses on commercial wood energy uses in the UNECE inclusive of energy generated for cooking, heating and electricity generation.	Promotion of wood as low carbon energy option for heating.
B.2.1	Analyse the advantages and disadvantages of the "cascade" approach to wood use.	UNECE/FAO, EFI, FCBA, LCA community	Presentation on "Concept of the cascade use of wood and the related reporting" at COFFI 2014 in Kazan, Russia	<p>The presentation "Concept of the cascade use of wood and the related reporting" highlighted advantages and disadvantages of the "cascade" approach to wood use. It pointed out that a cascade use factor would allow for monitoring progress made by the forest sector towards a green/circular economy and that it is much better than simple ratio of industrial roundwood production/wood fuel production. The cascade use factor is closely tied to wood balances which is a challenge and opportunity for data quality and availability. Such an approach will require cross-sectoral cooperation (country experts, UNECE ToS, etc.).</p> <p>Presentation slides: https://www.unece.org/fileadmin/DAM/timber/meetings/20141118/presentations/24-steierer.pdf</p>	Increased awareness of member States about the advantages and challenges of the "cascade" approach to wood use.

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B.3.1	Bring together science and policy, for instance at a conference on the Adaptation of Forests and Forest Management to Changing Climate in the ECE region, to review progress since the global conference on the same topic in 2008.	UNECE/FAO, FOREST EUROPE, EFI, IUFRO			
B.3.2	Promote international cooperation and experience sharing on the development of specific adaptive management regimes.	UNECE/FAO, FAO, EFI, IUFRO, governments			
B.3.5	Maintain and strengthen wildfire early warning and monitoring capacities, and promotion of integrated fire management approaches, i.e. the targeted extraction of biomass for both renewable energy provision and reduction of wildfire hazard; and the integration of communities / private forest users in the achieving these goals at local level.	FAO, GFMC, EU (JRC), EFI, UNISDR, UNECE/FAO, national fire management bodies	The UNECE/FAO Team of Specialists on Forest Fire	<p>The UNECE/FAO Team of Specialists on Forest Fire was mandated to provide guidance to the UNECE member States on forest fire management and forest fire policies, including governance in bilateral and international cooperation, thus maintaining and strengthening wildfire early warning and monitoring capacities and promoting integrated fire management approaches.</p> <p>Information about the Team of Specialists: http://www.fire.uni-freiburg.de/intro/team.html</p>	As the result of the project "Safeguarding Sustainable Forest Management in the UNECE Region through International Cooperation in Fire Management" a draft of the White Paper on "Fire Management Policies and International Cooperation in Fire management in the UNECE Region" and a draft of "Voluntary Guidelines for Fire Aviation" were prepared for further consideration by the GMFC.

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B.4.2 Improve national forest inventories and monitoring of carbon stocks in forests and harvested wood products, for instance by developing and/or improving national greenhouse gas inventories, combined with forest inventories.	Governments, UNFCCC, FRA, UNECE/FAO, FCBA	FRA and pan-European reporting	Through the work on Forest Resource Assessment and the Joint UNECE/FAO/Forest Europe reporting on SFM, the Joint Section contributes to generating information and data on carbon stocks in forests and harvested wood products. Collected data is available online at: http://w3.unece.org/PXWeb/en	The generated information and data on carbon stocks in forests and harvested wood products provided by governments contributes to national forest inventories.

Pillar C. Decent green jobs in the forest sector

C.0.1 Review forest sector workforce issues in order to recommend priorities and communicate their importance including through wide stakeholder consultation.	UNECE/FAO, ILO, social partners, NGOs and researchers	Meeting on Forest Products Markets and Forest Sector Workforce in the Balkans, 8 - 10 December 2015, Podgorica, Montenegro	The workshop brought together 30 experts from the Balkans and Central Asia and Caucasus (UNECE/FAO UNDA project on Sustainable Forest Management for Greener Economies in the Caucasus and Central Asia) to discuss, exchange experiences, map out the needs for capacity-building as well as formulate recommendations for the future work on forest product markets and forest sector workforce. Meeting webpage: http://www.unece.org/index.php?id=41338	The meeting provided background information for a discussion paper on forest sector workforce in the Balkan region.
		Study on Forest Sector Workforce, including gender aspects, age, work safety and economic situation of the forest workers (to be published in 2018)	The study was prepared based on the existing data and the overview of literature in the following aspects of the forest sector employment: age, gender, minorities, occupation risks and safety measures, health and well-being of the forest workers, organisational and social aspects of the forest work.	The study provides a comprehensive overview of different aspects of the forest sector workforce.
		Contribution to the Forest Europe Workshop on Green Economy and Social Aspects of Sustainable Forest Management, 29-30 April 2014, Santander, Spain	The Joint Section actively contributed to the Forest Europe work on green economy and social aspects of sustainable forest management during the workshop (presentation of the RAP and chairing of the Green Jobs thematic session). This covered the implementation of the Rovaniemi Action Plan activities. Concept note: http://www.foresteurope.org/sites/default/files/Concept_note_wge_santander.pdf Meeting report: http://www.foresteurope.org/documentos/report_workshop_green_economy.pdf page 44	The workshop concluded the need for improvement of information related to the social dimension of SFM and provided specific recommendations on each of its aspects.

