



# How CAP Strategic Plans contribute to nutrient management ?



*An assessment of interventions proposed by Member States*

DG.AGRI.B2, environmental sustainability

CDG Agriculture and environment, 13<sup>th</sup> November 2023

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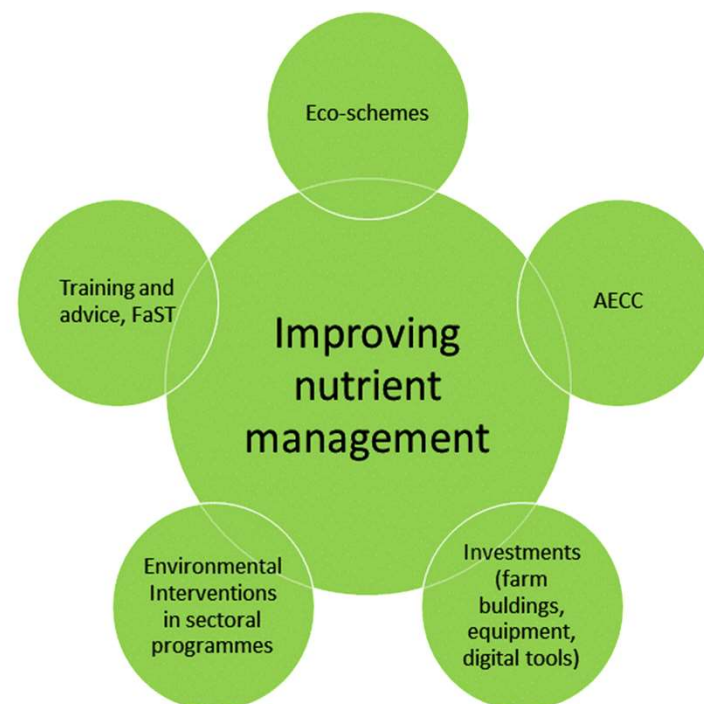
# Scope



The **screening of CSP** focus on

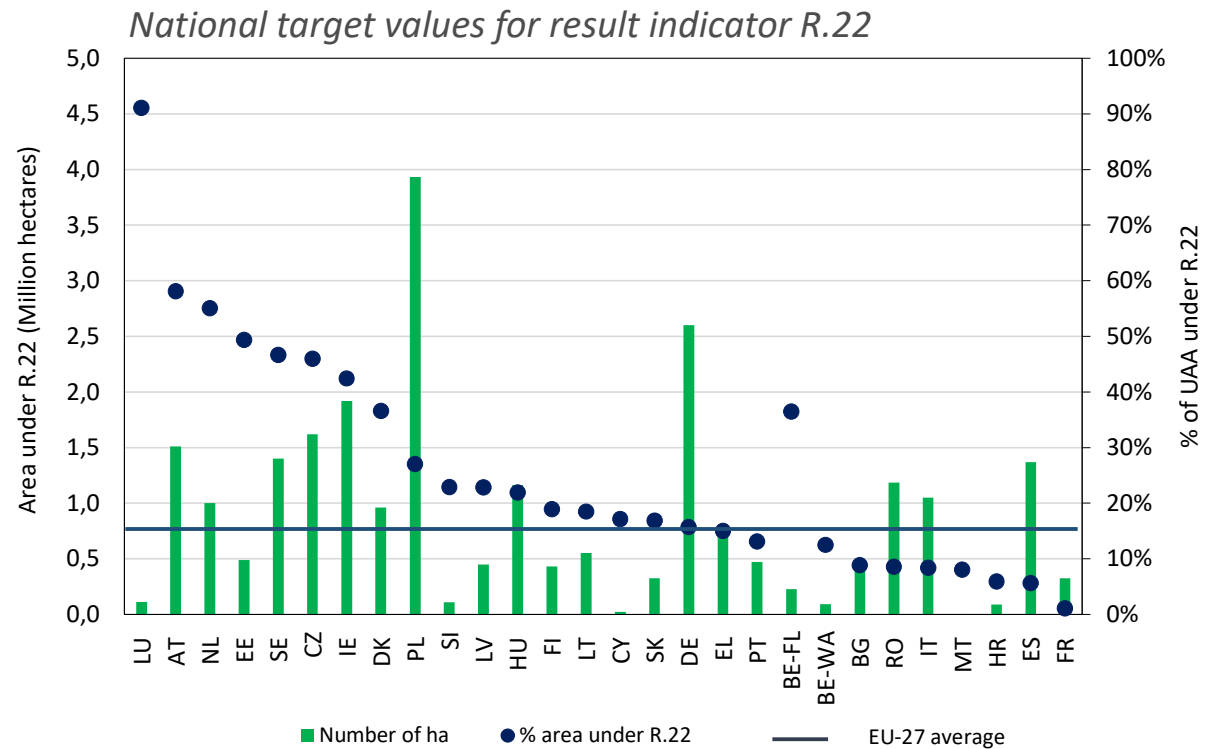
- Mainly **area-based** interventions but also investments
- Promote **agro-ecological approaches** to sustain and enhance soil health and fertility and limit nutrients losses to water
- **Replace mineral fertilisers (N) by organic sources**, including organic farming
- Increasing **nutrient use efficiency**
- **Investments for upgrading** farm buildings and equipment

