

Working document

Evaluation Expert Committee 18/9/2013
Rural Development Committee meeting on 19/09/2013

Draft target indicator fiches for Pillar II
+ complementary result indicators
(update following political agreement)

(Priorities 1 to 6)

13/09/2013

Draft list of target / result indicators

Focus Area	Target indicator	Complementary result indicators
P1 A <i>Fostering innovation, cooperation, and the development of 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	
P1 B <i>Strengthening the links between agriculture, food production and forestry and research and innovation, including for the purpose of improved environmental management and performance</i>	Total number of co-operation operations supported under the cooperation measure (groups, networks/clusters, pilot project...) [across all focus areas]	
P1 C <i>Fostering lifelong learning and vocational training in the agriculture and forestry sectors</i>	Total number of participants trained [across all focus areas]	
P2 A <i>Improving the economic performance of all farms and facilitating farm restructuring and modernisation, notably with a view to increase market participation and orientation as well as agricultural diversification</i>	% of agriculture holdings with RDP support for investments in restructuring	Change in Agricultural output on supported farms/ AWU
P2 B <i>Facilitating the entry of adequately skilled farmers into the agricultural sector and, in particular, generational renewal</i>	% of agriculture holdings with RDP supported business development plan/investments for young farmers	
P3 A <i>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 organisations and inter-branch organisations</i>	% of agricultural holdings supported under quality schemes, local markets and short supply circuits, and producer groups/organisations	
P3 B <i>Supporting farm risk prevention and management</i>	% (of total farms) of farms participating under risk management schemes	
P4 A <i>Restoring, preserving and enhancing biodiversity, including in NATURA 2000 areas, areas facing natural or other specific constraints and high nature value farming, 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	
P4 B	% of Agricultural land under management	

Focus Area	Target indicator	Complementary result indicators
Improving water management, including fertiliser and pesticide management	contracts improving water management + % of forestry land under management contracts to improve water management	
P4 C Preventing soil erosion and improving soil management	% of Agricultural land under management contracts improving soil management and or preventing soil erosion (ha)+ % of forestry land under management contracts to improve soil management and or preventing soil erosion (ha)+	
P5 A Increasing efficiency in water use by agriculture	% 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)
P5 B Increasing efficiency in energy use in agriculture and food processing	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);
P5 C 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	Total investment in renewable energy production (€)	Renewable energy produced from supported projects (Tonnes of oil equivalent)
P5 D Reducing greenhouse gas and ammonia emissions from agriculture	LU concerned by investments in live-stock management in view of reducing GHG and/or ammonia emissions + % of agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions	Reduced emissions of methane and nitrous oxide (measured in CO ₂ equivalent) Reduced ammonia emissions (measured in CO ₂ equivalent)
P5 E Fostering carbon conservation and sequestration in agriculture and forestry	% of agricultural and forest land under management contracts contributing to carbon sequestration	
P6 A Facilitating diversification, creation and development of small enterprises and job creation	Jobs created in supported projects (also under 6B (for LEADER))	
P6 B Fostering local development in rural areas	% of rural Population covered by local development strategies + Rural population benefiting from improved services / infrastructures + Jobs created in supported projects (Leader)	
P6 C Enhancing accessibility to, use and quality of information and communication technologies (ICT) in rural areas	Rural Population benefiting from new or improved services / infrastructures (ICT)	

<i>Focus Area</i>	<i>Target indicator</i>	<i>Complementary result indicators</i>

DEFINITIONS IN THE FICHES

Indicator Name	<i>Title of the indicator which will be used in implementing regulation/guidance documents</i>
Indicator code	<i>Alphanumeric identifier</i>
Target indicator	<i>Identification of whether the indicator is a target indicator?</i>
The related priority	<i>Identification of the priority to which the indicator is linked as defined in the Pillar II intervention logic</i>
The related focus area	<i>Identification of the focus area to which the indicator is linked as defined in the Pillar II intervention logic</i>
Definition	<i>Concise definition of the concept, including if the indicator already exists, e.g. AEI, EUROSTAT indicator</i>
Unit of measurement	<i>Unit used to record the value (e.g. ha, tonnes, €, %)</i>
Methodology/formula	<i>Identification of what is needed to transform data from the operation database into value for the indicator</i>
Data required for the individual operation	<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>
Data source/location of the data	<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>
Point of data collection	<i>Point(s) in time at which data is collected (e.g. operation/project approval, completion or during evaluation activities)</i>
Frequency	<i>In principle this would be annual. If annual is not adequate, please specify</i>
Delay	<i>Delay between data collection and data aggregation (where external statistical data is used)</i>
Means of transmission to Commission	<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>
Comments/caveats	<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>