Objective		Actors	Action	Description / Source of information	Results achieved
C.1.1	Improve monitoring and analysis of the forest-sector workforce, including gender aspects, starting by updating the earlier ECE/FAO/ILO study of professional skills and training.	UNECE/FAO, ILO, Joint Expert Network to implement SFM with stakeholders (ENFE), governments	FRA and pan-European reporting	FRA and pan-European reporting provide regular reporting on forest sector employment and work safety, including gender aspects.	FRA and pan-European reporting contribute to improve monitoring and analysis of the forest-sector workforce, including gender aspects.
			Contribution to the Forest Europe Workshop on Green Economy and Social Aspects of Sustainable Forest Management, 29-30 April 2014, Santander, Spain	The Joint Section actively contributed to the Forest Europe work on green economy and social aspects of sustainable forest management during the workshop (presentation of the RAP and chairing of the Green Jobs thematic session). This covered the implementation of the Rovaniemi Action Plan activities. Concept note: http://www.foresteuropa.org/sites/default/files/Concept_note_wge_santander.pdf Meeting report: http://www.foresteuropa.org/documentos/report_workshop_green_economy.pdf page 44	The workshop concluded the need for improvement of information related to the social dimension of SFM and provided specific recommendations on each of its aspects.
C.1.2	Review and discuss at policy level the main threats to sustainability of the workforce, and possible countermeasures. The review should also include gender aspects.	UNECE/FAO, ILO, FOREST EUROPE, ENFE, EUSTAFOR, CEPF, governments, other stakeholders	Workshop on "Threats to sustainability of the Forest Sector Workforce" organized 17 March 2015 in Geneva, with the support of the ToS on Green Jobs in the Forest Sector	The workshop discussed the challenges of the forest sector workforce and identified its possible countermeasures Concept note: http://www.foresteuropa.org/sites/default/files/Concept_note_wge_santander.pdf Meeting report: http://www.foresteuropa.org/documentos/report_workshop_green_economy.pdf page 44	The workshop concluded the need for improvement of information related to the social dimension of SFM and provided specific recommendations on each of its aspects.
			Contribution to the Forest Europe Workshop on Green Economy and Social Aspects of Sustainable Forest Management, 29-30 April 2014, Santander, Spain	The Joint Section actively contributed to the Forest Europe work on green economy and social aspects of sustainable forest management during the workshop (presentation of the RAP and chairing of the Green Jobs thematic session). This covered the implementation of the Rovaniemi Action Plan activities. Concept note: http://www.foresteuropa.org/sites/default/files/Concept_note_wge_santander.pdf Meeting report: http://www.foresteuropa.org/documentos/report_workshop_green_economy.pdf page 44	The workshop concluded the need for improvement of information related to the social dimension of SFM and provided specific recommendations on each of its aspects.
			Workshop on "Promoting Green Jobs in the Forest Sector", organized jointly with Forest Europe on 27-28 June 2017, in Bratislava, Slovakia	The workshop discussed various aspects of employment in the forest sector, including occupational health and safety; education and training systems for new skill development; social equity and gender issues; and creating green job opportunities in the forest sector. Meeting webpage: http://www.unece.org/index.php?id=45487	The conclusions from the thematic sessions were published at the UNECE/FAO website and will be feed into the future work of the Joint Section on these topics.

Objective		Actors	Action	Description / Source of information	Results achieved
C.1.5	Increase investment in the education and training of contractors, forest workers and forest owners as well as key personnel along the processing stages (operators, engineers, designers, developers, architects etc.).	Governments (labour/training ministries), Joint Expert Network, EFESC, ENFE, other interested parties			
C.2.1	Raise the level of political will to improve the safety and health of the workforce, by studying workforce status and trends, with national comparisons, and analysis of the differences.	ILO, national occupational safety and health organisations, stakeholders, UNECE/FAO			
C.2.2	Radically improve the monitoring of occupational safety and health of the forestry workforce, to enable meaningful analysis and preventive action, notably by improving monitoring coverage of contractors, farmers, migrant labour, etc. and by putting in place capacity building for improved reporting on social indicators.	UNECE/FAO, ILO, national forest and occupational safety institutions	FRA and pan-European reporting	Through the FRA and pan-European reporting information about occupational safety and health of the forestry workforce is collected and published.	FRA and pan-European reporting contribute to improve monitoring and analysis of occupational safety and health of the forest-sector workforce.
C.3.1	Develop and share best practice for environmentally efficient, productive, safe and sustainable forest operations.	Governments with relevant stakeholders, ILO/UNECE/FAO Joint Expert Network, ENFE, FCBA			

Objective		Actors	Action	Description / Source of information	Results achieved
C.3.2	Identify changes in forest operations which might be necessary for sustainable forest management (workshop).	ILO/UNECE/FAO Joint Expert Network, with ENFE, ILO, national operations research institutions			
C.3.3	Review challenges and dilemmas connected to forest operations (reconciling different management goals, mobilising sufficient operational capacity for sustainable forest management).	ILO, ILO/UNECE/FAO Joint Expert Network, stakeholders			
C.4.1	Monitor and analyse at the policy level the impact of green economy policy on employment in the forest sector, possibly with a cross-sectoral approach.	ILO, UNECE/FAO, FOREST EUROPE, UNEP			
C.5.1	Review and assess existing curricula or study courses related to forestry professionals within the region and analyze their correspondence to the present and emerging needs of the sector.	Governments, universities, IUFRO, IFSA, Silva Network, sector policy makers, Bologna process, UNECE/FAO, FAO	Study on Green Jobs in the Forest Sector (to be published in 2018)	The study Green Jobs in the Forest Sector provides an overview of existing Green Forest Jobs and identifies possible areas for future activities and jobs in the forest sector, and may serve as starting point for further analysis and discussion on the future of Green Forest Jobs. It offers a framework for classifying Green Forest Jobs under seven thematic work areas, outlined in the seven main sections of the study, with a particular focus on major trends, needs and challenges as well as opportunities and prospects for the forest sector.	Raised awareness about the trends in development of green jobs.
C.5.2	Monitor the situation of forestry education and stimulate exchange between member States on this matter.	Governments, IUFRO, Silva Network, UNECE/FAO, FAO			

