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The Environmental Assessment of Plans and Programmes (Wales) Regulations 2004

Wales Rural Development Plan 2014-2020

Strategic Environmental Assessment Environmental Report - Non Technical Summary

June 2014

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Cronfa Amaethyddol Ewrop ar gyfer Datblygu Gwledig: Ewrop yn Buddsoddi mewn Ardaloedd Gwledig The European Agricultural Fund for Rural Development: Europe Investing in Rural Areas



Ex-ante Evaluation and Strategic Environmental Assessment for Wales Rural Development Plan 2014-2020

STRATEGIC ENVIRONMENTAL ASSESSMENT NON-TECHNICAL SUMMARY

JUNE 2014

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1 INTRODUCTION

1.1 Purpose

- 1.1.1 This Strategic Environmental Assessment (SEA) report of the Wales Rural Development Plan ('the RDP') has been produced by Bangor University in association with Old Bell 3 Ltd. on behalf of the Welsh European Funding Office (WEFO). This Non-Technical summary of the SEA provides a brief overview of the SEA Report findings and should be viewed alongside the full SEA and the proposed RDP programme.
- 1.1.2 The SEA has been carried out in accordance with the requirements of the European SEA Directive (2001/42/EC) and the implementing regulations for Wales, the Environmental Assessment of Plans and Programmes (Wales) Regulations 2004 (Welsh Instrument 2004 No. 1656 (W.170)). We have also considered the provisions of Statutory Instrument 2007/2933, the Environmental Impact Assessment (Agriculture) (Wales) Regulations 2007.
- 1.1.3 The SEA has been carried out in conjunction with the development of the RDP and its overall Ex-Ante Evaluation. It aims to ensure that the RDP contributes positively to a high level of environmental protection, as well as supporting the goal of the Welsh Government of working towards sustainable development. It does this:
 - by setting out the environmental parameters within which the RDP will operate;
 - by identifying, describing and assessing likely significant effects on the environment arising from the RDP's implementation;
 - by considering reasonable alternatives.
- 1.1.4 The SEA sets out to influence strategic changes that might result from the assessment. Changes should have already occurred by the time that the report is finalised, confirming that the right approach has been taken to the SEA process, namely that it has been used to improve the environmental performance of the programme, rather than merely presenting a snapshot of it.¹

1.2 SEA requirements

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¹"Getting the most from your RDP. Guidelines for the Ex-Ante evaluation of 2014-2020 RDPs." Draft August 2012.European Evaluation Network for Rural Development. DG Agriculture and Rural Development.

1.2.1 The Environmental Report complies with the requirements of the Environmental Assessment of Plans and Programmes (Wales) Regulations 2004 (Welsh Instrument 2004 No. 1656 (W.170)).

Table 1 identifies those sections within the main Environmental Report that relate to the specific requirements of Regulation 12 and Schedule 2 of the Regulations.

Table 1: References to the SEA Regulations

Environmental Report - Information to be included	Relevant Section
1. An outline of the contents, main objectives of the plan, and of its relationship with other relevant plans and programmes.	Section 4, page 88
2. The environmental characteristics of areas likely to be significantly affected.	Section 3, page 33
3. Any existing environmental problems which are relevant to the plan including, in particular, those relating to any areas of a particular environmental importance, such as areas designated pursuant to Directives 79/409/EEC and 92/43/EEC.	Section 3.21, page 84
4. The environmental protection objectives, established at international, Community or Member State level, which are relevant to the plan and the way those objectives and any environmental considerations have been taken into account during its preparation.	Appendix 2
5. The likely significant effects on the environment, including short, medium and long-term effects, permanent and temporary effects, positive and negative effects, and secondary, cumulative and synergistic effects, on issues such as: biodiversity; population; human health; fauna; flora; soil; water; air; climatic factors; material assets; cultural heritage including architectural and archaeological heritage; landscape; the interrelationship between the above factors.	Section 5, page 101 Annex 6
6. The measures envisaged to prevent, reduce and as fully as possible offset any significant adverse effects on the environment of implementing the plan.	Section 7, page 121

7. An outline of the reasons for selecting the alternatives dealt with, and a description of how the assessment was undertaken.	Section 6, page 114
8. A description of measures envisaged concerning monitoring in accordance with Regulation 17.	Section 8, page 124
9 A non-technical summary of the information provided under paragraphs 1 to 9.	Accompanying document

1.3 The SEA process and assessment methodology

1.3.1 The SEA was developed in response a number of consultations commencing in December 2012, and has been further amended in parallel with adjustments to the RDP during 2013 and early 2014. It specifically responds to the final proposals contained in the consultation document issued 17 February 2014² and to the most recent RDP draft (May 2014).

1.4 The SEA and other EU Directives and Standards

1.4.1 The SEA Directive applies to programmes and plans that may be developed at national or at local levels. Further elaboration on the relevant assessments can be found in sections 1.4.1-1.4.12 of the full report.

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² Number WG 20644

2 SEA PROCESS AND ASSESSMENT METHODOLOGY

2.1 Approach and overall SEA tasks

2.1.1 The approach that has been adopted is based on a number of advisory documents, chiefly the guidelines of the former Office for the Deputy Prime Minister (ODPM) 2005, and the EC's guidance documents on implementing the SEA Directive and RDP Ex-Ante Evaluation guidance 2012. Note was also taken of guidance provided by the Environment Agency, the Countryside Council for Wales, RSPB, and the Scottish Executive. Relevant citations can be found in the footnotes of the Environmental Report. The following boxes summarise the SEA process and tasks undertaken Table 5 describes the SEA stages and tasks.

2.2 Challenges in undertaking the SEA

- 2.2.1 The assessment was constrained by two key factors:
 - The proposed RDP is not spatial, but provides generic descriptions of the kind of activities likely to be supported. It can therefore be difficult at times to envisage potential significant environmental effects with certainty, and therefore a precautionary approach has been taken to the assessment of effects.
 - The plan is defined by the need to prioritise regional economic activity based on available funding and the timescale over which it will operate. Therefore, the identification and discussion of *reasonable* alternatives is limited to the themes or combinations of themes, the timescales and priorities within the Plan. Any discussion of alternative priorities, timescales or themes would be irrelevant.

2.3 Development of SEA objectives

- 2.3.1 The assessment is based on 12 overarching objectives, underpinned by 46 sub-objectives, as shown in table 4 of the main report, and in section 5.1 below. They were derived from an analysis of a wide range of literature that included:
 - European Commission Core Indicators³
 - EU2020 targets and Lisbon Structural Targets and Indicators⁴

³European Commission. Programming period 2014-2020. Monitoring and evaluation of European cohesion policy - European Regional Development Fund and Cohesion Fund. Concepts and Recommendations. Guidance document. November 2011.

⁽http://ec.europa.eu/regional policy/information/evaluations/guidance en.cfm#1)

- EU 6th Environmental Action Plan & Sustainable Development Strategy⁵
- The draft 2014-2020 programme consultation documents and thematic working group papers⁶
- The Welsh Government: Programme for Government⁷
- Wales Environment Strategy⁸
- Wales National Ecosystem Assessment⁹
- 2007-13 Rural Development Plan Strategic Environmental Assessment¹⁰
- Wales Spatial Plan¹¹
- Sustainable Development Indicators for Wales¹²
- 2.3.3 The management plans of Wales' protected landscapes were reviewed in order to confirm the scope of environmental objectives, and to highlight any new objectives not identified already.

