

# Working document

Rural Development Committee meeting on 05/11/2012

## POINT 1 IN AGENDA

**Draft target indicator fiches for Pillar II**  
+ complementary result indicators  
**(Priorities 1 to 6)**

26/10/2012

### **Draft list of target / result indicators**

<b>Focus Area</b>	<b>Target indicator</b>	<b>Complementary result indicators</b>
<b>P1 A</b> <i>Fostering innovation and the knowledge base in rural areas</i>	% of expenditure for the 3 measures: 'Knowledge transfer & information action' + 'advisory services' + 'cooperation' in relation to the total expenditure for the RDP	
<b>P1 B</b> <i>Strengthening the links between agricultural and forestry and research and innovation</i>	Total number of co-operation operations planned under the cooperation measure (groups, networks/clusters, pilot project...) [across all focus areas]	
<b>P1 C</b> <i>Fostering lifelong learning and vocational training in the agriculture and forestry sectors</i>	Total number of participants trained [across all focus areas]	
<b>P2 A</b> <i>Facilitating restructuring of farms facing major structural problems...</i>	% of agriculture holdings with RDP support for investments in restructuring	Change in Agricultural output on supported farms/ AWU
<b>P2 B</b> <i>Facilitating generational renewal in the agricultural sector</i>	% of agriculture holdings with RDP supported business development plan for young farmers	
<b>P3 A</b> <i>Better integrating primary producers into the food chain...</i>	% (of total farms) of farms supported under quality production schemes, short circuit schemes or producer groups and inter-branch organisation	
<b>P3 B</b> <i>Supporting farm risk management</i>	% (of total farms) of farms participating under risk management schemes	
<b>P4 A</b> <i>Restoring and preserving biodiversity, ..., and the state of European landscapes</i>	% Forest or other wooded area under management contracts supporting biodiversity + % Agricultural land under management contracts supporting biodiversity and/or landscapes	
<b>P4 B</b> <i>Improving water management</i>	% of Agricultural land under management contracts improving water management + % of forestry land under management contracts to improve water management	
<b>P4 C</b> <i>Improving soil management landscapes</i>	% of Agricultural land under management contracts improving soil management + % of forestry land under management contracts to improve soil management	
<b>P5 A</b> <i>Increasing efficiency in water use by agriculture</i>	% of irrigated land switching to more efficient irrigation system	Increase in efficiency of water use in agriculture in RDP supported projects (output/m3 water used)
<b>P5 B</b> <i>Increasing efficiency in energy use...</i>	Total investment in energy savings and efficiency (€)	Increase in efficiency of energy use in agriculture and food-processing in RDP supported projects (output/MJ energy used);
<b>P5 C</b> <i>Facilitating the supply and use of renewable sources of</i>	Total investment in renewable energy production (€)	Renewable energy produced from supported projects (Tonnes of oil equivalent)

<i>Focus Area</i>	<i>Target indicator</i>	<i>Complementary result indicators</i>
<i>energy...</i>		
<b>P5 D</b> <i>Reducing nitrous oxide and methane emissions from agriculture</i>	LU concerned by investments in live-stock management in view of reducing the N2O and methane emissions + % of agricultural land under management contracts targeting reduction of N2O and methane emissions	Reduced emissions of methane and nitrous oxide (measured in CO <sub>2</sub> equivalent)
<b>P5 E</b> <i>Fostering carbon sequestration in agriculture and forestry</i>	% of agricultural and forest land under management contracts contributing to carbon sequestration	
<b>P6 A</b> <i>Facilitating diversification, creation of new small enterprises and job creation</i>	Jobs created in supported projects (also under 6B (for LEADER))	
<b>P6 B</b> <i>Fostering local development in rural areas</i>	% of rural Population covered by local development strategies + Rural population benefiting from improved services / infrastructures + Jobs created in supported projects (Leader)	
<b>P6 C</b> <i>Enhancing accessibility to, use and quality of information and communication technologies (ICT) in rural areas</i>	Rural Population benefiting from new or improved services / infrastructures (ICT)	

## **DEFINITIONS IN THE FICHES**

<b>Indicator Name</b>
<i>Title of the indicator which will be used in implementing regulation/guidance documents</i>
<b>Indicator code</b>
<i>Alphanumeric identifier</i>
<b>Target indicator</b>
<i>Identification of whether the indicator is a target indicator?</i>
<b>The related priority</b>
<i>Identification of the priority to which the indicator is linked as defined in the Pillar II intervention logic</i>
<b>The related focus area</b>
<i>Identification of the focus area to which the indicator is linked as defined in the Pillar II intervention logic</i>
<b>Definition</b>
<i>Concise definition of the concept, including if the indicator already exists, e.g. AEI, EUROSTAT indicator</i>
<b>Unit of measurement</b>
<i>Unit used to record the value (e.g. ha, tonnes, €, %)</i>
<b>Methodology/formula</b>
<i>Identification of what is needed to transform data from the operation database into value for the indicator</i>
<b>Data required for the individual operation</b>
<i>Data required from the operation database in order to calculate the relevant indicator (e.g. area of solar panels, ha of trees planted per species...). The Units of measurement of these outputs should be specified</i>
<b>Data source/location of the data</b>
<i>Identification of where the data for the indicator comes from, links or other references to data sources (e.g. in EUROSTAT specifying exact tables, FAO, World bank) AEI definitions, regulations establishing indicators, etc</i>
<b>Point of data collection</b>
<i>Point(s) in time at which data is collected (e.g. operation/project approval, completion or during evaluation activities)</i>
<b>Frequency</b>
<i>In principle this would be annual. If annual is not adequate, please specify</i>
<b>Delay</b>
<i>Delay between data collection and data aggregation (where external statistical data is used)</i>
<b>Means of transmission to Commission</b>
<i>Identification of the way in which the data is made available to the Commission (e.g. submitted with enhanced AIR in 2019 or quarterly/annual electronic submission)</i>
<b>Comments/caveats</b>
<i>Comments concerning interpretation of the indicator for monitoring and evaluation purposes and its caveats, if appropriate. Mention of context indicators specifically linked to this indicator (or required for its calculation).</i>