Indicator Name	% of total public expenditure for fostering innovation and the knowledge base in rural areas
Indicator code	P1A
Target indicator	Yes (targets for priority 1 established on the basis of output-type indicators)
The related priority	1 Fostering knowledge transfer and innovation in agriculture, forestry and rural areas
The related focus area	1A Fostering innovation, cooperation, and the development of the knowledge base in rural areas
Definition	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
Unit of measurement	%
Methodology/formula	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"> • Art. 15 Knowledge transfer and information actions • Art 16 Advisory services, farm management and farm relief services • Art 36 Cooperation
Data required for the individual operation	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
Data source/location of the data	MA/PA operations database, RDP
Point of data collection	Payments made by PA/MA and declared to the Commission
Frequency	annual
Delay	/
Means of transmission to Commission	Monitoring tables of AIR
Comments/caveats	

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

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

Indicator Name	% of agriculture holdings with RDP support for investment in restructuring
Indicator code	P2A
Target indicator	Yes
The related priority	P2 Enhancing farm viability and competitiveness of all types of agriculture in all regions and promoting innovative farm technologies and sustainable management of forest
The related focus area	P2A Improving the economic performance of all farms and facilitating farm restructuring and modernisation, notably with a view to increase market participation and orientation as well as agricultural diversification
Definition	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
Unit of measurement	Nbr. %
Methodology/formula	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
Data required for the individual operation	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
Data source/ location of the data	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
Point of data collection	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: /
Frequency	a) Total number of farm holdings receiving support for investment in restructuring: annual b) Total number of agricultural holdings: /
Delay	a) Total number of farm holding receiving business start-up aid for young farmers: / b) Total number of agricultural holdings: /
Means of transmission to Commission	a) Monitoring tables of AIR
Comments/caveats	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.

Indicator Name	Change in agricultural output *
Indicator code	P2A Result
Target indicator	No
The related priority	P2 Enhancing competitiveness of all types of agriculture and enhancing farm viability
The related focus area	2A Improving the economic performance of all farms and facilitating farm restructuring and modernisation, notably with a view to increase market participation and orientations as well as agricultural diversification
Definition	Change in output per Annual Work Unit in RDP supported projects
Unit of measurement	€/AWU
Methodology	<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>
Data required	<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>
Point of data collection	<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"> 1. Those accepted under Focus Area 2A where the main objective is facilitating farm restructuring. These are directly linked to P2A 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. <p>Information on completed projects to be collected from beneficiaries by evaluators. Control groups: FADN, national census data, FSS</p>
Frequency	Three times during the programming period: 2016; 2018; ex-post
Means of transmission to	Enhanced AIR 2017

Commission	Enhanced AIR 2019 Ex-post evaluation report
Comments/caveats	<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>

Indicator Name	% of agriculture holdings with RDP supported business development plan for young farmers
Indicator code	P2B
Target indicator	Yes
The related priority	2 Enhancing farm viability and competitiveness of all types of agriculture in all regions and promoting innovative farm technologies and sustainable management of forest
The related focus area	2B Facilitating entry of adequately skilled farmers into the agricultural sector and in particular generational renewal
Definition	Total number of farm holding receiving business start-up aid for young farmers under art. 20 over the programming or total number of farm holdings supported for investment targeting young farmers under art. 18 period expressed as a percentage of the total number of agricultural holdings in base year for the RDP area
Unit of measurement	Nbr. %
Methodology/formula	Ratio a/b in % a) Total number of farm holding receiving business start-up aid for young farmers over the programming period or total number of farm holdings supported for investment targeting young farmers over the programming period b) Total number of agricultural holdings in base year for the RDP area. The target is based on the key (sub)measure for young farmers (YF) needing support to set up their holding (business development (Article 20), start up aid YF) compared to the total number of (existing) agricultural holdings. In case business development (Article 20) 'start up aid YF' is not programmed as the key measure under this Focus Area (based on the RDP strategy): farm holdings (y) supported under the measure physical investment (Article 18) is used in the calculation of the target (only if art. 20 is not programmed to avoid double counting). Relevant measures contributing to target: Art.20: farm and business development or Art.18: investment in physical assets
Data required for the individual operation	a) Total number of farm holding receiving business start-up aid for young farmers under art. 20 (cumulative) or total number of farm holdings supported for investment targeting young farmers under art. 18 (cumulative) b) Total number of agricultural holdings in base year for the RDP area
Data source/ location of the data	a) Total number of farm holdings receiving business start-up aid for young farmers or total number of farm holdings supported for investment targeting young farmers: MA/PA operation database (output indicator) b) Total number of agricultural holdings: Eurostat: Farm Structure Survey
Point of data collection	a) Total number of farm holding receiving business start-up aid for young farmers total number of farm holdings supported for investment targeting young farmers: data collected at application level but reported when the operation is completed b) Total number of agricultural holdings: /
Frequency	a) Total number of farm holding receiving business start-up aid for young