⁴ Communication from the Commission. Europe 2020 - a strategy for smart, sustainable and inclusive growth. (http://eur-lex.europa.eu/LexUriServ/LexUriServ. do?uri= COM: 2010: 2020: FIN:EN:PDF) (see also http://ec.europa.eu/ europe2020/pdf/targets_en.pdf for specific targets). See also http://epp.eurostat.ec.europa.eu/portal/page/portal/structural_indicators/indicators/environment on Lisbon environment indicators

⁵Decision No 1600/2002/EC of the European Parliament and the Council laying down the sixth community environmental action programme. July 2002.(http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2002:242:0001:0015:EN:PDF)Summary and explanation. (http://europa.eu/legislation summaries/ agriculture/ environment/l28027 en.htm)

⁶The consultation documents issued 4 March 2013: situation analysis and next steps; water thematic report 14/11/2012; forestry thematic report 25/10/2012; agri-environment-organic report (undated); biodiversity report 26/10/2012

⁷ Programme for Government. Welsh Government. 2011 (http://wales.gov.uk/docs/strategies/110929fullen.pdf & http://wales.gov.uk/docs/strategies/120528fullen.pdf)

⁸WAG Cardiff. Environment Strategy Action Plan October 2008. (http://wales. gov.uk/desh/publications/enviroprotect/environmentstrategy/environmentactionplan/esap0811e.pdf;jsessionid=7D4 C112D25E2CF42B4AD153E9C57CDA0?lang=en)

⁹National Ecosystems Assessment (2011): Chapter 20: Status and Changes in the UK's Ecosystems and their Services to Society: Wales. World Conservation Monitoring Centre Cambridge.

¹⁰ Agra CEAS Consulting/Collingwood Environmental Planning (2006): Annex to the ex-ante evaluation of the Wales Rural Development Plan: the Strategic Environmental Assessment. Draft Final Report.

¹¹ Welsh Assembly Government (2008): People, Places, Futures. The Wales Spatial Plan. 2008 update. July 2008. WAG Cardiff.

¹² Welsh Government (2012): Sustainable Development Indicators. WG Cardiff

- 2.3.4 The range of comments on the SEA of the 2007-2013 RDP proposal were reviewed, including those from NFU Cymru, FUW, CCW and RSPB¹³, as well as submissions to the subsequent Glastir Stocktake¹⁴.
- 2.3.5 Parallel to this process was the development of 52 questions based specifically on the key issues that emerged from the environmental baseline.
- 2.3.6 It should also be noted that the objectives are not scored or weighted, since they are interdependent and potentially mutually reinforcing. However, it is recognised that within some objectives there is a hierarchy of priority concerns. For example the objective to 'protect and enhance biodiversity' implies that in some circumstances, avoidance must be the only option (in the case of ancient woodlands, say, or of designated habitats and species), whereas in others, mitigation and/or compensation might be appropriate. In any case, all mitigation and compensation measures must ensure an enhancement of the status quo wherever possible, should relate to any development proposal in terms of scale, and should be local to that proposal.

2.4 Development of SEA indicators

2.4.1 A set of indicators was developed using similar sources of literature, as shown in Appendix 3 of the main report, and linked to the 46 sub-objectives referred to above. The indicators and the objectives to which they relate are shown in table 13 of the main report.

2.5 Assessment methodology

- 2.5.1 The assessment consists of analysing each of the RDP's key measures against the objectives of the SEA, based on a range of criteria derived from the Directive and supporting guidance. The results are aggregated and set out as a basic compatibility test and can be seen in section 5.1 of the main report. Appendix 6 of the main report provides a fuller account of this assessment.
- 2.5.2 The criteria for the detailed analysis were developed on the basis of advice given in the ODPM guidance document, which refers to '...scale and permanence and the nature and sensitivity of the receiving environment.' (p.32) and the advice given by DG Environment¹⁵

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¹³ Appendix 3 to the 2006 SEA.

¹⁴ Glastir Stocktake: A Report on the Findings. June 2012.

¹⁵ "Implementation of Directive 2001/42 on the Assessment of the Effects of Certain Plans and Programmes on the Environment". DG Environment, Undated.

2.6 Links to other programmes, policies and assessments

2.6.1 As well as document which specifically informed the development of objectives and indicators, a number of other European, UK and Waleslevel plans, programmes and policies were reviewed, in order to identify further links between the RDP and other plans, policies and programmes, and to provide information on priorities and environmental issues. A summary of that review can be found in Appendix 2 of the full report.

3 ENVIRONMENTAL BASELINE AND ISSUES

3.1 Introduction

3.1.1 The scoping process sought to identify the key environmental issues that will influence the development of the RDP, and to highlight those issues that are relevant to the achievement of its objectives. Section 3 of the main report describes the current state of the environment in Wales, in order to provide a context for understanding the potential for both positive and negative effects that may arise from implementing the RDP.

3.2 Sourcing baseline data

3.2.1 Although the Plan is not spatially defined, certain landscapes and habitats are identified for funding, including upland landscapes including moorland, blanket bog, woodlands and wetland/river systems, a number of which are Natura 2000 sites. The linkages between the wide range of Welsh ecosystems need to be recognised, so that measures related to water conservation in the uplands will have an effect on coastal and marine ecosystems. The baseline is as inclusive as is reasonably possible, since it cannot be assumed that certain environmental elements will not be influenced, directly or indirectly, by the Plan.

3.3 Summary of issues

3.3.1 Key issues that relate to the environmental baseline are summarised in Table 2. These issues have implications for the proposed RDP and are discussed in section 5.2 and in Appendix 6 of the full report.

Table 2: Key environmental issues

Population and I	numan	Some areas lack easily accessible open		
health		space . Stress related illnesses from poor		
		living and working conditions, as well as		
		unemployment; heat and fuel poverty; poor		
		diets leading to obesity ; illnesses and injuries		
		at work; and poor social/private rented		
		housing standards are contributory factors in		
		health problems in Wales. In some areas, poor		
		air quality may be a contributory factor.		
Biodiversity		About 60% of SACs, and a number of		
		Biodiversity Action Plan species and habitats		
		are in unfavourable condition, especially on		
		the coast. Pressures can come from visitor		
		numbers on some sites, changes in weather		
		patterns, development, over- or undergrazing ,		
		pollution, nutrient enrichment and		

