

Ministry of Agriculture Republic of Latvia

### Designing interventions within the CAP green architecture

Seminar on CAP Strategic Planning December 4, 2019



#### Impact on natural resources

Use of fertilizers
N un P runoffs (t/g or kg/ha)

#### •Organic matter in soil

- Soil reaction
- •Content of P and K

- •Ammonia emissions
- Manure management

Air

#### Water





•Land use, management

•GHG emissions

- •Land use, management
- Diversity of landscape, elements
- Status of biotopes and habitats

#### **Biodiversity**

## Animal husbandry Climate

## **Agricultural activity**

# Food, jobs, agro-tourism...

Measures included in		Measures included in					
Nat. energy and climate plan 2021-2030		«Clean air» action plan 2019-2030					
	Precision mineral ferti	liser application					
	Fertilisation p	anning					
	Nitrogen fixing crops as a	part of crop rotation					
	Facilitation of biog	as production					
	Direct injection o	f slurry in soil					
	Organic dairy farming (emissio	ns reducing dairy farming)					
	Planning feed ra	ations					
	Enhancement of the	quality of feed					
AGRI	Maintenance of drainage systems	Reduced time limits for manure incorporation					
	Establishment of orchards	Covering of slurry storage facilities					
LULUCF	Undersowing grass	Replacement of lagoons with cylindrical					
	Green fallow	manure storages					
	Afforestation						
	Replacement/maintenance of non-						
FOREST LULUCF	productive forest stands						
	Regeneration of stands affected by						
	natural disturbances						
	Forest thinning						
	Recultiv. of historic peat-extraction sites, introducing perennial crops						



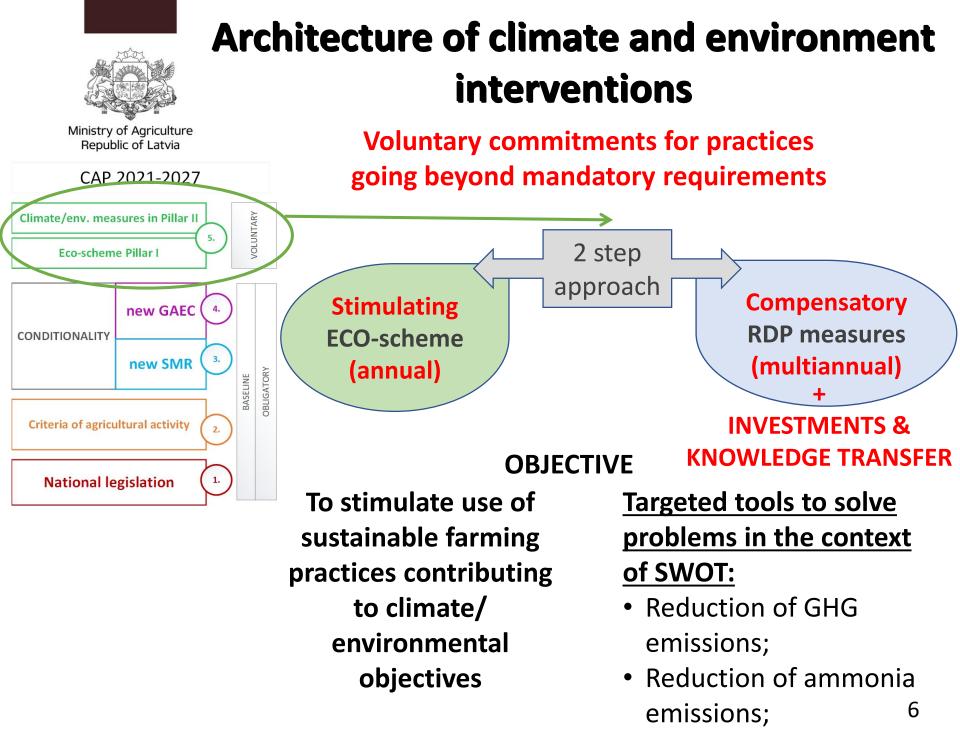
# Needs identified together with stakeholders

- Implementation of measures reducing GHG emissions (or stimulating sequestration);
- Improving of soil «quality» indicators;
- Improving of **water quality** indicators;
- Improving of **air quality** indicators (reducing ammonia emissions);
- Improving of **biodiversity** indicators, preservation of landscape elements;
- Improving of biodiversity indicators in forest lands;
- Practices of **animal welfare** contributing to climate/environmental objectives;
- Strengthening knowledge / level of understanding.