<b>Indicator Name</b>	<b>% of total public expenditure for fostering innovation and the knowledge base in rural areas</b>
<b>Indicator code</b>	<b>P1A</b>
<b>Target indicator</b>	Yes (targets for priority 1 established on the basis of output-type indicators)
<b>The related priority</b>	1 Fostering knowledge transfer and innovation in agriculture, forestry and rural areas
<b>The related focus area</b>	1A Fostering innovation and the knowledge base in rural areas
<b>Definition</b>	Total planned public expenditure for fostering innovation and the knowledge base in rural areas under art. 15 Knowledge transfer and information actions, art 16 Advisory services, farm management and farm relief services and art 36 Cooperation expressed as a percentage of the total RDP planned public expenditure
<b>Unit of measurement</b>	%
<b>Methodology/formula</b>	Ratio a/b in %  a) Total public expenditure on fostering innovation and the knowledge base in rural areas under art. 15 Knowledge transfer and information actions + Total public expenditure on fostering innovation and the knowledge base in rural areas under art 16 Advisory services, farm management and farm relief services + Total public expenditure on fostering innovation and the knowledge base in rural areas under art 36 Cooperation  b) Total RDP public expenditure  Relevant measures contributing to target: <ul style="list-style-type: none"> <li>• Art. 15 Knowledge transfer and information actions</li> <li>• Art 16 Advisory services, farm management and farm relief services</li> <li>• Art 36 Cooperation</li> </ul>
<b>Data required for the individual operation</b>	a) Realised expenditure for the measures art. 15 Knowledge transfer and information actions, art 16 Advisory services, farm management and farm relief services and art 36 Cooperation
<b>Data source/location of the data</b>	MA/PA operations database, RDP
<b>Point of data collection</b>	Payments made by PA/MA and declared to the Commission
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Monitoring tables of AIR
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Nbr of cooperation operations planned under the cooperation measure</b>
<b>Indicator code</b>	<b>P1B</b>
<b>Target indicator</b>	Yes (targets for priority 1 established on the basis of output-type indicators)
<b>The related priority</b>	1 Fostering knowledge transfer and innovation in agriculture, forestry and rural areas
<b>The related focus area</b>	1B Strengthening the links between agriculture and forestry and research and innovation.
<b>Definition</b>	Number of operations (groups, networks/clusters, pilot projects...) financed under co-operation supported under art. 36 Cooperation.
<b>Unit of measurement</b>	Nbr
<b>Methodology/formula</b>	/
	Relevant measures contributing to target: <ul style="list-style-type: none"> <li>• Art. 36 Co-operation</li> </ul>
<b>Data required for the individual operation</b>	Nbr of EIP operational groups to be supported (establishment and operation) and nbr of other cooperation operations (groups, networks/clusters, pilot projects...) to be supported under Co-operation (art. 36)
<b>Data source/location of the data</b>	MA/PA operations database (output indicator) from application forms
<b>Point of data collection</b>	data collected at application level but reported when the operation is completed
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Monitoring tables of AIR
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Nbr. of participants trained under Knowledge transfer and information actions</b>
<b>Indicator code</b>	<b>P1C</b>
<b>Target indicator</b>	Yes (targets for priority 1 established on the basis of output-type indicators)
<b>The related priority</b>	1 Fostering knowledge transfer and innovation in agriculture, forestry and rural areas
<b>The related focus area</b>	1C Fostering lifelong learning and vocational training in the agriculture and forestry sectors
<b>Definition</b>	Total Nbr. of participants trained under Knowledge transfer and information actions supported by RDP under art.15
<b>Unit of measurement</b>	Nbr.
<b>Methodology/formula</b>	/
	Relevant measures contributing to target: <ul style="list-style-type: none"> <li>• Art. 15 Knowledge transfer and information action</li> </ul>
<b>Data required for the individual operation</b>	Nbr. of participants trained under Knowledge transfer and information action (measure art.15)
<b>Data source/ location of the data</b>	Nbr. of participants trained: MA/PA operations database (output indicator)
<b>Point of data collection</b>	data collected at application level but reported when the operation is completed
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Monitoring tables of AIR
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>% of agriculture holdings with RDP support for investment in restructuring</b>
<b>Indicator code</b>	<b>P2A</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	P2 Enhancing competitiveness of all types of agriculture and enhancing farm viability
<b>The related focus area</b>	P2A Facilitating restructuring of farms facing major structural problems, notably farms with a low degree of market participation, market-oriented farms in particular sectors and farms in need of agricultural diversification
<b>Definition</b>	Total number of farm holding receiving support for investment in restructuring under art. 18 over the programming period expressed as a percentage of the total number of agricultural holdings in base year for the RDP area
<b>Unit of measurement</b>	Nbr. %
<b>Methodology/formula</b>	Ratio a/b in %  a) Total number of farm holding receiving support for investment in restructuring under art. 18 over the programming period b) Total number of agricultural holdings in base year for the RDP area.  Relevant measures contributing to target (programmed under this focus area): Art.18: investment in physical assets
<b>Data required for the individual operation</b>	a) Total number of farm holding receiving support for investment in restructuring under art. 18 over the programming period (cumulative) b) Total number of agricultural holdings in base year for the RDP area
<b>Data source/ location of the data</b>	a) Total number of farm holdings receiving support for investment in restructuring: MA/PA operation database (output indicator) b) Total number of agricultural holdings: Eurostat: Farm Structure Survey
<b>Point of data collection</b>	a) Total number of farm holdings receiving support for investment in restructuring: data collected at application level but reported when the operation is completed b) Total number of agricultural holdings: /
<b>Frequency</b>	a) Total number of farm holdings receiving support for investment in restructuring: annual b) Total number of agricultural holdings: /
<b>Delay</b>	a) Total number of farm holding receiving business start-up aid for young farmers: / b) Total number of agricultural holdings: /
<b>Means of transmission to Commission</b>	a) Monitoring tables of AIR
<b>Comments/caveats</b>	The available base year for the total number of agricultural holdings might not be 2013 when RDP are drafted (depending on statistics availability). Update will be needed.



<b>Indicator Name</b>	<b>Change in agricultural output *</b>
<b>Indicator code</b>	<b>P2A Result</b>
<b>Target indicator</b>	No
<b>The related priority</b>	P2 Enhancing competitiveness of all types of agriculture and enhancing farm viability
<b>The related focus area</b>	2A Facilitating restructuring of farms facing major structural problems, notably farms with a low degree of market participation, market-oriented farms in particular sectors and farms in need of agricultural diversification
<b>Definition</b>	Change in output per Annual Work Unit in RDP supported projects
<b>Unit of measurement</b>	€/AWU
<b>Methodology</b>	<p>Evaluators will survey a sample of completed operations in relation to this focus area and establish the changes in the value of output and labour input due to the implementation of the projects.</p> <p>An appropriate sample will be selected based on project and beneficiary characteristics included in the operations database.</p> <p>The indicator value will be calculated using data from the survey (e.g. farm accounts information, changes in labour use).</p> <p>It is the net effect of RDP support which should be assessed. Since many other factors can influence this indicator value (commodity prices, weather etc.), the sample of supported projects/beneficiaries should be compared with a sample of similar enterprises which did not receive support in order to assess the net effect of the aid. Information for this control group could be selected from FADN, national census data, FSS or other appropriate sources.</p> <p>Results obtained from the survey should then be extrapolated to population level in order to calculate the indicator value i.e. the net change in output linked to RDP support. The total value should reflect the contribution of projects flagged as contributing to the Focus Area, both as main and secondary objective. Detailed guidance on the methodology to be used will be provided, including on the use of control samples, and accounting for farm diversification projects.</p>
<b>Data required</b>	<p>Identification and basic characteristics (size, type) of projects with a competitiveness component (from the operations database)</p> <p>Information from the completed project on the situation before and after project implementation (output, labour input).</p>
<b>Point of data collection</b>	<p>Relevant projects will be identified from application forms, and will be visible in the operations database. Relevant projects fall into two categories:</p> <ol style="list-style-type: none"> <li>1. Those accepted under Focus Area 2A where the main objective is facilitating farm restructuring. These are directly linked to P2A</li> <li>2. Those whose main objective is linked to another focus area (e.g. renewable energy, water efficiency) but which also have an impact on farm restructuring and competitiveness. These are identifiable from the operations database using the "secondary effects" field.</li> </ol> <p>Information on completed projects to be collected from beneficiaries by evaluators.</p> <p>Control groups: FADN, national census data, FSS</p>
<b>Frequency</b>	Three times during the programming period: 2016; 2018; ex-post
<b>Means of transmission to</b>	Enhanced AIR 2017