	autrophication andiment denseits investive	
	eutrophication, sediment deposits, invasive	
	species, inappropriate planting, over	
	abstraction and overfishing. In some areas	
	coastal squeeze resulting in significant	
	saltmarsh and other marginal habitats.	
Landscape	Landscapes that are not formally designated	
	may be vulnerable to inappropriate	
	development that erodes their character.	
	Agricultural development, forestry and road	
	schemes, as well as buildings in rural areas	
	need to be sensitive to their settings. At the	
	same time, some parts of protected landscapes	
	suffer from tourism impacts.	
Culture architecture and		
Culture, architecture and	Over 25% of Wales' listed buildings are	
archaeology	either 'at risk' or 'vulnerable'. Whilst nearly all	
	of Wales' ancient monuments are stable or	
	improving, climate change and changes in	
	agricultural us may create new challenges.	
	Historic buildings and their settings, and the	
	wider landscape, are under pressure from	
	development. The number of people who can	
	speak Welsh has decreased slightly since	
	2001, although the number who can	
	understand but not speak Welsh has increased	
	slightly.	
Soil quality and structure	Development, changes in agriculture	
, ,	(especially intensification) and climate change	
	contribute to a loss in soil carbon and	
	structure. There have been changes in	
	hydrology and erosion due to changes in	
	rainfall patterns and agriculture. The need to	
	maintain best quality agricultural land in the	
	face of development pressure may result in	
	· · · · · · · · · · · · · · · · · · ·	
	losses of less productive land which may be	
Water recovered	valuable for carbon sequestration.	
Water resource	About 23.5% of water supply is lost to	
	leakages; there has been a significant	
	increase in abstracted water, mainly for	
	electricity supply. About 38% of river waters	
	are not reliable for new abstractions - there	
	may be an increased demand due to population	
	growth.	
Water quality	Pollution from flooded mines continues to	
	present a challenge. Diffuse pollution from	
	other sources including agriculture is	
	exacerbated by changing weather patterns with	
	sudden flooding. There is a potential threat to	
	coastal water quality as a result of increases in	
	storm events. Livestock bank poaching reduces	
	water quality. Currently, about 33% of coastal	
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	waters are not of 'good' ecological quality, and
	the pattern for terrestrial water bodies is mixed.
Air quality	Radon gas presents a significant health hazard
An quanty	in parts of rural Wales. Under certain weather
	conditions, ozone can also present a hazard to
	health locally.
Climate	A number of changes in weather patterns are
Omnate	predicted, including summer water shortages;
	increases in amounts and intensity of winter
	rainfall, with milder winters; hotter, drier
	summers; increases in sudden storms. These
	will result in rapid build up of river and drainage
	systems; increases in storm induced coastal
	erosion and subsidence; ecosystem changes
	with some species and habitat losses and
	gains.
Flood risk	28% of the Welsh coastline has sea defence
	infrastructure; about 1 in 6 properties is at risk
	from flooding - this will be significantly higher
	locally - the economic cost of flooding is
	estimated at more than £200 million per annum.
	River flows are predicted to reduce overall, but
	with sudden rapid flows related to turbulent
	weather. In some areas, natural flood systems
	have been restored, but in many places such
	systems have been lost through development
	or artificial drainage for agriculture. Loss of
	coastal margins could increase likelihood of
Wests	flood risk.
Waste	The amount of municipal waste recycled,
	reused or composted has increased from 18% in 2003/4 to 48% in 2011/12. Having peaked in
	2005/6, the total amount of waste generated
	has decreased since 2000 by about 95,000
	tonnes per annum.
Transport	81% of the population travels to work by motor
	vehicle, and 12% by walking or cycling. There
	has been a fall of about 5 million bus
	passengers (2010/11) since 2009/10, and an
	increase of about 2 million rail passengers in
	the same period. There are conflicting statistics
	on transport related emissions.
Energy consumption	Gas accounts for 60% of public sector energy
	use. About 33% of domestic energy use is for
	heating and about 33% for lighting/installations.
	A target has been set by Welsh Government to
	reduce average per person carbon emissions
	by 33% by 2020.
Agriculture	Farming introduces 60% of the nitrates, 25% of
	the phosphorus and 75% of sediments to the

Forestry and woodland management	nation's waters16,17. Livestock bank poaching has a significant impact on water quality, increases erosion and impacts on aquatic ecosystems. Also increases risk of farm to farm diseases, and of downstream flooding and sedimentation. Inadequate slurry storage can increase diffuse pollution and damage the quality of water, driving up remediation costs. Emissions from livestock contribute to increases in GHG levels. About 43% of all woodland is coniferous plantation, mainly owned by Welsh Government. There is a significant amount of unmanaged woodland, which has potential biodiversity values, but is currently fragmented. There will be a significant demand for imported biomass fuel and also for good quality building timber. There are opportunities to create woodland corridors. Recent outbreaks of diseases present a serious threat to the forest estate, but may also offer opportunities in terms of rethinking and optimising ecosystem services in areas formerly planted with single species conifers.
Rural based tourism	Unplanned tourism can result in negative impacts on sensitive sites. There is a need to develop new and appropriate forms that reflect the character and quality of destinations.
Ecological footprint	Rural Wales has a higher than average ecological footprint, although this has been reducing largely as a result of the economic downturn. As the economy becomes more buoyant it is possible that Wales' ecological footprint will rise.

¹⁶ Welsh Government (2011) Consultation on the compulsory Good Agricultural Environmental Condition to introduce buffer zones alongside water courses to tackle water pollution from agriculture

¹⁷ Environment Agency Wales (2012) Living Waters for Wales – communicating our approach

4 THE RURAL DEVELOPMENT PLAN

4.1 Introduction

- 4.1.1 The European Agricultural Fund for Rural Development (EAFRD) does not define the term 'rural', but requires the Managing Authority (in this case the Welsh Government) to define 'rural area' at programme level¹⁸. In terms of the Organisation for Economic Development (OECD) definition, which classifies local areas as 'rural' where their population density is below 150 inhabitants/km², the whole of Wales can be termed rural with the exception of the major population centres of Cardiff, Newport and Swansea. This is supported by work undertaken by the Office of National Statistics¹⁹ (ONS) and means that with the exception of certain densely populated areas Wales is predominantly rural in nature.
- 4.1.2 The term 'Rural Wales' is thus defined as the nine predominantly rural unitary authorities (Isle of Anglesey, Gwynedd, Conwy, Denbighshire, Ceredigion, Pembrokeshire, Carmarthenshire, Powys and Monmouthshire). Despite the undoubted rural character of parts of their areas, Flintshire and the Vale of Glamorgan are not 'rural' in terms of this definition.
- 4.1.3 Although the RDP applies to the funding of eligible proposals in the rural area, the *effects* of the plan will be felt in areas not defined as rural, such as the South Wales Valleys, urbanised coastal areas and settlements with significant rural hinterlands. The principle of sustainability should therefore consider not only the three interlinking spheres but also interlinking spaces. This is an important aspect of the ecosystem approach, and is an area of interest in this assessment.

4.2 Purpose of the RDP - Regulation 1305/2013

4.2.1 The RDP comes under Pillar II of the European Common Agricultural Policy (CAP). It is subject to its own regulation²⁰, and will operate under common funding rules operating under a Common Strategic Framework

¹⁸ Regulation 1305/2013 of the European Parliament and of the Council on support for rural development by the European Agricultural Fund for Rural Development (EAFRD) article 50 'Rural area definition'. 20/12/2013

¹⁹ Rural/Urban definition England and Wales. http://www.ons.gov.uk/ons/guide-method/geography/products/area-classifications/rural-urban-definition-and-la/rural-urban-definition-england-and-wales-/index.html (accessed 03/03/2013)

²⁰ Regulation 1305/2013 of the European Parliament and of the Council on support for rural development by the European Agricultural Fund for Rural Development (EAFRD). EU 20/12/2013

(CSF). The CSF is transposed into national Partnership Contracts. The RDP is designed to complement the provisions of Pillar I of the CAP, as well as those of the other funds operating under the CSF (see Figure 1)²¹. The intention is to ensure harmonisation of funds, to promote administrative efficiency and to minimise the likelihood of double-funding.

4.2.2 The EAFRD's three objectives are:

- to foster the competitiveness of agriculture;
- to ensure the sustainable management of natural resources and climate action;
- to achieve a balanced territorial development of rural economies and communities²².

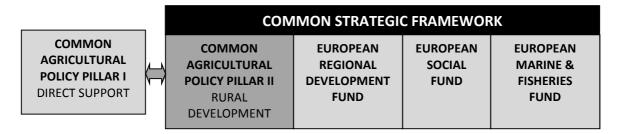


Figure 1: Relationship between pillars I and II within the CSF

- 4.2.3 These three broad objectives reflect both Pillar I and II of the CAP, and in addressing them the EU is seeking to enhance competitiveness, to improve sustainability, and to seek enhanced effectiveness.
- 4.2.4 Within these objectives the EAFRD identifies six priority areas, namely:
 - 1. Fostering knowledge transfer and innovation in agriculture, forestry and rural areas;
 - 2. Enhancing farm viability and competitiveness of all types of agriculture in all regions and promoting innovative farm technologies and the sustainable management of forests:
 - 3. Promoting food chain organisation, including processing and marketing of agricultural products, animal welfare and risk management in agriculture;

²² Regulation 1305/2013 of the European Parliament and of the Council on support for rural development by the European Agricultural Fund for Rural Development (EAFRD) Article 4. EU 20/12/2013.

