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The impact of EU consumption on deforestation:
Proposal of specific Community policy,
legislative measures and other initiatives for
further consideration by the Commission

Final report

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The impact of EU consumption on deforestation: Proposal of specific Community policy, legislative measures and other initiatives for further consideration by the Commission







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SUMMARY

The impacts of EU consumption of food and non-food imports on deforestation: Proposing specific Community policy and legislative measures and other initiatives

The consumption of food and non-food products by the EU27 has an impact on deforestation. To meet its consumption the EU27 not only relies upon its own productive agricultural land and forests, but it also has an impact beyond its borders. In the previous project tasks it was concluded that the EU27 is a large importer of land embodied in commodities and products. In some third countries the expansion of agricultural land and exploitation of forest resources ultimately leads to deforestation. It was quantified how the EU27 imports deforestation embodied in the commodities and products consumed.

Based on the criteria developed in the previous task 3 of this study, it was concluded that deforestation embodied in EU consumption is potentially impacted by the following EU policies: Climate and Renewable energy policy, Common Agricultural Policy, Forestry Strategy, Biodiversity Strategy, Sustainable Production and Consumption Policy, Trade Policy, Investment Policy, Development Cooperation Policy and Research and Innovation policy.

In this report, possible Community policies and legislative measures and initiatives on other levels to address the impact of EU consumption on worldwide deforestation are identified and described. The options cover different types of measures: regulatory measures, voluntary measures, market-based instruments, information and awareness raising, funding mechanism, capacity building and technical assistance.

It should be noted that the study has only evaluated policy proposals against the criteria of impacts on deforestation, efficiency and side effects; hence options in terms of trade policy considerations, economic impacts and feasibility, including from a legal point of view, have not been assessed in this study.

The identified options are described using a template which is meant to facilitate a comprehensive description of a policy proposal. This includes its functioning, the actors / entities involved as well as the problem targeted and its objectives.

The identified options are then assessed against a set of three relevant evaluation criteria through a qualitative evaluation method.

In the final section of the report the identified options are prioritised. The prioritisation of the options is complemented by a sensitivity analysis on the basis of which the critical parameters and trade-offs are determined.

A number of policy measures perform well regardless of the weighing options considered.:

- Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials);
- Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities
- Policy proposal 18: Mandatory labelling of the forest footprint of (food) products;
- Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation;
- Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation;

Some other options that are described are also worth considering and studying further.

The results of this prioritisation and ranking exercise are dependent on the subjective evaluation criteria and weights used and the scores attributed to the policy proposals. Furthermore, the performance of a specific proposal depends on the consistency and complementarities of the set of proposals to be installed. The study does not propose a complete set of proposed policy measures, but should be considered as an input in a process that can ultimately result in new policy development, by consulting all stakeholders and using all available tools, such as Impact Assessments.

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LIST OF ACRONYMS

ACP Africa, Caribbean and the Pacific
ASEAN Association of Southeast Asian Nations

BIT Bilateral Investment Treaty
CAP Common Agriculture Policy
CoP Conference of the Parties

CGIAR Consultative Group on International Agricultural Research

CSR Corporate social responsibility
CEP Country Environmental Profiles
IDH Dutch Sustainable Trade Initiative
EPA Economic Partnership Agreement

ESG Environmental, social and corporate governance

EIB European Investment Bank
EBA Everything But Arms regulation

ECA Export Credit Agency

COMEOS Federation for Trade and Services FAO Food and Agriculture Organization

FDI Foreign Direct Investment

FAP Forest Action Plan

FFD Forest footprint disclosure

FLEGT Forest Law Enforcement, Governance and Trade

FAP Forestry Action Plan FTA Free Trade Agreement

Mercosur Free Trade Area among Brazil, Argentina, Paraguay and Uruguay

GSP Generalized System of Preferences

GIZ Gesellschaft für Internationale Zusammenarbeit

GRI Global Reporting Initiative

GRSB Global Roundtable for Sustainable Beef

GHG Green House Gas

iLUC Indirect Land-Use Change

IFC International Finance Corporation
IIA International Investment Agreement
LULUCF Land Use, Land-Use Change and Forestry

LDC Least Developed Country

MEA Multilateral Environmental Agreement NREAP National Renewable Energy Action Plans

OECD Organization for Economic Cooperation and Development

PES Payment for Ecosystem Services

PRI Principles for Responsible Investment Initiative

REDD+ Reduced Emissions from Deforestation and forest Degradation

RF Retail forum

RWE Rheinisch-Westfälisches Elektrizitätswerk

RTRS Round Table on Responsible Soy
RTRS Roundtable on Responsible Soy
RSB Roundtable on Sustainable Biofuels
RSPO Roundtable on Sustainable Palm Oil
SRI Socially Responsible Investing

SEA Strategic Environmental Assessment

List of Acronyms

SIA Sustainability Impact Assessment

SCP Sustainable Consumption and Production

TFT Tropical Forest Trust

UNFCCC United Nations Framework Convention on Climate Change

WRAP Waste Resources Action Programme

WTO World Trade Organisation

CHAPTER 1 INTRODUCTION

This report proposes specific Community policy and legislative measures and other initiatives for reducing the impacts of EU consumption of food and non-food imports on deforestation. The analysis presented in this report is based on the results of both Task 2 'Comprehensive analysis of the impact of EU consumption of imported food and non-food commodities and manufactured goods on deforestation' and Task 3 'Identification of the Community policy areas with the greatest potential for reducing pressure on forests in third countries'.

Information on the type and use of imported goods and commodities that are important in terms of embodied deforestation as well as on the EU policies and regulations that are likely to have the highest potential to reduce the impact of EU consumption on deforestation outside the EU are the basis of the identification of possible policies measures. Therefore, this report starts with a brief summary of the key conclusions from Task 2 and Task 3.

After that, possible Community policies, legislative measures and initiatives that can be taken at other levels to address the impact of EU consumption on deforestation in third countries are identified and described. The options cover different types of measures: regulatory measures, voluntary measures, market-based instruments, information and awareness raising, funding mechanism, capacity building and technical assistance.

The identified options are then assessed against a set of three relevant evaluation criteria (impact on deforestation, efficiency and side effects) through a qualitative evaluation method. The performance of an option on the evaluation criteria is translated into a criterion specific score.

It should be noted that the study has only evaluated policy proposals against the criteria of impacts on deforestation, efficiency and side effects; hence options in terms of trade policy considerations, economic impacts and feasibility, including from a legal point of view, have not been assessed in this study.

In the final section of the report the identified options are prioritised. The prioritisation of the options is complemented by a sensitivity analysis on the basis of which the critical parameters and trade-offs are determined.

CHAPTER 2 RESULTS FROM THE PREVIOUS TASKS OF THE STUDY

The study has four main objectives. The first two objectives were addressed earlier in respectively the task 2 and the task 3 report, the latter two objectives are elaborated in this report.

The objectives are:

- produce a comprehensive analysis of the impacts of EU consumption of imported food and non-food commodities and manufactured goods on deforestation; [task 2 report]
- identify areas where Community policies and where applicable legislation would need to be reviewed in order to support efforts to reduce deforestation; [task 3 report]
- make specific suggestions for how the policies identified could be oriented to reduce EU impacts on deforestation; [task 4]
- list other possible policy measures at other levels (e.g. EU Member State, multilateral, private sector) that could support the overall objective of reducing the loss of forest cover in third [task 4]

In this chapter the main results from the previous tasks are reported and commented upon.

The Task 3 report 'Identification of the Community policy areas with the greatest potential for reducing pressure on forests in third countries' serves as a basis to the current analysis.

In task 3, criteria have been developed to evaluate the relevance of policies to be capable of achieving a reductive effect on third country deforestation.

For a policy to be relevant, it must be able to satisfy one or more of the following criteria (including its further development, if envisaged):

- Reduce the land use linked to the production of primary commodities at source;
- Reduce the level of deforestation linked to the production of the identified primary commodities;
- Reduce the embedded deforestation of products produced;
- Contribute to the supply chain of commodities, products and services with no or lower deforestation impact;
- Reduce EU consumption (in general, and more specifically of commodities, products and services having deforestation impacts at global scale)

Based on the above criteria the following EU policies and policy areas were identified: Climate and Renewable energy policy, Common Agricultural Policy, Forestry Strategy, Biodiversity Strategy, Sustainable Production and Consumption Policy, Trade Policy, investment Policy, Development Cooperation Policy and Research and Innovation policy.

In this task 4 report, the focus will be on individual policy measures. For this purpose, the same criteria as described above will be used to evaluate the potential impact of individual policy measures.

In task 3, each policy is described individually with a focus on its potential effect on reducing third country deforestation, or in the more negative case on its contribution to increased deforestation. In case different policies may have conflicting effects on deforestation, this is highlighted in the

description. However the study did not address potential conflicts between EU policies. As an example, the Common Agricultural Policy objective to encourage increased EU production could potentially come into conflict with development cooperation activities. In such a case the report only described the potential impact of both policies on deforestation, but made no statements on a 'conflict' between the two, as this is outside the scope of the project.

Task 2, on the other hand, quantifies the impact of EU consumption on worldwide deforestation. It provides the basis for the assessment made in Task 3 and 4. In the next paragraphs, the results of Task 2 are summarized and linked to the follow-up in the Task 3 and 4 reports.

When looking at deforestation embodied in total final consumption, the EU27 is **consuming** 732 kha (2004) or 10% of the global embodied deforestation consumption (7,290 kha per year). Deforestation embodied in EU27 consumption is almost entirely due to imports, as deforestation within the EU is negligible. Therefore Trade Policy and Sustainable Production and Consumption Policy are very important.

Over the period 1990-2008, the EU27 **imported** almost 36% of all deforestation embodied in crop and livestock products **traded** between regions.

The highest share of embodied deforestation was traded through international crop product trade. Consequently, the import of embodied deforestation through the import of crop products was the main cause of the strong link between the EU27 and embodied deforestation. Of the overall deforestation embodied in traded crop products over the period 1990-2008, one third was consumed by the EU economy.

The EU27 imported more than one quarter of the global embodied deforestation in ruminant livestock products during the period 1990-2008. Therefore policy measures targeting imported crop products and meat consumption could potentially have an important impact and could be prioritised.

The EU27 produces a large share of the goods and services consumed in the EU27, while using raw and semi-processed agricultural and forestry commodities imported from other regions. The sectors of final consumption with the largest allocation of embodied deforestation are dominated by agricultural and food products, but processed products are often important, such as furniture and clothing. We found that service sectors (trade, public administration, health, education) had a large impact, due to a high share of expenditure on services and the use of processed products like food and paper in the service sectors. Figure 2—1 shows the relative importance of deforestation embodied in different goods and services sectors of final consumption in the EU27. The main goods and services are those that require food (both food from animal as non-animal origin), but general service sectors like trade, public administration, health and education do not only consume food, but also a wide variety of other products.

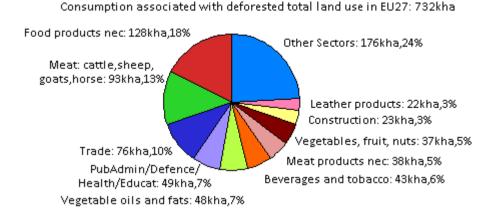


Figure 2—1 Consumption of goods and services associated with deforestation allocated by sector for the EU27 (2004). The pie chart only explicitly shows sectors covering 75% of the total are shown explicitly. The sectors shown represent the goods and services that were consumed in the EU27.

When aggregated per sector, food dominates the impact (60%, with 18% meat and 42% other food). Food consumption, and to a lesser extent food production, will therefore receive special attention in the policy measures to be proposed. The service sectors are the second most important (22%), although this is mainly due to high expenditure and consumption of food products in addition to paper, furniture, etc. Wood and associated products represent 5%, and also textiles including leather (6%) and manufactured products (3%) are significant.

As illustrated by the Task 2 report, land use associated with the production of goods and services within the EU27 is only half the amount of land use associated with EU consumption, meaning that the other half of the resulting land use impact takes place in third countries. The EU Common Agricultural Policy has a direct impact on land use associated with the production of agricultural commodities in the EU, but also an indirect impact on land use outside the EU, as both variables are linked to each other. EU policy measures could aim at reducing EU consumption of commodities and products with high deforestation impact or at reducing the embedded deforestation of products produced.

The study point towards South America and in particular Brazil and Argentina as the main sources for embodied deforestation associated with the consumption of agricultural and forestry products or goods and services within the EU27. This is mainly due to the import of soybeans and soybean cake used in many EU sectors. The expansion of soybean crops is the largest driver of deforestation in the analysed period.

For the period 1990-2008 amongst all commodities imported in the EU, oil crops are the most important, mainly due to soybeans and soybean products from Brazil, Argentina and Paraguay, and palm oil from Indonesia and Malaysia. Another important group are stimulants. Cocoa bean production has expanded in African countries like Ghana, Nigeria, Cameroon and Togo, but also Indonesia is an important country of origin. Coffee associated with deforestation was mainly imported from Latin American countries like Peru, Honduras, Nicaragua and Colombia, but also from Southeast Asian countries like Indonesia, Vietnam and Laos and some African countries (Kenya, Uganda and Tanzania).

Figure 2-2 gives the order of importance of different combinations of crop products and their country of origin. Only the most important combinations (share > 1%) are shown in detail.

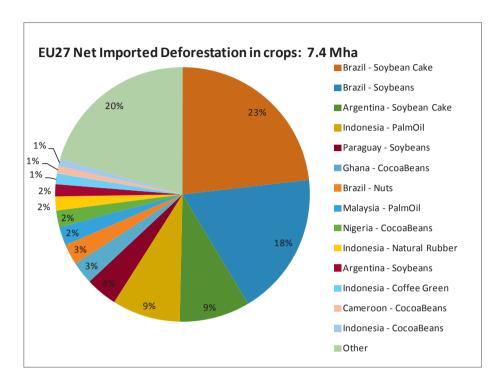


Figure 2-2 Most important crop commodities and countries of origin for deforestation embodied in crop imports into the EU27 (1990-2008)

Livestock products with embodied deforestation are mainly imported from South America and Sub-Saharan Africa.

Policy measures could contribute to the promotion of a supply chain of products with low deforestation impact, e.g. as part of trade policy, investment policy or development co-operation.

Impacts of policy developments that took place after 2008, could not be studied in task 2. Task 3 also looked at recent policy development, but was limited to EU policy. However there was a need to take into account relevant measures at other levels than Community policies (e.g. EU Member State, third countries multilateral, private sector). An overview of such measures will be given in CHAPTER 3.

CHAPTER 3 MEASURES AT OTHER LEVELS THAN COMMUNITY POLICIES (E.G. EU MEMBER STATE, MULTILATERAL, PRIVATE SECTOR) THAT COULD SUPPORT THE OVERALL OBJECTIVE OF REDUCING THE LOSS OF FOREST COVER IN THIRD COUNTRIES

3.1. Introduction and approach

This overview was prepared based on the information obtained during and after a stakeholder workshop on 29 June 2012 and during the Ad Hoc Flegt meeting between the European Commission services and Member States on 19 June 2012. The information was verified and complemented by the Contractor as necessary to provide an updated frame of the recent or ongoing initiatives that are relevant to respond to the objective of this study.

In the table overleaf an overview of policy measures at other levels than Community policies (e.g. EU Member State, multilateral, private sector) has been provided.

The items under "Link with policy evaluation criteria" refer to the evaluation criteria that have been used in Task 3 for determining the relevance of a particular policy, i.e. for determining whether they have a potential positive effect on reducing third country deforestation. Specifically, for a policy measure to be capable of achieving a reductive effect on third country deforestation, it must have the potential to satisfy one or more of the following criteria:

- 1.a. Reduce the land use linked to the production of primary commodities at source;
- 1.b. Reduce the level of deforestation linked to the production of the identified primary commodities;
- 2. Reduce the embedded deforestation of products produced;
- 3. Contribute to the supply chain of commodities, products and services with no or lower deforestation impact;
- 4. Reduce EU consumption (in general, and more specifically of commodities, products and services having deforestation impacts at global scale).

3.2. POLICY MEASURES AT OTHER LEVELS (E.G. EU MEMBER STATE, MULTILATERAL, PRIVATE SECTOR) THAT COULD SUPPORT THE OVERALL OBJECTIVE OF REDUCING THE LOSS OF FOREST COVER IN THIRD COUNTRIES

Initiative	Brief description, examples	Link with policy evaluation		uation ci	riteria	
		1.a	1b	2.	3.	4.
1. Member state initiatives						
Guide sustainable procurement (Federaal Actieplan Duurzame Overheidsopdrachten) – Belgium	This guide provides practical help in choosing sustainable products and services, with information on environmental and social criteria, labels, and sustainable public procurement. Product categories include leather products, outdoor furniture, wood pellets, and other wood products.				х	х
Sectorial agreement of 1 March 2011 aiming at increasing the supply of wood products sourced from forests that are managed sustainably – Belgium	Agreement signed between the Belgian government and 9 sector federations such as the Federation for Trade and Services (COMEOS), the Wood import Trade Federation, the Federation of Sawing Mills, the Federation of Textile-, Wood- and Furniture Industry, the construction sector, The agreement aims at increasing the market share of wood products sourced from sustainably managed forests and at awareness raising. http://www.health.belgium.be/eportal/Environment/BiodiversityandGMO/Biodiversity/Forests/Usingwoodsustainably/index.htm			x	x	
Dutch Sustainable Trade Initiative (IDH) – The Netherlands	IDH is initiated and funded by the Dutch government. It is a public-private partnership for accelerating sustainable trade, focusing on among others. cocoa, soy, tropical timber, and cotton. IDH convenes coalitions of front running companies, civil society organizations and governments to transform markets towards sustainable production and consumption worldwide. The scale on which IDH operates derrives from the concept of working with private companies who bring in funds, enterpreneurship and procurement power, governments that add legislation, laws, regulations and funds, and civil society that brings in know-how, networks, local expertise and credibility www.idhsustainabletrade.com/		x			
Forest Initiative for Global development / Focali (Forest, Climate, and Livelihood research network) – Sweden	Focali (Forest, Climate, and Livelihood research network) is a Swedish research network focusing on forest/bio-energy, climate change and poverty issues. Focali is a part of the Forest Initiative which is a strategic partnership between Sida, the Swedish Forest Agency and the Swedish Forestry Association. The initiative also supports REDD+ pilots http://www.focali.se and http://www.focali.se and http://www.focali.se and http://www.skogsinitiativet.se/pub/viewStartPage .					
Generational goal – Sweden	The objective is to achieve zero deforestation or zero impact on the environment outside Sweden. The overall goal of Swedish environmental policy is to hand over to the next generation a society in which the major environmental problems in Sweden have been solved,				х	х

Initiative	Brief description, examples	Link with policy evaluation crit		riteria		
		1.a	1b	2.	3.	4.
	without increasing environmental and health problems outside Sweden's borders http://www.miljomal.se/Environmental-Objectives-Portal/Undre-meny/About-the-Environmental-Objectives/Generation-goal/					
Network on reducing food waste (private sector, governments, knowledge institutions) – Sweden, Denmark, Norway, Finland	The project focuses on reducing the amounts of food waste in the retail and wholesale sector. Financed by the Nordic Council of Ministers (Sweden, Denmark, Norway, Finland) http://www.ivl.se/download/18.7df4c4e812d2da6a416800089028/B1988.pdf			х	х	
Promotion of environmentally smarter food choices – initiated at EU level by Sweden	The National Food Administration and the Environmental Protection Agency of Sweden jointly drafted guidelines on diet choices for health and the environment, called "Environmentally Effective Food Choices." Sweden has become the first country to establish new food policies that consider the environmental aspects of human food choices along with individual health matters. http://www.slv.se/upload/dokument/miljo/environmentally effective food choices proposal eu 2009.pdf					х
Time-bound voluntary private sector commitments – UK	 Voluntary commitment with food retailers and manufacturers on waste reduction targets (Courtauld Commitment 2005-2010; 2010-2012) www.wrap.org.uk/content/courtauld-commitment-2-0. Current phase targets include: reduce the carbon impact of grocery packaging by 10% by the end of 2012 reduce UK household food and drink waste by 4% by the end of 2012 reduce product and packaging waste in the grocery supply chain by 5% by the end of 2012. Hospitality and Food Service Agreement on food waste. Launched 27 June 2012, companies have signed up to two targets (www.wrap.org.uk/content/leading-hospitality-and-food-service-companies-sign-waste-agreement). These targets are for the signatories 				x	х
	to meet as a group, not for individual companies to pass and fail individually: 1. Reduce food and packaging waste by 5% by 2015 2. To manage, by 2015, 70% of the waste that does arise through recycling, compositing or anaerobic digestion. - Work is underway with industry trade associations on a voluntary UK National Statement on a transition to sustainable palm oil. https://www.dfid.gov.uk/Documents/publications1/press-releases/UK-government-and-business-partnership-to-tackle-deforestation.pdf					
Consumer information - UK	- Guidance for industry on the application of date label to food (i.e. best-before and use-by) www.defra.gov.uk/publications/files/pb132629-food-date-labelling-110915.pdf				х	х

CHAPTER 3 Measures at other levels than Community policies (e.g. EU Member State, multilateral, private sector) that could support the overall objective of reducing the loss of forest cover in third countries

Initiative	Brief description, examples	Link with policy evaluation crit			riteria	
		1.a	1b	2.	3.	4.
Awareness raising (consumers and business) – UK	 Waste Resources Action Programme (WRAP) is a public funded body that works with government, business and consumers to reduce waste and promote recycling (including in relation to food). www.wrap.org.uk/content/about-wrap. One of the key WRAP consumer facing campaigns is love food hate waste campaign www.lovefoodhatewaste.com/ 				х	х
Sustainable public sector procurement - UK	 UK timber procurement policy, which requires that all timber and wood-derived products bought by central government departments (voluntary for local government, hospitals, schools etc) must be from: i) independently verifiable legal and sustainable sources; or ii) FLEGT-licensed timber or equivalent sources www.cpet.org.uk/uk-government-timber-procurement-policy/. Linked to this is the publically funded Central Point of Expertise on Timber which provides advice and training on how public sector buyers and their suppliers can meet the policy requirements of the UK timber procurement policy www.cpet.org.uk/about-cpet/our-services. 				x	x
REDD+ finance – UK	 UK has an International Climate Fund (£2.9bn over 2011-2015) aimed at helping developing countries tackle climate change and reduce poverty. Forest finance is one of the key themes of the Fund (accounting for up to 20%) www.decc.gov.uk/en/content/cms/tackling/international/icf/icf.aspx Forest Governance Markets and Climate programme, which is part of the ICF, aims to support governance and market reforms that reduce the illegal use of forest resources and benefit the poor. This includes support for FLEGT Voluntary Partnership Agreements and looks to extend the experience from the illegal logging regime to commodities such as palm oil, soy and livestock. http://projects.dfid.gov.uk/project.aspx?Project=201724 		х			
R&D - UK	 Research into UK palm oil consumption and a review of policy options relating to sustainable palm oil sourcing www.proforest.net/proforest-news/defra-palm-oil-report/defra-report-on-uk-palm-oil-consumption-and-sustainable-policy-options-published Co-funded research with industry into environmental consequences of using home grown legumes as a protein source in pig diets (Green Pig Project) www.bpex.org/R-and-D/R-and-D/GreenPig.aspx 				х	х
2. Multilateral initiatives REDD finance	Comprehensive finance mechanism to support implementation of REDD under the UNFCCC framework. http://unfccc.int/files/methods-science/redd/application/pdf/tfd-redd-finance-		х			+
(European) Roundtable on Sustainable Consumption and	background-paper.pdf Initiative coordinated by the European Topic Centre on Sustainable consumption and production http://scp.eionet.europa.eu/ . Issues include Innovative Policy Instruments and			х	х	X