**Criteria for selection of interventions** 

- Ministry of Agriculture Republic of Latvia
- Compatibility with needs identified via situation analysis and SWOT;
- Multifunctionality (contributes to more than one objective);
- Cost-benefit (costs vs. delivery towards objectives);
- Level of interest to participate (critical mass);



			Needs/Objectives								
Possible interventions		Climate -	Air [Ammonia]	Water	Soil	Biodiversity	Landscape	Food quality			
Eco-schemes (Pillar I)	Set of «greening» activities - for reducing GHG emissions, pollution, improving soils etc. – 5% (in addition to 5% under GAEC 9) of the arable land is managed without plant protection products and used for: - Nitrogen fixing crops; - Catch crops; - Under-sowing grass; - Green fallow;	2		2	2	1	1	1			
	[4 m] wide green buffer strips (beyond conditionality system requirements): - Field margins; - Buffer strips along water objects; - Strips dividing large parcels >100 ha; - Safety strips between organic and conventional parcels;			2	2	2	2	1			
	Facilitation of organic farming practices	1	1	1	1	1	1	1			
	Less disturbing soil management: reduced tillage, direct sowing, ploughing without flipping of soil;	2		1	1						
	<ul> <li>Preservation of permanent grasslands in livestock farms:</li> <li>Proportion of grasslands – at least 30%;</li> <li>Livestock units 0,3-1,0 on elegible ha;</li> <li>Permanent grassland is not ploughed up at least 5 years in the ha committed.</li> </ul>	1		1	1	2	2				

Possible interventions (except forestry interventions)		<b>Needs/Objectives</b>								
		Air (Ammonia)	Water	Soil	Biodiversity	Landscape	Food quality			
Maintenance of biodiversity in grasslands (including grasslands in organic farms);	1		2	1	2	2				
Maintenance of bird habitats – in grasslands;	1		2	1	2	2				
<b>Emissions reducing crop production</b> – more sustainable management of plant protection products, planning of fertilisation, incl., agrochemical analysis, precise application, direct incorporation, use of certified seeds	2	2	2	2			1			
[15%]. Environmentally friendly horticulture - set of requirements facilitating reduction of pollution, more sustainable management of plant protection products, preventive measures to reduce usage of PPP and fertilizers, precision farming.	2		1	2			1			
<ul> <li>precision farming.</li> <li>Emissions reducing animal husbandry: <ul> <li>Feeding and welfare;</li> <li>Access to pastures/outdoor paddocks;</li> <li>Reduced usage of antimicrobials;</li> <li>Longer grazing periods;</li> </ul> </li> </ul>	2	2					2			
Organic farming (including dairy and beef production, and apiculture) – specific requirements to improve soil quality, agrochemical analysis, green manure, nitrogen fixing crops, use of certified seeds;	2	1	2	2	1	1	2			
Structural liming of soil – incl., agrochemical analysis.			2	2						



#### **POSSIBLE TYPES OF INVESTMENTS**

- Construction of environ./climate friendly production facilities (e.g., livestock sheds...);
- Facilitation of biogas production;
- Precision technologies, incl., for precision mineral fertiliser application;
- Equipment for separation of slurry;
- Covering of slurry storage facilities;
- Equipment/machinery for direct injection of slurry into soil
- Improving quality of feed preparation technologies;
- Establishment of perennial crops in arable lands;
- Establishment of perennial crops, short rotation coppice or energy crops in organic soils;
- Afforestation of soils with low fertility;
- Renovation of drainage systems;
- Environmentally friendly drainage systems, e.g, sedimentation ponds, 2-level ditches;
- Establishment of wetlands;
- Regeneration of biotopes.



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### ...we keep on working!

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