*How CSP can support a better nutrient management*



# Result indicators and targets (1)

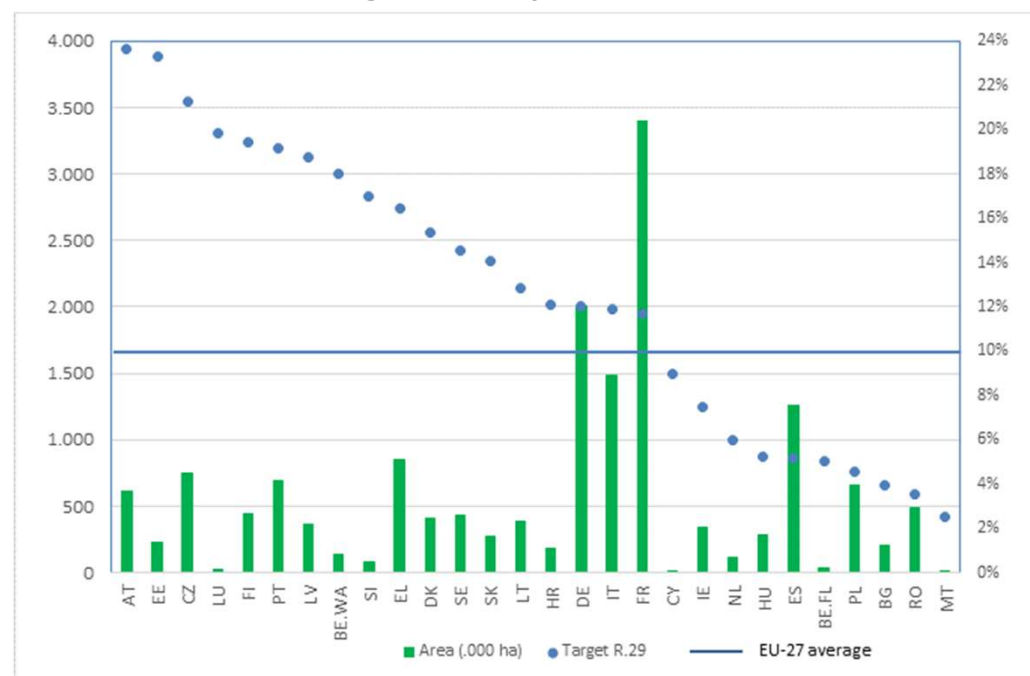
- R.21 – Protecting water quality
- **R.22 – Sustainable nutrient management**
  - **15,2%** of the EU's agricultural area (24,6 million ha)
  - National targets ranging from 1% to 91%
  - 7 MS set a target over 40% of UAA
  - Several factors explain the differences