Initiative	Brief description, examples		with pol	icy evalu	uation ci	riteria
		1.a	1b	2.	3.	4.
Production (SCP)	bottom-up initiatives for an SCP action plan, Blueprint on SCP, changing consumer lifestyles, changing lifestyles and creating markets and how to work collectively with the retailer sector for effective communication of product chain information to consumers.					
Partnership to benchmark the environmental performance of livestock food chains – FAO Animal Production and Health Division (AGA) has the lead	Multi-stakeholder initiatives coordinated by FAO to benchmark and monitor the environmental performance of livestock food chains. Range of environmental criteria covered, i.e. GHG emissions, water, nutrient cycles. The partnership will seek to improve the evidence-base for decision making http://www.fao.org/ag/againfo/home/en/news_archive/AGA in action/2011 livestock food chains.html	х		х		
The United Nations-backed Principles for Responsible Investment Initiative (PRI)	PRI is a network of international investors working together to put the six Principles for Responsible Investment into practice. They reflect the view that environmental, social and corporate governance (ESG) issues can affect the performance of investment portfolios and therefore must be given appropriate consideration by investors. The Principles provide a voluntary framework by which all investors can incorporate ESG issues into their decision-making and ownership practices and so better align their objectives with those of society at large. http://www.unpri.org	X	х	x	x	
International Finance Corporation's (IFC's) work on responsible finance. Worldbank	With donor support from the Global Environmental Facility, the IFC started the Biodiversity and Agricultural Commodities Program to promote best environmental and social practices, particularly in the production and overall supply chain of such commodities as palm oil, soybeans, sugarcane, and cocoa. http://www1.ifc.org/wps/wcm/connect/corp ext content/ifc external corporate site/home		х			
FAO's Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security	These Guidelines are intended to contribute to the global and national efforts towards the eradication of hunger and poverty, based on the principles of sustainable development and with the recognition of the centrality of land to development by promoting secure tenure rights and equitable access to land, fisheries and forests. The eradication of hunger and poverty, and the sustainable use of the environment, depend in large measure on how people, communities and others gain access to land, fisheries and forests. The livelihoods of many, particularly the rural poor, are based on secure and equitable access to and control over these resources. They are the source of food and shelter; the basis for social, cultural and religious practices; and a central factor in economic growth. http://www.fao.org/nr/tenure/en/	х	х			
OECD Guidelines for Multinational Enterprises	The Guidelines are recommendations by governments covering all major areas of business ethics, including corporate steps to obey the law, observe internationally-recognised standards and respond to other societal expectations. The Guidelines were updated in 2011. http://www.oecd.org/investment/guidelinesformultinationalenterprises/48004323.pdf		х	х		
OECD due diligence guidance for	The OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-		Х	1	1	1

CHAPTER 3 Measures at other levels than Community policies (e.g. EU Member State, multilateral, private sector) that could support the overall objective of reducing the loss of forest cover in third countries

Brief description, examples	Link \	with pol	icy evalu	iation cr	iteria
	1.a	1b	2.	3.	4.
Affected and High-Risk Areas provides step-by-step management recommendations endorsed by governments for global responsible supply chains of minerals in order for companies to respect human rights and avoid contributing to conflict through their mineral or metal purchasing decisions and practices. The Due Diligence Guidance may be used by any company potentially sourcing minerals or metals from conflict-affected and high-risk areas, and is intended to cultivate transparent conflict-free supply chains and sustainable corporate					
engagement in the minerals sector. http://www.oecd.org/daf/internationalinvestment/guidelinesformultinationalenterprises/4674 0847.pdf					
multi-stakeholder setting)					
Forest Footprint Disclosure (explain acronym)offers for the private sector a place to collaborate with others in order to understand the reality and the options in global supply chains as well as the opportunities that arise from improved business practices. FFD supports best practice including using global certification standards to help avoid deforestation. FFD acts as a central point of exchange for information, research and best practice case studies on deforestation issues, encouraging innovation through exchange and collaboration with all stakeholders. http://www.forestdisclosure.com	х	x	x		
Partnership between Nestlé and the Tropical Forest Trust to source sustainable palm oil (a.o. not leading to deforestation) and to conserve High Conservation Value Forests. The arrangement also includes regular meetings with Greenpeace to communicate on progress. http://www.tft-forests.org		х	х	х	
Manufacturers back the EU measures to halve the food waste by 2025. They are committed to take voluntary efforts to minimize waste. Examples include practices to avoid waste and optimize use of raw materials by recovering parts that do not go into the finished food product, such as by-products like coffee grounds to produce renewable energy or beet pulp to provide sound animal feed.			х	х	
RTRS is an international multi-stakeholder initiative, founded in 2006, that promotes the use and growth of sustainable soy. RTRS sustainable standard and principles were adopted in 2011 http://www.responsiblesoy.org	х	х	х	х	
RSPO, established in 2004, is a not-for-profit association that unites stakeholders from seven sectors of the palm oil industry - oil palm producers, palm oil processors or traders, consumer goods manufacturers, retailers, banks and investors, environmental or nature conservation NGOs and social or developmental NGOs - to develop and implement global standards for sustainable palm oil. http://www.rspo.org	х	х	Х	х	
	Affected and High-Risk Areas provides step-by-step management recommendations endorsed by governments for global responsible supply chains of minerals in order for companies to respect human rights and avoid contributing to conflict through their mineral or metal purchasing decisions and practices. The Due Diligence Guidance may be used by any company potentially sourcing minerals or metals from conflict-affected and high-risk areas, and is intended to cultivate transparent, conflict-free supply chains and sustainable corporate engagement in the minerals sector. http://www.oecd.org/daf/internationalinvestment/guidelinesformultinationalenterprises/4674 0847.pdf **Multi-stakeholder setting** Forest Footprint Disclosure (explain acronym)offers for the private sector a place to collaborate with others in order to understand the reality and the options in global supply chains as well as the opportunities that arise from improved business practices. FFD supports best practice including using global certification standards to help avoid deforestation. FFD acts as a central point of exchange for information, research and best practice case studies on deforestation issues, encouraging innovation through exchange and collaboration with all stakeholders. http://www.forestdisclosure.com Partnership between Nestlé and the Tropical Forest Trust to source sustainable palm oil (a.o. not leading to deforestation) and to conserve High Conservation Value Forests. The arrangement also includes regular meetings with Greenpeace to communicate on progress. http://www.tfr-forests.org Manufacturers back the EU measures to halve the food waste by 2025. They are committed to take voluntary efforts to minimize waste. Examples include practices to avoid waste and optimize use of raw materials by recovering parts that do not go into the finished food product, such as by-products like coffee grounds to produce renewable energy or beet pulp to provide sound animal feed. RTRS is an international multi-stakeholder initiative, founded in 20	Affected and High-Risk Areas provides step-by-step management recommendations endorsed by governments for global responsible supply chains of minerals in order for companies to respect human rights and avoid contributing to conflict through their mineral or metal purchasing decisions and practices. The Due Diligence Guidance may be used by any company potentially sourcing minerals or metals from conflict-affected and high-risk areas, and is intended to cultivate transparent, conflict-free supply chains and sustainable corporate engagement in the minerals sector. http://www.oecd.org/daf/internationalinvestment/guidelinesformultinationalenterprises/4674 0847.pdf **Multi-stakeholder setting** Forest Footprint Disclosure (explain acronym)offers for the private sector a place to collaborate with others in order to understand the reality and the options in global supply chains as well as the opportunities that arise from improved business practices. FFD supports best practice including using global certification standards to help avoid deforestation. FFD acts as a central point of exchange for information, research and best practice case studies on deforestation issues, encouraging innovation through exchange and collaboration with all stakeholders. http://www.forestdisclosure.com** Partnership between Nestlé and the Tropical Forest Trust to source sustainable palm oil (a.o. not leading to deforestation) and to conserve High Conservation Value Forests. The arrangement also includes regular meetings with Greenpeace to communicate on progress. http://www.tft-forests.org** Manufacturers back the EU measures to halve the food waste by 2025. They are committed to take voluntary efforts to minimize waste. Examples include practices to avoid waste and optimize use of raw materials by recovering parts that do not go into the finished food product, such as by-products like coffee grounds to produce renewable energy or beet pulp to provide sound animal feed. RTRS is an international multi-stakeholder initiative, founded i	Affected and High-Risk Areas provides step-by-step management recommendations endorsed by governments for global responsible supply chains of minerals in order for companies to respect human rights and avoid contributing to conflict through their mineral or metal purchasing decisions and practices. The Due Diligence Guidance may be used by any company potentially sourcing minerals or metals from conflict-affected and high-risk areas, and is intended to cultivate transparent, conflict-free supply chains and sustainable corporate engagement in the minerals sector. http://www.oecd.org/daf/internationalinvestment/guidelinesformultinationalenterprises/4674 0847.pdf Forest Footprint Disclosure (explain acronym)offers for the private sector a place to collaborate with others in order to understand the reality and the options in global supply chains as well as the opportunities that arise from improved business practices. FFD supports best practice including using global certification standards to help avoid deforestation. FFD acts as a central point of exchange for information, research and best practice case studies on deforestation issues, encouraging innovation through exchange and collaboration with all stakeholders. http://www.forestdisclosure.com Partnership between Nestlé and the Tropical Forest Trust to source sustainable palm oil (a.o. not leading to deforestation) and to conserve High Conservation Value Forests. The arrangement also includes regular meetings with Greenpeace to communicate on progress. http://www.tft-forests.org Manufacturers back the EU measures to halve the food waste by 2025. They are committed to take voluntary efforts to minimize waste. 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The Due Diligence Guidance may be used by any company potentially sourcing minerals or metals from conflict-affected and high-risk areas, and is intended to cultivate transparent, conflict-free supply chains and sustainable corporate engagement in the minerals sector. http://www.oecd.org/daf/internationalinvestment/guidelinesformultinationalenterprises/4674 0847.pdf **Multi-stakeholder setting** Forest Footprint Disclosure (explain acronym)offers for the private sector a place to collaborate with others in order to understand the reality and the options in global supply chains as well as the opportunities that arise from improved business practices. FFD supports best practice including using global certification standards to help avoid deforestation. 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Examples include practices to avoid waste and optimize use of raw materials by recovering parts that do not go into the finished food product, such as by-products like coffee grounds to produce renewable energy or beet pulp to provide	Affected and High-Risk Areas provides step-by-step management recommendations endorsed by governments for global responsible supply chains of minerals in order for companies to respect human rights and avoid contributing to conflict through their mineral or metal purchasing decisions and practices. The Due Diligence Guidance may be used by any company potentially sourcing minerals or metals from conflict-affected and high-risk areas, and is intended to cultivate transparent, conflict-free supply chains and sustainable corporate engagement in the minerals sector. http://www.oecd.org/daf/internationalinvestment/guidelinesformultinationalenterprises/4674 0847.pdf Multi-stakeholder setting) Forest Footprint Disclosure (explain acronym)offers for the private sector a place to collaborate with others in order to understand the reality and the options in global supply chains as well as the opportunities that arise from improved business practices. FFD supports best practice including using global certification standards to help avoid deforestation. FFD acts as a central point of exchange for information, research and best practice case studies on deforestation issues, encouraging innovation through exchange and collaboration with all stakeholders. http://www.forestdisclosure.com Partnership between Nestlé and the Tropical Forest Trust to source sustainable palm oil (a.o. not leading to deforestation) and to conserve High Conservation Value Forests. The arrangement also includes regular meetings with Greenpeace to communicate on progress. http://www.tft-forests.org Manufacturers back the EU measures to halve the food waste by 2025. They are committed to take voluntary efforts to minimize waste. Examples include practices to avoid waste and optimize use of raw materials by recovering parts that do not go into the finished food product, such as by-products like coffee grounds to produce renewable energy or beet pulp to provide sound animal feed. RTRS is an international multi-stakeholder initiative, founded in 2006,

Initiative	Brief description, examples	Link	with po	licy eval	uation c	riteria
		1.a	1b	2.	3.	4.
beef (GRSB)	production of beef, through the commitment of stakeholders in the beef value chain.					
Private company standards	A growing number of companies is developing CSR standards, also to comply with the standards and guidelines of GRI (Global Reporting Initiative)	×	x	х	x	
IKEA: zero deforestation policy (due diligence system for timber; certified palm oil; leather due diligence)	IKEA has adopted a zero deforestation policy, aiming to source raw materials and half products that do not cause deforestation. http://www.ikea.com/ms/en_GB/pdf/people_planet_positive/People_planet_positive.pdf		х	Х	х	
Unilever: 2020 Sustainability Plan	Launched in 2010, Unilever plans to improve the health of 1 billion people, to buy 100% of its agricultural raw materials from sustainable sources, and to reduce the environmental impact of everything it sells by one-half, while doubling its revenues. One of the targets is sourcing 100% of agricultural raw materials sustainably by 2015, including 100% sustainable palm oil. http://www.unilever.com/sustainable-living/uslp/		х	Х	х	
Retail Forum a multi-stakeholder platform deforestation to be addressed in the coming years).	The Retail Forum is a multi-stakeholder platform set up in order to exchange best practices on sustainability in the European retail sector and to identify opportunities and barriers that may further or hinder the achievement of sustainable consumption and production. Under the 2012 – 2014 work plan the Retail Forum will address the issue of deforestation. An issue paper will be drafted that will analyze the EU legislative framework, identify barriers and opportunities, highlight best practices, and suggest possible areas of action for policy-makers, retailers and other actors. http://ec.europa.eu/environment/industry/retail/index_en.htm		X	x	x	
Leaders For Nature - Netherlands	Leaders for Nature is the IUCN NL business network of twenty multinationals and major Dutch enterprises working together on greening the economy. http://www.leadersfornature.nl/	х	х	Х	х	
The Equator Principles Association (UK based)	The Equator Principles (EP) Association is the unincorporated association of member Equator Principles Financial Institutions and Associates. The Equator Principles is a credit risk management framework for determining, assessing and managing environmental and social risk in Project Finance transactions. Project Finance is often used to fund the development and construction of major infrastructure and industrial projects. http://www.equator-principles.com/		х	х		
4. National initiatives (outside EU)						
Moratoria, land use planning and certification —Brazil, Argentina, Indonesia	By setting out moratoria, and developing and implementing a vision on land use planning, national authorities can have a significant positive influence on deforestation. These kinds of initiatives for oil-crops have been developed in Brazil, Argentina and Indonesia and have proven to have positive spill-over effects to other applications. Some of these moratoria have been installed regardless of the final application of the crops These moratoria were established because of the ongoing discussions on deforestation in the RTRS and RSPO, the public debate and especially due to pressure of Greenpeace campaigns.	х	х		x	

CHAPTER 3 Measures at other levels than Community policies (e.g. EU Member State, multilateral, private sector) that could support the overall objective of reducing the loss of forest cover in third countries

Initiative	Brief description, examples	Link	with po	licy eva	luation c	riteria
		1.a	1b	2.	3.	4.
	Due to these factors multinational companies decided to establish the moratoria. The Brazil soy moratorium is successful and is extended ever since. There is no such moratorium in Argentina. In Paraguay there has been (or still is) a moratorium on tree logging, this is primarly related with the beef industry.					
	INDONESIA- TIMBER, PALM OIL: On May 20, 2011, Indonesian President Susilo Bambang Yudhoyono signed a Presidential Instruction ("decree") putting into effect a two-year moratorium on issuing new permits for use of primary natural forest and peatland. The highly anticipated moratorium is part of a broader \$1 billion Indonesia-Norway partnership to reduce emissions from deforestation and degradation (known as REDD+). Read more at http://news.mongabay.com/2011/0617-indonesia moratorium wri.html#7gAWdyvWMzRWcbul.99					
	BRAZIL – BEEF: Four of the world's largest cattle producers and traders have agreed to a moratorium on buying cattle from newly deforested areas in the Amazon rainforest, reports Greenpeace. JBS-Friboi, Bertin, Minerva and Marfrig will implement certification and monitoring systems to ensure that beef and leather in their supply chains is not being produced as a result of new forest clearing. The companies also agreed to ban buying of cattle from ranches using slave labor or illegally occupying protected areas and indigenous reserves. Read more at http://news.mongabay.com/2009/1007-greenpeace cattle.html#mK fsz0V2duW5DEVM.99					
	BRAZIL / SOY The moratorium was established in July 2006 in response to concerns among big soy buyers — notably McDonalds and Carrefour — that soy expansion was driving large-scale destruction of Earth's largest rainforest. Soy producers in the region have since registered their holdings in order to sell their product to major crushers and traders. Registered properties are monitored via satellite, airplane flyovers, and on-the-ground visits for compliance. Read more at http://news.mongabay.com/2010/0708-amazon_soy_moratorium.html#Ql qbrw9dxxQaHKG5.99					

Table 1: Overview of policy measures at other levels (e.g. EU Member State, multilateral, private sector) provided by stakeholders

CHAPTER 4 IDENTIFICATION OF OPTIONS TO REDUCE THE IMPACT OF EU CONSUMPTION AND POLICIES ON DEFORESTATION

4.1. INTRODUCTION AND APPROACH

On the basis of the results gathered in task 2 and task 3 and the overview of policy measures at other levels, recommendations are made in the form of possible Community policy and legislative measures and initiatives that can be taken to address the impact of EU consumption on deforestation in third countries. The options identified cover different types of measures: regulatory, voluntary, market based, awareness raising, information provision

The identified options are described using the template presented in Table 2.

Name	Name of policy proposal				
Problem targeted	Description of the critical area(s) th	e policy proposal aims to addres	SS		
Objective	Brief statement of the objective(s)	of the policy proposal			
Description	Description of the way the mimplemented	neasure functions and should	d be		
Link with policy	1.a. Produce commodities with lo	ow land use impact	I		
evaluation criteria	1.b. Produce commodities with lo	b. Produce commodities with low deforestation impact			
	2. Produce products with low d	eforestation impact	D		
	3. Organize supply chain of co	mmodities and products with	1		
	low deforestation impact	low deforestation impact			
	, ,	general, and more specifically	1		
	of commodities and products having deforestation impacts)				
Type of measure	Regulatory measure				
	Voluntary measure				
	Market-based instrument				
	Information and awareness raising		Х		
	Funding mechanism				
	Capacity building and technical assi				
Initiator	Entity that should initiate the meas				
Target group	Entities / actors the measure is targ				
Critical considerations	Indication of critical elements and	•			
	scope, feasibility, cost-effectivenes		ure		
Impact on	Effectiveness	Low / Medium / High			
deforestation (*)	Description of how the effectiven	• •	been		
	evaluated with regard to its impact				
	Magnitude	Low / Medium / High			
	Description of how the magnitude of the impact of the policy measu on deforestation has been evaluated				
Efficiency of the	Impact on deforestation	Low / Medium / High			
measure (*)	Resources input	Low / Medium / High			
	Description of how the resource in	,	ation		
	2000. paiori or now the resource inputs needed for the implementation				

CHAPTER 4 Identification of options to reduce the impact of EU consumption and policies on deforestation

	of the measure have been evaluated.	
Possible side effects	Indication of possible side effects of the measure that should not be overlooked when evaluating, prioritising and selecting possible measures	
Links to other measures	Indication of the critical links with other measures proposed by the	
and legislation	consortium or existing legislation or policies	

Table 2: Template for describing policy proposals

(*) refer to CHAPTER 5 for the methodology

Legend for the "Link with policy evaluation criteria"

D: Direct link
I: Indirect link

The items under "Link with policy evaluation criteria" refer to the evaluation criteria that have been used in Task 3 for determining the relevance of a particular policy, i.e. for determining whether they have a potential positive effect on reducing third country deforestation. These criteria have been described in the Task 3 report.

Under the section "Type of measure" selection fields are foreseen to indicate which type of measure is engaged: regulatory measure, voluntary measure, market-based instrument, information and awareness raising, funding mechanism, capacity building and technical assistance.

4.2. IDENTIFIED OPTIONS

4.2.1. OVERVIEW OF THE IDENTIFIED OPTIONS

34 policy proposals have been developed. An overview of the identified proposals is presented below, organised by policy field: EU Climate and Renewable energy policy, Common Agricultural Policy, EU Forestry Strategy, EU Biodiversity Strategy, Sustainable Production and Consumption Policy, EU Trade Policy, EU investment Policy, EU Development Cooperation Policy and EU research and innovation policy or Policy integration

To provide a structure, the policy proposals have been linked to the "policy evaluation criteria" that have been used in Task 3 for determining the relevance of a particular policy:

- 1.a. Reduce the land use linked to the production of primary commodities at source;
- 1.b. Reduce the level of deforestation linked to the production of the identified primary commodities;
- 2. Reduce the embedded deforestation of products produced;
- 3. Contribute to the supply chain of commodities, products and services with no or lower deforestation impact;
- 4. Reduce EU consumption (in general, and more specifically of commodities, products and services having deforestation impacts at global scale)

The individual policy proposals are described in detail in section 4.2.2 in accordance with the template presented in section 4.1.

Policy proposals	Link with policy evaluation criteria						
	1.a	1b	2.	3.	4.		
EU Climate and Renewable energy policy							
Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials) ¹	D	D	D	D	I		
Policy proposal 2: Include "indirect land use" (ILUC) in sustainability criteria for biofuels	D	D	D	I	I		
Policy proposal 3: Sustainability criteria for solid and gaseous biomass	D	D	D	D	ı		
Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD+)		D	I	I	I		
Common Agricultural Policy							
Policy proposal 5: Encourage protein crop production in the European Union		D	D	D	ı		
Policy proposal 6: Include mandatory crop rotation, including minimum levels of legume/protein crops, in the CAP cross-compliance rules		D	1	I	1		
Policy proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production potential	D	I	I	I	I		
Policy proposal 8: Promote relevant concepts and measures for 'climate smart agriculture'		D	D	D	I		
EU Forestry Strategy							

¹ These are all other uses of crops , except fuel use : food, feed, fibres, but also products, such as lipsticks.

CHAPTER 4 Identification of options to reduce the impact of EU consumption and policies on deforestation

Policy proposals		ith policy	evaluation	on criteria	l
	1.a	1b	2.	3.	4.
Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities	D	D	D	D	I
Sustainable Consumption Policy.					
Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation	I	I	I	I	D
Policy proposal 11: Targeted awareness raising and information campaigns on food waste production			D	D	D
Policy proposal 12: Develop mandatory Member State specific food waste prevention targets			D	D	D
Policy proposal 13: Increase the clarity and consistency in the use of food date labels					D
Policy proposal 14: Develop mandatory and consistent food storage labels on food products			I	I	D
Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products	I	I	I	I	D
Policy proposal 16: Consumer tax on meat products	I	I	I	I	D
Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation			I	D	D
Policy proposal 18: Mandatory labelling of the forest footprint of (food) products	I	I	I	D	D
Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services	I	I	I	I	D

Policy proposals L		Link with policy evaluation criteria						
	1.a	1b	2.	3.	4.			
Sustainable Production Policy								
Policy proposal 20: Review the current rules and regulations for use of animal by-products	D	D	D	D	D			
Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities	I	D						
EU Trade Policy								
Policy proposal 22: Strengthen the environmental provisions in trade agreements	D	D	D	D				
Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation	I	I	I	D				
Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation	I	I	I	D				
EU investment Policy								
Policy proposal 25: Investment tax (for portfolio investors investing in corporations with a 'positive' forest footprint)	I	D	D					
Policy proposal 26: Make the protection of foreign direct investments under Bilateral Investment Treaties (BITs) conditional upon specific deforestation related responsible investment criteria		D	D					
Policy proposal 27: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible investment criteria		D	D					
Policy proposal 28: Assist in the development of a responsible investment framework	I	D	D					

CHAPTER 4 Identification of options to reduce the impact of EU consumption and policies on deforestation

Policy proposals		Link with policy evaluation criteria						
	1.a	1b	2.	3.	4.			
Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led initiative (see https://www.responsibleagroinvestment.org/rai/)		I	1	I				
EU Development Cooperation Policy								
Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions	D	D	D					
Policy proposal 31: Raise awareness and develop the capacities of the staff working on the integration of environmental issues in development cooperation	D	D	D					
EU research and innovation policy								
Policy proposal 32: Research to obtain a monitoring tool on the impact of EU consumption on worldwide deforestation	I	1	I	I	I			
Policy proposal 33: Research on technologies and policies to reduce the impact of EU consumption on deforestation in third countries	I	1	I	I	I			
Policy integration.								
Policy proposal 34: Promote activities, which actively seek for synergies between the CAP and policies aiming at reducing deforestation (REDD+; biodiversity strategy)		I	I	I				

Table 3: Overview of policy proposals, with link to policy evaluation criteria.