	farmers total number of farm holdings supported for investment targeting young farmers : annual b) Total number of agricultural holdings: /
Delay	a) Total number of farm holding receiving business start-up aid for young farmers total number of farm holdings supported for investment targeting young farmers: / b) Total number of agricultural holdings: /
Means of transmission to Commission	a) Monitoring tables of AIR
Comments/caveats	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.

Indicator Name	% of agricultural holdings supported under quality schemes, local markets and short supply circuits, and producer groups
Indicator code	P3A
Target indicator	Yes
The related priority	3 Promoting food chain organisation, including processing and marketing of agricultural products, animal welfare and risk management in agriculture
The related focus area	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
Definition	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 organisations 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.
Unit of measurement	%
Methodology/formula	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 and organisations (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 and organisations Art. 36 Co-operation
Data required for the individual operation	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 organisations 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
Data source/ location of the data	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
Point of data collection	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: /
Frequency	a) Total number of agricultural holdings receiving support: annual b) Total number of agricultural holdings in base year for the RDP area: /
Delay	a) Total number of agricultural holdings receiving support: / b) Total number of agricultural holdings in base year for the RDP area: /

Means of transmission to Commission	a) Total number of agricultural holdings receiving support: AIR monitoring tables b) Total number of agricultural holdings in base year for the RDP area: /
Comments/caveats	

Indicator Name	% of agricultural holdings supported to manage risks
Indicator code	P3B
Target indicator	Yes
The related priority	3 Promoting food chain organisation, including processing and marketing of agricultural products, animal welfare and risk management in agriculture
The related focus area	3B Supporting farm risk prevention and management
Definition	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
Unit of measurement	Nbr %
Methodology/formula	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 <u>adverse climatic events</u> , animal and plant diseases, <u>pest infestations</u> 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
Data required for the individual operation	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
Data source/ location of the data	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
Point of data collection	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: /
Frequency	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: /

Delay	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: /
Means of transmission to Commission	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: /
Comments/caveats	

Indicator Name	<p>P4A: % of agricultural land under management contracts supporting biodiversity</p> <p>P4B: % of agricultural land under management contracts improving water management</p> <p>P4C: % of Agricultural land under management contracts improving soil management and or preventing soil erosion (ha)</p>
Indicator code	<p>P4A Agriculture</p> <p>P4B Agriculture</p> <p>P4C Agriculture</p>
Target indicator	Yes
The related priority	4 Restoring, preserving and enhancing ecosystems related to agriculture and forestry
The related focus area	<ul style="list-style-type: none"> ▪ P4A Restoring, and preserving and enhancing biodiversity, including in Natura 2000 areas, areas facing natural or other specific constraints and high nature value farming, and the state of European landscapes ▪ P4B Improving water management, including fertiliser and pesticide management ▪ P4C Preventing soil erosion and improving soil management
Definition	<ul style="list-style-type: none"> ▪ P4A % of agricultural land area under RD management contracts restoring or preserving biodiversity <p>Relevant measures contributing to target:</p> <ul style="list-style-type: none"> - Art. 29 Agri-environment climate - Art. 30 Organic farming - Art. 31 Natura 2000 - Art. 22 Afforestation and creation of woodland and establishment of agroforestry systems <ul style="list-style-type: none"> ▪ P4B % of agricultural land area under RD management contracts improving water management <p>Relevant measures contributing to target:</p> <ul style="list-style-type: none"> - Art. 29 Agri-environment climate - Art. 30 Organic farming - Art. 31 WFD - Art. 22 Afforestation and creation of woodland and establishment of agroforestry systems <ul style="list-style-type: none"> ▪ P4C % of Agricultural land under management contracts improving soil management and or preventing soil erosion (ha) <p>Relevant measures contributing to target:</p> <ul style="list-style-type: none"> - Art. 29 Agri-environment climate - Art. 30 Organic farming - Art. 22 Afforestation and creation of woodland and establishment of agroforestry systems
Unit of measurement	Ha %
Methodology/formula	<ul style="list-style-type: none"> ▪ P4A % of agricultural land area under RD management contracts restoring or preserving biodiversity