Objective	Actors	Action	Description / Source of information	Results achieved	
Pillar D. Long term provision of Forest Ecosystem Services					
D.0.1	Review and develop approaches to the valuation of and payment for different forest ecosystem services, in the UNECE region, and involve both research and policy bodies in this work.	UNECE/FAO, EFI, FOREST EUROPE, UNEP, JRC, TI	<p>Publication SP-34: "The Value of Forests, Payments for Ecosystem Services in a Green Economy", 2014</p>	<p>In 2014, the Joint Section, jointly with UNEP, published the study paper "The Value of Forests, Payments for Ecosystem Services in a Green Economy" based on their knowledge on forest ecosystem services and cooperation with other partners.</p> <p>Publication: http://www.unece.org/fileadmin/DAM/timber/publications/SP-34Xsmall.pdf</p>	<p>The study reviews approaches to the valuation of and payment for different forest ecosystem services as it explores the range of forest environment services through fourteen detailed case studies, which examine best practice in promoting PES. Political and public relations implications of PES are discussed at length, and recommendations include the need for clarity about where PES may be a useful tool in moving towards a green economy and where other methods may be more appropriate.</p>
			<p>Publication: "Forests and Water: Valuation and Payments for Forest Ecosystem Services" (to be published in 2018)</p>	<p>The objectives of this study are to further improve our understanding about the ways in which payments for ecosystem services schemes can be applied to forests, in particular focusing on forests' hydrological functions for the mutual benefit of both humans and the environment. In addition, the study covers advances and challenges facing these schemes and provides practical guidance for policymakers and practitioners.</p> <p>http://www.unece.org/forests/areas-of-work/policy-dialogue-and-advice/ecosystem-services.html http://www.unece.org/forests/areas-of-work/policy-dialogue-and-advice/ecosystem-services/table-of-case-studies.html</p>	<p>The study offers insights into approaches to the valuation of and payment for ecosystem services schemes regarding forests' hydrological functions. The study will be published in 2018.</p>
			<p>Roundtable discussion at the 37th session of the ECE/FAO Working Party on Forest Statistics, Economics and Management</p>	<p>During the Working Party, the secretariat organized a roundtable discussion on "Approaches to the valuation of forest ecosystem services in the ECE region", contributing to the overall goal of pillar "D" of the Rovaniemi Action Plan that "forest functions are identified and valued and payments for ecosystem services (PES) are established, encouraging sustainable production and consumption patterns". Presentations were made on topics including "Contribution of the Forestry Sector to National Economies", "Valuing forest goods and services in the Pan-European reporting process", "Valuing forest goods and services in the Montreal Process" and "Valuation of forest ecosystem services and development of accounts – The UK Experience".</p> <p>Meeting report: http://www.unece.org/fileadmin/DAM/timber/meetings/20150318/ECE_TIM_EFC_WP.2_2015_2-eng.pdf Presentations: http://www.unece.org/index.php?id=37409</p>	<p>Approaches to the valuation of and payment for different ecosystem services were shared by member States and stakeholders. The roundtable allowed for thorough discussion on the matter. Participants of the roundtable found that the value of wood products account for more than 80% of the monetised value generated. The issue of valuing ecosystem services is receiving increasing policy attention. Despite many scientific studies undertaken in the field of valuing ecosystem services, data are often not of sufficient quality of coverage for use in national or international statistics. The roundtable recognized that there are many important values that are not currently incorporated in the valuation system and many challenges remain. Generally, participants stressed the need to discuss how to harmonize the methodology and definitions used and which services to be covered.</p>

	Objective	Actors	Action	Description / Source of information	Results achieved
			Participation in the "National Workshop on Shared Environmental Information Systems (SEIS) and Environmental Statistics for the Sustainable Development Goals (SDGs)", October 2017, Dushanbe, Tajikistan	One of the objectives of the workshop was to build national capacity for the implementation of System of Environmental-Economic Accounting (SEEA) for the forest sector. UNECE/FAO gave a presentation on forest accounting.	Enhanced capacity of member States regarding forest accounting.
D.1.1	Intensify research on the valuation of forest goods and services, notably as regards policy objectives, possible funding sources, and the incorporation of values of forest ecosystems into national accounting frameworks. Build databases and online platforms for exchange, cooperation and data dissemination. Develop guidance for the valuation of forest ecosystem services.	Science, EFI, EEA, UNECE/FAO, JRC	<p>Publication: "Forests and Water: Valuation and Payments for Forest Ecosystem Services" (Study to be published in 2018)</p> <p>Database under the study</p>	<p>The objectives of this study are to further improve our understanding about the ways in which payments for ecosystem services schemes can be applied to forests, in particular focusing on forests' hydrological functions for the mutual benefit of both humans and the environment. In addition, the study covers advances and challenges facing these schemes and provides practical guidance for policymakers and practitioners.</p> <p>http://www.unece.org/forests/areas-of-work/policy-dialogue-and-advice/ecosystem-services.html http://www.unece.org/forests/areas-of-work/policy-dialogue-and-advice/ecosystem-services/table-of-case-studies.html</p> <p>In connection with the Forests and Water study, a database has been developed. This database is scheduled for being available online in the first quarter of 2018.</p>	<p>Research on the valuation of forest goods and services with regards to forests' hydrological functions was intensified. The study will be published in 2018.</p> <p>A database was built for data dissemination.</p>