²¹ The regulatory 'suite' comprises Regulation 1307/2013 (direct payments); Regulation 1308/2013 (organisation of markets), Regulation 1305/2013 (rural development); Regulation 1306/2013 (financing); Regulation 1293/2013 (environment and climate action (LIFE)) and Regulation 1310/2013 (transitional provisions)

- 4. Restoring, preserving and enhancing ecosystems related to agriculture and forestry;
- 5. Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, forestry and food sectors:
- 6. Promoting social inclusion, poverty reduction and economic development in rural areas²³.
- 4.2.5 These priorities have been disaggregated within the EAFRD regulation into eighteen focus areas. In the case of the Wales RDP, eleven measures have been selected which, between them, will aim to address the eighteen focus areas (see table 2).
- 4.2.6 Innovation and Climate Change Mitigation are cross-cutting Objectives across all the funds within the CSF (ERDF, ESF, EAFRD and EFF), which require all the funds to work in a complementary fashion to address them.

Table 3: Priority and Focus Areas and Key Measures

PRIORITY AREA	FOCUS AREA	MEASURE
	1a. Fostering innovation, cooperation, and the development of the knowledge base in rural areas	M01 - Knowledge transfer and information action M02 - Advisory services, farm management and farm relief services M16 - Co-operation
1 Fostering knowledge transfer and innovation in agriculture, forestry and rural areas	1b. Strengthening the links between agriculture, food production and forestry and research and innovation, including for the purpose of improved environmental management and performance	M16 - Co-operation
	1c. Fostering lifelong learning and vocational training in the agricultural and forestry sectors	M01 - Knowledge transfer and information action

²³ *ibid*. Article 5. It is worth noting that there is no indication that these are prioritised or weighted and the assumption is that equal consideration is given to all the interventions.

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3 Promoting food chain organisation, including processing and marketing of agricultural products, animal welfare and risk management in agriculture	3a. Improving competitiveness of primary producers by better integrating them into the agri-food chain through quality schemes, adding value to agricultural products, promotion in local markets and short supply circuits, producer groups and inter-branch organisations	M01 - Knowledge transfer and information action M02 - Advisory services, farm management and farm relief services M04 - Investments in physical assets M16 - Co-operation
	3b. Supporting farm risk prevention and management	M01 - Knowledge transfer and information action M02 - Advisory services, farm management and farm relief services M16 - Co-operation
4 Restoring, preserving and enhancing	4a. Restoring, preserving and enhancing	M01 - Knowledge transfer and information action

ecosystems related to	biodiversity, including in	M02 - Advisory services,
agriculture and forestry	Natura 2000 areas and in	farm management and
agriculture una foresti y	areas facing natural or	farm relief services
	other specific constraints,	M04 - Investments in
	and high nature value	physical assets
	farming, as well as the	M08 - Investments in
	state of European	forest area development
		and improvement of the
	landscapes	viability of forests
		M10 - Agri-environment- climate
		M11 - Organic farming M15 - Forest
		environmental and climate
		services and forest
		conservation
		M16 - Co-operation
	4b Improving water	M01 - Knowledge transfer
	4b. Improving water	and information action
	management, including	M02 - Advisory services,
	fertiliser and pesticide	
	management	farm management and farm relief services
		M04 - Investments in
		physical assets M08 - Investments in
		forest area development and improvement of the
		viability of forests
		M10 - Agri-environment-
		climate
		M11 - Organic farming
		M15 - Forest
		environmental and climate
		services and forest
		conservation
		M16 - Co-operation
	1c. Proventing soil erosion	M01 - Knowledge transfer
	4c. Preventing soil erosion and improving soil	and information action
		M02 - Advisory services,
	management	· · · · · · · · · · · · · · · · · · ·
		farm management and farm relief services
		M04 - Investments in
		physical assets

M08 - Investments in
forest area development
and improvement of the
viability of forests
M10 - Agri-environment-
climate
M11 - Organic farming
M15 - Forest
environmental and climate
services and forest
conservation
M16 - Co-operation

	5a. Increasing efficiency in water use by agriculture	M01 - Knowledge transfer and information action M02 - Advisory services, farm management and farm relief services M04 - Investments in physical assets M16 - Co-operation
	5b. Increasing efficiency in energy use in agriculture and food processing	M01 - Knowledge transfer and information action M02 - Advisory services,
5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient	and rood processing	farm management and farm relief services M04 - Investments in physical assets M16 - Co-operation
economy in agriculture, food and forestry sectors	5c. Facilitating the supply and use of renewable sources of energy, of byproducts, wastes, residues and of other non food raw material for purposes of the bio-economy	M01 - Knowledge transfer and information action M02 - Advisory services, farm management and farm relief services M04 - Investments in physical assets M08 - Investments in forest area development and improvement of the viability of forests M16 - Co-operation
	5d. Reducing green house gas and ammonia	M01 - Knowledge transfer and information action

emissions from agriculture	M02 - Advisory services,
	farm management and
	farm relief services
	M04 - Investments in
	physical assets
	M16 - Co-operation
5e. Fostering carbon	M01 - Knowledge transfer
conservation and	and information action
sequestration in	M02 - Advisory services,
agriculture and forestry	farm management and
	farm relief services
	M04 - Investments in
	physical assets
	M08 - Investments in
	forest area development
	and improvement of the
	viability of forests
	M16 - Co-operation

	6a. Facilitating diversification, creation and development of small enterprises, as well as job creation	M01 - Knowledge transfer and information action M02 - Advisory services, farm management and farm relief services M06 - Farm and business development M08 - Investments in
6 Promoting social inclusion, poverty reduction and economic development in rural	6b. Fostering local	forest area development and improvement of the viability of forests M16 - Co-operation M01 - Knowledge transfer
areas	development in rural areas	and information action M02 - Advisory services, farm management and farm relief services M07 - Basic services and village renewal in rural areas M16 - Co-operation M19 - Support for LEADER
	6c. Enhancing	M01 - Knowledge transfer

accessibility, use and quality of information and communication technologies (ICT) in rural areas	and information action M02 - Advisory services, farm management and farm relief services M07 - Basic services and village renewal in rural areas M16 - Co-operation
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5 ASSESSMENT OF THE RDP INTERVENTIONS

5.1 Testing the compatibility of the SEA objectives and the RDP measures

5.1.1 The purpose of this section is to analyse each measure and to consider the likelihood of environmental effects, and the significance of those effects as far as possible. Table 4 provides an overall assessment of the measures, whilst table 5 summarises the logic behind each score.

Table 4: Presentation of compatibility matrices

	Improve physical & mental health and reduce health inequalities	Protect & enhance biodiversity	Protect places, landscapes & buildings of historic, cultural & archaeological value	Protect soil quality & quantity	Protect the water resource & ensure its sustainable use	Protect & improve water quality	Protect & improve air quality	Limit & adapt to climate change	Minimise waste increase re-use, recycling & recovery rates	Minimise the need to travel; provide alternatives to car use	Maintain & enhance animal welfare standards	Optimise opportunities for rural tourism whilst minimising negative impacts
M01	0	✓	?√	✓	√ ✓	✓ ✓	?√	√ √	✓	0	//	✓
M02	0	✓	0 ? 0 ✓	✓	V	V	0√	//	✓	0	√	✓
M04	0	?√	?	?√	✓	√ ✓	✓	//	0	0	√ √	?
M06	0	0	0	0	0	0	0	0	0	0	0	0√
M07	✓✓	0 0√		0	0√	0 0√ √	0	0√	0√	✓	0	? 0 ✓ ✓
M08	0	✓✓	0√	√√	✓✓	✓	✓	√√	0	0	0	✓
M010	0√	√√	✓	√ √	✓ ✓	√ ✓	0√	0√	0	0	?√	?√
M011	0<	✓	0√	✓	0√	✓✓	0√	//	✓	0√	√√	0√ 0 √
M015	0	√ √	O ✓	0	✓	✓✓	0	0	0	0	0	0
M016	✓	V	✓	✓	/ /	√√	✓	√√	0√	0	✓	✓
M019	//	?✓	?√	0	0	0	0	?√	0√	✓	0	0√