<b>Commission</b>	Enhanced AIR 2019 Ex-post evaluation report
<b>Comments/caveats</b>	<p>It is proposed that the Evaluation Plan drawn up as part of each RDP should provide for the results of the RDP to be assessed using this indicator and appropriate methodology (for which guidance will be provided) in order to ensure input for the enhanced AIRs in 2017 and 2019 (so that these reports can assess progress towards achieving the objectives of the programme as required by Article 44 (3) and (4) of the CPR), and to provide a final assessment at the end of the programming period.</p> <p>This indicator is intended to capture the increase in competitiveness on farms receiving RDP support. This can be achieved either through increasing output for the same use of resources, or maintaining output levels but reducing the resources required to produce them. Labour is used as the resource unit for comparison because it is often the key variable within farming systems, closely linked to providing adequate household income. For example reducing the farm labour requirement can free labour for off-farm employment or diversification.</p> <p>The results obtained can be analysed and presented in various ways to show for example the effects on different types of farms, or to compare the efficiency of different types of project.</p> <p>Income per labour unit would provide a more accurate indication of change in the standard of living, but it was considered important to select an indicator which could be easily calculated, both for the supported sample and the control group, thus output was selected.</p>

\* or alternative result indicator showing the gains (on farms) due to the agricultural investments – to be examined

<b>Indicator Name</b>	<b>% of agriculture holdings with RDP supported business development plan for young farmers</b>
<b>Indicator code</b>	<b>P2B</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	2 Enhancing competitiveness of all types of agriculture and enhancing farm viability
<b>The related focus area</b>	2B Facilitating generational renewal in the agricultural sector
<b>Definition</b>	Total number of farm holding receiving business start-up aid for young farmers under art. 20 over the programming period expressed as a percentage of the total number of agricultural holdings in base year for the RDP area
<b>Unit of measurement</b>	Nbr. %
<b>Methodology/formula</b>	Ratio a/b in %  a) Total number of farm holding receiving business start-up aid for young farmers over the programming period b) Total number of agricultural holdings in base year for the RDP area.  Relevant measures contributing to target: Art.20: farm and business development
<b>Data required for the individual operation</b>	a) Total number of farm holding receiving business start-up aid for young farmers under art. 20 (cumulative) b) Total number of agricultural holdings in base year for the RDP area
<b>Data source/ location of the data</b>	a) Total number of farm holdings receiving business start-up aid for young farmers: MA/PA operation database (output indicator) b) Total number of agricultural holdings: Eurostat: Farm Structure Survey
<b>Point of data collection</b>	a) Total number of farm holding receiving business start-up aid for young farmers: data collected at application level but reported when the operation is completed b) Total number of agricultural holdings: /
<b>Frequency</b>	a) Total number of farm holding receiving business start-up aid for young farmers: annual b) Total number of agricultural holdings: /
<b>Delay</b>	a) Total number of farm holding receiving business start-up aid for young farmers: / b) Total number of agricultural holdings: /
<b>Means of transmission to Commission</b>	a) Monitoring tables of AIR
<b>Comments/caveats</b>	The available base year for the total number of agricultural holdings might not be 2013 when RDP are drafted (depending on statistics availability). Update will be needed.

<b>Indicator Name</b>	<b>% of agricultural holdings supported under quality schemes, local markets and short supply circuits, and producer groups</b>
<b>Indicator code</b>	<b>P3A</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	3 -Promoting food chain organisation and risk management in agriculture
<b>The related focus area</b>	3A Better integrating primary producers into the food chain through quality schemes, promotion in local markets and short food supply circuits, producer groups and inter-branch organisations
<b>Definition</b>	Total number of agricultural holdings receiving support over the programming period under RDP through art. 17 Quality schemes for agricultural products and foodstuffs, art. 28 Setting up of producer groups and art. 36 Co-operation (only cooperation among supply chain actors) as a percentage of the total number of agricultural holdings in base year for RDP area.
<b>Unit of measurement</b>	%
<b>Methodology/formula</b>	Ratio a/b in %  a) Total number of agricultural holdings receiving support over the programming period under Quality schemes for agricultural products and foodstuffs (art. 17) + Total number of agricultural holdings receiving support over the programming period under Setting up of producer groups (art. 28) + Total number of agricultural holdings receiving support over the programming period under Co-operation (only cooperation among supply chain actors) (art. 36) b) Total number of agricultural holdings in base year for the RDP area  Relevant measures contributing to target: Art. 17 Quality schemes for agricultural products and foodstuffs Art. 28 Setting up of producer groups Art. 36 Co-operation
<b>Data required for the individual operation</b>	a) Total number of agricultural holdings receiving support over the programming period under Quality schemes for agricultural products and foodstuffs under art. 17, Setting up of producer groups under art. 28 and Co-operation (only cooperation among supply chain actors) under art. 36 b) Total number of agricultural holdings in base year for the RDP area
<b>Data source/ location of the data</b>	a) Total number of agricultural holdings receiving support: MA/PA operation database b) Total number of agricultural holdings in base year for the RDP area: Eurostat: Farm Structure Survey
<b>Point of data collection</b>	a) Total number of agricultural holdings receiving support: data collected at application level but reported when the operation is completed b) Total number of agricultural holdings in base year for the RDP area: /
<b>Frequency</b>	a) Total number of agricultural holdings receiving support: annual b) Total number of agricultural holdings in base year for the RDP area: /
<b>Delay</b>	a) Total number of agricultural holdings receiving support: / b) Total number of agricultural holdings in base year for the RDP area: /
<b>Means of transmission to Commission</b>	a) Total number of agricultural holdings receiving support: AIR monitoring tables b) Total number of agricultural holdings in base year for the RDP area: /
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>% of agricultural holdings supported to manage risks</b>
<b>Indicator code</b>	<b>P3B</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	3 Promoting food chain organisation and risk management in agriculture
<b>The related focus area</b>	3B Supporting farm risk management
<b>Definition</b>	Total number of agricultural holdings supported for insurance premiums under art. 38, participating in mutual funds under art. 39, participating in income stabilisation tool under art. 40, and investing in preventive actions under art. 19 expressed as a percentage of the total number of agricultural holdings in base year for the RDP area
<b>Unit of measurement</b>	Nbr %
<b>Methodology/formula</b>	Ratio a/b in %  a) nbr of agricultural holdings supported for insurance premiums under art. 38 + nbr of agricultural holdings participating in mutual funds under art. 39 + nbr of agricultural holdings participating in income stabilisation tool under art. 40 + nbr of agricultural holdings investing in preventive actions under art. 19 b) Total number of agricultural holdings in base year for the RDP area  Relevant measures contributing to target: Art. 38: Crop, animal and plant insurance Art. 39: Mutual funds for animal and plant diseases and environmental incidents Art. 40: Income stabilisation tool Art. 19: Restoring agricultural production potential damaged by natural disasters and catastrophic events and introduction of appropriate prevention actions
<b>Data required for the individual operation</b>	a) Number of agricultural holdings supported for insurance premiums (art. 38), number of agricultural holdings participating in mutual funds (art. 39), number of agricultural holdings participating in income stabilisation tool (40), number of agricultural holdings investing in preventive actions (art. 19). b) Total number of agricultural holdings: Eurostat: Farm Structure Survey
<b>Data source/ location of the data</b>	a) Number of agricultural holdings supported for insurance premiums (art. 38), number of agricultural holdings participating in mutual funds (art. 39), number of agricultural holdings participating in income stabilisation tool (40), number of agricultural holdings investing in preventive actions (art. 19): MA/PA operation database (output indicator) b) Total number of agricultural holdings: Eurostat: Farm Structure Survey
<b>Point of data collection</b>	a) Number of agricultural holdings supported for insurance premiums (art. 38), number of agricultural holdings participating in mutual funds (art. 39), number of agricultural holdings participating in income stabilisation tool (40): data collected at application level but reported when the operation is completed b) Total number of agricultural holdings: /
<b>Frequency</b>	a) Number of agricultural holdings supported for insurance premiums (art. 38), number of agricultural holdings participating in mutual funds (art. 39), number of agricultural holdings participating in income stabilisation tool (40): annual. b) Total number of agricultural holdings: /
<b>Delay</b>	a) Number of agricultural holdings supported for insurance premiums (art. 38), number of agricultural holdings participating in mutual funds (art. 39), number