	<p>Ratio a/b in %</p> <p>a) Physical agricultural land area (ha) under land management restoring and preserving biodiversity</p> <p>b) Total agricultural land area (ha) in 2013 for the RDP area</p> <ul style="list-style-type: none"> ▪ P4B % of agricultural land area under RD management contracts improving water management <p>Ratio a/b in %</p> <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"> ▪ P4C % of Agricultural land under management contracts improving soil management and or preventing soil erosion (ha) <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> <p>Physical area: if different measures or schemes are implemented on the same area for the same FA, no double counting is allowed</p>
Data required for the individual operation	<p>a) Total agricultural land ha under land management</p> <p>b) total agricultural land area in base year for the RDP area</p>
Data source/ location of the data	<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>
Point of data collection	<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>
Frequency	<p>a) Total physical ha: annual</p> <p>b) total agricultural land area in 2013 for the RDP area: /</p>
Delay	<p>a) Total physical ha: /</p> <p>b) total agricultural land area in 2013 for the RDP area: /</p>
Means of transmission to Commission	Monitoring AIR
Comments/caveats	

Indicator Name	P4A % of forestry under management contracts supporting biodiversity P4B % of forestry under management contracts improving water management P4C % of forestry under management contracts improving soil management and or preventing soil erosion (ha)
Indicator code	P4A Forestry P4B Forestry P4C Forestry
Target indicator	Yes
The related priority	4 Restoring, preserving and enhancing ecosystems related to agriculture and forestry
The related focus area	<ul style="list-style-type: none"> ▪ P4A Restoring, and preserving and enhancing biodiversity, including in Natura 2000 areas, areas facing natural or other specific constraints and high nature value farming, and the state of European landscapes ▪ P4B Improving water management, including fertiliser and pesticide management ▪ P4C Preventing soil erosion and improving soil management
Definition	<ul style="list-style-type: none"> ▪ P4A % of forest or other wooded area under RD management contracts restoring or preserving biodiversity <p>Relevant measures contributing to target:</p> <ul style="list-style-type: none"> - Art. 35 Forest-environmental and climate services and forest conservation - Art. 31 Natura 2000 - Art. 22 Investments improving resilience and environmental value of forest ecosystems <ul style="list-style-type: none"> ▪ P4B % of forest or other wooded area under RD management contracts improving water management <ul style="list-style-type: none"> - Art. 35 Forest-environmental and climate services and forest conservation - Art. 22 Investments improving resilience and environmental value of forest ecosystems <ul style="list-style-type: none"> ▪ P4C % of forestry under management contracts improving soil management and or preventing soil erosion (ha) <ul style="list-style-type: none"> - Art. 35 Forest-environmental and climate services and forest conservation - Art. 22 Investments improving resilience and environmental value of forest ecosystems ▪
Unit of measurement	Ha %
Methodology/formula	<ul style="list-style-type: none"> ▪ P4A % of forest or other wooded area under RD management contracts restoring or preserving biodiversity <p>Ratio a/b in %</p> <p>a) Physical forestry or wooded land area (ha) under land management restoring and preserving biodiversity</p> <p>b) Total forestry or wooded land area (ha) in 2013 for the RDP area</p>