Legend for the "Link with policy evaluation criteria"

D: Direct link
I: Indirect link

4.2.2. DESCRIPTION OF THE IDENTIFIED OPTIONS

Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials)

Name	Extend the sustainability criteria for biofuels to other uses of the	same			
	crops (food, feed, products, materials)				
Problem targeted	By implementing sustainability criteria for other applications (food, feed, products, materials) of the same feed stocks, the effectiveness of the sustainability criteria will increase significantly and a level-playing field for all usages of the same set of crops will be generated. In particular for oil crops this would be relevant, as they were identified in task 2 as a crop with high deforestation impact.				
Objective	Implementation of mandatory sustainability criteria for other than biofuels applications (food, energy, products, materials).				
Description	The sustainability criteria for biofuels (laid down in the Renewable Energy Directive) ensure that the feed stocks/crops are not obtained from areas that are recently deforested or have a high biodiversity value. The set out criteria are equally relevant for other uses of the same feed stocks (food, feed, products, and materials) and could be extended to those.				
Link with policy	1.a. Produce commodities with low land use impact	D			
evaluation criteria	1.b. Produce commodities with low deforestation impact	D			
	2. Produce products with low deforestation impact				
	3. Organize supply chain of products with low deforestation impact	D			
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	I			
Type of measure	Regulatory measure	Х			
	Voluntary measure	Х			
	Market-based instrument	Х			
	Information and awareness raising				
	Funding mechanism				
	Capacity building and technical assistance				
Initiator	European Commission, National Governments, and Volu initiatives: demand driven consumption.	ntary			
Target group	Food feed and fibre producers (agricultural sector, forest sector)				
Critical considerations	A possible way to introduce sustainability criteria is to introduce in combination with financial incentives or make them mandator interesting policy development experienced in the UK is bi reporting criteria as intermediate step, having impacts on the processor (Implementation of the UK Renewable Transport Obligation). Moreover, any proposal should be WTO compatible.	ry. An nding rivate			
Impact on	Effectiveness High				
deforestation	Sustainability criteria are implemented for biofuels. The effectivene these criteria for biofuels is researched in on-going st (ENER/C1/463-2011 concerning support activities for assessme	udies			

	progress in renewable energy and sustainability of biofuels, and the transposition of the RES Directive). The effectiveness of sustainability criteria depends on the scope of their application i.e. the market share they cover. When the sustainability criteria of biofuels would be extended to cover also food and other sectors, the possibility of leakage would be reduced, as the whole EU demand for e.g. oil crops would be covered by sustainability criteria.				
	Magnitude	High			
	Oil crops represent 70% of deforestation crops imported in the EU targeting all sectors of consumption (not only energy), the magnitute the deforestation impact can be decreased significantly.				
Efficiency of the	Impact on deforestation	High			
measure	Resources input	Medium			
	the sustainability schemes, the im the monitoring and enforcement control mechanisms in the supply of				
Possible side effects	The implementation of this measure would create a level-playing fie for the crops concerned. Nevertheless, leakage would still be possibl as the EU is only responsible for part of the global demand. Important implications could occur in the international market: price levels and competitive disadvantage, depending on the precise measure, compared with other importing countries outside Europe. The cost for European consumers is likely to increase slightly, to cover the				
Links to other measures and legislation	cost of certification and the sourcing of sustainable crops. This measure has critical links with trade policies. The policy proposal implement sustainability criteria for food, feed and fibres needs to be linked with ongoing trade related forest policy measures (e.g. FLEGT) and to the promotion of implementation instruments such as forest certification in wood exporting developing and emerging countries. Policy proposal 3: Sustainability criteria for solid and gaseous biomas Policy proposal 21: Strengthen voluntary initiatives certify sustainably produced (deforestation-free) commodities				

Policy proposal 2: Include "indirect land use" (ILUC) in sustainability criteria for biofuels

Name	Include "indirect land use" (ILUC) in sustainability criteria for biof	uels	
Problem targeted	Indirect land use change (ILUC) takes place when biofuels are culti		
	on existing agricultural land, and as such displace other crop		
	productions, some of which ultimately lead to land use change		
Objective	Reduce the use of biofuels with high risk of ILUC.		
Description	Develop a methodology to correctly implement ILUC in	the	
Bescription	sustainability criteria of biofuels. Research and reports are searching for		
	an acceptable way of incorporating the ILUC effect into	_	
	sustainability criteria. As an example of incorporating the ILUC effe		
	can refer to the introduction of limits to certain types of biofuels,		
	cap of the use of 1 st generation biofuels.	c.g. u	
Link with policy	1.a. Produce commodities with low land use impact	D	
evaluation criteria	1.b. Produce commodities with low deforestation impact	D	
	2. Produce products with low deforestation impact	D	
	3. Organize supply chain of products with low deforestation	I	
	impact		
	4. Reduce EU consumption (in general, and more specifically	I	
	of commodities and products having deforestation impacts)		
Type of measure	Regulatory measure	Х	
	Voluntary measure		
	Market-based instrument	Х	
	Information and awareness raising		
	Funding mechanism		
	Capacity building and technical assistance		
Initiator	European Commission		
Target group	Biofuels producers		
Critical considerations	On-going discussion on methodology: ILUC is not incorporated in the		
	current sustainability criteria. One way of incorporating it in the cu		
	sustainability criteria is by calculating the impact on GHG-calculation	ns.	
Impact on	Effectiveness High		
deforestation	The research study done by IFPRI (2011: Assessing the Land Use Ch	_	
	Consequences of European Biofuel Policies) clearly states	that	
	considering land use change is legitimate.		
	Magnitude Low		
	However the same study also states that by only introducing an ILL		
	component into the biofuel legislation will lead to the question of why		
	ILUC measurements are not introduced for other policies that can have		
	larger land use impacts (e.g. CAP reform, trade negotiations). Therefore		
	the magnitude of this proposal is regarded as low.		
Efficiency of the	Impact on deforestation Medium		
measure	Resources input High		
	The resources needed will depend on the way the ILUC fact		
	incorporated into legislation. A cap on the use of certain biofuels will be easier to implement than a calculation method of ILUC which wou require a good worldwide monitoring system.		

CHAPTER 4 Identification of options to reduce the impact of EU consumption and policies on deforestation

Possible side effects	LUC is not exclusively a problem of biofuels; the problem will not completely be solved as long as no similar sustainability criteria for other applications are implemented. Depending on the proposed methodology, the choice in biofuels will (temporarily) be smaller.
Links to other measures and legislation	The measure can be imbedded in the existing European Renewable Energy Directive and Fuel Quality Directive. Policy proposal 1: Policies about the CAP reform, trade negotiations where a LUC component could be introduced. iLUC requires also national land use planning. Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD+)

Policy proposal 3: Sustainability criteria for solid and gaseous biomass

Name	Sustainability criteria for solid and gaseous biomass		
Problem targeted	The Renewable Energy Directive will increase the demand for	solid	
	biomass. To avoid the risk of forest conversion, and in certain	cases	
	deforestation, a set of mandatory sustainability criteria for solic	d and	
	gaseous biomass similar to the mandatory sustainability criter	ia of	
	biofuels and bioliquids, would be useful.		
Objective	Avoid risk for forest conversion and deforestation due to the incre	asing	
	demand for solid biomass for energy purposes.		
Description	This measure could function in a similar way as the obligatio	n for	
	sustainability criteria for biofuels and bioliquids. This includes	the	
	specific criterion that solid and gaseous biomass shall not be yie	elded	
	from land with high biodiversity values, land with high carbon stoo	cks or	
	undrained peat land to the status of January 2008. The criterion of	GHG	
	emissions savings is also one of the criteria: here a similar approac	h can	
	be followed, but specific attention should be paid to the target se	- 1	
	for solid and gaseous biomass. The conversion technologies	s for	
	producing electricity and heat differ from the biofuel produ		
	technologies, so other (higher) GHG savings could be considered.		
	Special attention should be paid to the definitions of waste, especially		
	important for the wood residues used for wood pellets, because waste		
	only needs to fulfil the GHG emission saving criterion.		
Link with policy	1.a. Produce commodities with low land use impact	D	
evaluation criteria	1.b. Produce commodities with low deforestation impact D		
	2. Produce products with low deforestation impact D		
	3. Organize supply chain of products with low deforestation D		
	impact		
	4. Reduce EU consumption (in general, and more specifically I		
	of commodities and products having deforestation impacts)		
Type of measure	Regulatory measure x		
	Voluntary measure		
	Market-based instrument x		
	Information and awareness raising		
	Funding mechanism		

	Canada hada a and tada a and a an	:-t	
1.212.1	Capacity building and technical assistance		
Initiator	European Commission and national authorities		
Target group	Producers of renewable energy out of solid and gaseous biomass.		
	Ultimately, the measure should create public support for the use of		
	sustainable biomass for energy.		
Critical considerations		e implementation of the measure	
	include:		
		ded as for biofuels and bioliquids (cf.	
	Same/similar criteria, use of volunt		
		ministrative burden for the producers	
		be solved is if a minimum threshold	
		o energy produced or the amount of	
	-	or the sustainability criteria to be	
	applicable.		
	-	n biomass that is imported goes to	
		re detailed custom codes whether it	
		could be instrumental to that. Such	
	custom codes could be produced a	s a part of this PP.	
Impact on	Effectiveness	High	
deforestation	-	criteria depends on the scope of its	
		re it covers. Calculations in task 2	
		1 ³ RWE by 2020. The impact is related	
		iomass for energy use that will be	
		ty criteria are introduced for solid	
		nere is a risk of leakage to other	
	• •	argeted biomass (solid biomass for	
		t will be effective because the	
	-	a direct influence on the biomass	
	production chain.	Ι.	
	Magnitude	Low	
		ted at a very specific use of the solid	
	and gaseous biomass, the magnitude		
Efficiency of the	Impact on deforestation	Medium	
measure	Resources input	Low	
		ity criteria for biofuels already exists.	
	<u> </u>	nd gaseous biomass are already in	
		ne RE Directive. The biomass supply	
		possible introduction of criteria and	
	some suppliers are already preparing by setting up voluntary schemes.		
Possible side effects	The use of solid and gaseous biomass is not exclusively for bio energy		
	production. A possible side effect of not having similar sustainability criteria for other applications can be that non sustainable solid and		
	gaseous biomass will be used for other applications.		
Links to other measures	Policy proposal 1: is very strongly related to this policy proposal.		
and legislation	Proposal 20 can be considered as the first step to enlarge sustainability		
	criteria for other applications, in this case 'other applications' meaning other energy carriers.		
	The other most important link with other legislation is the sustainability		
	criteria for biofuels and bioliquids.		

Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD+)

Name	Promote Reducing Emissions from Deforestation and	forest	
	Degradation (REDD+) ²		
Problem targeted	Various functions and services of Natural forests are not adequately valued and accounted for in comparison with the crops/commodities that replace them. This is an important factor causing tropical deforestation.		
Objective	The objective of REDD+, a policy approach negotiated under the UNFCCC, is to support developing countries in slowing down, stopping and reversing the loss of forest cover and forest carbon, and in managing their forest resources more sustainably, by rewarding reduced deforestation and forest degradation, to help mitigate climate change.		
Description	A comprehensive EU REDD+ policy should provide a framework to support the full implementation of results-based REDD+ actions, which promote poverty alleviation and biodiversity benefits, ecosystem resilience and the linkages between adaption and mitigation, and should promote and support social and environmental safeguards. EU funding can play a crucial role in the anchoring of REDD+ in a future climate deal and the direction of resources to ensure social and environmental safeguards and develop robust monitoring protocols.		
Link with policy	1.a. Produce commodities with low land use impact		
evaluation criteria	1.b. Produce commodities with low deforestation impact	D	
	2. Produce products with low deforestation impact	ı	
	Organize supply chain of products with low deforestation I impact		
	Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)		
Type of measure	Regulatory measure		
	Voluntary measure x		
	Market-based instrument	Х	
	Information and awareness raising		
	Funding mechanism	х	
	Capacity building and technical assistance		
Initiator	European Commission		
Target group	Governments in third countries from which the EU is importing deforestation and private sector actors.		
Critical considerations	The successful engagement of the EU in REDD+ is to a great extent dependent on the continued leadership of the EU in the international climate debate, notably under the UNFCCC. Of particular importance are the following overall policy considerations: a: mobilisation of financial sources for the different phases of REDD+ b: providing guidance on the methodology to present the information on safeguards c: providing guidance on ways to identify and address the drivers of deforestation and forest degradation		

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 $^{^{2}}$ Based on Schneck et al. (2011); Ring et al. (2011); von Unger et al. (2012).

Impact on	Effectiveness	Medium
deforestation	Depending on the outcome of	of the UNFCCC discussions and
	commitment of both donor	countries and REDD+ countries.
	Mechanism could become overly of	complex.
	Magnitude	High
	Scope for REDD+ is potentially	high and can be applied to many
	countries.	
Efficiency of the	Impact on deforestation	High
measure	Resources input	High
	Potential of REDD+ to halt defores	tation is high. Much depends on the
	actual design of the scheme	once established (additionality,
	avoidance of leakage, permanence and carbon accountability).	
	Potentially high transaction costs.	
Possible side effects	Effectiveness, equity and efficiency of REDD implementation might be	
	affected by issues such as elite capture, corruption and perverse	
	incentives. Payments in compensation for avoided deforestation may	
	'reward' those that in the past	profited from the destruction of
	forests, while the direction of fun-	ds to those that for years protected
	forests can run into question with regards to 'additionality' as	
	compared to historic or business as usual baselines.	
Links to other	EU climate and energy policies.	
measures and		
legislation		

Policy proposal 5: Encourage protein crop production in the European Union

Name	Encourage protein crop production in the European Union		
Problem targeted	Soybean expansion induced by rapidly growing feed demand has been a main driver of deforestation. Between 1990 and 2008 we estimate more than half of deforestation attributed to EU consumption are associated with soybean imports from South America. Currently, the EU protein crop production provides only some 30 percent of consumed animal feed proteins, with a decreasing trend. The remainder is imported, especially soybeans from South America.		
Objective	Production increases, especially in Eastern Europe, could help decreasing EU protein deficits and reduce imports of animal feed from South America. If expanding soybean production remains a driver of deforestation as it was in the past two decades, replacing imported soybean with domestically produced protein feed contributes to reducing the impact of EU consumption on deforestation.		
Description	Research and development into breeding and supply of protein crops suitable for European climate; Extension Services for farmers; Financial incentives		
Link with policy	1.a. Produce commodities with low land use impact		
evaluation criteria	1.b. Produce commodities with low deforestation impact D		
	Produce products with low deforestation impact		
	3. Organize supply chain of products with low deforestation D		
	impact		

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incentives to compete with cheaply imported soybeans from South America.		
Contributes to climate change mitigation of the EU agricultural sector;		
Increases environmental performance of agricultural production in the		
EU. Contributes to product diversification and rural development.		
WTO Trade Negotiations.		
Policy proposal 6: Include mandatory crop rotation, including minimum		
levels of legume/protein crops, in the CAP cross-compliance rules		
(Member States may provide specific support for protein crop		
production as part of agro-environmental programmes).		
Contributes to efforts of greening the first pillar (decoupled payments)		
f ordinate or contact		

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³ The EU is a major importer of biotech products, primarily soybean and corn products for use in animal feed and human food.

Policy proposal 6: Include mandatory crop rotation, including minimum levels of legume/protein crops, in the CAP cross-compliance rules

Name	Include mandatory crop rotation, including minimum levels of			
	legume/protein crops, in the CAP of	-		
Problem targeted		Imported protein crops (soybeans) have directly or indirectly		
	contributed to deforestation in the countries of origin.			
Objective	Improve soil health and increase EL	·		
Description	Cross-compliance is a mechanism that links direct payments to			
	compliance by farmers with basic standards concerning the			
	environment, food safety, animal and plant health and animal welfare,			
	as well as the requirement of maintaining land in good agricultural and			
	environmental condition. Since 2005, all farmers receiving direct			
	payments are subject to compulsor		1	
Link with policy	1.a. Produce commodities with lo	·		
evaluation criteria	1.b. Produce commodities with lo	• • • • • • • • • • • • • • • • • • •	D	
	2. Produce products with low d	·	1	
	3. Organize supply chain of pro	oducts with low deforestation	ı	
	impact			
		general, and more specifically	ı	
	of commodities and products havin	g deforestation impacts)		
Type of measure	Regulatory measure		Х	
	Voluntary measure			
	Market-based instrument			
	Information and awareness raising			
	Funding mechanism		Χ	
	Capacity building and technical assi			
Initiator	European Commission (DG-ENV, DO	G-AGRI)		
Target group	European Commission			
Critical considerations	Opposition from countries expo			
	Argentina); Conflicts with existing	trade agreements; Costs; Fai	mers	
	may resist additional rules.			
Impact on	Effectiveness	Low		
deforestation	This measure is considered a go			
	directly targeted to boost protein	•		
	the impact on deforestation, by su	bstituting imported protein fee	ds, is	
	to be considered relatively low.			
	Magnitude	Low		
	Even when protein crop production		-	
	a small fraction of animal feed is likely to be replaced of the imported		orted	
	soybeans from South America.			
Efficiency of the	Impact on deforestation	Low		
measure	Resources input Low			
	The cross compliance is a well established mechanism in the CAP and			
	implementation and monitoring would require only modest resources.			
Possible side effects	Leguminous fodder crops (Lucerne, clover) and seed crops (pea, soy		-	
	lupine, horse bean, and vetch) assimilate and fixate nitrogen into		o the	
	soil.			
	Protein crops in crop rotation improve soil fertility and structure.			

	GHG emission reduction by reducing the use of synthetic nitrogen	
	fertilizer, a major source of N2O emissions.	
Links to other measures	Article 68 of Council Regulation (EC) No 73/2009 allows Member States	
and legislation	to grant support for protein crops on their territory. This has been used	
	in particular by France, Spain, Poland and Finland.	
	Policy proposal 5:	
	(Member States may provide specific support for protein crop	
	production as part of agro-environmental programmes).	

Policy proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production potential

Name	Promote sustainable intensification of agricultural and f	orest	
reame	production in areas where current production is well below the		
	agronomic and silvicultural production potential		
Problem targeted	Crop- and pasture land expansion are major causes of deforestation.		
Objective	Foster intensification of agricultural production on existing cropland		
,	and pastures rather than further expanding current agricultural	•	
	causing land-use changes including deforestation.		
Description	Cropland productivity depends on biophysical endowment, acce	ess to	
	agro-research knowledge through extension services, availabili	ty of	
	agro-inputs, applied land management and local socio-ecor	nomic	
	circumstances. For instance in Sub-Saharan Africa limited acce	ss to	
	agricultural input (especially fertilizer) is believed the main caus	e for	
	prevailing low crop productivity; e.g., significantly below bioph	ysical	
	potential.		
	Improvements in pasture land biomass productivity or impl	roved	
	grazing management may allow higher livestock stocking dens	sities.	
	Research should be concentrated on the provision of adapted legumes		
	and grasses, the correction of soil nutrient deficiencies, and the		
	efficient utilization of pasture by grazing animals.		
	Promoting higher efficiency in using certified sustainable wood energy		
	and timber products will contribute to maintaining natural forest		
	landscapes		
Link with policy	1.a. Produce commodities with low land use impact	D	
evaluation criteria	1.b. Produce commodities with low deforestation impact	I	
	2. Produce products with low deforestation impact	ı	
	3. Organize supply chain of products with low deforestation		
	impact		
	4. Reduce EU consumption (in general, and more specifically	I	
	of commodities and products having deforestation impacts)		
Type of measure	Regulatory measure		
Voluntary measure		Х	
	Market-based instrument	X	
	Information and awareness raising		
	Funding mechanism	Х	
	Capacity building and technical assistance	<u> </u>	
Initiator	European Commission (DG-Research; DG-Environment; DG-Agricu	Iture;	

	DG-Development) and extension services for farmers in developing		
	countries.		
Target group	Farmers		
Critical considerations	Intensification needs to be integrated into a larger strategy for land-use		
	planning including support for medium sized and small farms.		
Impact on	Effectiveness	High	
deforestation	International studies show that currently achieved production is well below the sustainable agronomic potential of land in many regions, e.g. Sub-Saharan Africa, but also in countries of Eastern Europe. In such cases, sustainable intensification of agricultural production on existing cropland and pastures can create an economic and environmental winwin situation, producing better incomes for farmers and avoiding land		
	conversion, including deforestation	, for agriculture.	
	Magnitude	High	
	Given the current large extents of cultivated land and pastures with significant apparent yield gaps, effectively addressing a narrowing of yield gaps would have a high impact on land use efficiency and result in less deforestation		
Efficiency of the	Impact on deforestation	High	
measure	Resources input	High	
	Successful implementation of this development option will require substantial resource inputs and careful investment strategies. Main resource inputs include: R & D for best agronomic crops and practices in a variety of tropical and sub-tropical agro-ecological environments; extension services for farmers, transport and irrigation infrastructure; effective organizational structures for agricultural input and output markets;		
Possible side effects	Food security improvements.		
	Overall as well as rural developmer	nt.	
	GHG emission reductions.		
	Reduced land conversions.		
Links to other measures and legislation	Policy proposal 8: Promote relevant concepts and measures for 'climate smart agriculture'.		
	Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led initiative (see https://www.responsibleagroinvestment.org/rai/). Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions.		

Policy proposal 8: Promote relevant concepts and measures for 'climate smart agriculture'

Name	Promote relevant concepts ar	nd measures for 'climate s	mart
	agriculture'		
Problem targeted	Agricultural expansion is a major di		
Objective	'Climate neutral' agriculture (incl		nsion
	being a source of anthropogenic GI		
Description	Climate smart agriculture addresses and finds solutions for the joint		
	objectives of food security, d	evelopment, and climate ch	nange
	mitigation and adaptation.		
Link with policy	1.a. Produce commodities with lo	<u>'</u>	
evaluation criteria	1.b. Produce commodities with lo	· · · · · · · · · · · · · · · · · · ·	D
	2. Produce products with low d	-	D
		oducts with low deforestation	D
	impact		
		general, and more specifically	I
	of commodities and products havir	ng deforestation impacts)	
Type of measure	Regulatory measure		
	Voluntary measure		Х
	Market-based instrument		
	Information and awareness raising		Х
	Funding mechanism		
	Capacity building and technical ass		
Initiator	European Commission (DG-ENV, Do	•	
Target group	Farmers, farmers associations and	• •	
Critical considerations	The FAO projects a 70% highe		
	experience has shown that especi	•	-
	been realized by land expansion	(including into forests) rather	tnan
Impact	yield improvements. Effectiveness	Medium	
Impact on deforestation			
deforestation	As avoiding deforestation is on agriculture its effectiveness for re	· ·	
	medium.	educing delorestation was judge	eu as
	Magnitude	Medium	
	See above	Wediam	
Efficiency of the	Impact on deforestation	Medium	
measure	Resources input	High	
incasarc	•		mart
	Avoiding deforestation must be an integral part of climate smar agriculture; therefore at least a medium impact is to be expected. Wi		
	require substantial resources on the R&D side, for investments in		
	mitigation and adaptation, possibly for monitoring, and for creating and		
	administering effective incentives and measures.		
Possible side effects	Somewhat higher agricultural prices.		
	Positive effects on the environment, especially GHG emission		ission
	reductions.	. ,	

Links to other measures and legislation	The CGIAR ⁴ Research Program on Climate Change, Agriculture and Food Security ⁵ promotes 'climate smart' agriculture.
	Policy proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production potential (sustainable intensification of agricultural production is a primary goal of 'climate smart agriculture').

Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities

Name	Promote and strengthen FLEGT, and expand to other commodit	ies	
Problem targeted	Illegal logging has a devastating effect on some of the w		
	valuable forests. It can have not only serious environmental, bu		
	economic and social consequences. Illegal timber logging		
	precedes the development of plantations for export crops (e.g		
	and oil palm). Similar illegal practices occur in development	and	
	production of other commodities.		
Objective	The objective of FLEGT (Forest Law Enforcement, Governance		
	Trade), a flagship approach of the EU, is to exclude illegal timber		
	markets, to improve the supply of legal timber and to increas		
	demand for responsible wood products. An important element		
	strengthen the forest governance in partner countries from wher		
	EU is sourcing. The objective of this specific proposal is to fu		
	promote and extend the FLEGT approach, both to other pa		
	countries and to other commodities. The mechanism sl		
	contribute to sustainable (forest) land and commodity governance		
Description	A central element of the EU's strategy to combat illegal logging are		
	trade accords with timber exporting countries, known as Voluntary		
	Partnership Agreements, to ensure legal timber trade and support		
	good forest governance in the partner countries. As a se		
	element, the EU created legislation to ban illegally-produced		
	products from the EU market, known as the EU Timber Regulation . A		
	similar approach could be duplicated to commodities such as soy,		
	palm oil and meat.		
Link with policy	1.a. Produce commodities with low land use impact	D	
evaluation criteria	1.b. Produce commodities with low deforestation impact	D	
	2. Produce products with low deforestation impact	D	
	3. Organize supply chain of products with low deforestation	D	
	impact		
	4. Consume commodities and products with low	I	
	deforestation impact		
Type of measure	Regulatory measure	Х	
N . 51505 : "	Voluntary measure	Х	
Note: FLEGT is a policy	Market-based instrument	Х	
package of various	Information and awareness raising	х	

Consultative Group on International Agricultural Research (CGIAR), for more information see: http://cgiar.org

5 see http://ccafs.cgiar.org

	1	T	
types of measures	Funding mechanism		
	Capacity building and technical assistance		
Initiator	EU – targeted policy: EU trade policy		
Target group	Governments in partner countries	; local stakeholders	
Critical considerations	Legality is certainly an important r	equirement, and intermediate s	step.
	However, the ultimate goal shou	ıld be sustainability. Most ben	efits
	probably through overall strength	ening of forest governance.	
Impact on	Effectiveness	High	
deforestation	FLEGT has proven to be an eff	ective mechanism to improve	the
	legality in the timber trade chain,	both at the production side an	nd in
	trade and procurement.		
	Magnitude	Medium	
	FLEGT itself is focusing on timber	r, which constitutes a small par	rt of
	deforestation linked to EU consum	ption.	
Efficiency of the	Impact on deforestation	Medium	
measure	Resources input Medium		
	Overall efficiency is assessed as medium, but may be considerably		
	increased when FLEGT-like measures are adopted in other commodity		
	chains		
Possible side effects	Positive experiences with FLEGT and achievements may be duplicated		
	to other commodities. At the	negative side, legality could d	draw
	attention away from sustainability		
Links to other	Certification, labelling and trade m	neasures	
measures and	Policy proposal 22: Strengthen the environmental provisions in trade		
legislation	agreements.		
	Policy proposal 21: Strengthen voluntary initiatives certifying		
	sustainably produced (deforestation-free) commodities		

Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation

Name	Raise awareness of the linkages between EU consumption and deforestation
Problem targeted	There is insufficient knowledge about the impact of (e.g. food) consumption on the environment in general, and on deforestation more specifically.
Objective	Economic actors should understand that their consumption is associated with land use which might either directly or indirectly impact on forests. Economic actors should be aware of what they can do to reduce the impact of their consumption on deforestation: (1) reduce their consumption, (2) reduce the land use footprint of their consumption (e.g. substituting meat based diets), and (3) consume products that meet (deforestation related) sustainability standards.
Description	Development of coherent awareness raising and information campaigns tailored to specific target groups.
	tanorea to specific target groups.

	Support non-governmental organ initiatives.	isations to develop compleme	ntary
Link with policy	1.a. Produce commodities with lo	ow land use impact	I
evaluation criteria	1.b. Produce commodities with low deforestation impact		
	2. Produce products with low deforestation impact		
	3. Organize supply chain of products with low deforestation I impact		
		general, and more specifically	D
	of commodities and products havir	ng deforestation impacts)	
Type of measure	Regulatory measure		
	Voluntary measure		Х
	Market-based instrument		
	Information and awareness raising		Х
	Funding mechanism		
	Capacity building and technical assi		
Initiator	European Commission together	with EU Member States and	non-
	governmental bodies.		
Target group	General public, farmers, food manu		
Critical considerations	Even when people are aware of the impact of their consumption on deforestation and willing to change their consumption behaviour, there might still be various other barriers (like the availability of information on the impact of products on deforestation) that prevent people to consume more sustainably. Therefore, stimulating awareness will need complementary policies in order to invoke a genuine change in behaviour.		there ation le to need
Impact on	Effectiveness	Low	
deforestation	Awareness raising alone is not effective. People also need to be very their behaviour.		
	Magnitude	High	
	This proposal covers the consumpt major commodities that are associathis proposal is thus large.		
Efficiency of the	Impact on deforestation	Medium	
measure	Resources input	Medium	
	In order to be successful awareness raising has to be both sustained and targeted (simple enough, provided at the right time and place, etc.). Because of this the resource input for this proposal will be relatively high. Awareness raising requires resource for: developments of a coordinated strategy, development of various, targeted actions, which then have to be implemented and sustained.		olace, ill be of a
Possible side effects	Increased awareness of the impact of consumption on deforestation might spill over to other environmental problems.		ation
Links to other measures and legislation	Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation.		

Policy proposal 11: Targeted awareness raising and information campaigns on food waste production

Name	Targeted awareness raising and information campaigns on food v	waste
	production ⁶	
Problem targeted	A lot of food produced for human consumption is wasted, either directly or indirectly triggering deforestation through demand for land. The causes of food that is wasted at the household level mainly relate to a lack of awareness about food waste production and the related environmental consequences, lack of knowledge about food waste prevention techniques, insufficient purchase planning by households, misinterpretation of or confusion over 'best-before-dates', consumer preferences and attitudes, etc.	
Objective	Trigger behaviour change to realise long term reduction in food valuation. Optimise processes of manufacturers, retailers and caterers.	waste
Description Link with policy evaluation criteria	Member States develop information and awareness raising campaigns that are tailored to Member State specific circumstances, addressing the critical areas where consumer behaviour triggers food waste production: • lack of awareness about food waste production and the related environmental consequences; • lack of knowledge about food waste prevention techniques; • insufficient purchase planning by households; • misinterpretation of or confusion over 'best-before-dates'; • consumer preferences and attitudes. Next to campaigns directed to the households other campaigns could be geared to caterers, retailers and food manufacturers. 1.a. Produce commodities with low land use impact 1.b. Produce commodities with low deforestation impact 2. Produce products with low deforestation impact 3. Organize supply chain of products with low deforestation D impact	
Type of measure	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	D
Type of measure	Regulatory measure Voluntary measure Market-based instrument	Х
	Information and awareness raising Funding mechanism Capacity building and technical assistance	X
Initiator	EU Member States	
Target group	Households, caterers, retailers and food manufacturers	
Critical considerations	Even when people are aware of the large amounts of food waste produce and willing to change their consumption behaviour, might still be various other barriers (like the information on food as well as the interpretation of this information) that prevent people.	there labels

⁶ Based on Monier et al. (2010)

	effectively reduce the food waste they generate. Therefore, stimulating awareness will need complementary policies in order to invoke a genuine change in behaviour.		
Impact on	Effectiveness	Low	
deforestation	Awareness raising alone is not sufficient and therefore not very effective. People also need to be willing, motivated and able to change their behaviour.		
	Magnitude	Medium	
	According to Gustavsson et al. (2011) around one third of food produced for human consumption is wasted globally. Monier et al., (2010) attribute around 42% of this food waste to household consumption and some 39%, 14% and 5% to the manufacturing, catering and retailing/wholesaling sectors respectively. Households might, according to WRAP (2010), be able to reduce their food waste by some 60%. Knowing that about 60% of deforestation embodied in EU consumption is associated to the food sector (cf. Task 2), there is a large potential for reducing deforestation through reducing food waste.		
Efficiency of the	Impact on deforestation	Low	
measure	Resources input	Medium	
	In order to be successful awareness raising has to be both susta and targeted (simple enough, provided at the right time and pletc.). Because of this the resource input for this proposal will relatively high. The UK's best practice awareness campaign 'Love Food Hate Wareness a concrete indication of the financial resources required conducting a targeted awareness campaign about food waste. New the initial cost of about 750,000 € spend on research the running of the campaign are around 2,400,000 €/year. (Monier et al., 2010)		
Possible side effects	Increased awareness on food waste production might spill over to other environmental problems where behaviour might have a key role in reducing the root of the problem. Increased available household budget due to a lower consumption of food (because of the avoidance of food waste). Economic impact of the reduction in food sales		
Links to other measures and legislation	Economic impact of the reduction in food sales. The Roadmap to a Resource Efficient Europe. EU Regulation 1169/2011 of 25 October 2011 on the provision of food information to consumers. The revised Waste Framework Directive 2008/98/EC of 19 November 2008 which foresees the possibility to set waste prevention and decoupling objectives for 2020 by the end of 2014. Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation Policy proposal 12: Develop mandatory Member State specific food waste prevention targets Policy proposal 13: Increase the clarity and consistency in the use of food date labels. Policy proposal 14: .		

Policy proposal 12: Develop mandatory Member State specific food waste prevention targets

Name	Develop mandatory Member State specific food waste preve targets ⁷	ntion
Problem targeted	Food produced for human consumption is wasted, either direct indirectly triggering deforestation through demand for land. Althoulot of food waste can be avoided, food waste prevention is not yet established. In the vast majority of Member States, no clear and measurable have been taken to increase bio-waste prevention. This is partly defined the lack of clear guidance, including measurable quantitative targets. Being effective in preventing food waste requires solid quantitation on food waste generation. Some data on food waste generation by Member States is available (the principle source of on food waste generation is EUROSTAT), but there are a number problems with respect to the quality, consistency, comparability level of detail of the data.	steps ue to ts. tative waste data per of
Objective	Prevent the production of food waste at the Member State level through the installation of food waste reporting requirements and the development of a mandatory method for calculating/measuring food waste quantities at Member State level that allows setting Member State specific waste prevention targets as well as monitoring Member State progress in this respect. The system or method has to overcome current problems with respect to the quality, consistency,	
Description	Comparability, availability and level of detail of the data. This policy proposal is about the creation of specific food waste prevention targets for Member States by 2014 in the framework of the revised Waste Framework Directive 2008/98/EC of 19 November 2008. Practically, this proposal should result in setting Member State specific percentage targets for food waste reduction on the basis of knowledge about the existing level of food waste within a Member State. To facilitate setting food waste prevention targets and monitor progress, Member States will have to disclose more and better quality data on food waste generation to EUROSTAT making use of a mandatory method for calculating/measuring food waste quantities at Member State level. This requires amongst others: • definition of additional mandatory reporting categories for food waste; • development of a clear, standardised definition of food waste (clearly excluding by-products); • provision of a clear and practical method for calculating/measuring food waste quantities in each sector.	
Link with policy	1.a. Produce commodities with low land use impact	
evaluation criteria	1.b. Produce commodities with low deforestation impact	
	2. Produce products with low deforestation impact	D
	3. Organize supply chain of products with low deforestation impact	D

⁷ Based on Monier et al. (2010)

	A Bull of Ellinson willing the		
	4. Reduce EU consumption (in general, and more specifically D of commodities and products having deforestation impacts)		
- c		ig deforestation impacts)	
Type of measure	Regulatory measure		Х
	Voluntary measure		
	Market-based instrument		
	Information and awareness raising		
	Funding mechanism		
	Capacity building and technical assi	istance	
Initiator	European Commission		
Target group	EUROSTAT and EU Member States develop food waste prevention actors (like households, food manucatering services).	plans targeting different ecor	nomic
Critical considerations	n.a.		
Impact on	Effectiveness	Medium	
deforestation	Mandatory food waste reduction Although target setting alone does set the scene for developing a con action plan. The mandatory charactor success.	s not lead to waste reduction it mprehensive strategy and a con	does crete
	Magnitude	Medium	
	produced for human consumption is wasted globally. Monier et al., (2010) attribute around 42% of this food waste to household consumption and some 39%, 14% and 5% to the manufacturing, catering and retailing/wholesaling sectors respectively. Households might, according to WRAP (2010), be able to reduce their food waste by some 60%. Knowing that about 60% of deforestation embodied in EU consumption is associated to the food sector, there is a large potential		
Efficiency of the	for reducing deforestation through Impact on deforestation	Medium	
measure			
	The European Commission will have to develop a method for calculating/measuring the food waste quantities at the Member State level. This is a one-off cost and will not require many resources. The most important costs involved are the costs for calculating or measuring the amount of food waste. These costs are situated at the Member State level. Depending on the method chosen the burden might vary and shift between the Member State governments and the economic actors that might have to report the amount of food waste produced or collected. As an example, an analysis commissioned by the Danish government about the content of household waste in Denmark costed about 270.00 €. In sum, the required resource input is relatively low. (Monier et al., 2010) The costs related to the development of the targets and the monitoring of the progress are limited.		
Possible side effects	Separate food waste calculation and reporting increases awareness of the issue and will allow for a better understanding and consequently		

	management of food waste related issues. Increase of the administrative burden for companies.
Links to other measures and legislation	The Roadmap to a Resource Efficient Europe. The revised Waste Framework Directive 2008/98/EC of 19 November 2008 which foresees the possibility to set waste prevention and decoupling objectives for 2020 by the end of 2014.

Policy proposal 13: Increase the clarity and consistency in the use of food date labels

Name	Increase the clarity and consistency in the use of food date labels	8	
Problem targeted	Food produced for human consumption is wasted, either directly or indirectly triggering deforestation through demand for land. Part of the problem is due to the misinterpretation of and confusion over food date labels by consumers. In many Member States the use of the terms 'best before', 'use by', 'sell by' and 'display until' lacks consistency and the consumers tend to treat all terms equally.		
Objective	Reduce food waste produced due to date label confusion.		
Description	Increase the clarity and consistency in the use of EU mandated food date labels, like 'best before', 'use by' and 'sell by', and voluntary date labels, such as 'display until'. Support business with proper guidance on how to ensure food label compliance and good practice in using date labels consistently. Abolish the use of 'best before' food label dates to products that show visible signs of decay and do not pose a safety risk, like bread or potatoes. Disseminate information on harmonised food labels to the general		
Link with policy		public so everyone understands their meaning.	
evaluation criteria	1.b. Produce commodities with low deforestation impact	<u> </u>	
evariation criteria	Produce products with low deforestation impact		
	3. Organize supply chain of products with low deforestation impact		
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	D	
Type of measure	Regulatory measure	Х	
	Voluntary measure		
	Market-based instrument		
	Information and awareness raising	Х	
	Funding mechanism		
	Capacity building and technical assistance		
Initiator	European Commission		
Target group	Food manufacturers (responsible for setting date labels), retailers (responsible for setting 'display until' labels and own brand date labels) and households (who frequently decide whether or not food is edible based on its date label).		

⁸ Based on Monier et al. (2010)

Critical considerations	The primary goal of food labelling, which is to ensure consumer safety,	
	should not be touched upon.	
Impact on	Effectiveness Medium	
deforestation		the contribution of increasing food
	· · · · · · · · · · · · · · · · · · ·	to food waste prevention at the
		nificant. In the UK nearly 60% of the
		se it has not been used in time.
		eved to be an important reason for
	food not being used in time.	
	Magnitude	Medium
		(2011) around one third of food
	produced for human consumption	n is wasted globally. Monier et al.,
	(2010) attribute around 42% of	f this food waste to household
	consumption. Households might, a	ccording to WRAP (2010), be able to
	reduce their food waste by some	e 60%. Knowing that about 60% of
	deforestation embodied in EU cor	nsumption is associated to the food
	sector, there is a large potential	for reducing deforestation through
	reducing food waste.	
Efficiency of the	Impact on deforestation	Medium
measure	Resources input	Medium
	The resource input for this mea	sure is estimated to be relatively
	limited. Changing legislation at EU	or Member State level will not be a
	major cost. Most important are	the implementation costs for food
	manufacturers. The magnitude of	the costs involved depends on the
		ging. The cost for the manufacturers
	, -	ugh time to make the changes along
		ites. Also, time is needed for staff to
		v requirements. For the UK as whole
		ed to be in the order of 180.000 €
	, , ,	lved are one-off costs. This proposal
	-	sing component, which drives up the
		us to classify the required resource
	input as medium.	
Possible side effects	9	ch at EU level minimises the burden
	on manufacturers who often opera	•
		lget due to a lower consumption of
	food (because of the avoidance of f	•
	Economic impact because of the reduction in food sales.	
Links to other measures	The Roadmap to a Resource Efficier	•
and legislation		tober 2011 on the provision of food
	information to consumers.	
		ective 2008/98/EC of 19 November
	•	ility to set waste prevention and
	decoupling objectives for 2020 by t	
	Policy proposal 11: Targeted awareness raising and information	
	campaigns on food waste production.	
	Policy proposal 12: Develop mandatory Member State specific food	
	waste prevention targets	

Policy proposal 14: Develop mandatory and consistent food storage labels on food products

Name	Develop mandatory and consistent food storage labels on	food
	products ⁹	
Problem targeted	Food produced for human consumption is wasted, either directly or indirectly triggering deforestation through demand for land. Inappropriate storage conditions lead to food waste throughout the supply chain and are no less important in the household. Premature food spoilage is due to a lack of consistency in food storage labels, the absence of storage guidance and a lack of consumer attention to labels where provided.	
Objective	Reduce food waste produced by promoting optimal storage condit	ions.
Description	Increase the consistency and comprehensiveness of food storage labels by tightening EU regulations. Raise consumer awareness on the importance of optimal food storage conditions in order to prevent premature food spoilage and draw consumer attention to the information that is provided to them by food storage labels.	
Link with policy	1.a. Produce commodities with low land use impact	
evaluation criteria ,	1.b. Produce commodities with low deforestation impact	
	2. Produce products with low deforestation impact	I
	3. Organize supply chain of products with low deforestation impact	I
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	D
Type of measure	Regulatory measure	Х
	Voluntary measure	
	Market-based instrument	
	Information and awareness raising	Х
	Funding mechanism	
	Capacity building and technical assistance	
Initiator	European Commission	
Target group Critical considerations	Food manufacturers (responsible for providing food storage labels), retailers (responsible for providing own brand food storage labels) and households (who have to store food in optimal conditions). Optimal storage conditions vary according to climate and indoor	
Critical considerations	conditions.	iuooi
Impact on	Effectiveness Medium	
deforestation	People need to know how they best store food products. Simply providing information on how to store a product via a specific food	
	storage label, however, does not guarantee that people will effectively	
	change their current practices. Therefore, consumer awareness has to be raised on the importance of optimal food storage conditions consumer attention has to be drawn to the information that is provided to them by food storage labels.	
	Magnitude Medium	
	According to Gustavsson et al. (2011) around one third of	food

⁹ Based on Monier et al. (2010)

	produced for human consumption is wasted globally. Monier et al., (2010) attribute around 42% of this food waste to household consumption. Households might, according to WRAP (2010), be able to reduce their food waste by some 60%. Knowing that about 60% of deforestation embodied in EU consumption is associated to the food sector, there is a large potential for reducing deforestation through reducing food waste. The amount of food that is wasted because of improper food storage practices is a fraction of the total food consumption in the EU.	
Efficiency of the	Impact on deforestation	Medium
measure	Resources input	Medium
	The cost of changing storage labels is highest at the level of the food manufacturers and distributors. The burden can, however, be limited when these actors get enough time to make the changes along with other periodic packaging updates. This proposal also encompasses an awareness raising component, which drives up the required resource input. This leads us to classify the required resource input as medium.	
Possible side effects	Increased available household bud	lget due to a lower consumption of
	food (because of the avoidance of f	ood waste).
	Economic impact of the reduction in food sales.	
Links to other measures	The Roadmap to a Resource Efficier	nt Europe.
and legislation	EU Regulation 1169/2011 of 25 October 2011 on the provision of food information to consumers.	
	The revised Waste Framework Directive 2008/98/EC of 19 November	
	2008 which foresees the possibility to set waste prevention and	
	decoupling objectives for 2020 by t	
	Policy proposal 11: Targeted awareness raising and information campaigns on food waste production.	
	Policy proposal 12: Develop mandatory Member State specific food waste prevention targets	

Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products

Name	Promote healthier and diverse food consumption with less emphasis on meat products
Problem targeted	The overconsumption of animal derived protein is particularly problematic (in 2007 the EU27 average per capita protein intake was about 70% higher than the WHO recommended amount). High meat consumption has negative effects on the environment and on human health. As the production of meat requires a lot of land per unit of output, meat consumption increases the demand for land and thus the pressure on forests. In task 2 it was estimated that 80% of the world's agricultural land is used for meat production.
Objective	Consumers should know more about the effects of high meat consumption on their health and on the environment and the advantages of eating less meat.