	of agricultural holdings participating in income stabilisation tool (40): / b) Total number of agricultural holdings: /
<b>Means of transmission to Commission</b>	a) Number of agricultural holdings supported for insurance premiums (art. 38), number of agricultural holdings participating in mutual funds (art. 39), number of agricultural holdings participating in income stabilisation tool (40): Monitoring tables of AIR b) Total number of agricultural holdings: /
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>P4A: % of agricultural land under management contracts supporting biodiversity</b> <b>P4B: % of agricultural land under management contracts improving water management</b> <b>P4C: % of agricultural land under management contracts improving soil management</b>
<b>Indicator code</b>	<b>P4A Agriculture</b> <b>P4B Agriculture</b> <b>P4C Agriculture</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	Restoring, preserving and enhancing ecosystems dependent on agriculture and forestry
<b>The related focus area</b>	<ul style="list-style-type: none"> <li>▪ P4A Restoring and preserving biodiversity, including in Natura 2000 areas and High Nature Value farming, and the state of European landscapes</li> <li>▪ P4B Improving water management</li> <li>▪ P4C Improving soil management</li> </ul>
<b>Definition</b>	<ul style="list-style-type: none"> <li>▪ P4A % of agricultural land area under RD management contracts restoring or preserving biodiversity  Relevant measures contributing to target: - Art. 29 Agri-environment climate - Art. 30 Organic farming - Art. 31 Natura 2000</li> <li>▪ P4B % of agricultural land area under RD management contracts improving water management  Relevant measures contributing to target: - Art. 29 Agri-environment climate - Art. 30 Organic farming - Art. 31 WFD</li> <li>▪ P4C % of agricultural land area under RD management contracts improving soil management  Relevant measures contributing to target: - Art. 29 Agri-environment climate - Art. 30 Organic farming</li> </ul>
<b>Unit of measurement</b>	Ha %
<b>Methodology/formula</b>	<ul style="list-style-type: none"> <li>▪ P4A % of agricultural land area under RD management contracts restoring or preserving biodiversity  Ratio a/b in % a) Physical agricultural land area (ha) under land management restoring and preserving biodiversity b) Total agricultural land area (ha) in 2013 for the RDP area</li> <li>▪ P4B % of agricultural land area under RD management contracts improving water management  Ratio a/b in %</li> </ul>

	<p>a) Physical agricultural land area (ha) under land management improving water management</p> <p>b) Total agricultural land area (ha) in 2013 for the RDP area</p> <ul style="list-style-type: none"> <li>▪ P4C % of agricultural land area under RD management contracts improving soil management</li> </ul> <p>Ratio a/b in %</p> <p>a) Physical agricultural land area (ha) under land management improving soil management</p> <p>b) Total agricultural land area (ha) in 2013 for the RDP area</p> <p>If justified, area under land management which address more than one of these focus areas should count for the target of each of these relevant focus areas (see table below).</p>
<b>Data required for the individual operation</b>	<p>a) Total agricultural land ha under land management</p> <p>b) total agricultural land area in base year for the RDP area</p>
<b>Data source/ location of the data</b>	<p>a) Total physical ha: from MA/PA operation database and IACS</p> <p>b) total agricultural land area in base year for the RDP area: EUROSTAT</p>
<b>Point of data collection</b>	<p>a) Total physical ha: data collected at application level but reported when the operation is completed</p> <p>b) total agricultural land area: /</p>
<b>Frequency</b>	<p>a) Total physical ha: annual</p> <p>b) total agricultural land area in 2013 for the RDP area: /</p>
<b>Delay</b>	<p>a) Total physical ha: /</p> <p>b) total agricultural land area in 2013 for the RDP area: /</p>
<b>Means of transmission to Commission</b>	Monitoring AIR
<b>Comments/caveats</b>	



<b>Indicator Name</b>	<b>P4A % of forestry under management contracts supporting biodiversity</b> <b>P4B % of forestry under management contracts improving water management</b> <b>P4C % of forestry under management contracts improving soil management</b>
<b>Indicator code</b>	<b>P4A Forestry</b> <b>P4B Forestry</b> <b>P4C Forestry</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	Restoring, preserving and enhancing ecosystems dependent on agriculture and forestry
<b>The related focus area</b>	<ul style="list-style-type: none"> <li>▪ P4A Restoring and preserving biodiversity, including in Natura 2000 areas and High Nature Value farming, and the state of European landscapes</li> <li>▪ P4B Improving water management</li> <li>▪ P4C Improving soil management</li> </ul>
<b>Definition</b>	<ul style="list-style-type: none"> <li>▪ P4A % of forest or other wooded area under RD management contracts restoring or preserving biodiversity</li> </ul> <p>Relevant measures contributing to target:- Art. 35 Forest-environmental and climate services and forest conservation - Art. 31 Natura 2000</p> <ul style="list-style-type: none"> <li>▪ P4B % of forest or other wooded area under RD management contracts improving water management</li> </ul> <p>Relevant measures contributing to target:- Art. 35 Forest-environmental and climate services and forest conservation</p> <ul style="list-style-type: none"> <li>▪ P4C % of forest or other wooded area under RD management contracts improving soil management</li> </ul> <p>Relevant measures contributing to target:- Art. 35 Forest-environmental and climate services and forest conservation</p>
<b>Unit of measurement</b>	Ha %
<b>Methodology/formula</b>	<ul style="list-style-type: none"> <li>▪ P4A % of forest or other wooded area under RD management contracts restoring or preserving biodiversity</li> </ul> <p>Ratio a/b in % a) Physical forestry or wooded land area (ha) under land management restoring and preserving biodiversity b) Total forestry or wooded land area (ha) in 2013 for the RDP area</p> <ul style="list-style-type: none"> <li>▪ P4B % of forest or other wooded area under RD management contracts improving water management</li> </ul> <p>Ratio a/b in % a) Physical forestry or wooded land area (ha) under land management improving water management b) Total forestry or wooded land area (ha) in 2013 for the RDP area</p> <ul style="list-style-type: none"> <li>▪ P4C % of forest or other wooded area under RD management contracts</li> </ul>