Table 5: Comments on the basis for scoring

MO4 Ko souls due	1	and the former than a self-on
Improve physical and mental health and reduce health inequalities	o O	er and information action Improving communication and advice may have a small positive effect in terms of building confidence, but probably not significant effect on physical and mental health.
Protect and enhance biodiversity	✓	Directing innovation towards environmental performance will have a positive effect: plant health, appropriate diversification, climate change and water management will be positive.
Protect places, landscapes and buildings of historic, cultural and archaeological value	?√	Potential to protect and enhance important landscapes; cultural/historic heritage less specific.
Protect soil quality and quantity	✓	Promoting ecosystem approach to land management is likely to have a positive effect.
Protect the water resource and ensure its sustainable use	//	As above. Depends on positive promotion, beyond basic mandatory requirements. Addressing WFD is a key element.
Protect and improve water quality	V	As above.
Protect and improve air quality	?✓	Potential to protect air quality linked to sharing knowledge of optimal stock and farm infrastructure management.
Limit and adapt to climate change	//	An important priority. Skill transfer on energy conservation, woodland, upland and wetland management etc is likely to have some positive outcomes.
Minimise waste increase re-use, recycling and recovery rates	✓	Skill sharing on waste management should be integral to farm management. Some small positive beyond the regulatory requirement.
Minimise the need to travel; provide alternatives to car/lorry use	O	Not likely to have a significant effect, though reduced chains and localising community-based services will help.
Maintain and enhance animal welfare standards	✓ ✓	This is a priority linked to business planning/risk analysis.
Optimise opportunities for rural tourism whilst minimising negative impacts	✓	Where relevant, farm tourism is an optional business opportunity that might be promoted alongside quality brand.

M02 Farm advisory services, f	arm m	anagement and farm relief services
Improve physical and mental health		No obvious significant effect likely, though
and reduce health inequalities	0	could help build confidence where not
		seen as burdensome.
Protect and enhance biodiversity		A number of elements in the RDP will
	✓	promote biodiversity protection/
		enhancement.
Protect places, landscapes and		Not likely to be significant.
buildings of historic, cultural and	0	
archaeological value		
Protect soil quality and quantity		Habitat management, water containment,
	✓	increased tree planting, will have positive
		effects.
Protect the water resource and	V	A key element of the proposed plan.
ensure its sustainable use		Likely to have significant positive effect.
Protect and improve water quality	√√	As above.
Protect and improve air quality		Advice on diet and stocking systems to
	O✓	reduce emissions, but increased stocking
		rates?
Limit and adapt to climate change		A key objective, but potential for
	√√	increased stocking rates to increase
		emissions.
Minimise waste increase re-use,		Advice likely to focus on production
recycling and recovery rates	✓	efficiencies. Likely to be promoted as part
		of cross compliance, and relatively easily
		observable.
Minimise the need to travel; provide	0	Not likely to have a significant effect.
alternatives to car/lorry use		
Maintain and enhance animal		Animal welfare likely to be a focus of
welfare standards	✓	advice and support. Depends on the
		productivity balance & potential for
		intensive systems in some areas.
Optimise opportunities for rural		Tourism has potential to be significant.
tourism whilst minimising negative	✓	Depends on extent of the supporting
impacts		measures.

M04 Investr	nents i	n physical assets
Improve physical and mental health and reduce health inequalities	0	Not likely to have a significant effect.
Protect and enhance biodiversity	?√	The focus is on farm efficiency and economic performance. Some minor benefits from e.g. invasive eradication. Will need other measures to support farm birds. Agri-environment measures will be positive.
Protect places, landscapes and buildings of historic, cultural and archaeological value	?	There may be some local landscape impacts, and impacts on important vernacular buildings. Will require careful design considerations.
Protect soil quality and quantity	?✓	Likely to have a positive effect depending on the nature of animal/plant health measures. Efficiencies in water management likely to reduce erosion. Soil management is an element of the measure.
Protect the water resource and ensure its sustainable use	✓	Efficiencies in water use are specific to this measure. Capital investment may include water storage facilities as well as measures to reduce water loss through leakages.
Protect and improve water quality	//	Measures to reduce nutrients and to manage soils are likely to have a string positive effect on water quality.
Protect and improve air quality	✓	Potential to reduce/capture ammonia and methane emissions.
Limit and adapt to climate change	//	Potential to reduce/capture ammonia and methane emissions. Ammonia is linked to nitrous oxide, a greenhouse gas. Renewables element will contribute.
Minimise waste increase re-use, recycling and recovery rates	0	Not likely to have a significant effect.
Minimise the need to travel; provide alternatives to car/lorry use	0	Not likely to have a significant effect.
Maintain and enhance animal welfare standards	✓ ✓	This is an explicit aspect of this measure.
Optimise opportunities for rural tourism whilst minimising negative impacts	?	On its own this measure does not target the tourist market, but may promote nonfarm activities that will enhance landscape.

M06 Farm an	M06 Farm and business development				
Improve physical and mental health	0	Might benefit socially isolated young			
and reduce health inequalities	0	farmers, build confidence.			
Protect and enhance biodiversity		Would not necessarily promote this			
	0	objective without parallel measures such			
		as advice, training and funding.			
Protect places, landscapes and	_	As above.			
buildings of historic, cultural and	0				
archaeological					
Protect soil quality and quantity	0	As above.			
Protect the water resource	0	As above.			
and ensure its sustainable use					
Protect and improve water quality	0	As above.			
Protect and improve air quality	0	As above.			
Limit and adapt to climate change	0	As above.			
Minimise waste increase re-use,		As above.			
recycling	0				
and recovery rates					
Minimise the need to travel; provide		No obvious significant effect.			
alternatives	0				
to car/lorry use					
Maintain and enhance animal		Would not necessarily promote this			
welfare standards	0	objective without parallel measures such			
		as advice, training and funding. Legal			
		requirements as minimum.			
Optimise opportunities for rural		Potential slight effect from diversification -			
tourism whilst minimising negative	01	new entrants likely to be receptive to			
impacts		diversification and new opportunities -			
		less risk averse?			

M07 Basic services	and vil	lage renewal in rural areas
Improve physical and mental health		Access to services. Local enterprise will
and reduce health inequalities	11	develop skills. Opportunities to volunteer
		for community projects. Job
		opportunities.
Protect and enhance biodiversity	01	Some potential for positive local effects
		from community biodiversity initiatives.
Protect places, landscapes and		Potential to reinforce local distinctiveness
buildings of historic, cultural and		and maintain sense of place and
archaeological value	✓	cohesion. Re-using redundant buildings
		will maintain their fabric. Opportunity for communities to market places of heritage
		interest.
Protect soil quality and quantity		No obvious significant effect. Re-using
Trotost son quanty and quantity	0	redundant buildings/brown field land will
		reduce need for green field development.
Protect the water resource and		Community/public buildings should
ensure its sustainable use	0√	ensure high quality water management
		systems.
Protect and improve water quality		Community/public buildings should
	0√	ensure SUDS as part of improvement
B		schemes.
Protect and improve air quality	0	No obvious significant effect.
Limit and adapt to climate change		Community/public buildings should
	0√	ensure use of renewables, energy
		efficiency and sustainable buildings. Link to ERDF?
Minimise waste increase re-use,		Community/public enterprises should
recycling and recovery rates	0√	ensure water and waste recycling.
Minimise the need to travel; provide		Improving access to services locally will
alternatives to car/lorry use	✓	reduce the need to travel. Community
	V	transport could reduce the need to use
		cars?
Maintain and enhance animal	0	No obvious significant effect.
welfare standards		
Optimise opportunities for rural		Community based enterprises such as
tourism whilst minimising negative		shops, crafts, refreshments,
impacts	✓	accommodation could contribute
		significantly. Access to doctors, dentists
		etc important.