	<ul style="list-style-type: none"> ▪ P4B % of forest or other wooded area under RD management contracts improving water management <p>Ratio a/b in %</p> <p>a) Physical forestry or wooded land area (ha) under land management improving water management</p> <p>b) Total forestry or wooded land area (ha) in 2013 for the RDP area</p> <ul style="list-style-type: none"> ▪ P4C % of forestry under management contracts improving soil management and or preventing soil erosion (ha) <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>- Art. 22 Investments improving resilience and environmental value of forest ecosystems: output indicator area concerned by investment improving resilience and environmental value of forest ecosystems should be used</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> <p>Physical area: if different measures or schemes are implemented on the same area for the same FA, no double counting is allowed</p>
Data required for the individual operation	<p>a) Total ha under land management</p> <p>b) total forestry area in base year for the RDP area</p>
Data source/ location of the data	<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>
Point of data collection	<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>
Frequency	<p>a) Total physical ha: annual</p> <p>b) total forestry area in 2013 for the RDP area: /</p>
Delay	<p>a) Total physical ha: /</p> <p>b) total forestry area in 2013 for the RDP area: /</p>
Means of transmission to Commission	Monitoring AIR
Comments/caveats	

Indicator Name	% of irrigated land switching to more efficient irrigation system
Indicator code	P5A
Target indicator	Yes
The related priority	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5A Increasing efficiency in water use by agriculture
Definition	% 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)
Unit of measurement	Nbr. %
Methodology/formula	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
Data required for the individual operation	a) Nbr of hectares switching to more efficient irrigation systems through RDP support described above b) Total irrigated land in a base year
Data source/ location of the data	a) Nbr of hectares switching to more efficient irrigation systems: MA/PA operations database b) Total irrigated land in a base year: Eurostat
Point of data collection	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
Frequency	a) Nbr of hectares switching to more efficient irrigation systems: annual b) Total irrigated land in a base year: depending on Eurostat
Delay	/
Means of transmission to Commission	Annual Implementation Report
Comments/caveats	

Indicator Name	Increase in efficiency of water use in agriculture
Indicator code	P5A Result
Target indicator	No
The related priority	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5A Increasing efficiency in water use by agriculture
Definition	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)
Unit of measurement	Change in m ³ water used/standard unit of output
Methodology	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.
Data required	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
Point of data collection	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.
Frequency	Three times during the programming period: 2016; 2018; ex-post
Means of transmission to Commission	Enhanced AIR 2017 Enhanced AIR 2019 Ex-post evaluation report
Comments/caveats	It is proposed that the Evaluation Plan drawn up as part of each RDP should

	<p>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>
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Indicator Name	Total investment in energy savings and efficiency
Indicator code	P5B
Target indicator	Yes
The related priority	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5B Increasing efficiency in energy use in agriculture and food processing
Definition	Total investments in energy saving and efficiency supported under RDP art. 18
Unit of measurement	€
Methodology/formula	/
	Relevant measures contributing to target (when programmed under this focus area): Art. 18 Investments in physical assets Art. 21: Basic services and village renewal in rural areas (investment in energy savings)
Data required for the individual operation	Total amount of investments in energy saving and efficiency supported under RDP art. 18 and art. 21
Data source/ location of the data	MA/PA operations database
Point of data collection	Data collected in the application but used when the action is completed
Frequency	annual
Delay	/
Means of transmission to Commission	Annual Implementation Report
Comments/caveats	

Indicator Name	Increase in efficiency of energy use in agriculture and food processing
Indicator code	P5B Result
Target indicator	No
The related priority	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5A Increasing efficiency in energy use by agriculture and food processing
Definition	Increase in efficiency of energy use in agriculture and food processing in RDP supported projects The indicator is related to AEI 8 (Energy use)
Unit of measurement	Tonnes of Oil Equivalent (T.O.E)/standard unit of output
Methodology	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.
Data required	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: http://www.iea.org/interenerstat_v2/energy_unit.asp)
Point of data collection	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.
Frequency	Three times during the programming period: 2016; 2018; ex-post
Means of transmission to Commission	Enhanced AIR 2017 Enhanced AIR 2019 Ex-post evaluation report
Comments/caveats	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.

Indicator Name	Total investment in renewable energy production
Indicator code	P5C
Target indicator	Yes
The related priority	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	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
Definition	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. 22 Investments in new forestry technologies and in processing and marketing of forest products
Unit of measurement	€
Methodology/formula	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. 22 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. 22 Investments in new forestry technologies and in processing and marketing of forest products
Data required for the individual operation	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 (investment in renewable energy) and art. 22 Investments in new forestry technologies and in processing and marketing of forest products
Data source/ location of the data	MA/PA operations database
Point of data collection	Data collected in the application but used when the action is completed
Frequency	annual
Delay	/
Means of transmission to Commission	Annual Implementation Report
Comments/caveats	

Indicator Name	Renewable energy production from supported projects
Indicator code	P5C Result
Target indicator	No
The related priority	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	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
Definition	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)
Unit of measurement	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)
Methodology	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.
Data required	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 : http://www.iea.org/interenerstat_v2/energy_unit.asp)
Point of data collection	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.
Frequency	Three times during the programming period: 2016; 2018; ex-post
Means of transmission to Commission	Enhanced AIR 2017 Enhanced AIR 2019

	Ex-post evaluation report
Comments/caveats	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.