	Objective	Actors	Action	Description / Source of information	Results achieved
D.2.1	Review and share experience on payment for forest ecosystem services, notably enabling conditions for PES and monitor progress, taking into account existing material (e.g. SoEF 2011) and identifying implications for PES design and implementation.	UNECE/FAO, FOREST EUROPE, EFI, certification systems, research community, EU: multi-level FP7 consortium and regional funds, JRC, ARCMED	Publication SP-34: "The Value of Forests, Payments for Ecosystem Services in a Green Economy", 2014	<p>The study paper "The Value of Forests, Payments for Ecosystem Services in a Green Economy" (May 2014) focusses on conditions for Payments for Ecosystem Services (PES) to exist and on how these conditions currently obtain within the UNECE region. The range of forest environment services is explored through fourteen detailed case studies, which examine best practice in promoting PES. Political and public relations implications of PES are discussed at length, and recommendations include the need for clarity about where PES may be a useful tool in moving towards a green economy and where other methods may be more appropriate. In addition, the paper provides an overview of valuation methods.</p> <p>Publication: http://www.unece.org/fileadmin/DAM/timber/publications/SP-34Xsmall.pdf Overview of Examples of Payment Schemes for Forest Ecosystem Services in the UNECE region: http://www.unece.org/forests/areas-of-work/policy-dialogue-and-advice/ecosystem-services/table-of-case-studies.html</p>	Review of conditions for Payments for Ecosystem Services (PES) in the UNECE region. Experience of member States are shared through fourteen case studies.
			Publication: "Forests and Water: Valuation and Payments for Forest Ecosystem Services" (Study to be released in 2018)	The objectives of this study are to further improve our understanding about the ways in which payments for ecosystem services schemes can be applied to forests, in particular focusing on forests' hydrological functions for the mutual benefit of both humans and the environment. In addition, the study covers advances and challenges facing these schemes and provides practical guidance for policymakers and practitioners.	The study focuses on forests' hydrological functions as one aspect of valuation and payments for forest ecosystem services, identifying and reviewing ways in which payments for ecosystem services schemes can be applied to forests. The study will be published in 2018.
			Pan-European reporting	The pan-European reporting includes regular reporting on ecosystem services.	The pan-European reporting contributes to the review and sharing of experiences on payment for forest ecosystem services and enhances the monitoring of progress.
D.2.5	Capitalize on success stories for PES in the forest sector and use them to raise public awareness.	FCN (Forest Communicators Network), certification systems, stakeholders, ARCMED			

Objective	Actors	Action	Description / Source of information	Results achieved	
Pillar E. Policy development and monitoring of the forest sector in relation to a green economy					
E.0.1	Upon request of the country, carry out national forest sector policy reviews, in an international context, with peer review, along the lines of the environmental performance reviews carried out by UNECE.	UNECE/FAO, governments with relevant stakeholder	Contributions to Environmental Performance Reviews	<p>The Joint Section contributed to the Environmental Performance Reviews by carrying out a national forest sector review for Belarus (2016), Georgia (2016), Montenegro (2015) and Serbia (2015). These reviews focused especially on (i) the importance of wood energy for the forest and energy sector; (ii) recorded and unrecorded removals; and (iii) the contribution of the forest sector to the national economy.</p> <p>Webpage: https://www.unece.org/environmental-policy/environmental-performance-reviews/reviewed-countries.html</p>	Increased capacity of member States to analyze the role of the forest sector in their national economies
E.0.2	Review national forest sector governance and the adequacy of available supporting information (when such a review has not been undertaken recently)	Governments with relevant stakeholder	National Forest Policy Dialogue in Kiev, Ukraine, 15 September 2016	Staff of the Joint Section participated in and contributed to the National Forest Dialogue meeting in Kiev, Ukraine, which focused on illegal logging, forest resources assessment and monitoring, and relevant forest policy matters in the country. The main objective of the meeting was to discuss the necessity of the sanitary cuttings in the country as the forestry sector was not successful in convincing society about the necessity of sanitary cuttings. About 50 participants from state forest resources agencies, NGOs, academia and research institutions together with UNECE/FAO staff and representatives of Poland and Belarus discussed the all aspects of sanitary cuttings. Ukraine, Poland and Belarus representatives presented their country reports about sanitary cuttings.	The National Forest Policy Dialogue offered an opportunity to review national forest sector governance in Ukraine and exchange experiences with sanitary cuttings with representatives from Poland and Belarus, who also attended the meeting. The workshop discussed all aspects of sanitary cuttings in Ukraine and concluded that (i) the sanitary condition of Ukrainian forests tends to deteriorate due to complications of climatic conditions and the increasing level of outbreaks of pests and diseases; (ii) recently the capacity of forest enterprises for sanitary cutting is beyond the volume planned; and (iii) there is an urgent need to improve early diagnosis of diseases.
E.0.4	Develop the capacities (skills, information, institutions, etc.) of all stakeholders (workforce, private sector, administrations, etc.) to implement sustainable forest management, and forest protection and monitor progress in its implementation.	Governments, stakeholders, public private partnerships, UNECE/FAO	<p>UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia"</p> <p>8th tranche UNDA project "Sustainable Forest Management for Greener Economies in the Caucasus and Central Asia" (2013-2015)</p>	<p>The UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia" supports the development of national forest reporting systems in the CCA. A functioning reporting system for SFM enables countries to monitor progress on SFM and its implementation. This project assists 5 countries to develop such monitoring or reporting systems.</p> <p>Project webpage: http://www.unece.org/forests/areas-of-work/capacity-building/unda2016-2019.html</p> <p>In 2013, the Joint Section launched a two-year capacity-building project on "Sustainable Forest Management for Greener Economies in the Caucasus and Central Asia" to enhance the contribution of the forestry sector to greener economies through sustainable forest management. The project provided training and advisory services to government officials responsible for the forestry sector, to NGOs, academia, private sector and other stakeholders from forest-related sectors.</p> <p>Project webpage: http://www.unece.org/forests/capacitybuilding.html</p>	<p>The development of monitoring or reporting systems based on the set of criteria and indicators by countries enhances the capacity of countries to implement sustainable forest management, and forest protection and monitor progress in its implementation.</p> <p>Development of the capacities of countries in the Caucasus and Central Asia to implement sustainable forest management, and forest protection and monitor progress in its implementation.</p>