	<p>improving soil management</p> <p>Ratio a/b in %</p> <p>a) Physical forestry or wooded land area (ha) under land management improving soil management</p> <p>b) Total forestry or wooded land area (ha) in 2013 for the RDP area</p> <p>If justified, area under land management which address more than one of these focus areas should count for the target of each of these relevant focus areas (see table below).</p>
<b>Data required for the individual operation</b>	<p>a) Total ha under land management</p> <p>b) total forestry area in base year for the RDP area</p>
<b>Data source/ location of the data</b>	<p>a) Total physical ha: from MA/PA operation database and IACS</p> <p>b) total forestry and wooded land area in 2013 for the RDP area: Land cover statistics (to be confirmed)</p>
<b>Point of data collection</b>	<p>a) Total physical ha: data collected at application level but reported when the operation is completed</p> <p>b) total forestry and wooded land area in 2013 for the RDP area: /</p>
<b>Frequency</b>	<p>a) Total physical ha: annual</p> <p>b) total forestry area in 2013 for the RDP area: /</p>
<b>Delay</b>	<p>a) Total physical ha: /</p> <p>b) total forestry area in 2013 for the RDP area: /</p>
<b>Means of transmission to Commission</b>	Monitoring AIR
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>% of irrigated land switching to more efficient irrigation system</b>
<b>Indicator code</b>	<b>P5A</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5A Increasing efficiency in water use by agriculture
<b>Definition</b>	% of irrigated land switching to more efficient irrigation systems funded through RDP under art. 18 (concerning investments to convert irrigation systems) and art. 29 (concerning land management contracts to reduce irrigated land)
<b>Unit of measurement</b>	Nbr. %
<b>Methodology/formula</b>	Ratio a/b in %  a) Nbr of hectares switching to more efficient irrigation systems through RDP, including: - Nbr of hectares concerned by investments in more efficient irrigation systems (under art. 18) - + Nbr of hectares switching to more efficient irrigation systems through agri-environment – climate actions (under art. 29) such as the reduction of irrigated land  b) Total irrigated land in a base year  Relevant measures contributing to target (when programmed under this focus area): Art. 18 Investments in physical assets Art. 29 Agri-environment - climate
<b>Data required for the individual operation</b>	a) Nbr of hectares switching to more efficient irrigation systems through RDP support described above b) Total irrigated land in a base year
<b>Data source/ location of the data</b>	a) Nbr of hectares switching to more efficient irrigation systems: MA/PA operations database b) Total irrigated land in a base year: Eurostat
<b>Point of data collection</b>	a) Nbr of hectares switching to more efficient irrigation systems: Data collected in the application but used when the action is completed b) Total irrigated land in a base year: depending on Eurostat
<b>Frequency</b>	a) Nbr of hectares switching to more efficient irrigation systems: annual b) Total irrigated land in a base year: depending on Eurostat
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Increase in efficiency of water use in agriculture</b>
<b>Indicator code</b>	<b>P5A Result</b>
<b>Target indicator</b>	No
<b>The related priority</b>	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5A Increasing efficiency in water use by agriculture
<b>Definition</b>	Increase in efficiency of water use in agriculture in RDP supported projects  The indicator is related to AEI 7 (Irrigation) and AEI 20 (water abstraction)
<b>Unit of measurement</b>	Change in m <sup>3</sup> water used/standard unit of output
<b>Methodology</b>	Evaluators will survey a sample of completed operations in relation to this focus area and establish the changes in water use and output, and hence the increase in efficiency of water use, through implementation of the projects. An appropriate sample will be selected based on project and beneficiary characteristics included in the operations database. The indicator value may be calculated directly from data from the survey (e.g. crop output and water consumption) and/or may be combined with other information (e.g. standard output values or coefficients for water consumption of different irrigation technologies), in order to calculate indicator values. The same output values should be used for the before and after calculations to avoid distortions due to commodity price variability. Results obtained from the survey should then be extrapolated to population level in order to calculate the indicator value i.e. the increase in efficiency of water usage. The total value should reflect the contribution of projects flagged as contributing to the Focus Area, both as main and secondary objective. Detailed guidance on the methodology to be used will be provided, in particular to ensure a viable and consistent approach to aggregation of data.
<b>Data required</b>	Identification and basic characteristics (size, type) of projects with a water saving/efficiency component (operations database)  Information from the completed project on the situation before and after project implementation (technology used, size of infrastructure, water use, output)  Standard output value figures for different crops (FADN); coefficients for water use of different irrigation technologies
<b>Point of data collection</b>	Relevant projects will be identified from application forms, and will be visible in the operations database. Relevant projects fall into two categories: 1. Those accepted under Focus Area 5A where the main objective is increasing water efficiency. These are directly linked to P5A 2. Those whose main objective is linked to another focus area (e.g. farm restructuring) but which also have an impact on water efficiency. These are identifiable from the operations database using the "secondary effects" field.  Information on completed projects to be collected from beneficiaries by evaluators.
<b>Frequency</b>	Three times during the programming period: 2016; 2018; ex-post
<b>Means of transmission to Commission</b>	Enhanced AIR 2017 Enhanced AIR 2019 Ex-post evaluation report
<b>Comments/caveats</b>	It is proposed that the Evaluation Plan drawn up as part of each RDP should

	provide for the results of the RDP to be assessed using this indicator and appropriate methodology (for which guidance will be provided) in order to ensure input for the enhanced AIRs in 2017 and 2019 (so that these reports can assess progress towards achieving the objectives of the programme as required by Article 44 (3) and (4) of the CPR), and to provide a final assessment at the end of the programming period.
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<b>Indicator Name</b>	<b>Total investment in energy savings and efficiency</b>
<b>Indicator code</b>	<b>P5B</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5B Increasing efficiency in energy use in agriculture and food processing
<b>Definition</b>	Total investments in energy saving and efficiency supported under RDP art. 18
<b>Unit of measurement</b>	€
<b>Methodology/formula</b>	/
	Relevant measures contributing to target (when programmed under this focus area): Art. 18 Investments in physical assets
<b>Data required for the individual operation</b>	Total amount of investments in energy saving and efficiency supported under RDP art. 18
<b>Data source/ location of the data</b>	MA/PA operations database
<b>Point of data collection</b>	Data collected in the application but used when the action is completed
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Increase in efficiency of energy use in agriculture and food processing</b>
<b>Indicator code</b>	<b>P5B Result</b>
<b>Target indicator</b>	No
<b>The related priority</b>	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5A Increasing efficiency in energy use by agriculture and food processing
<b>Definition</b>	Increase in efficiency of energy use in agriculture and food processing in RDP supported projects  The indicator is related to AEI 8 (Energy use)
<b>Unit of measurement</b>	Tonnes of Oil Equivalent (T.O.E)/standard unit of output
<b>Methodology</b>	Evaluators will survey a sample of completed operations in relation to this focus area and establish the changes in energy use and output, and hence the increase in efficiency of energy use, through implementation of the projects. An appropriate sample will be selected based on project and beneficiary characteristics included in the operations database. The indicator value may be calculated directly from data from the survey (e.g. output and energy consumption) and/or may be combined with other information (e.g. standard output values or coefficients for energy consumption of different production technologies), in order to calculate indicator values. The same output values should be used for the before and after calculations to avoid distortions due to commodity price variability. Results obtained from the survey should then be extrapolated to population level in order to calculate the indicator value i.e. the increase in efficiency of energy usage. The total value should reflect the contribution of projects flagged as contributing to the Focus Area, both as main and secondary objective. Detailed guidance on the methodology to be used will be provided, in particular to ensure a viable and consistent approach to aggregation of data.
<b>Data required</b>	Identification and basic characteristics (size, type) of projects with an energy saving/efficiency component (operations database)  Information from the completed project on the situation before and after project implementation (technology used, energy use, output)  Standard output value figures for different crops (FADN); coefficients for energy consumption of different production technologies; coefficients for conversion of various energy sources to T.O.E. (e.g. Directive 2009/28/EC; International Energy Agency: <a href="http://www.iea.org/interenerstat_v2/energy_unit.asp">http://www.iea.org/interenerstat_v2/energy_unit.asp</a> )
<b>Point of data collection</b>	Relevant projects will be identified from application forms, and will be visible in the operations database. Relevant projects fall into two categories: 1. Those accepted under Focus Area 5B where the main objective is increasing energy efficiency. These are directly linked to P5B 2. Those whose main objective is linked to another focus area (e.g. farm restructuring) but which also have an impact on energy efficiency. These are identifiable from the operations database using the "secondary effects" field.