Description	Awareness rising by information and education.		
Link with policy	1.a. Produce commodities with low land use impact		I
evaluation criteria	1.b. Produce commodities with low deforestation impact I		1
	2. Produce products with low d	-	ı
		oducts with low deforestation	ı
	impact		
	4. Reduce EU consumption (in	general, and more specifically	D
	of commodities and products havin	g deforestation impacts)	
Type of measure	Regulatory measure		
	Voluntary measure		Х
	Market-based instrument		
	Information and awareness raising		Х
	Funding mechanism		
	Capacity building and technical assi	stance	
Initiator	European Commission (DG-Researd	ch, DG-Environment, DG-Agricu	lture,
	DG-Sanco).		
Target group	General public, politicians.		
Critical considerations	This policy proposal might enger	nder opposition from the live	stock
	sector.		
Impact on	Effectiveness	Low	
deforestation	Awareness raising alone is not		
	effective. People also need to be w	villing, motivated and able to ch	ange
	their behaviour.		
	Magnitude	Medium	
	Of the 60% of the deforestation	•	and
	associated to the food sector, 18%		
	Given (1) the amount of land use		
	the one hand and (2) the enormou		
	supporting our meat based diets, re		iids d
Efficiency of the	large potential for indirectly reducing the pressure on forests. Impact on deforestation Medium		
measure	Resources input Medium		
measure	In order to be successful, awarene		ainad
		_	
	and targeted (simple enough, provided at the right time and place, etc.). Because of this the resource input for this proposal will be relatively high. This leads us to classify the required resource input as medium.		
Possible side effects	The overconsumption of meat is associated with various health		
	problems and obesity. Reducing meat consumption will bring health		
	benefits.		
Links to other measures			
and legislation			

Policy proposal 16: Consumer tax on meat products

Name	Consumer tax on meat products	
Problem targeted	The overconsumption of animal derived protein is particle problematic (in 2007 the EU27 average per capita protein intake about 70% higher than the WHO recommended amount). High consumption has negative effects on the environment and on he health. As the production of meat requires a lot of land per upoutput, meat consumption increases the demand for land and the pressure on forests. It is estimated that 80% of the weagricultural land is used for meat production.	meat uman nit of thus
Objective	The objective of the tax is to divert consumption away from a proteins, which should lessen the pressure on forests outside the	
Description	Economic, market based policies to influence consumption behader are common policy instruments. They include price-by mechanisms, either in the form of positive or negative pricing structure. The proposed policy option involves a negative pricing mechade The assumption is that a differentiated tax on meat will be better to stimulate consumers to consume either less meat and / or change that has a lower impact on the environment, specific deforestation. Differentiation in taxes could take place along following lines (from higher to lower preference): I evel of the tax set on the basis of the environmental impacts footprint that is associated with a specific piece of measuremental of the tax set on the basis of the type of meat to which average environmental impact is assigned. For instance, requires more land use and therefore might have a higher footprint than e.g. chicken; undifferentiated tax: all types of meat are subject to the same	pased imuli. nism. r able noose fically g the pact / at; ch an beef forest
Link with policy	1.a. Produce commodities with low land use impact	1
evaluation criteria	1.b. Produce commodities with low deforestation impact	ı
	 Produce products with low deforestation impact Organize supply chain of products with low deforestation impact 	I
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	D
Type of policy measure	Regulatory measure	
	Voluntary measure	
	Market-based instrument	Х
	Information and awareness raising	
	Funding mechanism Capacity building and technical assistance	\vdash
Initiator	Capacity building and technical assistance EU Member States –national law.	
Target group Critical considerations	Consumers with a meat based diet. Scope / feasibility: differentiating taxes according to environmental	
Citical Considerations	impacts of meat products is still a challenge, as their origin is	
	not known. This is also relevant in light of WTO rules. Transparer	

	production and trade chain is an important precondition.	
	Public acceptance: the policy will not appeal to the consumer.	
Impact on	Effectiveness Medium	
deforestation	The measure works very indirect at the consumption end, and the actual effectiveness of taxation on consumer behaviour is uncertain.	
	Magnitude	Medium
	The magnitude is medium as the factor in relation to deforestation.	ne livestock sector is a substantial
Efficiency of the	Impact on deforestation	Medium
measure	Resources input	Low
	The assessed impact on deforesta the aspects elaborated under effects	ation is assessed as medium, due to ctiveness and magnitude.
Possible side effects	Question is to what extent consumer taxes in EU countries will lead to reduction in meat production and associated deforestation worldwide. A reduced EU demand could lead to a price reduction in world market which might trigger demand in other countries/regions. Social and economic consequences for EU livestock sector, which will be depend on the level of the tax and the price-elasticity of the demand for meat. The burden of a tax on meat will hit the less wealthy part of the population harder. The overconsumption of meat is associated with various health problems and obesity. Reducing meat consumption will bring health benefits.	
Links to other measures and legislation	Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products. Policy proposal 18: Mandatory labelling of the forest footprint of (food) products. Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities.	

Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation

Name	Mandatory labelling of the origin of food products, main ingredients and ingredients that are associated with deforestation
Problem targeted	Current labelling requirements in the EU for meat other than beef do not include its place of origin, allowing imports packaged in Europe to be labelled as European (Forest Footprint Disclosure, 2011). The statement 'produced in the EU' does not mean that no imported ingredients have been used. Product labels do not always mention all ingredients or remain general (e.g. 'vegetable oils'). Similarly, the provenance of beef produced on deforested land can be concealed within ready meals.
Objective	Enable consumers to make well-informed choices on the basis of information on the origin of products and their ingredients.
Description	The new EU Regulation 1169/2011 on the provision of food information to consumers considerably changes existing legislation on the labelling

of the origin or place of provenance of food. From 13 December 2014 the indication of the country of origin or place of provenance shall be mandatory: where failure to indicate this might mislead the consumer as to the true country of origin or place of provenance of the food; for swine, sheep, goat and poultry meat (the labelling of beef and beef products is already regulated by Regulation N° 1760/2000); for the primary ingredient of a food (commonly a primary ingredient is defined as representing more than 50% of that food) when its origin or place of provenance is different from the food itself. The exact provisions of the latter two bullet points still need to be defined. The common definition of 'primary ingredient' could e.g. be extended to 'any ingredient that might be associated with deforestation'. Given the importance of the deforestation associated with the import of feed that is used for feeding animals in the EU, the definition of ingredient should also cover feed fed to animals. The Commission also committed itself to assess the necessity/feasibility of the mandatory labelling of the country of origin or place of provenance for: types of meat other than beef, swine, sheep, goat and poultry; milk and milk used as an ingredient in dairy products; unprocessed foods; single ingredient products; ingredients that represent more than 50% of a food; meat used as an ingredient. The Commission should take this opportunity to make sure these provisions are defined in a way that is most meaningful with respect to providing people with information on the origin of food and its ingredients that might be associated with deforestation. Link with policy Produce commodities with low land use impact evaluation criteria 1.b. Produce commodities with low deforestation impact 2. Produce products with low deforestation impact 3. Organize supply chain of products with low deforestation impact Reduce EU consumption (in general, and more specifically D of commodities and products having deforestation impacts) Type of measure Regulatory measure Х Voluntary measure Market-based instrument Information and awareness raising Х Funding mechanism Capacity building and technical assistance Initiator **European Commission** Food manufacturers (responsible for setting origin labels), retailers Target group (responsible for setting origin labels of own brands) and households (who might decide whether or not to buy a food based on information on its origin).

Critical considerations	The provision of information on the origin of products is certainly interesting, but might still be less tangible to most people than a sustainability label as people e.g. still need to know that meat from Brazil might be associated with deforestation. Information on the origin of products or its ingredients is only an indicator, but does not establish a one on one relationship with (un)sustainability. Providing too much information on food product labels might lead to disinformation.	
Impact on	Effectiveness	Low
deforestation	The mandatory labelling of the origin of food products, main ingredients and ingredients that are associated with deforestation alone is not sufficient and therefore not very effective on its own. People also need to understand the information that is offered to them. To most people the link between the origin of products (and their ingredients) and deforestation might be very indirect. Also, they need to be willing, motivated and able to change their behaviour on the basis of the information that is offered to them.	
	Magnitude	Medium
		d in EU consumption is associated to
Efficiency of the	the food sector (task 2 results).	Low
measure		
	Resources input The scope of the mandatory labelling of the origin of food products, main ingredients and ingredients that are associated with deforestation is uncertain so are the associated costs. The burden is highest for the food manufacturers and retailers. The below information is taken from the impact assessment report on general food labelling issues accompanying the proposal for a regulation on the provision of food information to consumers (European Commission, 2008b). Companies labelling food products that would fall in the scope of the regulation and do not yet provide a proper country of origin labelling will have to collate the country of origin information of its products. The cost in acquiring this information depend on the actual definition of country of origin used and the extent, to which country of origin information of single and compound ingredients has to be traced back. If the regulations require labelling the origin according to the origin of the ingredients, information costs are likely to rise, depending on whether the information is already available using established information systems or whether these have to be established. Companies also will incur one off costs for changing their labels to include the information. Country of origin labelling might have a cost driving effect by requiring an increased frequency of labelling changes. If country of origin labelling is extended to cover single ingredients, changes in recipes and sourcing require changes on the label to adequately cover the origin of the product. According to a study from New Zealand the existing tracking and tracing	

	turnover (Nzier, 2005). Evidence from an SME Panel conducted by EICN (2006) suggests that about 70% of companies already indicate the country of origin on at least some of their products, and that around half of these companies provide country of origin information on a voluntary basis.
Possible side effects	n.a.
Links to other measures	Regulation 1169/2011 on the provision of food information to
and legislation	consumers

Policy proposal 18: Mandatory labelling of the forest footprint of (food) products

Name	Mandatory labelling of the forest footprint of (food) products	
Problem targeted	Consumers need to be able to make well-informed consumer choic	es.
	There are a host of certification schemes that provide information of	
	the environmental performance and/or footprint of products, but the impact on deforestation is barely taken into consideration. The current proliferation of certification schemes might even add to the general	
	disinformation. As a consequence, consumers simply do not	know
	which criteria these schemes are looking at. At the moment	, the
	provision of information to consumers on the impact of produc	ts on
	deforestation or embedded land use is nonexistent.	
Objective	Provide consumers with easy to understand information on the f	orest
	footprint of products so they can take this into account when b	uying
	(food) products.	
Description	All (food) products that might be associated with deforestation (s	- 1
	to be defined) need to carry a label indicating whether it has	
	causing deforestation or not. For reasons of clarity and effective	
	(food) products will carry either the label 'No deforestation' or	
	product might the associated with deforestation'. In order to be el	- 1
	for the 'No deforestation' label, products must be certifie	
	deforestation-free by a recognised certification body, using a sci	heme
	that has been approved by the European Commission.	
Link with policy	1.a. Produce commodities with low land use impact	1
evaluation criteria	1.b. Produce commodities with low deforestation impact	1
	2. Produce products with low deforestation impact	l
	3. Organize supply chain of products with low deforestation	D
	impact	
	4. Reduce EU consumption (in general, and more specifically	D
- c	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	Х
	Voluntary measure	
	Market-based instrument	
	Information and awareness raising	Х
	Funding mechanism	
	Capacity building and technical assistance	
Initiator	European Commission	
Target group	All actors in the supply chain: voluntary certification initiatives, farmers,	
	traders, food manufacturers and processors, retailers (responsib	le for

	labelling own brands) and households (who frequently decide whether or not to buy a (food) product based on its label).	
Critical considerations	The footprint information provided to consumers must be easy to understand by all consumers.	
	Mandatory labelling and certification requirements fall under the scope of WTO TBT Agreement.	
	This policy proposal can be a cri	tical building block for other policy
	proposals aimed at reducing the deforestation.	e impact of EU consumption on
Impact on	Effectiveness	Medium
deforestation	The mandatory labelling of the forest footprint of products could be effective if the message is conveyed in a simple way: products either carry the label 'No deforestation' or 'This product might the associated with deforestation'. Of course, this is only the case when consumers are aware of the (importance) of the deforestation problem, and are willing, motivated and able to change their behaviour.	
	Magnitude	High
	The scope of this proposal is	potentially very large and may
	encompasses all products associountries of origin.	ciated with deforestation and all
Efficiency of the	Impact on deforestation	High
measure	Resources input	Medium
Possible side effects	Mandatory labelling of the forest footprint of (food) products requires that all producers of commodities that might be associated with deforestation need to obtain a certificate stating that their production activities are not associated with deforestation if they want that products put on the EU market containing their commodities as an ingredient can carry the 'No deforestation' label. Manufacturers and retailers will also incur costs for changing their labels to include the information. Labelling the deforestation footprint of products might have a cost driving effect by requiring an increased frequency of labelling changes. Changes in recipes and sourcing require changes on the label to adequately cover the deforestation footprint of a product. In order to allow for the labelling of the forest footprint of products the quality of the existing (voluntary) labels has to be improved as they currently cannot provide proof that a commodity has been produced 100% deforestation free.	
Possible side effects	Administrative burden for certification may be high, which might put smallholders at a disadvantage. Disinformation because product labels contain too much information. Certification requirements should not be biased against countries with weak state capacities.	
Links to other measures and legislation	Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation Policy proposal 16: Consumer tax on meat products Policy proposal 18: Mandatory labelling of the forest footprint of (food) products. Policy proposal 21: Strengthen voluntary initiatives certifying	

sustainably produced (deforestation-free) commodities.
Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation.

Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services

Problem targeted To date, Member States are greening their procurement practices and fostering the uptake of sustainable products and services. The criteria that products and services have to meet, however, vary from country to country. In addition, the potential of green public procurement has only been marginally exploited. (European Commission, 2008) Objective Public administrations and services only source deforestation-free (food) products. Description Public administrations and services only source deforestation-free (food) products. Standardised terms of reference are available for the procurement of deforestation-free (food) products making reference to the forest footprint of (food) products as certified by a recognised certification body, using a scheme that has been approved by the European Commission to certify the forest footprint of (food) products evaluation criteria 1.b. Produce commodities with low land use impact 1.b. Produce products with low deforestation impact 1.b. Produce products with low deforestation impact 1.c. Produce products with low deforestation impact 1.d. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts) Type of measure Regulatory measure Market-based instrument A Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts) Target group Regulatory measure Market-based instrument Linformation and awareness raising Funding mechanism Capacity building and technical assistance Initiator European Commission or EU Member States Target group Public administrations and services, all actors in the supply chain and the general public (which should be inspired by the exemplary role of public administrations and services). Public procurement practices might be construed as discrimination and thus be subject to trade agreements administered by the WTO. Impact on deforestation Public procurement is generally considered as a powerful tool to green	Name	General requirement to apply strir		iples
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the supply of products and services. Magnitude Medium The scope of this proposal is very large and encompasses all products	Impact on	Effectiveness	Medium	
Magnitude Medium The scope of this proposal is very large and encompasses all products	deforestation	Public procurement is generally considered as a powerful tool to green		
The scope of this proposal is very large and encompasses all products		the supply of products and services.		
		Magnitude	Medium	
		The scope of this proposal is very	large and encompasses all pro-	ducts
associated with deforestation and all countries of origin. The demand		associated with deforestation and	all countries of origin. The der	mand

	for commodities and products deforestation by public authorities	that might be associated with is a fraction of the entire demand.
Efficiency of the	Impact on deforestation	Medium
measure	Resources input	Low
	The required resource input for t	his measure is relatively low if the
	labelling of the forest footprint	of (food) products is already well
	established or will become manda	atory in the near future. If not, the
	resource input associated with this	measure will increase considerably.
Possible side effects	Stringent public procurement requirements with respect to the forest	
	footprint of (food) products might	trigger market actors to also become
	more sustainable in terms of	other environmental and social
	sustainability issues.	
Links to other measures	Policy proposal 18: Mandatory labe	elling of the forest footprint of (food)
and legislation	products.	
	Policy proposal 21: Strengther	n voluntary initiatives certifying
	sustainably produced (deforestation	n-free) commodities.

Policy proposal 20: Review the current rules and regulations for use of animal by-products

Name	Review the current rules and regulations for use of anima	l by-	
	products		
Problem targeted	The termination of animal waste protein as livestock feed (e.g. bone		
	meal) after the BSE crisis resulted in increased imports of protein feed		
	especially soybeans from South America.		
Objective	Rational use of animal proteins from slaughter offal for producti	on of	
	feed for pigs and poultry.		
Description	Review rules and explore potential for the use of processed a		
	proteins from slaughter offal for the production of feed for pig	s and	
	poultry.		
Link with policy	1.a. Produce commodities with low land use impact	D	
evaluation criteria	1.b. Produce commodities with low deforestation impact	D	
	2. Produce products with low deforestation impact	D	
		3. Organize supply chain of products with low deforestation D	
	impact		
	4. Reduce EU consumption (in general, and more specifically	D	
- ·	of commodities and products having deforestation impacts)		
Type of measure	Regulatory measure X		
	Voluntary measure		
	Market-based instrument	.,	
	Information and awareness raising	Х	
	Funding mechanism		
Luitiana	Capacity building and technical assistance		
Initiator	European Commission (DG-AGRI)		
Target group	European Commission		
Critical considerations	Resistance by the general public resulting from the historic BSE crisis.		
Impact on	Effectiveness Low		
deforestation	Resistance by consumers and the food industry will likely		
	significant implementation barriers, which in turn may limit	tne	

	effectiveness of this option.	
	Magnitude	Low
	•	astes and by-products that could be cient to substitute for a significant
	fraction of current protein imports.	_
Efficiency of the	Impact on deforestation	Low
measure	Resources input	Low
	, , ,	ow because both implementation of economically viable animal by-
	products will limit the likely impacts	-
Possible side effects	Resistance by consumers and food industry.	
	Follows the principle of efficient use	e of valuable resources.
Links to other measures and legislation	n.a.	

Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities

Name	Strengthen voluntary initiatives certifying sustainably proc	luced
	(deforestation-free) commodities	
Problem targeted	Voluntary multi-stakeholder sustainable certification initiatives like the	
	Roundtable on Sustainable Palm Oil (RSPO), Round Table	e on
	Responsible Soy (RTRS) and the Roundtable on Sustainable Bio	fuels
	(RSB) assist businesses in the supply chain to find standards to ac	hieve
	their environmental and social goals. The standards and monitoring	g and
	verification practices of these initiatives currently cannot ensure	
	the goods they certify as 'sustainable' are effectively deforestation	-free.
	(Calen May et al., 2012)	
Objective	Strengthen certification schemes to ensure that certification means	
	the produced, processed or traded commodities are deforestation-	
Description	Support the development of existing (or new) certification schem	
	ensure that certification by these schemes means that the prod	
	processed or traded commodities are effectively deforestation-free.	
Link with policy	1.a. Produce commodities with low land use impact	<u> </u>
evaluation criteria	1.b. Produce commodities with low deforestation impact D	
	2. Produce products with low deforestation impact	
	3. Organize supply chain of products with low deforestation	
	impact	
	4. Reduce EU consumption (in general, and more specifically	
	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure	
	Market-based instrument	
	Information and awareness raising	
	Funding mechanism	
	Capacity building	X
Initiator	European Commission	
Target group	Voluntary multi-stakeholder sustainable certification initiatives	and

	supply chain actors	_
Critical considerations	supply chain actors. As many of the existing initiatives have been initiated and/or designed.	
Critical considerations	,	
	by those private companies that are already dominating the market one	
	should make sure smallholders can also access to such schemes.	
Impact on	Effectiveness	Low
deforestation		cation schemes that can effectively
		the produced, processed or traded
		ree does not mean that absolute
		sustainability certification schemes
		rate a particular company produces
	commodities that are not ass	sociated with deforestation. Such
	certification schemes are an inc	dispensible building block of other
	identified policy proposals.	
	Magnitude	High
	The product and geographical sc potentially very broad.	cope of the certification schemes is
Efficiency of the	Impact on deforestation	Medium
measure	Resources input	Low
		o strengthen existing certification
	schemes is relatively limited.	
Possible side effects	n.a.	
Links to other measures	Policy proposal 16: Consumer tax o	on meat products
and legislation	Policy proposal 18: Mandatory laborate	elling of the forest footprint of (food)
	products.	
	Policy proposal 19: General requ	uirement to apply stringent public
	procurement principles with resp	pect to the deforestation impact of
	products and services.	
		inability criteria for biofuels for other
	uses of the same crops (food, feed,	, products, materials).
		ng Emissions from Deforestation and
	forest Degradation (REDD+)	
		x (for portfolio investors investing in
	corporations with a 'positive' fores	t footprint).
	Policy proposal 26: Make the prot	tection of foreign direct investments
	under Bilateral Investment Treat	ies (BITs) conditional upon specific
	deforestation related responsible in	nvestment criteria.
	Policy proposal 27: Make the protection of foreign direct investments	
	by export credits dependent on specific deforestation related	
	responsible investment criteria.	
	Policy proposal 22: Strengthen th	e environmental provisions in trade
	agreements.	
		nport tariffs of commodities that are
	associated with deforestation.	
		ainability criteria to the import of
	commodities that are associated w	ith deforestation.

Policy proposal 22: Strengthen the environmental provisions in trade agreements

Name	Strengthen the environmental provisions in trade agreements	
Problem targeted	There can/could be more (effective) environmental prov	isions
	(specifically concerning deforestation) in trade agreements.	
Objective	Increase environmental standards in partner countries and enl	nance
	effective co-operation on environmental matters and deforest	
	issues.	
Description	The environmental provisions included in the new generation of	f free
Description	trade agreements comprise the reaffirmation by the partie	
	effectively implement their commitments in the framework o	
	Multilateral Environmental Agreements (MEAs) to which they are p	
	The provision in free trade agreements in which the parties to	'
	agreement also commit themselves to initiate co-operation on	
	related measures to tackle deforestation, including addre	
	problems regarding illegal logging, should be more specific in term	-
	scope (also refer to soy, meat and palm oil) and objectives.	
Link with policy	1.a. Produce commodities with low land use impact	D
evaluation criteria	1.b. Produce commodities with low deforestation impact	D
	2. Produce products with low deforestation impact	D
	3. Organize supply chain of products with low deforestation	D
	impact	
	4. Reduce EU consumption (in general, and more specifically	
	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	Х
	Voluntary measure	Х
	Market-based instrument	
	Information and awareness raising Funding mechanism	
	Capacity building and technical assistance	
Initiator	European Commission	
Target group	Third countries with which the EU is negotiating free trade agreements.	
Critical considerations	It seems to be rather difficult to integrate (ambitious) environmental	
	provisions and concerns in trade agreements.	
	It might be wise to extend the scope of more ambitious environm	nental
	provisions beyond the problem of deforestation.	
Impact on	Effectiveness Medium	
deforestation	Enhancing the environmental standards applicable in countries	
	which the EU imports products and services that are associated	
	deforestation is potentially effective. The effectiveness of calling	
	countries to enhance their environmental standards through trade	
	agreements, however, remains uncertain. The effectiveness of this	
	proposal is therefore evaluated as moderate.	
	Magnitude Medium	
	The magnitude of this proposal is potentially very large, but ac	
	limited to those regions the EU is currently (planning to) nego	
	(new) trade agreements with. Also, the thematic and product sco	pe of
Tffisions: - C 11	these trade negotiations might be limited.	
Efficiency of the	Impact on deforestation Medium	
measure	Resources input Low	
	Negotiating new trade agreements is time consuming. Environm	iental

Possible side effects	provisions only make up a small part of trade agreements, but effectively strengthening environmental provisions in trade agreements might take a lot of time as well. As such negotiations are conducted for the EU as a whole important economy of scale can be realised, this may drive the necessary resource input down. Smallholder farmers have not the same capacity and ability to fulfil environmental criteria than large scale industrial farmers, and hence are more likely to be discriminated by 'green protectionism'.
Links to other measures	Policy proposal 9: Promote and strengthen FLEGT, and expand to other
and legislation	commodities

Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation

Name	Increase the import tariffs of commodities that are associated	with
	deforestation	
Problem targeted	Generally speaking, the commodities that are associated	
	deforestation can freely (or very easily) enter the EU market. T	
	extent that the market price of these commodities is below their	
	economic cost over-consumption and deforestation are promoted.	•
Objective	Discourage the import of commodities that are associated	with
	deforestation.	
Description	Increase (or introduce) import tariffs on commodities that	
	(imported from countries where the production of these commo	
	is at risk of being) associated with deforestation (like soybeans, soy	
	cake, meat products, palm oil and cocoa). Concretely, importers ha	
	demonstrate that the commodities they are importing	
	deforestation-free. To this end, commodities need to be certified	•
	recognised certification body, using a scheme that has been app	
	by the European Commission to certify the forest footprint of (
	products. Commodities that are not certified will be subject	to an
	(increased) import tariff.	1.
Link with policy	1.a. Produce commodities with low land use impact	I
evaluation criteria	1.b. Produce commodities with low deforestation impact	1
	2. Produce products with low deforestation impact	I
	3. Organize supply chain of products with low deforestation	D
	impact	
	4. Reduce EU consumption (in general, and more specifically	
	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure	
	Market-based instrument	Х
	Information and awareness raising	
	Funding mechanism	
	Capacity building and technical assistance	
Initiator	European Commission	
Target group	Farmers in third countries (where the production of commodities like	

	souheans souhean cake meat pro	educts nalm oil and cocoa is at risk of
		· •
Critical considerations	being associated with deforestation. The political feasibility of increasing that are associated with deforestation. This policy proposal might confusion Although WTO rules provide as environmental objectives and addresses are not protecting the environment, the environmental measures are not protectionism. Ideally the tariff equals the extended deforestation and possibly also other this proposal addresses the deformental measures are not protectionism.	ng the import tariffs of commodities tion might be low. flict with international trade rules. It is cope for its members to pursue opt trade-related measures aimed at the WTO rules aim to ensure that it applied arbitrarily or as hidden the ternal cost that is associated with the ner unsustainable practices. Orestation that is directly associated macro point of view this proposal,
	1	limit the pressure on forests. The
	production that is associated with to other markets.	deforestation can simply be diverted
		which this proposal build(s) should
	ideally also address indirect lar	nd use changes a major driver of
	deforestation.	1
Impact on	Effectiveness	High
deforestation		nmodities, products and services that
		n enter the EU market is potentially
	1	t of goods that are associated with
	with EU consumption.	orestation that is directly associated
	Magnitude	Medium
		phical scope of this proposal is very
		posal might, however, be limited by
Efficiency of the	Impact on deforestation	High
measure	Resources input	Medium
		ne Union is relatively low. Companies
		, products or services from countries
	1	oods and services is at risk of being
	associated with deforestation will	have to demonstrate their goods and
	services are not associated with de	eforestation. Obtaining the necessary
	certificates might require some res	sources. However, in case a flat tariff,
	which does not differentiate be-	tween goods and services that are
		d those that are not, is applied the
	1	proposal, however, does not propose
	·	input might however rise because of
	trade related lawsuits.	
Possible side effects	products and exporting countries. that might be associated with the do not outweigh the benefits that the tariff.	substitution effects in terms of both It must be safeguarded that the costs possible negative effects of this shift are targeted with the introduction of
	Ine price of commodities, product	ts or services that are associated with

	deforestation might go up so also the EU industry and EU consumers might find themselves less well off. Smallholder farmers have not the same capacity and ability to fulfil environmental criteria than large scale industrial farmers, and hence are more likely to be discriminated by 'green protectionism'.
Links to other measures	This policy option could have an alternative for (or complement)
and legislation	Policy proposal 24: Attach sustainability criteria to the import of
	commodities that are associated with deforestation.
	Policy proposal 21: Strengthen voluntary initiatives certifying
	sustainably produced (deforestation-free) commodities.

Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation

Name	Attach sustainability criteria to the import of commodities that	t are
	associated with deforestation	
Problem targeted	Generally speaking, commodities that are associated with deforestation can freely (or very easily) enter the EU market. To the extent that the market price of these commodities is below their real economic cost, over-consumption and deforestation are promoted.	
Objective	Prevent the import of commodities that are associated deforestation while deforestation-free commodities can still access EU market.	
Description	Introduction of sustainability criteria to the import of commodities that are at risk of being associated with deforestation (like soybeans, soybean cake, meat products, palm oil and cocoa). Concretely, importers have to demonstrate that the commodities they are importing are deforestation-free. To this end, commodities need to be certified by a recognised certification body, using a scheme that has been approved by the European Commission to certify the forest footprint of (food) products. Commodities that are not certified cannot enter the EU.	
Link with policy	1.a. Produce commodities with low land use impact	ı
evaluation criteria	1.b. Produce commodities with low deforestation impact	I
	2. Produce products with low deforestation impact	I
	3. Organize supply chain of products with low deforestation impact	D
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	Х
	Voluntary measure	
	Market-based instrument	
	Information and awareness raising	
	Funding mechanism	
	Capacity building and technical assistance	
Initiator	European Commission	
Target group	Farmers in third countries (where the production of commodities like	
	soybeans, soybean cake, meat products, palm oil and cocoa is at r	isk of

being associated with deforestation	n)		
The political feasibility of installing sustainability criteria for commodities that are associated with deforestation might be low. This policy proposal might conflict with international trade rules. Although WTO rules provide scope for its members to pursue environmental objectives and adopt trade-related measures aimed at protecting the environment, the WTO rules aim to ensure that environmental measures are not applied arbitrarily or as hidden protectionism. An important condition for the broad acceptation and implementation of sustainability criteria is traceability (which might be problematic for certain bulk commodities), and the existence of reliable certification systems. The certification scheme(s) on which this proposal build(s) should ideally also address indirect land use changes as a major driver of deforestation.			
	High		
This proposal is highly effective to services that are associated with the hence the deforestation directly as Magnitude The possible product and geographs	co prevent the import of goods and deforestation on the EU market and		
	High		
	High Medium		
The resource input required by the union is relatively low. Companies that want to export commodities, products or services from countries where the production of these goods and services is at risk of being associated with deforestation will have to demonstrate their goods and services are not associated with deforestation. Obtaining the necessary			
This policy proposal might trigger substitution effects in terms of both products and exporting countries. It must be safeguarded that the costs that might be associated with the possible negative effects of this shift do not outweigh the benefits that are targeted with the introduction of the sustainability criteria. The price of commodities, products or services that are associated with deforestation might go up so also the EU industry and EU consumers might find themselves less well off. Smallholder farmers have not the same capacity and ability to fulfil environmental criteria than large scale industrial farmers, and hence are more likely to be discriminated by 'green protectionism'.			
This policy option could have an alternative for (or complement)			
Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation. Policy proposal 18: Mandatory labelling of the forest footprint of (food) products Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities could provide			
	The political feasibility of in commodities that are associated we This policy proposal might confalthough WTO rules provide is environmental objectives and addition protecting the environment, the environmental measures are not protectionism. An important condition for the brof sustainability criteria is traceab certain bulk commodities), and it systems. The certification scheme(s) on videally also address indirect land deforestation. Effectiveness This proposal is highly effective it services that are associated with hence the deforestation directly as Magnitude The possible product and geographoad. Impact on deforestation Resources input The resource input required by the that want to export commodities, where the production of these grassociated with deforestation will services are not associated with decertificates might require some resources and exporting countries. This policy proposal might trigger products and exporting countries. That might be associated with the do not outweigh the benefits that the sustainability criteria. The price of commodities, product deforestation might go up so also might find themselves less well off Smallholder farmers have not the environmental criteria than large are more likely to be discriminated. This policy option could have an all Policy proposal 23: Increase the in associated with deforestation. Policy proposal 18: Mandatory lab products Policy proposal 21: Strengthe		

	the	objective	knowledge	to	define	which	products	meet	the
	sustainability criteria.								

Policy proposal 25: Investment tax (for portfolio investors investing in corporations with a 'positive' forest footprint)

Name	Investment tax (for portfolio investors investing in corporations v	vith a
	'positive' forest footprint)	
Problem targeted	Portfolio investors control large amounts of money. Currently	these
	investors have littleincentive to refrain from investing this mon	ey in
	equity, bonds or investment projects of corporations whose acti	ivities
	are associated with deforestation, directly and/or indirectly.	
Objective	Encourage portfolio investors to invest in corporations whose act	
	are not associated with deforestation. The idea is to use the m	
	power of portfolio investors as leverage to influence how busin	esses
	operate abroad.	
Description	Portfolio investments in corporations whose activities are associated as a second control of the	
	with deforestation are subject to a tax. This tax is a percentage of	
	initial investment and is collected upon investment. It might all	
	possible to tax investment gains which can take the form of c	apitai
	gains and/or dividends.	0n 0r
	Whether a corporation's activities are associated with deforestati not is determined by means of its forest footprint. A corpora	
	forest footprint is assessed and certified by a (voluntary) certific	
	initiative that has been approved by the European Commission.	ation
Link with policy	1.a. Produce commodities with low land use impact	ı
evaluation criteria	1.b. Produce commodities with low deforestation impact	D
	Produce products with low deforestation impact	D
	3. Organize supply chain of products with low deforestation	
	impact	
	4. Reduce EU consumption (in general, and more specifically	
	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure	
	Market-based instrument	х
	Information and awareness raising	
	Funding mechanism	
	Capacity building and technical assistance	
Initiator	European Commission	
Target group	Portfolio investors (entities like pension funds, insurance compa	anies,
	asset managers and sovereign wealth funds that pool or ma	anage
	financial resources with the aim to invest them in equity, bon	ds or
	other investment projects).	
Critical considerations	Scope: focus on deforestation alone or extend the scope o	
	investment tax to environmental sustainability or even	social
	responsibility in the broad sense?	
	Feasibility: is it feasible to develop a screening framework (e.g. cer	
	forest foot printing of the operations of corporations) to d	lecide

	les tarred /the immediate flare to		
	•		
	· · ·		
	Medium		
The effectiveness of this proposal depends amongst others on (1) the height of the investment tax, (2) the costs for obtaining a certificate stating a companies' operations are not associated with deforestation, (3) the availability of alternative capital without severe deforestation related standards, (4) the quality of the certification system, and (5) the enforceability of the tax by the competent authorities. The effectiveness of this proposal is evaluated as moderate. If you make the investment tax a dedicated tax than the revenue could e.g. be reinvested in re-forestation projects. The latter would have a positive			
impact on the effectiveness of the	measure.		
Magnitude	Medium		
EU portfolio investors participat	e in equity, bonds or investment		
deforestation, directly and/or indi	activities might be associated with rectly. The extent to which they are tude of this proposal is evaluated as		
Impact on deforestation	Medium		
	Medium		
The required resource input for this proposal will place a burden on both companies attracting finance (who will have to proof their activities are not associated with deforestation) and a Member State governments or the Commission (who will have to set up the proper mechanisms to collect the investment tax and make sure investors play by the rules). The burden on the companies attracting finance may be relatively low if most of these companies already engaged in the labelling of the forest footprint of their products and services or if this labelling will become mandatory in the near future. If not, the resource input associated with this measure will increase considerably. The resources needed by the competent authorities might be considerable if cheating the system is possible. The required resource input of this proposal is evaluated as moderate.			
	medium sized enterprises supplying		
corporations that are certifying their forest footprint.			
Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led initiative (see https://www.responsibleagroinvestment.org/rai/). Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities (to be extended to the certification of the forest footprint of corporations/activities).			
	height of the investment tax, (2) stating a companies' operations at (3) the availability of alternative related standards, (4) the quality of enforceability of the tax by effectiveness of this proposal is evicinvestment tax a dedicated tax invested in re-forestation project impact on the effectiveness of the Magnitude EU portfolio investors participate projects of corporations whose deforestation, directly and/or indictinvolved is not known. The magnitude moderate. Impact on deforestation Resources input The required resource input for the both companies attracting finance activities are not associated with governments or the Commission mechanisms to collect the investments by the rules). The burden on the companies attracting finance activities are not associated with governments or the Commission mechanisms to collect the investments of these companies already of footprint of their products and semandatory in the near future. If not this measure will increase consider competent authorities might be compossible. The required resource input of this Places a burden on small and recorporations that are certifying the Policy proposal 29: Promote gui Investments (RAI) including criteria social sustainability, building on https://www.responsibleagroinves. Policy proposal 21: Strengthe sustainably produced (deforestation sustainably produced (deforestation sustainably produced (deforestation deforms and sustainably produced (deforestation sustai		

Policy proposal 26: Make the protection of foreign direct investments under Bilateral Investment Treaties (BITs) conditional upon specific deforestation related responsible investment criteria

Name Droblem torgeted	Make the protection of foreign direct investments under Bila Investment Treaties (BITs) conditional upon specific deforest related responsible investment criteria	tation		
Problem targeted	BITs only assign obligations to the host state and not to the invest the home state. Especially EU Member Statesbarely have any twith specifically dedicated environmental language.			
Objective	Encourage direct investors to make sure their actions are not associated with deforestation. The idea is to use the advantages BITs offer to investors in terms of protecting their investments ¹⁰ as leverage to influence how businesses operate abroad.			
Description	Softer language on the environmental and deforestation has included in BITs so that it is clear that a BIT aims to provinvestment, but in the wider framework of sustainable develope and the combat against deforestation. In case of dispute, the art tribunal will look at whether the investor in question was conducted type of activities that the BIT aimed to protect. Investors was activities are associated with deforestation could then lose protect offered to their foreign investments under a BIT. Whether a corporation's activities are associated with deforestation to is determined by means of its forest footprint. A corporationest footprint is assessed and certified by a (voluntary) certificative that has been approved by the European Commission.	omote oment rbitral acting whose ection or tion's		
Link with policy	1.a. Produce commodities with low land use impact			
evaluation criteria	1.b. Produce commodities with low deforestation impact	D		
	2. Produce products with low deforestation impact	D		
	3. Organize supply chain of products with low deforestation impact			
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)			
Type of measure	Regulatory measure	х		
	Voluntary measure			
	Market-based instrument	х		
	Information and awareness raising			
Funding mechanism				
	Capacity building and technical assistance			
Initiator	European Commission (which now has the sole competence of concluding investment treaties), will attach a higher priority to balancing the environment and the protection of foreign investment.			
Target group	Direct investors (private entrepreneurs as well as state-o	wned		

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¹⁰ De Schutter et al. (2009, page 161-162) state BITs typically contain (1) clauses guaranteeing that investments covered by the BIT will not be discriminated against domestic investments ('national treatment') or of investments from other countries ('most favored nation treatment'), (2) a clause prohibiting uncompensated expropriation or nationalization of the investment, and defining the conditions in which such operations ought to take place, (3) a clause guaranteeing that the investor will be granted 'fair and equitable treatment', that is, that it will be treated by the authorities with a reasonable degree of propriety, and 'full protection and security', that is, that the authorities of the host state will use sufficient law enforcement and police resources to protect the investor from wrongful interference from third parties, and (4) a clause allowing the investor to bring a claim before an arbitral tribunal in case of alleged violation of its rights under the BIT by the host government.

	companies and multilateral institutions which invest capital to establish, expand or (partly) acquire an undertaking).			
Critical considerations	Scope: focus on deforestation alone or extend the scope to environmental sustainability or even social responsibility in the broad sense?			
	Scope: focus on the cultivation, processing and/or trade of commodities that are often associated with deforestation or also include other activities?			
	Feasibility: is it feasible to develop a screening framework (e.g. certified forest foot printing of the operations of corporations) that provides			
		one can decide whether an investor ses that are offered to their foreign		
Impact on	Effectiveness	Medium		
deforestation	The effectiveness of this proposal depends amongst others on (1) the value of the protection clauses that are offered to foreign investments under BITs, (2) the costs for obtaining a certificate stating a companies' operations are not associated with deforestation, (3) the quality of the			
	certification system, and (a) the	e enforceability of the conditional		
	protection of foreign direct invest	ments under BITs. The effectiveness		
	of this proposal is evaluated as mod	derate.		
	Magnitude Medium			
	Direct investments by EU corpo	prations might be associated with		
		directly. The extent to which the		
	investments by EU corporation	n are effectively associated with		
	deforestation is not known. The ma	agnitude of this proposal is evaluated		
	as moderate.			
Efficiency of the	Impact on deforestation	Medium		
measure	Resources input	Medium		
	The required resource input for this proposal will place a burden both companies making direct investments (who will have to provide their activities are not associated with deforestation) and responsion authorities (who will have to verify whether companies that effective want to make use of the protection offered to them under BITs demonstrate whether their activities are not associated verify deforestation). The burden on the companies attracting finance may be relatively lost most of these companies already engaged in the labelling of the form footprint of their products and services or if this labelling will be compandatory in the near future. If not, the resource input associated verificant in the labelling will be companied to the intervention of their products and services or if this labelling will be companied to the intervention of their products and services or if this labelling will be companied to the intervention of t			
	this will be considerably higher. The resources needed by the competent authorities are relatively low as only a fraction of the companies will effectively make use of the protection offered to them under BITs. The required resource input of this proposal is evaluated as moderate. However, if most companies already engaged in certifying the deforestation footprint of their activities, the resource input can be			
Describite the Control	evaluated as low.	additional section of the		
Possible side effects	Reduced economic development and integration as EU investors might become more reluctant to invest abroad.			

Links to other measures and legislation	Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led initiative (see https://www.responsibleagroinvestment.org/rai/).
	Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities (to be extended to the certification of the forest footprint of corporations/activities).

Policy proposal 27: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible investment criteria

Name	Make the protection of foreign direct investments by export of dependent on specific deforestation related responsible invest criteria	ment		
Problem targeted	A lack of environmental conditions tied to obtaining support export credit agencies (ECAs) and development banks (e.g. the E well as a varying quality of the environmental review systems of lenders might have an impact on forests in third countries.	IB) as		
Objective	Encourage direct investors to make sure their actions are not associated with deforestation. The idea is to use the advantages ECAs and development banks offer to investors (investment insurance, investment guarantees and/or credit) as a leverage to influence how businesses operate abroad.			
Description	Investors whose activities are associated with deforestation can lose the advantages that are offered to them. Whether a corporation's activities are associated with deforestation or not is determined by means of its forest footprint. A corporation's forest footprint is assessed and certified by a (voluntary) certification initiative that has been approved by the European Commission.			
Link with policy	1.a. Produce commodities with low land use impact			
evaluation criteria	1.b. Produce commodities with low deforestation impact	D		
	2. Produce products with low deforestation impact	D		
	3. Organize supply chain of products with low deforestation impact			
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)			
Type of measure	Regulatory measure			
	Voluntary measure			
	Market-based instrument	Х		
	Information and awareness raising			
	Funding mechanism			
	Capacity building and technical assistance			
Initiator	EU Member States in collaboration with their ECAs.			
Target group	Direct investors (private entrepreneurs as well as state-owned companies which invest capital to establish, expand or (partly) acquire an undertaking).			
Critical considerations	Scope: focus on deforestation alone or extend the scope to environmental sustainability or even social responsibility in the broad			

	sense? Scope: focus on the cultivation, processing and/or trade of contract that are often associated with deforestation or also incontractivities?			
	Feasibility: is it feasible to develop a screening framework (e.g. certified			
	, •	tions of corporations) that provides		
		one can decide whether an investor		
	•	ses that are offered to their foreign		
	investments by export credits?	1		
Impact on	Effectiveness	Medium		
deforestation		depends amongst others on (1) the nents by export credits, (2) the costs		
	for obtaining a certificate stating associated with deforestation, (g a companies' operations are not 3) the quality of the certification y of the 'conditional' protection of		
	foreign direct investments by exp	ort credits. The effectiveness of this		
	proposal is evaluated as moderate.			
	Magnitude	Low		
	deforestation, directly and/or inc investments by EU corporation	directly. The extent to which direct s that might be associated with export credits is not known. The lated as low.		
Efficiency of the	Impact on deforestation	Low		
measure	Resources input	Medium		
	both companies making direct in their activities are not associated authorities (who will have to verify want to make use of the protection can demonstrate whether their deforestation). The burden on the companies already of these companies already of footprint of their products and semandatory in the near future. If not this will be considerably higher competent authorities are relative companies will effectively make use by export credits. The required resource input of this However, if most companies are	chis proposal will place a burden on evestments (who will have to proof with deforestation) and responsible by whether companies that effectively on offered to them by export credits activities are not associated with entire finance may be relatively low if engaged in the labelling of the forest rivices or if this labelling will become out, the resource input associated with er. The resources needed by the well low as only a fraction of the se of the protection offered to them as proposal is evaluated as moderate. Entready engaged in certifying the activities, the resource input can be		
Possible side effects	Reduced economic development a become more reluctant to invest al	and integration as EU investors might broad.		
Links to other measures and legislation	Policy proposal 29: Promote guid Investments (RAI) including criteria	delines for Responsible Agricultural a for safeguarding environmental and a World Bank led initiative (see		

Policy	proposal	21:	Strengthen	voluntary	initiatives	certifying
sustain	ably produ	ced (d	eforestation-	free) commo	odities (to be	extended
to the o	certification	າ of th	e forest footp	rint of corpo	orations/acti	vities).

Policy proposal 28: Assist in the development of a responsible investment framework

Name	Assist in the development of a responsible investment framework	(
Problem targeted Objective	As overall quality of the responsible investment policies for the biofuel, forest and agricultural sector that are developed by financial institutions is fairly poor with respect to (1) the measurability, reportability and verifiability of the principles and criteria used, (2) the use of principles and criteria that are based on international accepted standards and (3) the availability of mechanisms for internal monitoring and for external compliance, opportunities are missed with respect to channelling the expansion of the biofuel and agricultural sector to already deforested lands. (van Gelder and German, 2011) Development of a good quality responsible investment framework to facilitate the screening of investment proposals in the biofuel, forest and agricultural sector that is widely used.	
Description	Assist in the development of a good quality responsible invest framework, which (1) uses criteria that are measurable, reportable verifiable, and are based on international standards, (2) encomp mechanisms for internal monitoring and external compliance, ar can be applied to all forms of financing and all types of companie activities in the biofuel, forestry and agriculture sector.	e and asses nd (3)
Link with policy	1.a. Produce commodities with low land use impact	1
evaluation criteria	1.b. Produce commodities with low deforestation impact	D
	2. Produce products with low deforestation impact	D
	3. Organize supply chain of products with low deforestation impact	
	4. Reduce EU consumption (in general, and more specifically	
	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure	Х
	Market-based instrument	
	Information and awareness raising	
	Funding mechanism	
	Capacity building and technical assistance	Х
Initiator	European Commission	
Target group	Portfolio investors (entities like pension funds, insurance comparasset managers and sovereign wealth funds that pool or material resources with the aim to invest them in equity, born other investment projects), intermediaries (entities like governing providing development aid, (soft) loans, technical assistance investment incentives, development banks and multilateral institution providing loans and technical assistance, commercial banks providing and export credit agencies and direct investors).	ds or ments e or utions

Critical considerations	In order to be effective in levering sustainable investments in the biofuel, forestry and agriculture sector, it is critical that a good quality responsible investment framework is adopted by a significant number of financial institutions.			
Impact on	Effectiveness	Low		
deforestation	Providing assistance in the development of a good quality responsible investment framework does not mean this framework will effectively be used and/or lead to more responsible practices straight away. The effectiveness of this proposal is evaluated low.			
	Magnitude	Medium		
	The magnitude of this proposal dependent on the adoption of the proposed good quality responsible investment framework by a large number of portfolio investors and intermediaries. The magnitude of the use of such an investment framework is potentially moderate.			
Efficiency of the	Impact on deforestation	Low		
measure	Resources input	Low		
	Assisting in the development of a good quality responsible investment framework will generate advantages of scale as individual organisation might not need to invest (much resources) anymore in developing the own framework.			
Possible side effects	n.a.			
Links to other measures and legislation	Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led initiative (see https://www.responsibleagroinvestment.org/rai/).			

Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led initiative (see https://www.responsibleagroinvestment.org/rai/)

Name	Promote guidelines for Responsible Agricultural Investments	(RAI)
	including criteria for safeguarding environmental and social	
	sustainability, building on a World Bank led initiative (see	
	https://www.responsibleagroinvestment.org/rai/)	
Problem targeted	Unfair, inequitable and environmentally destructive invest	ment
	strategies and practices.	
Objective	EU investment in countries exporting to the EU follows guideline	es for
	responsible foreign investments. Fundamental principles include:	
	existing rights to land and natural resources are recognised.	d;
	investments enhance food security;	
	investments are transparent and monitored;	
	investment projects respect the rule of law, reflect best projects.	actice
	and are economically viable;	
	investments foster social and distributional impacts;	
	encourage sustainable resource use and monitor environm	nental
Description	impacts.	I dua
Description	Certain agricultural crops are not produced domestically in the EU to climatic constraints or because of a serious compa	
	disadvantage. In this case, potential EU foreign investments s	
	follow the rules of responsible agricultural investments.	iiouiu
	Develop and promote rules for foreign investment in agricu	lture.
	especially in land tenure, where agricultural investments resi	
	mutually beneficial local community and private sector partnerships.	
	Particular attention is given to the needs of the poor and vulnerable in	
	the specific context.	
Link with policy	1.a. Produce commodities with low land use impact	
evaluation criteria	1.b. Produce commodities with low deforestation impact	ı
	2. Produce products with low deforestation impact	ı
	3. Organize supply chain of products with low deforestation	ı
	impact	
	4. Reduce EU consumption (in general, and more specifically	
	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure	Х
	Market-based instrument	
	Information and awareness raising	Х
	Funding mechanism	
1.222.1	Capacity building and technical assistance	
Initiator	European Commission (DG-DEV, DG-AGRI, DG-ENV)	
Target group	Farmers, direct investors, the European Commission and the OECD	•
Critical considerations	n.a. Madium	
Impact on deforestation	Effectiveness Medium Promoting responsible foreign investments in agriculture in	
uerorestation	Promoting responsible foreign investments in agriculture is	
	specifically focussed on avoiding deforestation but addresses a range of issues which include sustainable resource use.	UI UdU
	range of issues which include sustainable resource use.	