	Objective	Actors	Action	Description / Source of information	Results achieved
			Capacity building for national reporting under: - JFSQ - JWEE - FRA and pan-European reporting Publication DP-66: "Pilot project on the System for the Evaluation of the Management of Forests (SEMAFOR)", 2017	The Joint Section's capacity-building activities on Forests, Forest Products and Wood Energy data develop the capacities of all national experts to collect and provide usable data for indicators for sustainable management, harvested wood products and wood energy in the UNECE region. The SEMAFOR study is a pilot tool to monitor the implementation of SFM. Publication: http://www.unece.org/fileadmin/DAM/timber/publications/DP-66.pdf	Increased capacities to implement sustainable forest management, and forest protection and monitor progress in its implementation. The SEMAFOR study contributes to developing the capacities to implement sustainable forest management, and forest protection and monitor progress in its implementation.
E.0.5	Review gender aspects of the forest sector in the green economy, starting from the conclusions and recommendations of "Time for action: changing the gender situation in forestry" by the ECE/FAO team of specialists on women in forestry, 2006, and develop further actions as appropriate.	Governments, civil society, UNECE/FAO, FAO			
E.1.1	Prepare detailed and objective study at the regional level of policy instruments in place and whether they are appropriate for a green economy, leading, if appropriate to proposals for improvement.	UNECE/FAO, FOREST EUROPE, EFI, ILO with other IGO, JRC			

Objective		Actors	Action	Description / Source of information	Results achieved
E.1.2	Include the green economy as one of the main topics of programmes of work.	UNECE/FAO, relevant forest sector organisations and institutions, JRC	8th tranche UNDA project "Sustainable Forest Management for Greener Economies in the Caucasus and Central Asia" (2013-2015)	This capacity building project (2013-2015) focussed to increase the potential of the forest sector in "greening" the economy in seven countries in the Caucasus and Central Asia. The project provided training and advisory services for government officials who deal with forestry, as well as other stakeholders who are influenced by forest policies and forests. Project webpage: http://www.unece.org/forests/capacitybuilding.html	The project enhanced the capacity of countries in the Caucasus and Central Asia to increase the potential of their forest sector in "greening" the economy. This activity fell under the Work Area 4 "Capacity-Building" as specified in the Integrated Programme of Work 2014-2017.
			Integrated Programme of Work 2014-2017 and Warsaw Integrated Programme of Work 2018-2021	The Integrated Programme of Work 2014-2017 includes the green economy related to "Linkages between sustainable forest management and a green economy, including: the contribution of forest products and services to a green economy; decent green jobs and employment in the forest sector" (paragraph 2) and addresses monitoring and assessment of components of priority activities identified in the Rovaniemi Action Plan (paragraph 12). The Warsaw Integrated Programme of Work 2018-2021 encompasses in its scope "The contribution of the forest sector in the transition towards a green economy, forest products and ecosystem services, employment and other socio-economic aspects; including economic viability of the sector" (paragraph 2.1). The green economy is reflected in all 4 Working Areas of both Integrated Programmes of Work. Integrated Programmes of Work online: http://www.unece.org/forests/ipow.html	Inclusion of the green economy as one of the main topics of the Integrated Programme of Work 2014-2017 and the Warsaw Integrated Programme of Work 2018-2021.
E.1.3	Create European forest partnership on a voluntary basis to improve coordination and cooperation between international organisations in Europe.	UNECE/FAO, FOREST EUROPE, EU agencies, EFI, with other agencies, JRC, ARCMED	Brainstorming on ways to "Create a European forest partnership on a voluntary basis to improve coordination and cooperation between international organisations in Europe"	This action is planned to be discussed on 14 February 2018 at the meeting of the ToS on Forest Policy.	No actions taken / implemented at this stage (January 2018).
E.2.1	Maintain and develop present inter-organisation cooperation on forest resource assessment (CFRQ), State of Europe's Forests (SoEF) and forest sector outlook studies, set up appropriate task forces to address the challenges in measuring particular indicators.	UNECE/FAO (notably teams on Monitoring of SFM and on Outlook), FOREST EUROPE, Montréal Process, T1, JRC, partners for SoEF and the outlook studies	FRA-CFRQ, pan-European reporting	The Joint Section developed and maintained inter-organisational cooperation on forest resource assessment through the preparation of the Collaborative Forest Resource Questionnaire and the pan-European reporting process.	Inter-organisation cooperation on forest resource assessment is maintained.
			Outlook Study	The Outlook Team met on several occasions, including a session in Russia to review methodologies, exchange national experiences and discuss possible policy questions to be covered by future studies. Meeting webpage: http://www.unece.org/index.php?id=47489	The mandate of the Team of Specialists on Outlook has been re-established in December 2017. The team engages in addressing the challenges in measuring particular indicators measuring forest sector outlook.