	Information on completed projects to be collected from beneficiaries by evaluators.
<b>Frequency</b>	Three times during the programming period: 2016; 2018; ex-post
<b>Means of transmission to Commission</b>	Enhanced AIR 2017 Enhanced AIR 2019 Ex-post evaluation report
<b>Comments/caveats</b>	It is proposed that the Evaluation Plan drawn up as part of each RDP should provide for the results of the RDP to be assessed using this indicator and appropriate methodology (for which guidance will be provided) in order to ensure input for the enhanced AIRs in 2017 and 2019 (so that these reports can assess progress towards achieving the objectives of the programme as required by Article 44 (3) and (4) of the CPR), and to provide a final assessment at the end of the programming period. This indicator is not intended to capture the production of renewable energy, which is accounted for separately under Priority 5C.



<b>Indicator Name</b>	<b>Total investment in renewable energy production</b>
<b>Indicator code</b>	<b>P5C</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5C Facilitating the supply and use of renewable sources of energy, of by-products, wastes, residues and other non food raw material for purpose of the bio-economy
<b>Definition</b>	Total investments in renewable energy production supported under RDP art. 18 Investments in physical assets, art. 20 Farm and business development, art. 21 basic services and art. 27 Investments in new forestry technologies and in processing and marketing of forest products
<b>Unit of measurement</b>	€
<b>Methodology/formula</b>	Investments in renewable energy production supported under RDP art. 18 + investments in renewable energy production supported under RDP art. 20 + investments in renewable energy production supported under RDP art. 21 + investments in renewable energy production supported under RDP art. 27  Relevant measures contributing to target (when programmed under this focus area): Art. 18 Investments in physical assets Art. 20 Farm and business development Art. 21 Basic services Art. 27 Investments in new forestry technologies and in processing and marketing of forest products
<b>Data required for the individual operation</b>	Total investments in renewable energy production supported under RDP art. 18 Investments in physical assets, art. 20 Farm and business development, art. 21 basic services and art. 27 Investments in new forestry technologies and in processing and marketing of forest products
<b>Data source/ location of the data</b>	MA/PA operations database
<b>Point of data collection</b>	Data collected in the application but used when the action is completed
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Renewable energy production from supported projects</b>
<b>Indicator code</b>	<b>P5C Result</b>
<b>Target indicator</b>	No
<b>The related priority</b>	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5C Facilitating the supply and use of renewable sources of energy, of by products, wastes, residues and other non food raw material for purposes of the bio-economy
<b>Definition</b>	Capacity created and energy generated in RDP supported renewable energy projects, expressed in tonnes of oil equivalent (T.O.E.)  The indicator is related to AEI 24 (renewable energy production)
<b>Unit of measurement</b>	Tonnes oil equivalents (T.O.E.) (All projects are converted into T.O.E, but for electricity production. Watts are also recorded since some reporting requirements use Watts)
<b>Methodology</b>	Evaluators will survey a sample of completed operations in relation to this focus area and establish the renewable energy capacity created, and the renewable energy generated, through implementation of the projects. An appropriate sample will be selected based on project and beneficiary characteristics included in the operations database. The indicator value may be calculated directly from data from the survey (e.g. actual figures for energy generation) and/or may be combined with other information (e.g. coefficients such as those included in Directive 2009/28/EC), in order to calculate indicator values. Results obtained from the survey should then be extrapolated to population level in order to calculate the indicator value i.e. the amount of renewable energy generated. The total value should reflect the contribution of projects flagged as contributing to the Focus Area, both as main and secondary objective. Detailed guidance on the methodology to be used will be provided.
<b>Data required</b>	Identification and basic characteristics (size, type) of projects with a renewable energy component (operations database)  Information from the completed project (technology used, capacity, energy generated)  Coefficients for conversion to T.O.E (e.g. Directive 2009/28/EC; International Energy Agency : <a href="http://www.iea.org/interenerstat_v2/energy_unit.asp">http://www.iea.org/interenerstat_v2/energy_unit.asp</a> )
<b>Point of data collection</b>	Relevant projects will be identified from application forms, and will be visible in the operations database. Relevant projects fall into two categories: 1. Those accepted under Focus Area 5C where the main objective is the creation of renewable energy. These are directly linked to P5C 2. Those whose main objective is linked to another focus area (e.g. farm restructuring or energy efficiency) but which include a renewable energy component. These are identifiable from the operations database using the "secondary effects" field.  Information on completed projects to be collected from beneficiaries by evaluators.
<b>Frequency</b>	Three times during the programming period: 2016; 2018; ex-post
<b>Means of transmission to Commission</b>	Enhanced AIR 2017 Enhanced AIR 2019

	Ex-post evaluation report
<b>Comments/caveats</b>	It is proposed that the Evaluation Plan drawn up as part of each RDP should provide for the results of the RDP to be assessed using this indicator and appropriate methodology (for which guidance will be provided) in order to ensure input for the enhanced AIRs in 2017 and 2019 (so that these reports can assess progress towards achieving the objectives of the programme as required by Article 44 (3) and (4) of the CPR), and to provide a final assessment at the end of the programming period.