M08 Investments in forest area development and improvement in the viability of forests				
Improve physical and mental health and reduce health inequalities	0	No obvious significant effect.		
Protect and enhance biodiversity	/ /	Measures prioritise N2K woodland associated sites. Potential to develop buffers/ corridors. Improved habitat.		
Protect places, landscapes and buildings of historic, cultural and archaeological value	o√	Measures to enhance woodland quality and appropriate planting will reinforce landscape character. Need to protect archaeological sites.		
Protect soil quality and quantity	/ /	An explicit aspect of the measure is to protect soil quality and minimise erosion risk.		
Protect the water resource and ensure its sustainable use	/ /	A key element of the measure is to optimise the management of water to reduce flood risk.		
Protect and improve water quality	✓	The measure aims to ensure water quality by reducing erosion/nutrients - need for other measures (see M015) to reduce acidification of water courses.		
Protect and improve air quality	✓	Air quality likely to be maintained/improved as a result of the measures.		
Limit and adapt to climate change	//	Carbon sequestration is a key objective of the measure, by increasing the amount of woodland in intermediate agricultural land - needs careful consideration/woodland management plans/EIA as appropriate.		
Minimise waste increase re-use, recycling and recovery rates	0	No likely significant effects.		
Minimise the need to travel; provide alternatives to car/lorry use	0	No likely significant effects.		
Maintain and enhance animal welfare standards	0	No likely significant effects.		
Optimise opportunities for rural tourism whilst minimising negative impacts	✓	Likely to result in attractive accessible woodlands.		

M010 Agri-environment climate					
Improve physical and mental health		Not likely to be significant, but moves			
and reduce health inequalities	0√	towards co-operative working may build			
	0,	confidence.			
Dueto et and anhance his diversity		Farma habitat vaturada vasa diared 0			
Protect and enhance biodiversity		Farm habitat networks, woodland & upland resilience schemes & targeted			
	//	delivery of ecosystem services is likely to			
		be positive.			
Protect places, landscapes and		Glastir should help to reinforce landscape			
buildings of historic, cultural and	✓	character including historic & cultural			
archaeological		values.			
Protect soil quality and quantity		Significant hanofit to sail concernation			
Protect soil quality and quantity	11	Significant benefit to soil conservation from interventions to promote ecosystem			
		services.			
Protect the water resource and		Significant positive likely, especially from			
ensure its sustainable use	√ √	upland schemes & proposed farm habitat			
_		networks			
Protect and improve water quality	√√	As above.			
Protect and improve air quality	0 (Under organics regime, management of			
	0√	fertilisers (including animal wastes) and			
Limit and adapt to climate change		pesticides could improve local air quality. Enhancement of moorland and upland			
Limit and adapt to dimate change	01	resilience will contribute. Could be			
		significant over time.			
Minimise waste increase re-use,	0				
recycling and recovery rates	0	No obvious significant effect.			
Minimise the need to travel; provide	0	No obsidence significant office.			
alternatives to car/lorry use		No obvious significant effect.			
Maintain and enhance animal welfare standards	?√	Improved soil condition and a reduction in chemicals could have a positive effect on			
Wondie Standards	• •	animal welfare.			
Optimise opportunities for rural		General condition of the rural			
tourism whilst minimising negative	?√	environment is a factor on people's			
impacts	. •	willingness to visit. A less industrialised			
		rural landscape is more attractive.			

M011	Organ	ic farming
Improve physical and mental health	0√	Not likely to be significant. Satisfaction
and reduce health inequalities	Ov	factor?
Protect and enhance biodiversity	√	Strong evidence of benefit, but depends
	•	on the type of organic regime.
Protect places, landscapes and		Potential to reinforce landscape character
buildings of historic, cultural and	01	and to protect traditional farm
archaeological value		infrastructure, e.g walls, hedges, barns
Duetost sell sussitive and suspetite		etc.
Protect soil quality and quantity		Organic farming aims to use natural
	✓	systems to fertilise soils and to maintain their structure. There is string evidence of
		positive effects.
Protect the water resource and		Where mulching is used extensively, this
ensure its sustainable use	0 (may help to conserve water on land.
	0√	Mixed systems and rotation will reduce
		run-off.
Protect and improve water quality		Removal of artificial fertilisers and
	√√	pesticides will reduce diffuse pollution of
		water courses.
Protect and improve air quality		Locally, air quality may improve as a
	01	result of a reduction in industrial land
		management, depending on the scale
Limit and adapt to climate change		and type of enterprise. The removal of industrial processes,
Limit and adapt to climate change		including the production, transportation
	√ √	and dispersal of chemical fertilisers and
		pesticides will have a significant effect.
Minimise waste increase re-use,	√	A key element of organic farming is the
recycling and recovery rates	Y	recycling of crop and animals wastes.
Minimise the need to travel; provide	01	Reductions in transportation of fertilisers/
alternatives to car/lorry use	<u> </u>	pesticides?
Maintain and enhance animal		Animal welfare is a central element of
welfare standards	V	organic farming - feeding, living
Ontiming apportunities for mural		Conditions.
Optimise opportunities for rural tourism whilst minimising negative		Organic farming provides an attractive marketing brand that is popular with
impacts	0√	some tourists. Supports the promotion of
		places as tourism destinations.
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M015 Forest environmental and climate services and forest conservation					
Improve physical and mental health	0	No obvious significant effect.			
and reduce health inequalities					
Protect and enhance biodiversity		Measures will aim to maximise			
	11	environmental value including biodiversity			
		in cleared sites. Subject to appropriate			
		plan. May need appropriate assessment.			
Protect places, landscapes and		No obvious significant effect.			
buildings of historic, cultural and	0				
archaeological value		B			
Protect soil quality and quantity		Does not explicitly address this - potential			
	0	for temporary damage to soil as a result			
Dyesta at the supetan nagaryan and		of woodland clearance operations?			
Protect the water resource and ensure its sustainable use		A key element of the measure is to			
ensure its sustainable use	✓	optimise the management of water to reduce flood risk by extending peatland			
		where viable.			
Protect and improve water quality		The measure aims to ensure water			
Trotost and improve water quanty	11	quality by reducing the scavenging of			
		pollutants by woodlands.			
Protect and improve air quality	0	No likely significant effects.			
Limit and adapt to climate change	0	No likely significant effects.			
Minimise waste increase re-use,	0	No likely significant effects.			
recycling and recovery rates	U				
Minimise the need to travel; provide	0	No likely significant effects.			
alternatives to car/lorry use	J				
Maintain and enhance animal	0	No likely significant effects.			
welfare standards					
Optimise opportunities for rural		No likely significant effects.			
tourism whilst minimising negative	0				
impacts					

M016 Co-operation					
Improve physical and mental health		Should provide some opportunities for			
and reduce health inequalities	✓	improving skills and confidence, and			
		reducing isolation, depending on levels of funding.			
Protect and enhance biodiversity		The potential to deliver ecosystem			
Troteot and enhance bloarversity	11	services will be enhanced where this is			
		done collaboratively.			
Protect places, landscapes and		As above.			
buildings of historic, cultural and	✓				
archaeological value					
Protect soil quality and quantity	✓	As above.			
Protect the water resource and		Co-operative approaches are critical to			
ensure its sustainable use	/ /	addressing this objective. Significant			
Destruction of the second of t		potential positive.			
Protect and improve water quality	√√	As above.			
Protect and improve air quality		Potential for significant positive local			
	✓	effects where promoted in adjoining farm			
Limit and adopt to alimate above		systems.			
Limit and adapt to climate change	11	Significant increase potential to address			
	• •	climate change where interventions are carried out co-operatively.			
Minimise waste increase re-use,		Co-operative approach to waste			
recycling and recovery rates	01	management will increase efficiency and			
leavening and recovery rates		should reduce costs.			
Minimise the need to travel; provide		May have a local effect, but not			
alternatives to car/lorry use	0	significant.			
Maintain and enhance animal	✓	Animal welfare minimum standards are			
welfare standards	•	regulated. A key element.			
Optimise opportunities for rural		Potential to promote farm-based tourism.			
tourism whilst minimising negative	✓	Potential to exploit enhanced biodiversity			
impacts		and landscape.			