Objective		Actors	Action	Description / Source of information	Results achieved
E.2.2	Develop the capacity of all countries so that they can make available usable data for all indicators for sustainable forest management.	Governments, UNECE/FAO, international Criteria and Indicators partners, JRC	UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia"	The UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia" supports the development of national forest reporting systems in the CCA. A functioning reporting system for SFM enables countries to monitor progress on SFM and its implementation. This project assists 5 countries to develop such monitoring or reporting systems. Project webpage: http://www.unece.org/forests/areas-of-work/capacity-building/unda2016-2019.html	Enhanced capacity of 5 countries to make available usable data for all indicators for sustainable forest management through the development of criteria and indicators.
			The Joint Section's capacity-building activities on Forests, Forest Products and Wood Energy data	The Joint Section's capacity-building activities on Forests, Forest Products and Wood Energy data are intended, inter alia, to develop the capacities of all stakeholders to provide usable data for indicators for sustainable management and use of forests in the UNECE region. Workshops on specific topics included: - National Wood Resource and Product Balances workshop (5 - 6 December 2017), Switzerland, Geneva - Workshop on Bioenergy from the Forest Sector - Capacity Building for Information (6 - 8 December 2016), Hungary, Budapest - 29th Intersecretariat Working Group on Forest Sector Statistics (9 - 10 February 2016), Switzerland, Geneva - 28th Intersecretariat Meeting on Forest Sector Statistics (27 - 29 January 2015), Yokohama, Japan - Workshop on Forest Products Statistics for National Statistical Correspondents (27 - 28 May 2014), Ankara, Turkey For a list of all meetings, please visit: https://www.unece.org/forests/forestsmeetings.html#/	Increased capacity of all countries to make available usable data for all indicators for sustainable forest management.
E.2.3	Develop the forest sector's contribution to broader green economy indicator data sets:- explore how "forest sector" indicators can be used to report on the green economy- discuss with other sectors how they want to report on their contribution to a green economy- use the pan European and the Montreal Process criteria and indicators to assess sustainable forest management- update indicators and develop new ones whenever appropriate- ensure that forest sector indicators for	FOREST EUROPE, Montréal Process, UNECE/FAO, EFI, UNEP JRC	Background paper on measuring progress of the forest sector towards a Green Economy	During Metsä2013, the joint session of COFFI and ECE that took place in Rovaniemi, Finland, a roundtable launched an initiative to develop of a green economy indicator data sets. Such a set was supposed to highlight the contribution of the forest sector to a green economy. On this occasion, a background paper entitled "Measuring progress of the forest sector towards a Green Economy: some proposals" provided considerations about the development of indicators to measure progress in this field and proposed six main areas of measurement as well as possible indicators to measure the progress of the forest sector towards a green economy. Background paper: https://www.unece.org/fileadmin/DAM/timber/meetings/20131209/forest-sector-in-green-economy-indicators.pdf	Proposal for the development of the green economy indicator data sets.
			Workshop: "Measuring the Value of Forests in a Green Economy" (Geneva, 21 October 2016)	The workshop was addressed to experts from the forest sector and economists working on green growth and green economy. It took stock of internationally developed natural capital and ecosystem services valuation methodologies and assessment methodologies to measure progress in the transition to an inclusive green economy and discussed synergies between green economy and forest sector assessment methodologies. Meeting webpage: http://www.unece.org/index.php?id=42822 Background document: http://www.unece.org/fileadmin/DAM/timber/meetings/20161021/Measuring_the_value_of_forests_in_a_green_economy.pdf The conclusions from the workshop were included in the report of the workshop: http://www.unece.org/fileadmin/DAM/timber/meetings/20161021/Workshop_report_-_Measuring_the_value_of_forests_in_a_green_economy.pdf	The workshop considered itself the first step on the way to further work and asked the governing bodies of all the organisations who participated in the discussion (UNECE, FAO, OECD, UNEP, World Bank, GGKP) to draw a road map and to engage in the further joint work on the discussed topic. The conclusions from the workshop will be used for further work of the Joint Section on this topic.