<b>Indicator Name</b>	<b>% of Livestock Units (LU) concerned by investments in livestock management in view of reducing the N2O and methane emissions</b>
<b>Indicator code</b>	<b>P5D (1)</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5D Reducing nitrous oxide and methane emissions from agriculture
<b>Definition</b>	LU concerned by investments in livestock management in view of reducing the N2O and methane emissions supported under RDP art. 18 Investments in physical assets as a percentage of total LU in a base year
<b>Unit of measurement</b>	Nbr. %
<b>Methodology/formula</b>	Ratio a/b  a) Total amount of LU concerned by investments on farm aiming at reducing the N2O and methane emissions supported under RDP art. 18 (e.g. for an investment in manure treatment, the number of LU concerned by that investment on the farm).  b) total LU in a base year  Relevant measures contributing to target (when programmed under this focus area): Art. 18 Investments in physical assets
<b>Data required for the individual operation</b>	a) LU concerned by investments in livestock management in view of reducing the N2O and methane emissions supported under RDP art. 18
<b>Data source/ location of the data</b>	a) LU concerned by investments in livestock management: MA/PA operations database b) total LU: regional/national statistics
<b>Point of data collection</b>	a) LU concerned by investments in livestock management: Data collected in the application but used when the action is completed b) total LU: depending on regional/national statistics
<b>Frequency</b>	a) LU concerned by investments in livestock management: annual b) total LU: depending on regional/national statistics
<b>Delay</b>	a) LU concerned by investments in livestock management: / b) total LU: depending on regional/national statistics
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>% of agricultural land under management contracts targeting reduction of N2O and methane emissions</b>
<b>Indicator code</b>	<b>P5D (2)</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	5 - Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5D Reducing nitrous oxide and methane emissions from agriculture
<b>Definition</b>	Agricultural land under management contracts targeting reduction of N2O and methane emissions supported under RDP art. 29 and/or art. 30 as a percentage of total agricultural land in a base year
<b>Unit of measurement</b>	Nbr. %
<b>Methodology/formula</b>	<p>Ratio a/b</p> <p>a) Agricultural land under management contracts targeting reduction of N2O and methane emissions supported under RDP, including:  - land <u>specifically</u> dedicated to reducing nitrous oxide and methane emissions under art. 29 (e.g. green cover, catch crop, reduced fertilisation, extensification)- )  - (in case a scheme is designed to contribute jointly to priority 4 and focus area 5D) agricultural land supported under art 29 Agri-environment – climate + agricultural land supported under art. 30 Organic farming under Priority 4 that are <u>jointly</u> designed to reduce emissions.</p> <p>The total number of hectares should be reduced to the physical area: where hectares are covered by 2 of these schemes/measures for the reduction of N2O and methane emissions, only one hectare should be counted (not 2). It is the real surface where at least one action to reduce N2O emissions and methane is taking place which should be counted.</p> <p>b) total agricultural land in a base year</p> <p>Relevant measures contributing to target:  Art. 29 Agri-environment - climate  In case a scheme is designed to contribute jointly to priority 4 and focus area 5D: Art. 30 Organic farming</p>
<b>Data required for the individual operation</b>	see above
<b>Data source/ location of the data</b>	a) Agricultural land under management contracts targeting reduction of N2O and methane emissions: MA/PA operations database (+ IACS) b) total agricultural land: Eurostat
<b>Point of data collection</b>	a) Agricultural land under management contracts targeting reduction of N2O and methane emissions: Data collected in the application but used when the action is completed b) total agricultural land: depending on Eurostat
<b>Frequency</b>	a) Agricultural land under management contracts targeting reduction of N2O and methane emissions: annual b) total agricultural land: depending on Eurostat
<b>Delay</b>	a) Agricultural land under management contracts targeting reduction of N2O and methane emissions: / b) total agricultural land: depending on Eurostat
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Reduced emissions of methane and nitrous oxide</b>
<b>Indicator code</b>	<b>P5D Result</b>
<b>Target indicator</b>	No
<b>The related priority</b>	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5D Reducing nitrous oxide and methane emissions from agriculture
<b>Definition</b>	Reduced emissions of methane and nitrous oxide from agriculture in RDP supported projects  The indicator is related to AEI 19 (GHG emissions)
<b>Unit of measurement</b>	CO <sub>2</sub> Equivalent
<b>Methodology</b>	Evaluators will survey a sample of completed operations in relation to this focus area and establish the changes in emissions of methane and nitrous oxide due to the implementation of the projects. An appropriate sample will be selected based on project and beneficiary characteristics included in the operations database. The indicator value will be calculated using a combination of data from the survey (e.g. changes in livestock numbers, husbandry practices, manure storage/handling technology) and standard emission factors to transform the activity data into emission savings. Results obtained from the survey should then be extrapolated to population level in order to calculate the indicator value i.e. the reduction in emissions of methane and nitrous oxide. The total value should reflect the contribution of projects flagged as contributing to the Focus Area, both as main and secondary objective. Detailed guidance on the methodology to be used will be provided, including standard coefficients.
<b>Data required</b>	Identification and basic characteristics (size, type) of projects with a GHG reduction component (operations database)  Information from the completed project on the situation before and after project implementation (scale, management practices, technology used)  Coefficients for GHG emissions related to specific management practices, production technologies etc Absolute net GHG emissions (CH <sub>4</sub> and N <sub>2</sub> O) are reported in tonnes of CO <sub>2</sub> equivalent. GHG are accounted on the basis of their global warming potential (GWP) over a 100 year period. GWP values are taken from IPCC(2007) CO <sub>2</sub> =1; CH <sub>4</sub> = 25; N <sub>2</sub> O=298 Emission factors are obtained from national emission inventories or from specific research projects.
<b>Point of data collection</b>	Relevant projects will be identified from application forms, and will be visible in the operations database. Relevant projects fall into two categories: 1. Those accepted under Focus Area 5D where the main objective is reducing methane and/or nitrous oxide. These are directly linked to P5D 2. Those whose main objective is linked to another focus area (e.g. farm restructuring) but which also have an impact on GHG emissions. These are identifiable from the operations database using the "secondary effects" field.  Information on completed projects to be collected from beneficiaries by evaluators.
<b>Frequency</b>	Three times during the programming period: 2016; 2018; ex-post
<b>Means of transmission</b>	Enhanced AIR 2017

<b>to Commission</b>	Enhanced AIR 2019 Ex-post evaluation report
<b>Comments/caveats</b>	It is proposed that the Evaluation Plan drawn up as part of each RDP should provide for the results of the RDP to be assessed using this indicator and appropriate methodology (for which guidance will be provided) in order to ensure input for the enhanced AIRs in 2017 and 2019 (so that these reports can assess progress towards achieving the objectives of the programme as required by Article 44 (3) and (4) of the CPR), and to provide a final assessment at the end of the programming period.