M019 Support for LEADER local development (CLLD - Community-led local development				
Improve physical and mental health and reduce health inequalities	√ √	LEADER's purpose is to support community resilience. The option to provide non-statutory local services would be positive.		
Protect and enhance biodiversity	?√	Potential, but depends on choice of option.		
Protect places, landscapes and buildings of historic, cultural and archaeological value	?✓	Potential for local visual impact from terrestrial wind turbines. Potential for landscape enhancement through planting for biomass, biodiversity etc. Potential to promote cultural distinctiveness/historic values.		
Protect soil quality and quantity	0	No obvious significant effect.		
Protect the water resource and ensure its sustainable use	0	No obvious significant effect.		
Protect and improve water quality	0	No obvious significant effect.		
Protect and improve air quality	0	No obvious significant effect.		
Limit and adapt to climate change	?√	Depends on the options chosen by the LAG. Option to promote renewables will contribute, as will energy efficient developments.		
Minimise waste increase re-use, recycling and recovery rates	0√	Potential small benefit linked to standards for project management/developments.		
Minimise the need to travel; provide alternatives to car/lorry use	✓	Provision of local non-statutory services could have a significant positive effect locally, as could short supply chains & access to ICT.		
Maintain and enhance animal welfare standards	0	No obvious significant effect.		
Optimise opportunities for rural tourism whilst minimising negative impacts	o√	Local opportunities likely to arise from adding value to local identity & natural/cultural resources.		

5.2 Comparing the this SEA with the 2013 draft SEA

5.2.1 The March 2013 assessment indicated some reservations, stating that 'there are more question marks than would be the case if there was a set of objectives and if the interventions were more specific. A key issue is whether the advice and support provided, and the training and restructuring are prioritised towards soil, air, water and biodiversity conservation beyond cross compliance, alongside the development of

skills, or whether they are prioritised towards land improvement and productivity.'

5.2.2 These concerns have been largely addressed. There now appear to be no likely significant negative effects, compared to the eight identified in the previous assessment. This still depends on ensuring that the measures are rigorously applied to ensure cross compliance, that the funding is targeted to optimise environmental benefit whilst addressing other priorities, and that activities are regularly monitored to ensure compliance with environmental standards.

6 ALTERNATIVES

6.1 Selection and discussion of alternatives to the proposed programme

- In discussing alternatives, it might be possible in theory to consider a variety of high level policy scenarios, such as an 'economic growth first' scenario or, say, an 'environment first' or a 'food security first' scenario, as is common in many policy forecasting studies, but that would be inappropriate, since the EU and the Welsh Government have both indicated that the scenario they seek is a 'sustainable development' scenario in which social, environmental and economic priorities are balanced as a matter of principle. There is thus no definitive 'first', since it is not the intention to seek 'trade-offs' at a policy level.
- 6.1.2 The purpose of analysing alternatives is to determine whether the proposals offer the optimal option in terms of 'the likely evolution of the current state of the environment' in the context of sustainable development²⁴. Although it is beyond such an analysis to consider the economic or social dimensions in detail, the reality is that these dimensions have a significant influence on the state of the environment, because its condition relies on the support of economically and socially viable communities.
- 6.1.3 Within the constraints of time, funding, deployment of funds, and policy, this discussion considers the effects of focusing interventions in different ways.
- 6.1.4 **Option 1 productivity:** focus on building capacity to compete on market share might emphasise marketing, productivity, efficiency, food security, animal welfare alongside support to enterprises by way of advice and training. This might shift production towards the most productive, cost efficient areas.
- 6.1.5 **Option 2 social capacity:** focus on promoting social cohesion, promoting services and public transport, with an emphasis on community based enterprises and access to ICT. Interventions would be targeted thematically and spatially to ensure maximum effectiveness and

²⁴ The EU's position on sustainable development is presented in its 2009 review of the EU Sustainable Development Strategy, which makes the following points: "A number of unsustainable trends require urgent action. Significant additional efforts are needed to curb and adapt to climate change, to decrease high energy consumption in the transport sector and to reverse the current loss of biodiversity and natural resources... It is crucial that measures to support the real economy and reduce the social impact of the current crisis are compatible with long-term sustainability goals."

efficiency in terms of accessing facilities and opportunities for training. This option might target local supply chains in line with option 1.

- 6.1.6 Option 3 - environmental resilience: focus on optimising opportunities for environmental benefit, subject to alternative environmental priorities. Option 3a would seek to support the climate change agenda as much as possible within available funds, entailing support for carbon soil management: for addressing farm based emissions through bio-digestion: promoting appropriate habitat (woodland, scrub, semi-natural grassland) restoration and management for sequestration; promoting alternatives to long-distance transport, haulage, reducing production to consumption chains. Option 3b would seek aain maximum benefits for biodiversity and for ecology, by promoting cooperative approaches to managing land at a 'landscape scale' e.g. commons, watercourses, catchments; by supporting alternative land uses and management to develop buffer zones, corridors, hedgerow, scrub and woodland planting, setting aside land, winter feeding crops; bankside management; pesticide, herbicide and fertiliser management.
- 6.1.7 Whilst none of these is exclusive, different focuses entail different funding strategies. Some elements will require significant financial support, e.g. training costs and farm improvement schemes in option 1, local transport and infrastructure or set-up costs in option 2, interventions such as anaerobic digestion and transport in option 3a, which would inevitably divert funds away from other interventions.
- The effect of focusing too strongly on **option 1** might be over intensification in productive areas, with impacts on already fragmented adjacent conservation sites. There could be a reluctance to use buffer zones or build ecological corridors on productive land. The selection of productive grasses may increase soil compaction and reduce water and soil carbon, potentially increasing carbon and methane emissions, and the use of herbicides will reduce plant, bird and invertebrate diversity. Climate factors may exacerbate the likelihood of flooding events on land that has been drained and which offers few buffers and water containment measures. Conversely, such land is likely to be more susceptible to drought conditions, with impacts on crop and stock resilience. Diverting funds towards productivity will also have a negative impact on marginal areas which will not be able to sustain agri-environment systems in ways to sufficiently address biodiversity losses.
- 6.1.9 The effect of overemphasising **option 2** might be a commitment of funds to social and community programmes that might be met from other resources, or that might be incapable of being sustained without continuing funding support. This may divert funds from important and

ultimately self-sustaining environmental projects that might in the future be able to support social programmes through income generation. Some social and community programmes might focus on enhancing ecosystem services through the development of collaborative initiatives. The promotion of access to high speed ICT may reduce the need to travel, but this may not affect significant numbers of people to impact on car use.