Objective		Actors	Action	Description / Source of information	Results achieved
	green economy monitoring are consistent with other forest sector indicators, notably those for sustainable forest management.		Implementation of the 10th branch UNDA project "Accountability Systems for Sustainable Forest Management in the Caucasus and Central Asia"	Supporting the development of national forest reporting systems in the CCA through the UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia". This project is implemented between 2016-2019. Project webpage: http://www.unece.org/forests/areas-of-work/capacity-building/unda2016-2019.html	The 5 project countries (Armenia, Georgia, Kazakhstan, Kyrgyzstan and Uzbekistan) developed a draft criteria and indicator set for sustainable forest management (status 2018).
E.2.4	Produce regular fact based reports on sustainable forest management in countries, based on international and national criteria and indicators.	Governments, stakeholders, EFI, UNECE/FAO, JRC	Publication SP-37: "Forests in the ECE region: Trends and Challenges in Achieving the Global Objectives on Forests", 2015	The Joint Section launched a publication on "Forests in the ECE region: Trends and Challenges in Achieving the Global Objectives on Forests" as a regional contribution to the session of the United Nations Forum on Forests held in May 2015 in New York. The study examines progress of the forest sector in the ECE Region towards the achievement of the four Global Objectives on Forests, adopted by the United Nations General Assembly in 2007. Based on this assessment as well as on the forest sector outlooks and policy commitments by ECE member States, thirteen major challenges for the forest sector in the region are identified and analysed. The study provided policy recommendations for consideration in the discussions at UNFF11. Publication: https://www.unece.org/fileadmin/DAM/timber/publications/forests-in-the-ece-region.pdf	A fact-based report on sustainable forest management in countries which examines the progress of the forest sector in the ECE Region towards the achievement of the four Global Objectives on Forests.
			10th branch UNDA project "Accountability Systems for Sustainable Forest Management in the Caucasus and Central Asia".	Supporting the development of national forest reporting systems in the CCA through the UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia". This project is implemented between 2016-2019. Project webpage: http://www.unece.org/forests/areas-of-work/capacity-building/unda2016-2019.html	The 5 project countries (Armenia, Georgia, Kazakhstan, Kyrgyzstan and Uzbekistan) developed a draft criteria and indicator set for sustainable forest management (status 2018).
			FRA and State of Europe's Forests (with Forest Europe and FAO)	The Joint Section cooperates with Forest Europe and FAO in producing regular fact-based reports on sustainable forest management in countries, based on jointly collected data, including Forest Resource Assessment (FRA) and the publication the "State of Europe's Forests".	Regular fact-based reports.
E.3.1	Develop an agreed methodology to assess the sustainability of forest management, possibly building on SoEF 2011 experience, as well as the experience of other processes, and implement it.	UNECE/FAO, science, SoEF partners, Montréal Process, JRC, EU	Publication DP-66: "Pilot project on the System for the Evaluation of the Management of Forests (SEMAFOR)", 2017	UNECE and FAO together with the national and international experts and the Team of Specialists on Sustainable Forest Management developed and tested a new methodology to assess the sustainability of forest management in the UNECE region, which is the System for the Evaluation of the Management of Forests (SEMAFOR). Publications: https://www.unece.org/fileadmin/DAM/timber/publications/DP-66.pdf	Pilot phase of the agreed methodology to assess the sustainability of forest management.

Objective		Actors	Action	Description / Source of information	Results achieved
E.3.2	Encourage cooperation between FOREST EUROPE and the Montréal Process.	FOREST EUROPE, Montréal Process, UNECE/FAO, FAO/FRA, Governments	Implementation of the 10th branch UNDA project "Accountability Systems for Sustainable Forest Management in the Caucasus and Central Asia"	FOREST EUROPE and the Montréal Process took part in the project's activities and shared information about their C&I systems. Project webpage: http://www.unece.org/forests/areas-of-work/capacity-building/unda2016-2019.html	Both Processes were represented at meetings of the project and assisted project countries (Armenia, Georgia, Kazakhstan, Kyrgyzstan and Uzbekistan) with the development of their own C&I for SFM sets.
			Activities of the Team of Specialists on Monitoring Sustainable Forest Management	FOREST EUROPE and the Montréal Process took part in the Team's activities and exchanged information about their work. Information about the Team of Specialists: https://www.unece.org/forests/fr/msfm.html	FOREST EUROPE and the Montréal Process cooperated with the Joint Section within the work of the Team of Specialists on Monitoring Sustainable Forest Management.
E.3.4	Develop capacity for reporting on indicators of sustainable forest management, at national and international level.	UNECE/FAO, FOREST EUROPE, EFI (incl. its project on implementation of criteria and indicators), JRC	Implementation of the 10th branch UNDA project "Accountability Systems for Sustainable Forest Management in the Caucasus and Central Asia"	Supporting the development of national forest reporting systems in the CCA through the UNDA project "Accountability System for Sustainable Forest Management in the Caucasus and Central Asia". This project is implemented between 2016-2019. Project webpage: http://www.unece.org/forests/areas-of-work/capacity-building/unda2016-2019.html	The 5 project countries (Armenia, Georgia, Kazakhstan, Kyrgyzstan and Uzbekistan) developed a draft criteria and indicator set for sustainable forest management (status 2018).
			Regular reporting and capacity-building activities on Forests, Forest Products and Wood Energy data	The Joint Section's regular work and capacity-building activities on Forests, Forest Products and Wood Energy data developed the capacities of all stakeholders to provide usable data for indicators for sustainable management and use of forests in the UNECE region. This included the 2014 JFSQ workshop and the 2016 JWEE workshop as well as meetings listed under E.2.2. For a list of all meetings, please visit: https://www.unece.org/forests/forestsmeetings.html#	Increased capacity to provide data for indicators for sustainable forest management and use of forests in the UNECE region, at national and international level.
E.4.1	Improve the sector's capacity to communicate, by developing national and international communications, capacities and funding, and sharing experience.	UNECE/FAO, FCN, FOREST EUROPE, Montréal Process with other agencies	Activities by the Forest Communicators' Network	Activities undertaken by the Forest Communicators' Network contribute directly to improving the ability of the sector to effectively communicate by developing national and international communication capacities and sharing experience. Such activities included the promotion of the 3rd and 4th European Forest Week (Switzerland in 2015; Poland in 2017). http://www.fao.org/about/meetings/european-forest-week/previous-years/2015/en/ http://www.fao.org/about/meetings/european-forest-week/en/	Increased capacity to communicate through activities including IDFs, EFWs, exhibitions, campaigns, social media outreach.
			International Day of Forests (21 March each year): IDF 2014 "Forest for Fashion", IDF 2015 "Forests for Food – Food for Forests", IDF 2016 "Forests and Water", IDF 2017 "Forests and Energy".	Communication activities organized by the Joint Section for the celebration of the International Day of Forests on 21 March contribute to improving the sector's communication capacity. http://www.un.org/en/events/forestsday/events.shtml	Increased capacity to communicate through activities including IDFs, EFWs, exhibitions, campaigns, social media outreach.