Indicator Name	% of Livestock Units (LU) concerned by investments in livestock management in view of reducing the GHG and/or ammonia emissions
Indicator code	P5D (1)
Target indicator	Yes
The related priority	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5D Reducing green house gas and ammonia emissions from agriculture
Definition	LU concerned by investments in livestock management in view of reducing GHG and/or ammonia emissions supported under RDP art. 18 Investments in physical assets as a percentage of total LU in a base year
Unit of measurement	Nbr. %
Methodology/formula	Ratio a/b a) Total amount of LU concerned by investments on farm aiming at reducing GHG and/or ammonia 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
Data required for the individual operation	a) LU concerned by investments in livestock management in view of reducing GHG and/or ammonia emissions supported under RDP art. 18
Data source/ location of the data	a) LU concerned by investments in livestock management: MA/PA operations database b) total LU: regional/national statistics
Point of data collection	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
Frequency	a) LU concerned by investments in livestock management: annual b) total LU: depending on regional/national statistics
Delay	a) LU concerned by investments in livestock management: / b) total LU: depending on regional/national statistics
Means of transmission to Commission	Annual Implementation Report
Comments/caveats	

Indicator Name	% of agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions
Indicator code	P5D (2)
Target indicator	Yes
The related priority	5 - Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5D Reducing nitrous oxide and methane emissions from agriculture
Definition	Agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions supported under RDP art. 29 and/or art. 30 as a percentage of total agricultural land in a base year
Unit of measurement	Nbr. %
Methodology/formula	<p>Ratio a/b</p> <p>a) Agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions supported under RDP, including: - land <u>specifically</u> dedicated to reducing GHG and/or ammonia emissions under art. 29 (e.g. green cover, catch crop, reduced fertilisation, extensification)-)</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 GHG and/or ammonia 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</p>
Data required for the individual operation	see above
Data source/ location of the data	a) Agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions : MA/PA operations database (+ IACS) b) total agricultural land: Eurostat
Point of data collection	a) Agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions : Data collected in the application but used when the action is completed b) total agricultural land: depending on Eurostat
Frequency	a) Agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions : annual b) total agricultural land: depending on Eurostat
Delay	a) Agricultural land under management contracts targeting reduction of GHG and/or ammonia emissions : / b) total agricultural land: depending on Eurostat
Means of transmission to Commission	Annual Implementation Report
Comments/caveats	

Indicator Name	Reduced emissions of methane and nitrous oxide
Indicator code	P5D Result (1)
Target indicator	No
The related priority	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5D Reducing nitrous oxide and methane emissions from agriculture
Definition	Reduced emissions of greenhouse gas and ammonia from agriculture in RDP supported projects The indicator is related to AEI 19 (GHG emissions)
Unit of measurement	CO ₂ Equivalent
Methodology	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.
Data required	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 ₄ and N ₂ O) are reported in tonnes of CO ₂ 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 ₂ =1; CH ₄ = 25; N ₂ O=298 Emission factors are obtained from national emission inventories or from specific research projects.
Point of data collection	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 GHG and ammonia emissions. 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.
Frequency	Three times during the programming period: 2016; 2018; ex-post
Means of transmission	Enhanced AIR 2017

to Commission	Enhanced AIR 2019 Ex-post evaluation report
Comments/caveats	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.