	Magnitude	Low
	,	raction of land development in each npact on reducing deforestation will
Efficiency of the	Impact on deforestation	Low
measure	Resources input	Low
	responsible foreign investments in guidelines were already developed	g and promoting guidelines for agriculture are low; drafts of such d by international organizations. As ry only this measure will probably be pact on deforestation.
Possible side effects	n.a.	
Links to other measures and legislation	Guidelines for responsible investments are promoted by the FAO and the OECD and the Worldbank. See also 'Knowledge Exchange Platform for Responsible Agro-Investment (RAI). Policy proposal 25: Assist in the development of a responsible investment framework.	

Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions

Name	Facilitate and support the mandatory integration of environm issues (among which deforestation) into development actions	ental
Problem targeted	There is margin for improving the integration of environmental as in development cooperation. The actual use of the existing too facilitating the integration of environmental issues into develop cooperation remains limited. The same holds for the actual use of recommendations resulting from these tools. Additionally, the increased use of budget support as a method for delivery poses specific challenges for environmental mainstreat Despite outspoken recommendations, the use of Stratenironmental Assessments (SEAs) in sectoral budget supprogrammes where significant environmental effects might expected, it is not yet common practice.	or aid ming. ategic pport
Objective	 Enhance the quality of development actions with respect environmental issues: identify and avoid harmful environmental impacts (which undermine achieving the other objectives of develop cooperation); identify and seize the opportunities for enhancemental conditions. 	could
Description	Develop processes and tools that are tailored to integrate the environment in development cooperation. The use of these processes and tools should be mandated at the right moment in the policy process.	
Link with policy	1.a. Produce commodities with low land use impact	D
evaluation criteria	 Produce commodities with low deforestation impact Produce products with low deforestation impact 	D D

	3. Organize supply chain of products with low deforestation impact		
	-	general, and more specifically	
	of commodities and products having deforestation impacts)		
Type of measure	Regulatory measure		
	Voluntary measure		
	Market-based instrument		
	Information and awareness raising		х
	Funding mechanism		
	Capacity building and technical assi	stance	х
Initiator	European Commission and/or EU M	1ember States.	•
Target group	Development actions by all types Commission, development banks, E	•	pean
Critical considerations	The problem with the use of SEAs i		only
5	a lack of capacity and knowledge a	•	
	but also weak ownership.	8	- //
Impact on	Effectiveness	High	
deforestation	Facilitating and supporting the mar		ental
	issues (among which deforestation	, -	
	to make sure development actions	do not trigger deforestation, bu	ıt are
	more effective in reducing the pres	sure on forests.	
	Magnitude	Low	
	The magnitude of this proposal	is limited, at least directly, as	s the
	countries from which the EU impor	rts most deforestation (like Braz	il) do
	not receive much development ass	sistance. However, this proposa	l also
	addresses assistance to regions wh	hich currently do not export a	lot of
	deforestation to the EU today, but	might do so in the future.	
Efficiency of the	Impact on deforestation	Medium	
measure	Resources input	Low	
	This proposal wants to make su	_	
	effectively implemented. In this s		
	input required for this proposal		
	environment into all sorts of development actions) is actually a		t the
D 111 11 11 11 11	account of earlier regulatory initiatives.		
Possible side effects	The capacity of integrating envir	-	
	cooperation might prove helpful to better integrate environmental		
	considerations in other policy areas as well, enhancing the quality of		
Links to other measures	decision making.		f tha
	Policy proposal 31: Raise awareness and develop the capacities of the staff working on the integration of environmental issues in		
and legislation	development cooperation.		:5 III
	development cooperation.		

Policy proposal 31: Raise awareness and develop the capacities of the staff working on the integration of environmental issues in development cooperation

Name	Raise awareness and develop the capacities of the staff working	ng on
· · · · · · · · · · · · · · · · · · ·	the integration of environmental issues in development cooperat	_
Problem targeted	The tools that are available to facilitate the integration of environmental issues into development cooperation are not commonly used. The same holds for the actual use of the recommendations	
	resulting from these tools. Also, the increased use of budget support as a method for aid delivery constitutes an additional challenge.	
Objective	The staff dealing with the integration of environmental issues is a of the importance of their task and is trained to effectively account environmental issues.	
Description	Staff working on the integration of environmental issues in development cooperation is made aware of the importance of their task. Next, these people are trained to use the processes and tools that have been developed to facilitate a better integration of environmental issues in development cooperation.	
Link with policy	1.a. Produce commodities with low land use impact	D
evaluation criteria	1.b. Produce commodities with low deforestation impact	D
	2. Produce products with low deforestation impact	D
	3. Organize supply chain of products with low deforestation impact	
	4. Reduce EU consumption (in general, and more specifically	
	of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure	
	Market-based instrument	
	Information and awareness raising	Х
	Funding mechanism	
	Capacity building and technical assistance	Х
Initiator	EU Member States and other development actors.	
Target group	Staff (people developing the main strategies, people supporting	their
	colleagues with respect to environmental issues, programme man	-
	and project managers) dealing with the integration of environm	
	issues in development cooperation, at the donor side as well as a	at the
	side of the receiving country.	
Critical considerations	Commitment and ownership are key.	
Impact on	Effectiveness Medium	
deforestation	Raising awareness and developing the capacities of the staff working the integration of environmental issues in development cooper will help to make sure development actions do not to deforestation, but are more effective in reducing the pressure forests. Awareness raising and capacity development are important not sufficient to make sure environmental issues are effectively integrated in development actions.	ration rigger re on t, but
	Magnitude Low	
	The magnitude of this proposal is limited, at least directly, a countries from which the EU imports most deforestation (like Braz	

	not receive much development assistance. However, this proposal also addresses assistance to regions which currently do not export a lot of deforestation to the EU today, but might do so in the future.	
Efficiency of the	Impact on deforestation	Low
measure	Resources input	Low
	This proposal does not come on top of existing training and awareness raising initiatives, but could be integrated in regular training and awareness raising activities. As such the required resource input is relatively low.	
Possible side effects	n.a.	
Links to other measures and legislation	Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions.	

Policy proposal 32: Research to obtain a monitoring tool on the impact of EU consumption on worldwide deforestation

Name	Research to obtain a monitoring tool on the impact o	f EU
	consumption on worldwide deforestation	
Problem targeted	In modern societies production of agricultural commodities often takes place far away from final consumption, which makes it difficult for consumers to understand and appreciate the linkages and environmental consequences of consumption decisions. Except for this study, research on the impact of EU consumption on deforestation is lacking to a great extent.	
Objective	Research on the deforestation impact of food and non-food consumption in the EU should provide a basis for policy making at different levels. To facilitate the setting of targets for the EU deforestation impact, information on its evolution is indispensable. This should include support and strengthening of ongoing activities of monitoring and reporting on land use changes, especially in identified deforestation hot spot regions of major EU trade partners. A monitoring tool assists policy makers with up-to-date information on the evolution of the impact of EU consumption on deforestation in third countries.	
Description	A research call (e.g. as part of Horizon 2020) to provide a monitoring and evaluation system on the evolution of the deforestation impact of food and non-food consumption in the EU.	
Link with policy	1.a. Produce commodities with low land use impact	I
evaluation criteria	1.b. Produce commodities with low deforestation impact	I
	2. Produce products with low deforestation impact	I
	Organize supply chain of products with low deforestation I impact	
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	I
Type of measure	Regulatory measure	
	Voluntary measure	
	Market-based instrument	
	Information and awareness raising	Х

	1		
	Funding mechanism x		Х
	Capacity building and technical assistance		
Initiator	European Commission		
Target group	Research institutions, software developers		
Critical considerations	Full information on the deforestation impact of all goods and services in		ces in
	the EU27 is impossible to obtain, b	out the main goal could be to mo	onitor
	the progress in certain fields and the	he downfall in others. What pro	ducts
	with deforestation impact are of	consumed more/less, what are	e the
	underlying motives and how are th	ey replaced?	
Impact on	Effectiveness	Low	
deforestation	Information alone is not enough to	reach a real change, but it is a	solid
	basis for effective policy measures.		
	Magnitude	Low	
	This proposal covers a research st		elop a
	EU27-wide monitoring system o	, , ,	-
	consumption.	the deforestation impact of). LO
Efficiency of the	Impact on deforestation	Low	
measure	Resources input	Low	
measure	A research study is a relatively ine		nolicy
	measures are more focused on the		
	when the situation is altering.	•	-
	monitoring and evaluation system	•	
Possible side effects	Increased information on EU27	-	
Possible side effects	products	consumption of food and fion	I-100u
	Increased information on defore	station and products that only	hanco
	deforestation	station and products that em	lialice
Links to other measures	Policy proposal 12: Develop manda	stary Mambar State specific foo	4
	1	atory Member State specific root	u
and legislation	waste prevention targets	datam, and consistent food st	0.000
	Policy proposal 14: Develop man	idatory and consistent 1000 st	orage
	labels on food products	alling of the forest feet wint of /	(food)
	Policy proposal 18: Mandatory laborates	ening of the forest footprint of ((100a)
	products.	wirement to apply stringent w	مناطييه
	Policy proposal 19: General req		
	procurement principles with resp	bect to the deforestation impa	act of
	products and services.		
	Dalian and a sal 4. Estandable and the	:	- 41
Policy proposal 1: Extend the sustainability criteria for biofuels for uses of the same crops (food, feed, products, materials). Policy proposal 24: Attach sustainability criteria to the important of the impor			other
		ort OT	
	commodities that are associated with deforestation.		.: . .:
Policy proposal 21: Strengthen voluntary initiatives of		•	ıryıng
	sustainably produced (deforestatio		•
	Policy proposal 34: Promote activities, which actively seek for synergies		
	between the CAP and policies aiming at reducing deforestation (REDD+;		
	biodiversity strategy).		

Policy proposal 33: Research on technologies and policies to reduce the impact of EU consumption on deforestation in third countries

Name	Research on technologies and policies to reduce the impact of EU	
	consumption on deforestation in third countries	
Problem targeted	Except from this study, research on the impact of EU consumption on deforestation is lacking to a great extent. Technological and policy innovation could reduce the EU deforestation impact substantially.	
Objective	Technological and policy innovation in diverse fields could contribute to reducing the deforestation impact of EU consumption. Research and development can target technologies and policies to reduce the land use and deforestation impact of the production of primary commodities and the further processing to food- and non-food products and services (e.g. local products replacing imported commodities with embodied deforestation; increase production of primary commodities per unit area without increasing the cost of work/equipment; sustainable supply chains).	
Description) to stimulate the development and olicies that could reduce the impact n in third countries.
Link with policy	1.a. Produce commodities with lo	ow land use impact
evaluation criteria	1.b. Produce commodities with lo	· · · · · · · · · · · · · · · · · · ·
	2. Produce products with low d	·
	3. Organize supply chain of products with low deforestation I impact	
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure	
	Market-based instrument	
	Information and awareness raising	x
	Funding mechanism	x
	Capacity building and technical assi	stance
Initiator	European Commission	
Target group	Research institutions, industry, SMI	Es
Critical considerations	The development of technology will not be effective without giving attention to the effective deployment, combined with the relevant policy measures.	
Impact on	Effectiveness	Medium
deforestation	Innovative technologies could directly lower the impact of EU consumption on deforestation, but the distance from research to	
	marketable technologies is long.	
	Magnitude	Medium
	New technologies can take a long large scale.	time before they are employed at a
Efficiency of the	Impact on deforestation	Medium
measure	Resources input	Low

	A research call is a relatively inexpensive way to stimulate the	
	development and deployment of appropriate innovative technologies.	
Possible side effects	Increased information on EU27 consumption of food and non-food products	
	Increased information on deforestation and products that enhance deforestation	
	Increased information on related technologies.	
	Knock-on effects on other aspects of sustainability of products and	
	services.	
Links to other measures	Policy proposal 6: Include mandatory crop rotation, including minimum	
and legislation	levels of legume/protein crops, in the CAP cross-compliance rules	
	Policy proposal 1: Extend the sustainability criteria for biofuels for other	
	uses of the same crops (food, feed, products, materials).	
	Policy proposal 24: Attach sustainability criteria to the import of	
	commodities that are associated with deforestation.	
	Policy proposal 21: Strengthen voluntary initiatives certifying	
	sustainably produced (deforestation-free) commodities.	

Policy proposal 34: Promote activities, which actively seek for synergies between the CAP and policies aiming at reducing deforestation (REDD+; biodiversity strategy)

Name	Promote activities, which actively seek for synergies between the and policies aiming at reducing deforestation (REDD+; biodive strategy)	ersity
Problem targeted	While REDD+ aims at reducing deforestation, the ongoing CAP reform may result in increasing agricultural imports from countries with significant deforestation and may cause further agricultural expansion in these countries. Especially increased agricultural imports from South America and Southeast Asia are of concern (soybean, and potential future meat or biodiesel imports).	
Objective	Consistency between CAP, REDD+ and biodiversity strategy identification of potential synergies and conflicting objectives.	and
Description	Assess the possible implications of the CAP reform on deforestation and biodiversity in countries outside the EU27. Foster interaction and cooperation between concerned DGs (e.g. roundtable discussions concerning consistency and synergies of policy measures on deforestation and biodiversity).	
Link with policy	1.a. Produce commodities with low land use impact	
evaluation criteria	1.b. Produce commodities with low deforestation impact	
	2. Produce products with low deforestation impact	ı
	3. Organize supply chain of products with low deforestation impact	
	4. Reduce EU consumption (in general, and more specifically of commodities and products having deforestation impacts)	
Type of measure	Regulatory measure	
	Voluntary measure X	
	Market-based instrument	
	Information and awareness raising	Χ

CHAPTER 4 Identification of options to reduce the impact of EU consumption and policies on deforestation

	Funding mechanism		
	Capacity building and technical assistance		
Initiator	European Commission (DG-ENV, DG-AGRI, DG-DEV)		
Target group	European Commission, WTO and IP	CC	
Critical considerations	When the co-operation across the	different DGs becomes stuck in the	
	discussion phase without reaching	ng substantive conclusions on the	
	implementation and enforcemen	t of synergies, effects on halting	
	deforestation may diminish.		
Impact on	Effectiveness	Medium	
deforestation	Does not directly address deforest	ation but will enhance effectiveness	
	of REDD+ by avoiding inconsistencies among CAP and REDD+ measures.		
	Magnitude	Low	
	This measure can only indirectly help to reduce deforestation.		
Efficiency of the	Impact on deforestation Low		
measure	Resources input	Low	
	Some resources at administrative l	evel will be required to consider and	
	actively seek consistency between	CAP and REDD+ measures.	
Possible side effects	Only positive.		
Links to other measures	Policy proposal 7: Promote sustainable intensification of agricultural		
and legislation	and forest production in areas where current production is well below		
	the agronomic and silvicultural pro-	•	
	Policy proposal 8: Promote relevant concepts and measures for 'climate		
	smart agriculture'.		
	Close links to WTO free trade agree	ements and on-going negotiations.	

4.3. CONCLUSIONS

The policy proposals address critical areas in multiple policy domains: energy, agriculture, sustainable consumption and production, trade, biodiversity, forestry, foreign investment and development cooperation. The identified options intervene at different stages in the causal chain from consumption to foreign land demand: they target consumption, production (both domestically and abroad) as well as trade, which links up consumption and production. Different strategies are used: reducing consumption, reducing the waste generated by consumption, reducing the land use footprint of consumption, increasing the sustainability of the remaining consumption, increasing the resource efficiency of production, increasing the re-use of waste, improving the sustainability of production activities, and finally discouraging or preventing the trade of commodities that are associated with deforestation. Also, the proposals make use of different policy instruments: regulatory (regulations, legal instruments like orders and prohibitions, standards, etc.), market based (economic stimuli such as taxes, payment for environmental services, certification and labelling, conditions tied to public finance, assistance, etc.), information and awareness raising e (social instruments like awareness raising, information, education, promotion of good practices, provision of guidelines, etc.), research, voluntary (self regulation), funding mechanisms, capacity building and technical assistance, etc.

A critical issue is to ensure the consistency between the different policy proposals. Even more challenging is the co-ordination of existing policies and their objectives. With respect to the need for more policy integration there is an issue of scope. The question concerns the standards applying to those proposals that, either directly or indirectly, built upon sustainability standards or criteria. Two options are available: either they focus on deforestation only, or they encompass environmental sustainability or even social responsibility in the broad sense. In response to that type of considerations two policy proposals have been developed that explicitly aim at ensuring policy consistency.

It should also be considered that, even when people are aware of the impact of their consumption on deforestation and willing to change their consumption behaviour, there might still be various other barriers (like the availability of information on the impact of products on deforestation) that prevent people to consume more sustainably. Therefore, stimulating awareness will need complementary policies in order to invoke a genuine change in behaviour. Another example is that, in order to increase the resource efficiency of the European economy, policies should not only act on the supply side but also address the demand side (e.g. via green public procurement, the provision of better information to consumers, etc.) and the other way around. In that respect, the identified policy proposals should therefore be considered as buildings blocks, which can/should be combined to form a set of measures that is both consistent and complete. Concretely, raising awareness of the linkages between EU (food) consumption and deforestation (Policy proposal 10) is critical with respect to the effectiveness of most other proposals addressing consumption behaviour and ensuring public support (or at least preventing resistance).

CHAPTER 5 ASSESSMENT OF THE IDENTIFIED OPTIONS

5.1. INTRODUCTION AND APPROACH

The identified options are assessed against a set of evaluation criteria through a qualitative evaluation method. The assessment is entirely based on expert knowledge and does not consider stakeholder input at this stage. Therefore, the results can be influenced by expert subjectivity and some policy areas may need specific expertise to be assessed fully.

The performance of an option on the evaluation criteria is translated into a criterion specific score. The evaluation criteria, evaluation methods and the criteria specific scoring systems are presented hereafter. A "weighted summation multicriteria analysis" was used, a fairly simple MCA method. The standardised effect scores are multiplied by the matching effect weights and then summed for each policy option. The method used corresponds to the one the Institute for Environmental Studies applies in its decision software DEFINITE¹¹ (decisions on a finite set of alternatives) which has been developed to improve the quality of environmental decision making. Of course other MCA methods are available ¹²

5.1.1. EVALUATION CRITERIA

Three criteria were selected for which the performance of the identified options was assessed. These criteria relate to the core objective of reducing the impact of EU consumption on deforestation on the one hand and complementary issues that are critical to both policy makers and stakeholders.

Impact on deforestation: the extent to which the impact of EU consumption on deforestation in third countries can be reduced.

Efficiency (or cost-effectiveness): the extent to which the impact of EU consumption on deforestation in third countries can be reduced for a given level of resource input (financial, personnel and time).

Side effects: the net extent and direction of the effects, both positive and negative, a policy proposal is likely to generate beyond its actual objective which is reducing the impact of EU consumption on deforestation in third countries.

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¹¹ http://www.ivm.vu.nl/en/projects/Projects/spatial-analysis/DEFINITE/index.asp; accessed on 3 Dec. 2012

http://eprints.lse.ac.uk/12761/1/Multi-criteria_Analysis.pdf

5.1.2. EVALUATION METHOD

A key feature of MCA is its emphasis on the judgement of the decision making team, in establishing objectives and criteria, estimating relative importance weights and, to some extent, in judging the contribution of each option to each performance criterion. The subjectivity that pervades this can be a matter of concern. Its foundation, in principle, is the decision makers' own choices of objectives, criteria, weights and assessments of achieving the objectives¹³.

The assessment of the options on the criterion 'impact on deforestation' is — also based on the task 2 and task 3 results.

In the policy proposal fiches in section 4.2.2 the scores and evaluation method have been described according to the format overleaf:

Impact	on	Effectiveness Low / Medium / High		
deforestation		Description of how the effectiveness of the policy measure has evaluated with regard to its impact on deforestation		
		Magnitude Low / Medium / High		
		Description of how the magnitude of the impact of the policy measure on deforestation has been evaluated		
Efficiency of	the	Impact on deforestation	Low / Medium / High	
measure		Resources input Low / Medium / High		
		Description of how the resource inputs needed for the implementation of the measure have been evaluated.		

5.1.3. SCORING OF THE IDENTIFIED OPTIONS

A criterion specific approach is chosen to score the identified options. The scores provide a scoping of the performance of these options on the evaluation criteria. The approach used is based on the EU Impact Assessment Guidelines (European Commission, 2009b) and is described below. It is a commonly used techniques to scope the performance of policy options.

→ Impact on deforestation

The impact of the identified options on deforestation is evaluated taking into account two parameters: (1) the likely effectiveness of the policy proposal and (2) the likely magnitude of the impact of the policy proposal on deforestation. While effectiveness is about the capability of a policy proposal to succeed in lowering deforestation, the magnitude is about the absolute scope/coverage of the policy proposal. E.g. a proposal which addresses the consumption of soy originating from Brazil, which is by far the single most important 'commodity - country of origin' pair for imported deforestation by the EU27, might have no impact on deforestation if it is totally ineffective.

The likely effectiveness of the policy proposal will be scored using a three points scale: low, medium or high.

¹³ http://eprints.lse.ac.uk/12761/1/Multi-criteria Analysis.pdf

The likely magnitude of the impact of the policy proposal on deforestation will be scored using a three points scale: low, medium or high.

The impact on deforestation of the identified options is derived by combining the scores of the two preceding elements (e.g. from low effectiveness/low magnitude through to high effectiveness/high magnitude). These nine possible combinations are converted into a three points scale (low, medium, high) using the conversion rules provided in Table 4.

Impact on deforestation		Likely magnitude			
		Low	Medium	High	
	Low	low	low	medium	
Likely effectiveness	Medium	low	medium	high	
enectiveness	High	medium	high	high	

Table 4: Three points scale for scoring the impact on deforestation

As the evaluation methods for "magnitude" and "effectiveness" have been described in the policy proposal fiches, there was no need to describe the evaluation method for "impact on deforestation", which follows automatically from the conversion rules in the above table.

→ Efficiency

The efficiency of the identified options is evaluated taking into account two parameters: (1) the impact on deforestation of the identified options (the first evaluation criterion) and (2) the resource input that is required to develop and operate the identified policy proposals.

The impact on deforestation of the policy proposals is scored using a three points scale: low, medium or high.

The level of resource input required to develop and operate the policy proposals is scored using a three points scale: low, medium or high.

The efficiency of the identified options is derived by combining the scores of the two preceding elements (e.g. from low impact on deforestation/low level of resource input through to high impact on deforestation/high level of resource input). These nine possible combinations are converted into a three points scale (low, medium, high) using the conversion rules provided in Table 5.

Efficiency		Resource input		
		Low	Medium	High
	Low	medium	low	low
Impact on deforestation	Medium	high	medium	low
deforestation	High	high	high	medium

Table 5: Three points scale for scoring a policy options' cost-effectiveness

→ Side effects

Side effects can be both positive and negative. In contrast to what the term might evoke, side effects can be important. Side effects and tradeoffs are dealt with in a descriptive way, without quantitative scoring, which would introduce additional subjectivity in the assessment.

5.2. ASSESSMENT OF THE IDENTIFIED OPTIONS

The policy options that were identified and described in the previous chapter have been scored, (ref. to Annex 1: Assessment of the identified options). These scores provide an indication of the performance of these options on the different evaluation criteria: 'impact on deforestation', 'efficiency', and 'side effects'.

5.3. CONCLUSIONS

A critical element that determines the likely impact of a proposal on deforestation is the fact whether a measure addresses deforestation directly or indirectly. The effectiveness of indirect interventions is more likely to be challenged by various factors. The complexity and length of a supply chain is one such factor. Related to that, a number of (more or less critical) conditions may have to be fulfilled. This might take the form of complementary measures that have to be installed, inconsistencies that need to be removed, quality of the policies, instruments or initiatives that need to be safeguarded and/or actors that need to be involved. Finally, it goes without saying that the fact whether a proposal is voluntary or mandatory is also a decisive factor.