	Objective	Actors	Action	Description / Source of information	Results achieved
			Video "Forests in the ECE Region: Trends and Challenges in Achieving the Global Objectives on Forests", 2015	The video "Forests in the ECE Region" provides information about challenges to achieving the Global Objectives on Forests as well as data about forests in the ECE Region and presents environmental benefits of forests. Video: https://www.youtube.com/watch?v=eTq-PsIPk8o	Increased capacity to communicate through audio-visual material.
E.4.2	Implement communications that will result in public opinion and legislators considering wood to be an "ecologically, economically, and technically preferred" construction material and make the best use of the Strategic Framework for Forest Communication in Europe to this end.	UNECE/FAO, FCN, FOREST EUROPE, Montréal Process, relevant national actors, ARCMED	Publication SP-38: "Promoting sustainable building materials and the implications on the use of wood in buildings", 2016	This study provides an overview of the current policy and regulatory environment regarding sustainable construction materials in the building sector in Europe and North America, and, where applicable, offers a commentary on the effectiveness of such regimes in driving the adoption of wood products. The study's objective has been to conduct a broad survey across a range of policies, initiatives and programmes in order to document the current circumstances as a starting point for further discussions, technical meetings and policy debates with a view to enhance the use of wood in buildings through policy advice to member States. Publication: http://www.unece.org/fileadmin/DAM/timber/publications/SP-38.pdf	The results of the study on "Promoting sustainable building materials and the implications on the use of wood in buildings" contribute to forming the opinion of the legislators and the public on wood being "ecologically, economically and technically preferred" construction material.
E.5.1	Monitor green economy developments in the ECE region forest sector and ensure that organisations active on global green economy issues, such as UNEP, are aware of them.	UNECE/FAO, UNEP	Mid-term review of the Rovaniemi Action Plan (2018) Workshop: "Measuring the Value of Forests in a Green Economy" (Geneva, 21 October 2016)	The mid-term review of the Rovaniemi Action Plan contributes to monitoring of economy developments in the ECE region forest sector by collecting voluntary contributions and case studies by member States and relevant stakeholders. The workshop provided brought together experts in macroeconomic analysis and the forest sector. The Joint Section invited the contributions from and organised the workshop in partnership with key organisations, active in the development of international measuring systems for a green economy: the Green Growth Knowledge Platform (GGKP), Organisation for Economic Cooperation and Development (OECD), The Economics of Ecosystems and Biodiversity (TEEB) Initiative at the United Nations Environment Programme (UNEP) and the Wealth Accounting and the Valuation of Ecosystem Services (WAVES) Partnership of the World Bank. Also, the Statistical Divisions of UNECE and FAO were consulted and invited to provide their contributions to the discussion. Meeting webpage: http://www.unece.org/index.php?id=42822 Report of the workshop: http://www.unece.org/fileadmin/DAM/timber/meetings/20161021/Workshop_report_-_Measuring_the_value_of_forests_in_a_green_economy.pdf	Member States and stakeholders voluntarily submitted information about activities that contribute to the implementation of the Rovaniemi Action Plan. This information will contribute to monitoring green economy developments in the ECE region through the means of the mid-term review of the Rovaniemi Action Plan. The workshop concluded that there are synergies between the work of the green economy and forest sector experts and it will be possible to develop a narrative for the forest sector aligned with the one on green economy and the green growth. To achieve that, there is a need to work together and build intra-agency, cooperative networks.

	Objective	Actors	Action	Description / Source of information	Results achieved
E.5.4	Establish cross-sectoral working groups, develop contacts with other green economy sectors, and share experience (also international) and identify success factors.	UNECE/FAO			