<b>Indicator Name</b>	<b>% of agricultural and forest land under management contracts to foster carbon sequestration</b>
<b>Indicator code</b>	<b>P5E</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
<b>The related focus area</b>	5E Fostering carbon sequestration in agriculture and forestry
<b>Definition</b>	a) Agricultural and forestry land under management contracts to foster carbon sequestration supported under RDP as percentage of total agricultural and forest land area in a base year
<b>Unit of measurement</b>	Nbr. %
<b>Methodology/formula</b>	Ratio a/b  a) Agricultural and forestry land under management contracts to foster carbon sequestration supported under RDP, including: - ha <u>specifically</u> dedicated to carbon sequestration (e.g.art. 23 Afforestation and creation of woodland + Agricultural and forestry land under management contracts to foster carbon sequestration supported under RDP art. 24 Establishment of agro-forestry systems + Agricultural and forestry land under management contracts to foster carbon sequestration supported under RDP art. 29 Agri-environment – climate), - (in case a scheme is designed to contribute jointly to priority 4 and focus area 5E) Agricultural land supported under art 29 Agri-environment – climate under Priority 4 that is <u>jointly</u> designed to foster carbon sequestration  The total number of hectares should be reduced to the physical area: where hectares are covered by 2 of these schemes/measures to foster carbon sequestration, only one hectare should be counted (not 2). It is the real surface where at least one action to foster carbon sequestration is taking place which should be counted.  b) total agricultural land in a base year + total forestry land in a base year  Relevant measures contributing to target: Art. 23 Afforestation and creation of woodland Art. 24 Establishment of agro-forestry systems Art. 29 Agri-environment
<b>Data required for the individual operation</b>	see above
<b>Data source/ location of the data</b>	a) Agricultural and forestry land under management contracts to foster carbon sequestration: MA/PA operations database (+ IACS) b) total agricultural and forest land area: Eurostat
<b>Point of data collection</b>	a) Agricultural and forestry land under management contracts to foster carbon sequestration: Data collected in the application but used when the action is completed b) total agricultural and forest land area: depending on Eurostat
<b>Frequency</b>	a) Agricultural and forestry land under management contracts to foster carbon sequestration: annual b) total agricultural and forest land area: depending on Eurostat



<b>Delay</b>	a) Agricultural and forestry land under management contracts to foster carbon sequestration: / b) total agricultural and forest land area: depending on Eurostat
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Nbr of jobs created through supported projects</b>
<b>Indicator code</b>	<b>P6A</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	6 Promoting social inclusion poverty reduction and economic development in rural areas
<b>The related focus area</b>	6A Facilitating diversification, creation of new small enterprises and job creation
<b>Definition</b>	Total number of permanent jobs created (not maintained) through supported projects expressed in full time equivalent (FTE).
<b>Unit of measurement</b>	Nbr.
<b>Methodology/formula</b>	/
	Relevant measures contributing to target (when programmed under this focus area): Art.18 Investments in physical assets Art. 20 Farm and business development Art. 27 Investments in new forestry technologies and in processing and marketing of forest products
<b>Data required for the individual operation</b>	Total number of permanent jobs created (not maintained) through supported projects under art. 18, art. 20 and art. 27 expressed in full time equivalent (FTE)
<b>Data source/ location of the data</b>	Application forms/business plans (expected outcome); validated through sample of completed projects
<b>Point of data collection</b>	Data collected in the application/business plans but used when the action is completed (sample of completed projects + reporting by the project managers)
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Monitoring tables of AIR
<b>Comments/caveats</b>	Data source should be the business plan not a separate projection in order to avoid the risk of exaggeration. "Maintained jobs" are not taken into account as too problematic to assess

<b>Indicator Name</b>	<b>% of rural population covered by local development strategies</b>
<b>Indicator code</b>	<b>P6B (1)</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	6 Promoting social inclusion, poverty reduction and economic development in rural areas
<b>The related focus area</b>	6B Fostering local development in rural areas
<b>Definition</b>	% of rural population covered by LAGs funded through the RDP under Art. 42-45 LEADER
<b>Unit of measurement</b>	Nbr. %
<b>Methodology/formula</b>	Ratio a/b in %  a) Total number of rural population covered LAGs funded through the RDP Art. 42-45 LEADER over the programming period b) Total rural population covered in the RDP area  Relevant measures contributing to target: Art. 42-45 LEADER
<b>Data required for the individual operation</b>	a) Total rural population covered by LAGs funded under Art. 42-45 LEADER b) Total rural population covered by the RDP area
<b>Data source/ location of the data</b>	a) Total rural population covered: MA b) Total rural population covered by the RDP area: national or regional statistics
<b>Point of data collection</b>	a) Total rural population covered: Recorded at selection of LDS by MA, after each selection round b) Total rural population covered by the RDP area: depending on national or regional statistics systems
<b>Frequency</b>	a) Total rural population covered: annual b) Total rural population covered by the RDP area: depending on national or regional statistics systems
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Nbr of jobs created through supported projects</b>
<b>Indicator code</b>	<b>P6B (2)</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	6 Promoting social inclusion, poverty reduction and economic development in rural areas
<b>The related focus area</b>	6B Fostering local development in rural areas
<b>Definition</b>	Nbr of jobs created through support for implementation of operations under the LDS funded through the RDP under art. 42-45
<b>Unit of measurement</b>	Nbr.
<b>Methodology/formula</b>	/
	Relevant measures contributing to target: LEADER approach (art.42-45)
<b>Data required for the individual operation</b>	Jobs created through support for implementation of operations under the LDS under art. 42-45 LEADER.
<b>Data source/ location of the data</b>	application forms of LEADER projects transferred from LAGs to MA
<b>Point of data collection</b>	Recorded at selection of projects and provided by LAGs to MAs at the completion of the project
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Rural population benefiting from new or improved services / infrastructures</b>
<b>Indicator code</b>	<b>P6B (3)</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	6 Promoting social inclusion, poverty reduction and economic development in rural areas
<b>The related focus area</b>	6B Fostering local development in rural areas
<b>Definition</b>	Population benefiting from improved services/infrastructures supported under RDP through art. 21 Basic services and village renewal in rural areas
<b>Unit of measurement</b>	Nbr.
<b>Methodology/formula</b>	/
	Relevant measures contributing to target (when programmed under this focus area): Art. 21 Basic services and village renewal in rural areas
	The definition of the benefiting population is the potential users: size of the population in the area (e.g. municipality, group of municipalities...) benefiting from the service/infrastructure.
<b>Data required for the individual operation</b>	Population benefiting from improved services/infrastructures supported under RDP through art. 21
<b>Data source/ location of the data</b>	MA/PA operation database
<b>Point of data collection</b>	Data collected in the application (Local Administrative Units concerned + population) but used when the action is completed
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Annual Implementation Report
<b>Comments/caveats</b>	

<b>Indicator Name</b>	<b>Population benefiting from new or improved IT infrastructure</b>
<b>Indicator code</b>	<b>P6C</b>
<b>Target indicator</b>	Yes
<b>The related priority</b>	6 Promoting social inclusion poverty reduction and economic development in rural areas
<b>The related focus area</b>	6C Enhancing accessibility to, use and quality of information and communication technologies (ICT) in rural areas
<b>Definition</b>	Population benefiting from support for broadband internet infrastructure through RDP under art. 21 Basic services and village renewal in rural areas  Relevant measures contributing to target (when programmed under this focus area): Art. 21 Basic services and village renewal in rural areas
<b>Unit of measurement</b>	Nbr.
<b>Methodology/formula</b>	/
	Relevant measures contributing to target (when programmed under this focus area): Art. 21 Basic services and village renewal in rural areas  The definition of the benefiting population is the potential users: size of the population in the area (e.g. municipality, group of municipalities...) benefiting from the infrastructure.
<b>Data required for the individual operation</b>	Population benefiting from support for broadband internet infrastructure through RDP under art. 21
<b>Data source/ location of the data</b>	MA and PA operations database
<b>Point of data collection</b>	Data collected in the application (Local Administrative Units concerned + population) but used when the action is completed
<b>Frequency</b>	annual
<b>Delay</b>	/
<b>Means of transmission to Commission</b>	Monitoring tables of AIR
<b>Comments/caveats</b>	