- 6.1.10 Whilst options 3a and 3b are seen as complementary, it is likely that option 3a is more costly, since it will require support to develop a considerable number of anaerobic digesters, farm-scale renewables, and supporting public transport and local product delivery systems through reestablishing more local-level abattoirs for example. Whilst **option 3b** may be less costly in terms of 'hard' interventions such as those in option 3a, there will be costs in terms of training, developing collaborative management systems, monitoring and regulating, as well as the costs of appropriate plant for land management. The benefit of focusing on ecosystem and biodiversity protection and enhancement is the development of a resilient environment that will be responsive to climate change, and will offer economic opportunities in the future, providing that appropriate value systems for ecosystem services are established. On the other hand, there is a danger of over-regulation and community resentment that cannot be sustained. In some cases there may be a loss of production systems that benefit some species over others.
- 6.1.11 Any plan or project should seek to optimise benefits across environmental, economic and social interests, and minimise disbenefits. For this reason, the options discussed above are not exclusive. However, it is critical that environmental limits are respected, and wherever possible made more robust, and therefore **the funding emphasis in Pillar II is rightly on the agri-environmental aspect.** It is indicated that fifty nine per cent of the funding will be directed towards this²⁵.
- 6.1.12 If 'do nothing' literally implies the withdrawal of any rural development programme, the obvious implication is that there will be insufficient funds to address environmental priorities, including the need to protect sites of European conservation interest. The environmental implications might include (not exhaustive):
 - loss of small extensive units and abandonment of some important upland areas;

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²⁵ Common Agricultural Policy Reform: Wales Rural Development Programme 2014-2020 Final Proposals. Consultation Document. Welsh Government February 2014. WG20644. p18

- intensification of potentially productive areas in the lowlands, with a loss of fragmented adjacent habitats, resulting in species losses, and CO₂ releases;
- degradation of peat and organic soils with increased CO₂ emissions;
- increases in chemical use with resultant impacts on water bodies;
- reduced ability to manage risk in relation to animal welfare and disease;
- loss of potential for woodland creation and restoration, resulting in a lost opportunity to sequester carbon, manage water and provide a natural resource;
- loss of support to key rural services, with the likelihood of a spiral of social decline, the abandonment of property to second homes, the loss of vibrant culture, and increases in car use;
- lack of capacity to protect, restore and enhance important heritage sites and vernacular buildings
- 6.1.13 None of the above takes into account external factors such as global food markets, retail sector attitudes, policy on, for example, the environmental costs of transportation, support to production, other consumer costs affecting their choice of product or climate change. Furthermore, natural systems are neither stable nor static. Key future considerations include the need to:
 - ensure resilience by protecting and enhancing the environmental resource;
 - ensure that messages are clear and that there are sufficient resources to monitor and to enforce high environmental standards;
 - allow for some flexibility to be able to respond to changes in economic and environmental circumstances.
- 6.1.14 In conclusion, the proposed interventions aim to address a range of circumstances not envisaged in 2006, and therefore it is anticipated that they will be more 'fit for purpose' than, say, a continuation of the 2007-2013 programme without change. The proposed plan appears to offer an optimal combination of measures.

7 ASSESSMENT OF THE PROPOSED PROGRAMME

7.1 Summary of findings

7.1.1 The overarching aim of the RDP for 2014-2020 is "...to support the rural economy, and in particular agriculture...to be sustainable in the long term²⁶."

The objectives are:

- To increase the productivity, diversity and efficiency of farming and forestry businesses, improving their competitiveness and resilience, reducing their reliance on subsidies
- To improve the environment, encouraging sustainable land practices, the sustainable management of natural resources and climate action
- To promote strong, sustainable rural economic growth and encourage community-led local development²⁷
- 7.1.2 This is in line with the Ministerial programme articulated in 'Shaping a More Prosperous Future', which states that:

"Overall, emphasis is on support to make farming and land management more resilient for the long term, to promote a viable food production sector, to maintain rural communities and to ensure that natural resources are used sustainably with action to mitigate and adapt to climate change²⁸."

7.1.3 In January 2014 the Welsh Government issued a consultation document on proposals for Glastir²⁹, which presented a powerful case for focusing on the extensive range of ecosystem services that nature provides, and ensuring that this is accounted for in the way farming and forestry is managed. Since Glastir is a central element of the RDP, its provisions are a key to the delivery of this Plan. Apart from the streamlining of delivery mechanisms, two important themes are discussed: the move towards cooperative approaches to delivering ecosystem services (p9), and towards a market-based system of payments for such services (p10). These proposals have been taken into account in this assessment.

²⁶ Common Agricultural Policy Reform: Wales Rural Development Programme 2014-2020 Final Proposals. Consultation Document. Welsh Government February 2014. WG20644. p26

²⁷ Welsh Government. Wales RDP draft 2014UK06RDRP004. 6 June 2014

²⁸ Welsh Government Natural Resources Policy Statement. *'Shaping a More Prosperous and Resilient Future'*. October 2013

²⁹ Welsh Government Proposals for the Glastir Scheme. Consultation Document. January 2014

- 7.1.4 The following points have emerged from the assessment (in no particular order):
 - As the RDP develops, it should seek opportunities to co-ordinate with the ERDF and ESF to deliver environmental benefits by harmonising funding and by supporting projects that the RDP cannot deliver alone.
 - Some aspects of the current Glastir scheme, such as the Common Land Element, have been well received, largely because of the work of the support officers³⁰. The development of a single common land scheme, with enhanced roles for development officers, will be beneficial.
 - It is essential to provide adequate training for staff delivering the Farm Advisory Service and agri-environment schemes to ensure that environmental priorities are highlighted. The service should work closely with the statutory environmental bodies and the NGOs to provide high quality advice.
 - Some effects may not become immediately apparent. Monitoring is therefore critical. There is a need to fund follow up monitoring, to train individuals and to co-ordinate results, some of which are not easily accessible.
 - The previous SEA highlighted the need to ensure adequate funding for the protection and enhancement of Natura 2000 sites, and to meet the obligations of the Water Framework Directive. It is reassuring to note that the area-based measures refer specifically to these concerns. ERDF funding may provide further opportunities.
- 7.1.5 The RDP clearly has the potential to protect and enhance ecosystem services and biodiversity values, culture and heritage and climate issues. The decision to vire the maximum 15per cent from Pillar I to the RDP in particular will provide additional opportunities to meet future challenges to the rural environment.
- 7.1.6 Without the RDP it is arguable that significant and urgent interventions would not take place, and some of these aim to address the Welsh Government's targets to reduce carbon emissions, to improve air quality and to reduce Wales' ecological footprint.

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³⁰ Glastir Stocktake. 2012

8 MONITORING

- 8.1.1 The SEA Guidance defines significant effects as positive, adverse, foreseen and unforeseen. The methods and scope for gathering information either directly or indirectly are not defined. There is no requirement, for instance, to aggregate or collate potentially relevant data from other monitoring sources under other laws or programmes³¹.
- 8.1.2 There are three key challenges related to monitoring the environmental effects of the RDP. Firstly, the data is dispersed across a number of statutory and non-statutory bodies. The bringing together of three statutory bodies into Natural Resources Wales should help to bring together a significant amount of environmental data related to the plan's implementation. Nonetheless, it would be helpful for Welsh Government to ensure some co-ordination between collating the data needed to address the RDP objectives and that needed to address the environmental objectives in this report.
- 8.1.3 The second issue is that it in some cases environmental effects may be impossible to attribute directly to the RDP. The Welsh Government has a legal duty to promote sustainable development, and its Programme for Government is based on sustainable development principles. A wide range of parallel actions are likely to deliver on these objectives were the funding to be available. It is impossible at this level to determine the synergies and tensions between the RDP, the ERDF and other interventions that might determine particular environmental outcomes.
- 8.1.4 For example, whilst it is possible to calculate an output, such as biodiversity increases from a particular project, the overall *outcome* in terms of overall biodiversity gains in a particular area is likely to be influenced by other factors, not least climate-related phenological changes. This makes it difficult to report genuine environmental gains (or losses) in a way that can be confidently attributed solely to the RDP.
- 8.1.5 The third challenge is a logistical one. Different measures are needed for different environmental targets, and they often require different timescales incorporating different skills in capturing and analysing data. The costs entailed are significant, and therefore adequate monitoring may be influenced by economic constraints. Some degree of self reporting might be possible, but this would still require sampling for ground truthing purposes.

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³¹ (COWI/AS Denmark 2009 p133).

8.1.6 Monitoring, and especially programme evaluation, should therefore be approached with these challenges in mind. Tables 12 and 13 in the main report should form the basis for an environmental monitoring programme of the RDP.