Policy proposal 10: and Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities both score high on the magnitude of impact on deforestation, but low on the effectiveness. This is because both proposals can potentially cover all important 'commodity - country of origin' pairs for imported deforestation, but are dependent on several other initiatives to be effective. Even when people are aware of the impact of their consumption on deforestation and willing to change their consumption behaviour, there might still be various other barriers (like the availability of information on the impact of products on deforestation) that prevent people to consume more sustainably. Therefore, stimulating awareness will need complementary policies (like the labelling of the forest footprint of (food) products) in order to invoke a genuine change in behaviour. Besides, the need for voluntary initiatives certifying sustainably produced (deforestation-free) commodities requires the right economic actors to be on board and, most importantly, that there is demand for sustainably produced commodities and products. In this respect, green public procurement could make a clear difference together with a

thorough greening of the consumption by households. As it has been highlighted already, the latter would require awareness raising, information provision as well as the labelling of the forest footprint of (food) products.

The actual outcome or impact on deforestation of a proposal remains relatively uncertain altogether. Policy proposals that we think will perform very well, both in terms of the effectiveness and magnitude, are Policy proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production potential and Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation. However, also the performance of these measures remains conditional.

As a concluding remark on the impact of deforestation we wish to highlight that if the land associated with EU consumption is not reduced (either by decreasing consumption or increasing the efficiency of production) or sourced to an increasing extent from within the EU27, the impact of most policy proposals may be undone. In that case EU consumption will continue to indirectly cause deforestation: pushing other activities to clear forests and/or direct commodities that have been produced on deforested land to local, national or regional markets.

The performance of the policy proposals in terms of their efficiency, combining their impact on deforestation and the resource input that is required to develop and operate them, varies greatly. Policy proposals that require a low resource input are diverse: abolishing or reviewing rules (making life easier for many economic actors), obligations (that require a change in behaviour), the installation of a flat tax or tariff, assistance with the development of voluntary guidelines and frameworks and the promotion of policy consistency (through study and analysis). There are few policies that are expected to stand out, both in terms of their impact on deforestation and their (limited) resource use. One such measure is Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation. However, this is only the case when a flat tariff is installed. In case of a differentiated tariff that is related to the forest footprint (or any other sustainability criteria) of the imported commodities the required resource input will be much higher, driving down the efficiency of the measure. A critical insight in this respect is the availability of economies of scale. Many policy proposals build, either directly or indirectly, upon the services performed by voluntary initiatives certifying sustainably produced (deforestation-free) commodities. The critical issue is that certification, as well as regular monitoring, requires substantial resources. However, if various proposals that build upon these certification schemes are implemented, costs of certification can to a large extent be pooled, which reduces the costs to be assigned to a single proposal. As a consequence, the efficiency of the policy proposals considered is increased.

CHAPTER 6 PRIORITISATION OF THE IDENTIFIED OPTIONS

6.1. Introduction and approach

After the scoring of the identified options in relation to the evaluation criteria, the options are ranked. The actual ranking, which is based on the weighed summation of the scores of the options for each evaluation criterion, was preceded by two operations: (1) the standardisation of the scores attributed to the options and (2) the attribution of weights to the evaluation criteria.

Firstly, the options are ranked using equal weights for each of the evaluation criteria. That initial ranking is complemented by a number of alternative rankings which are derived by altering the weights attributed to the criteria. That exercise can be considered as a sensitivity analysis on the basis of which the critical parameters and trade-offs are determined. A fairly simple sensitivity analysis was applied for testing whether the outcome (ranking of options) is robust, i.e. whether or not the order changes if variations occur in certain input values. The method used corresponds to the one the Institute for Environmental Studies applies in its decision software DEFINITE (decisions on a finite set of alternatives) which has been developed to improve the quality of environmental decision making¹⁴.

6.2. PRIORITISATION OF THE IDENTIFIED OPTIONS

The procedure of the sensitivity analysis consisted of two prioritisation steps. First, the options were ranked using equal weights for the evaluation criteria (each evaluation criterion is attributed 50% of the total weight). Secondly, the sensitivity of the ranking is assessed, using two different weighing options. In weighting options 2 and 3 weight sets (85%/15%) and (15%/85%) are attributed to the respective criteria "Impact on deforestation" and "Efficiency".

The results presented in this section are hypothetical in the sense that the researchers do not attach a value judgement to any of the prioritisations. The function of the exercise is to illustrate the sensitivity of the results.

6.2.1. EQUAL WEIGHTS

When every criterion is equally important, the following 5 policy proposals rank first:

- Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials)
- Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities
- Policy proposal 18: Mandatory labelling of the forest footprint of (food) products;
- Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation;
- Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation;

¹⁴ http://www.ivm.vu.nl/en/projects/Projects/spatial-analysis/DEFINITE/index.asp; accessed on 3 Dec. 2012.

Among the least ranked , given the evaluation criteria and weights used and the scores attributed, are:

- Policy proposal 11: Targeted awareness raising and information campaigns on food waste production
- Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products;
- Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation
- Policy proposal 27: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible investment criteria;

6.2.2. IMPACT ON DEFORESTATION

When the impact on deforestation is deemed most important, the 5 top ranked and the 5 least attractive policy options remain the same as with the (50%/50%) weight set. This is normal, because the minimum and maximum scores are not influenced by the weight set. The additional options that now become very attractive with a score of 0,95 are:

- Policy proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production potential;
- Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD+)

6.2.3. EFFICIENCY

When efficiency is given a higher importance the 5 top ranked and the 5 least ranked policy options also remain the same. The additional options that now become very attractive with a score of 0,95 are many:

- Policy proposal 3: Sustainability criteria for solid and gaseous biomass
- Policy proposal 12: Develop mandatory Member State specific food waste prevention targets
- Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services
- Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities
- Policy proposal 22: Strengthen the environmental provisions in trade agreements
- Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions
- Policy proposal 33: Research on technologies and policies to reduce the impact of EU consumption on deforestation in third countries

These "additional options that become highly ranked for efficiency" and the "additional options that become highly ranked for deforestation impact" from the previous section, all perform equally well in the with the (50%/50%) weight set, with a score of 0,83.

6.2.4. SIDE EFFECTS

Side effects and tradeoffs have been dealt with in a descriptive way only, without quantitative scoring.

6.3. CONCLUSIONS

A number of policy measures perform well regardless of the weighing options considered.:

- Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials);
- Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities;
- Policy proposal 18: Mandatory labelling of the forest footprint of (food) products;
- Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation;
- Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation;

All other options that are mentioned under sections 6.2.2 and 0 are also worth considering and studying further.

As highlighted before, the results of this prioritisation/ranking exercise are dependent on the subjective evaluation criteria and weights used and the scores attributed to the policy proposals. Furthermore, the performance of a specific proposal depends on the consistency and complementarities of the set of proposals to be installed. A well-designed set of policy proposals might positively influence the performance of single proposals and the other way around.

The study does not propose a complete set of proposed policy measures, but should be considered as an input in a process that can ultimately result in such a programme, using the input of all stakeholders and the available tools, such as Impact Assessments

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Annex 1: Assessment of the identified options

Basic decision matrix				
	Evaluation criteria and scores Impact on deforestation Efficiency			
Policy propsals	Effectiveness	Magnitude	Impact on deforestation	Resource input
Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials)	high	high	high	medium
Policy proposal 2: Include "indirect land use" (ILUC) in sustainability criteria for biofuels	high	low	medium	high
Policy proposal 3: Sustainability criteria for solid and gaseous biomass	high	low	medium	low
Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD+)	medium	high	high	high
Policy proposal 5: Encourage protein crop production in the European Union	medium	medium	medium	high
Policy proposal 6: Include mandatory crop rotation, including minimum levels of legume/protein crops, in the CAP cross-compliance rules	low	low	low	low
Policy proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production	high	high	high	high
Policy proposal 8: Promote relevant concepts and measures for 'climate smart agriculture'	medium	medium	medium	high
Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities	high	medium	high	medium
Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation	Low	high	medium	medium
Policy proposal 11: Targeted awareness raising and information campaigns on food waste production	low	medium	low	medium
Policy proposal 12: Develop mandatory Member State specific food waste prevention targets	medium	medium	medium	Low
Policy proposal 13: Increase the clarity and consistency in the use of food date labels	medium	medium	medium	medium
Policy proposal 14: Develop mandatory and consistent food storage labels on food products	medium	medium	medium	medium
Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products	low	medium	low	medium
Policy proposal 16: Consumer tax on meat products	medium	medium	medium	low
Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation	low	medium	low	medium
Policy proposal 18: Mandatory labelling of the forest footprint of (food) products	medium	high	high	medium
Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services	medium	medium	medium	low
Policy proposal 20: Review the current rules and regulations for use of animal by-products	low	low	low	low
Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities	low	high	medium	low
Policy proposal 22: Strengthen the environmental provisions in trade agreements	medium	medium	medium	low
Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation	high	medium	high	medium
Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation	high	high	high	medium
Policy proposal 25: Investment tax (for portfolio investors investing in corporations with a 'positive' forest footprint)	medium	medium	medium	medium
Policy proposal 26: Make the protection of foreign direct investments under Bilateral Investment Treaties (BITs) conditional upon specific deforestation related responsible	medium	medium	medium	medium
Policy proposal 27: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible investment criteria	medium	low	low	medium
Policy proposal 28: Assist in the development of a responsible investment framework	low	medium	low	low
Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led	medium	low	low	low
Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions	high	low	medium	low
Policy proposal 31: Raise awareness and develop the capacities of the staff working on the integration of environmental issues in development cooperation	medium	low	low	low
Policy proposal 32: Research to obtain a monitoring tool on the impact of EU consumption on worldwide deforestation	low	low	low	low
Policy proposal 33: Research on technologies and policies to reduce the impact of EU consumption on deforestation in third countries	medium	medium	medium	low
Policy proposal 34: Promote activities, which actively seek for synergies between the CAP and policies aiming at reducing deforestation (REDD+; biodiversity strategy)	medium	low	low	low

Annex 2: Prioritisation of the identified options

Weight 2 Weight 3 Weight 3 So,00% So,0	Weighing options			
Binkings	Evaluation criteria	Weight 1	Weight 2	Weight 3
Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops 1,00 1,0	Impact on deforestation	50,00%	85,00%	15,00%
Policy proposal Extend the sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials) Policy proposal 2: Include "indirect land use" (ILLC) in sustainability criteria for biofuels for other uses of the same crops (food, feed, products, materials) Policy proposal 3: Sustainability criteria for solid and gaseous biomass Policy proposal 3: Sustainability criteria for solid and gaseous biomass Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD) Policy proposal 5: Include mandatory crop rotation, including minimum levels of lagume/protein crops, in the CAP cross compliance rules. Policy proposal 5: Include mandatory crop rotation, including minimum levels of lagume/protein crops, in the CAP cross compliance rules. Policy proposal 5: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 5: Promote endes the result feating of agricultural and forest production in aces where current production is well below the agronomic and silvicultural production Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 10: Rates awareness rating and information campaigns on food waste good products and control of the proposal 11: Targeted awareness rating and information campaigns on food waste probley proposal 12: Develop mandatory Member State specific food waste prevention targets Policy proposal 12: Develop mandatory and consistent food storage labels on food products Policy proposal 13: Increase the clarity and consistent food storage labels on food products Policy proposal 13: Promote healthier and diverse food consumption with less emphasis on mark products Policy proposal 13: Promote healthier and diverse food consumption with less emphasis on mark products Policy proposal 14: Develop mandatory and consistent food storage labels on food products. Policy proposal 15: Promote healthier and diverse	Efficiency	50,00%	15,00%	85,00%
Policy proposal 1: Extend the sustainability criteria for biofuels for other uses of the same crops (food feed, products, materials) Policy proposal 2: Founded "indirect and use" (ILUC) in sustainability criteria for biofuels Policy proposal 3: Sustainability criteria for solid and gaseous biomass Policy proposal 3: Sustainability criteria for solid and gaseous biomass Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD+) Policy proposal 5: Encourage protein crop production in the European Union Policy proposal 5: Encourage protein crop production in the European Union Policy proposal 5: Encourage protein crop production in the European Union Policy proposal 5: Encourage protein crop production in the European Union Policy proposal 7: Promote sustainabile intensification of agricultural and forest production in assess where current production is vell below the agronomic and sibricultural production Policy proposal 8: Promote relevant concepts and measures for 'climate smart agriculture' Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation deforestation ### Additional Composal 11: Targeted awareness staining and information campaigns on food waste group of the proposal 11: Targeted awareness staining and information campaigns on food waste prevention targets Policy proposal 11: Develop mandatory Member State specific food waste prevention targets Policy proposal 12: Develop mandatory and consistent food storage labels on food products Policy proposal 13: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 14: Develop mandatory and consistent food storage labels on food products ### Policy proposal 13: Promote healthier and diverse food consumption with less emphasis on meat products ### Policy proposal 14: Develop mandatory with a consistency of the proposal 14: Develop mandatory	Rankings			
Iffood, Feed, products, materials 1.00	Policy proposal	Total score	Total score	Total score
Policy proposal 2: Include "indirect land use" (ILUC) in sustainability criteria for biofuels Policy proposal 3: Sustainability criteria for solid and gaseous biomass Policy proposal 4: Peromote Reducing Emissions from Deforestation and forest Degradation (IEED) Policy proposal 5: Incurage protein crop production in the European Union Policy proposal 5: Encourage protein crop production in the European Union Policy proposal 5: Encourage protein crop production in the European Union Policy proposal 5: Encourage protein crop production in designation of agricultural and forest production in across, in the Cad Prose-compliance union Policy proposal 7: Promote sustainable intensification of agricultural and forest production in across where current production is unless where current production is unless where current production is unless where the production is unless that the proposal 8: Promote elevant concepts and measures for 'Climate smart agriculture' Policy proposal 3: Promote and strengthen PLEGT, and expand to other commodities 1.00		1,00	1,00	1,00
Policy proposal 4: Promote Reducing Emissions from Deforestation and forest Degradation (REDD1) Policy proposal 5: Encourage protein crop production in the European Union O.30 O.62 O.88 Policy proposal 6: Include mandatory crop rotation, including minimum levels of fegume/protein crops, in the CAP cross-compliance rules Policy proposal 7: Promotes sustainable intensification of agricultural and forest production in a case where current production is well below the agronomic and silvicultural production O.50 O.62 O.88 Policy proposal 7: Promotes earlands be intensification of agricultural and forest production in across where current production is well below the agronomic and silvicultural production Policy proposal 8: Promote elevation compets and measures for "Climates amart agriculture" O.50 O.62 O.62 O.67 Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities I.00 I.00 I.00 I.00 I.00 I.00 I.00 Policy proposal 10: Raises awareness of the linkage between EU (food) consumption and deforestation O.67 O.67 O.67 O.67 O.67 O.67 O.67 O.67 O.67 Policy proposal 12: Develop mandatory Member State specific food waste prevention targets Policy proposal 13: Increase the clarity and consistency in the use of food date labels O.67 O.67 O.67 O.67 O.67 O.67 O.67 O.67 O.67 Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 18: Mandatory labeling of the origin of food products, main ingredients and ingredients are associated with deforestation. Proposal 12: Mandatory labeling of the forest footprint of (food) products Policy proposal 28		0,50	0,62	0,38
Policy proposal 5: Encourage protein crop production in the European Union Policy proposal 6: Include mandatory crop rotation, including minimum levels of legume/protein crops, in the CAP cross-compliance rules Policy proposal 7: Promotes sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production Policy proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production Policy proposal 8: Promote relevant concepts and measures for 'climate smart agricultura' Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 11: Targeted awareness of the linkage between EU (food) consumption and deforestation Policy proposal 12: Develop mandatory Member State specific food waste prevention targets Policy proposal 12: Develop mandatory Member State specific food waste prevention targets Policy proposal 14: Develop mandatory and consistency in the use of food date labels Policy proposal 14: Develop mandatory and consistency in the use of food date labels Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 16: Consumer tax on meat products Policy proposal 17: Mandatory labelling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 18: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services Policy proposal 29: Strengthen voluntary initiatives certifying sustainably produced (deforestation impact of products and ser	Policy proposal 3: Sustainability criteria for solid and gaseous biomass	0,83	0,72	0,95
Policy proposal 5: Include mandatory crop rotation, including minimum levels of legume/protein crops, in the CAP cross-compliance rules Policy proposal 7: Promotes sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production Policy proposal 8: Promote relevant concepts and measures for 'climate smart agriculture' Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation Policy proposal 11: Targeted awareness raising and information campaigns on food waste production Policy proposal 12: Develop mandatory Member State specific food waste prevention targets Policy proposal 13: Increase the clarity and consistency in the use of food date labels Policy proposal 14: Develop mandatory and consistent food storage labels on food products Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meet products Policy proposal 16: Consumer tax on meat products Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services Policy proposal 22: Internation impact of products and services Policy proposal 22: Internation impact of products and services Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation. Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation in pactic deforestation in pactic deforestation provisions in trade agreements Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation in pactic deforestation of foreign direct i		0,83	0,95	0,72
crops. In the CAP cross-compliance rules OSS 0,88 0,87 ORIGO proposal 7: Promote sustainable intensification of agricultural and forest production in areas where current production is well below the agronomic and silvicultural production ORS 0,62 0,38 ORS 0,67 0,67 0,67 ORS 0,67 0,67 0,67 0,67 0,67 ORS 0,67 0,67 0,67 0,67 0,67 0,67 ORS 0,67 0,67 0,67 0,67 0,67 0,67 0,67 0,67	Policy proposal 5: Encourage protein crop production in the European Union	0,50	0,62	0,38
areas where current production is well below the agronomic and silvicultural production Policy proposal 8: Promote relevant concepts and measures for 'climate smart agriculture' 9,50 0,62 0,88 Policy proposal 19: Promote and strengthen FLEGT, and expand to other commodities 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,0		0,50	0,38	0,62
Policy proposal 9: Promote relevant concepts and measures for 'climate smart agriculture' Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities 1,00 1		0,83	0,95	0,72
Policy proposal 10: Raise awareness of the linkage between EU (food) consumption and deforestation 0,67		0,50	0,62	0,38
deforestation	Policy proposal 9: Promote and strengthen FLEGT, and expand to other commodities	1,00	1,00	1,00
Policy proposal 12: Develop mandatory Member State specific food waste prevention targets O,83 O,72 O,95 Policy proposal 13: Increase the clarity and consistency in the use of food date labels O,67		0,67	0,67	0,67
Policy proposal 13: Increase the clarity and consistency in the use of food date labels 0,67 0,67 0,67 Policy proposal 14: Develop mandatory and consistent food storage labels on food products Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 16: Consumer tax on meat products Policy proposal 16: Consumer tax on meat products Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 18: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services Policy proposal 29: Review the current rules and regulations for use of animal by-products Policy proposal 22: Strengthen voluntary initiatives certifying sustainability produced (deforestation-free) commodities Policy proposal 22: Strengthen the environmental provisions in trade agreements Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation Policy proposal 25: Investment tax (for portfolio investors investing in corporations with a "positive" forest footprint) Policy proposal 26: Make the protection of foreign direct investments under Bilateral Policy proposal 27: Make the protection of foreign direct investments where the policy proposal 28: Assist in the development of a responsible investment framework Policy proposal 28: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led Policy proposal 32: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safe		0,33	0,33	0,33
Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 16: Consumer tax on meat products Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 18: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 19: Mandatory labeling of the forest footprint of (food) products Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services Policy proposal 20: Review the current rules and regulations for use of animal by-products Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities Policy proposal 22: Strengthen the environmental provisions in trade agreements Policy proposal 22: Increase the import tariffs of commodities that are associated with deforestation Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation Policy proposal 25: investment tax (for portfolio investors investing in corporations with a 'positive' forest footprint) Policy proposal 26: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible Policy proposal 27: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible Policy proposal 30: realitate and support the mandatory integration of environmental issues Policy proposal 30: Facilitate and support the mandatory integration of environmental issues Policy proposal 31: Reise awareness and development accions Policy proposal 32: Research to obtain a monitoring tool on the impact of EU consump	Policy proposal 12: Develop mandatory Member State specific food waste prevention targets	0,83	0,72	0,95
Policy proposal 15: Promote healthier and diverse food consumption with less emphasis on meat products Policy proposal 16: Consumer tax on meat products 0,83 0,72 0,95 Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 18: Mandatory labeling of the forest footprint of (food) products 1,00 1,00 1,00 1,00 Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services Policy proposal 20: Review the current rules and regulations for use of animal by-products 0,50 0,38 0,72 0,95 Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities Policy proposal 23: increase the import tariffs of commodities that are associated with deforestation Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation Policy proposal 25: investment tax (for portfolio investors investing in corporations with a 'positive' forest footprint) Policy proposal 26: Make the protection of foreign direct investments where we proposal 27: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible mospedit deforestation related responsible investment responsible investment reforms and specific deforestation related responsible investment that the policy proposal 29: Promote guidelines for Responsible investment specific deforestation related responsible investment	Policy proposal 13: Increase the clarity and consistency in the use of food date labels	0,67	0,67	0,67
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Policy proposal 16: Consumer tax on meat products Policy proposal 17: Mandatory labeling of the origin of food products, main ingredients and ingredients that are associated with deforestation Policy proposal 18: Mandatory labeling of the forest footprint of (food) products 1,00 1,00 Policy proposal 18: Mandatory labeling of the forest footprint of (food) products 1,00 1,00 Policy proposal 19: General requirement to apply stringent public procurement principles with respect to the deforestation impact of products and services Policy proposal 20: Review the current rules and regulations for use of animal by-products Policy proposal 21: Strengthen voluntary initiatives certifying sustainably produced (deforestation-free) commodities Policy proposal 22: Strengthen the environmental provisions in trade agreements Policy proposal 23: Increase the import tariffs of commodities that are associated with deforestation Policy proposal 24: Attach sustainability criteria to the import of commodities that are associated with deforestation Policy proposal 25: Investment tax (for portfolio investors investing in corporations with a 'positive' forest footprint) Policy proposal 26: Make the protection of foreign direct investments under Bilateral unvestment retrates (BTS) conditional upon specific deforestation related responsible Policy proposal 27: Make the protection of foreign direct investments by export credits dependent on specific deforestation related responsible investment framework Policy proposal 28: Assist in the development of a responsible investment framework Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions Policy proposal 31: Raise awareness and develop the capacities of the staff working on the integration of environmental issues in development actions Policy proposal 31: Raise awareness and develop the nearbound of the impact of EU consumption on worldwide deforestation in third countries Pol		0,33	0,33	0,33
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Policy proposal 18: Mandatory labelling of the forest footprint of (food) products 1,00		0,33	0,33	0,33
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(deforestation-free) commodities		0,50	0,38	0,62
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Policy proposal 29: Promote guidelines for Responsible Agricultural Investments (RAI) including criteria for safeguarding environmental and social sustainability, building on a World Bank led Policy proposal 30: Facilitate and support the mandatory integration of environmental issues (among which deforestation) into development actions Policy proposal 31: Raise awareness and develop the capacities of the staff working on the integration of environmental issues in development cooperation Policy proposal 32: Research to obtain a monitoring tool on the impact of EU consumption on worldwide deforestation Policy proposal 33: Research on technologies and policies to reduce the impact of EU consumption on deforestation in third countries Policy proposal 34: Promote activities, which actively seek for synergies between the CAP and 0,50 0,38 0,62 0,50 0,38 0,62 0,62		0,33	0,33	0,33
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Policy proposal 33: Research on technologies and policies to reduce the impact of EU consumption on deforestation in third countries Policy proposal 34: Promote activities, which actively seek for synergies between the CAP and 0,83 0,72 0,95 0.62	Policy proposal 32: Research to obtain a monitoring tool on the impact of EU consumption on	0,50	0,38	0,62
Policy proposal 34: Promote activities, which actively seek for synergies between the CAP and 0.50 0.38	Policy proposal 33: Research on technologies and policies to reduce the impact of EU	0,83	0,72	0,95
	Policy proposal 34: Promote activities, which actively seek for synergies between the CAP and	0,50	0,38	0,62