Indicator Name	Reduced emissions of ammonia from agriculture NEW
Indicator code	P5D Result (2)
Target indicator	No
The related priority	P5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors.
The related focus area	5D Reducing greenhouse gas and ammonia emissions from agriculture.
Definition	Reduced emissions of ammonia from agriculture in RDP supported projects The indicator is related to AEI 18 (Ammonia emissions from agriculture)
Unit of measurement	Tonnes of ammonia
Methodology	Evaluators will survey a sample of completed operations in relation to this focus area and establish the changes in emissions of ammonia 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/coefficients 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 ammonia. 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. As far as practicable, emissions should be estimated using a methodology compatible with that applied in the national inventory.
Data required	Identification and basic characteristics (size, type) of projects with an ammonia reduction component (operations database) Information from the completed project on the situation before and after project implementation (scale, management practices, technology used). Coefficients for ammonia emissions related to specific management practices, production technologies, etc. Absolute net ammonia emissions (NH ₃) are reported in Tonnes of ammonia, <i>(The total could also be broken down by subcategory to match national data collection: Inorganic N-fertilizers; Cattle dairy; Cattle non-dairy; Swine; Laying hens; Broilers; Other.)</i> Standard emission factors are obtained from guidance sources such as the EMEP/EEA Air Pollutant Emission Inventory Guidebook http://www.eea.europa.eu/publications/emep-eea-guidebook-2013 , national emission inventories or from specific research projects.
Point of data collection	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 GHG and ammonia emissions. 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 ammonia emissions. These are identifiable from the operations database using the "secondary effects" field. Information on completed projects to be collected from beneficiaries by evaluators.
Frequency	Three times during the programming period:

	2016,2018, <i>ex post</i>
Means of transmission to Commission	Enhanced AIR 2017 Enhanced AIR 2019 <i>Ex-post</i> evaluation report
Comments	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.

Indicator Name	% of agricultural and forest land under management contracts to foster carbon sequestration/conservation
Indicator code	P5E
Target indicator	Yes
The related priority	5 Promoting resource efficiency and supporting the shift towards a low carbon and climate resilient economy in agriculture, food and forestry sectors
The related focus area	5E Fostering carbon conservation and sequestration in agriculture and forestry
Definition	a) Agricultural and forestry land under management contracts to foster carbon sequestration/conservation supported under RDP as percentage of total agricultural and forest land area in a base year
Unit of measurement	Nbr. %
Methodology/formula	Ratio a/b a) Agricultural and forestry land under management contracts to foster carbon sequestration/conservation supported under RDP, including: - ha <u>specifically</u> dedicated to carbon sequestration/conservation (e.g.art. 22 Afforestation and creation of woodland + Agricultural and forestry land under management contracts to foster carbon sequestration/conservation supported under RDP art. 22 Establishment of agro-forestry systems + Agricultural and forestry land under management contracts to foster carbon sequestration/conservation 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/conservation, only one hectare should be counted (not 2). It is the real surface where at least one action to foster carbon sequestration/conservation 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. 22 Afforestation and creation of woodland Art. 24 Establishment of agro-forestry systems Art. 29 Agri-environment
Data required for the individual operation	see above
Data source/ location of the data	a) Agricultural and forestry land under management contracts to foster carbon sequestration/conservation: MA/PA operations database (+ IACS) b) total agricultural and forest land area: Eurostat
Point of data collection	a) Agricultural and forestry land under management contracts to foster carbon sequestration/conservation: Data collected in the application but used when the action is completed b) total agricultural and forest land area: depending on Eurostat
Frequency	a) Agricultural and forestry land under management contracts to foster carbon sequestration/conservation: annual b) total agricultural and forest land area: depending on Eurostat

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

Indicator Name	Nbr of jobs created through supported projects
Indicator code	P6A
Target indicator	Yes
The related priority	6 Promoting social inclusion poverty reduction and economic development in rural areas
The related focus area	6A Facilitating diversification, creation and development of small enterprises and job creation
Definition	Total number of permanent jobs created (not maintained) through supported projects expressed in full time equivalent (FTE).
Unit of measurement	Nbr.
Methodology/formula	/ Relevant measures contributing to target (when programmed under this focus area): Art.18 Investments in physical assets Art. 20 Farm and business development Art. 22 Investments in new forestry technologies and in processing and marketing of forest products
Data required for the individual operation	Total number of permanent jobs created (not maintained) through supported projects under art. 18, art. 20 and art. 22 expressed in full time equivalent (FTE)
Data source/ location of the data	Application forms/business plans (expected outcome); validated through sample of completed projects
Point of data collection	Data collected in the application/business plans but used when the action is completed (sample of completed projects + reporting by the project managers)
Frequency	annual
Delay	/
Means of transmission to Commission	Monitoring tables of AIR
Comments/caveats	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

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

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

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

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