## Result indicators and targets (2)

- **R.29 – share of UAA receiving support for organic farming** (10% UAA)
- R.14 - enhancing carbon storage in soils
- **R.19 - improving and protecting soils** (47% UAA)
- R.20 - improving air quality
- **R.26 - investments related to natural resources** (precision farming, equipment for manure/slurry separation/application, storage)

*National target values for result indicator R.29*



# Relevant GAEC

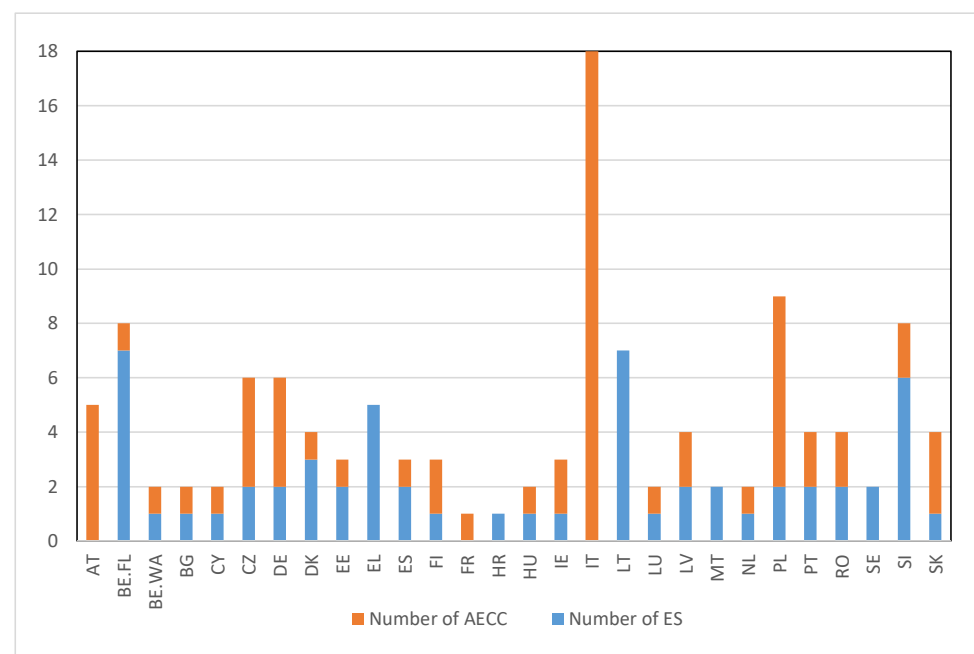
- GAEC 4 – buffer strips along water courses
- GAEC 6 – soil cover
- GAEC 7 – crop rotation
- GAEC 8 – includes catch crops and N-fixing crops
  - 15 CSP offer the “option 3”, with a minimum share of at least 7% of arable land if this includes catch crops or nitrogen fixing crops

GAEC 4	CAP plans	No of CAP plans
MS minimum width 3 meters	AT, BE-FL, CZ, DE, DK, EE, EL, HR, CY, LV, LT, HU, NL, PL, PT, RO, SK, FI, SE	19
MS minimum width higher than 3 meter	BE-WA, BG, IE, ES, FR, IT, LU, MT, SI	9
MS additional width higher than 3 meter applicable to certain situations	AT, BE-FL, BG, CZ, EE, IE, EL, CY, LV, HU, MT, NL, PT, RO, SI, SE	16
MS applying derogation for irrigation ditches	BG, DE for some regions, EE, ES, FR, NL	6

# Relevant interventions

- Overall, **122 area-based interventions** contributing to R.22 :
  - **58 eco-schemes** (sub-schemes) and
  - **64 AECC** (national/regional)
- **Wide range** of interventions, with a different degree of targeting to nutrient management
- 25 CSP (all except AT, FR, and IT) have set out one/more eco-schemes linked to R.22
- 40 eco-schemes interventions set out in 20 CSP **targeting nutrient management** (25% of the total)
- 23 CSP have planned one/more AECC

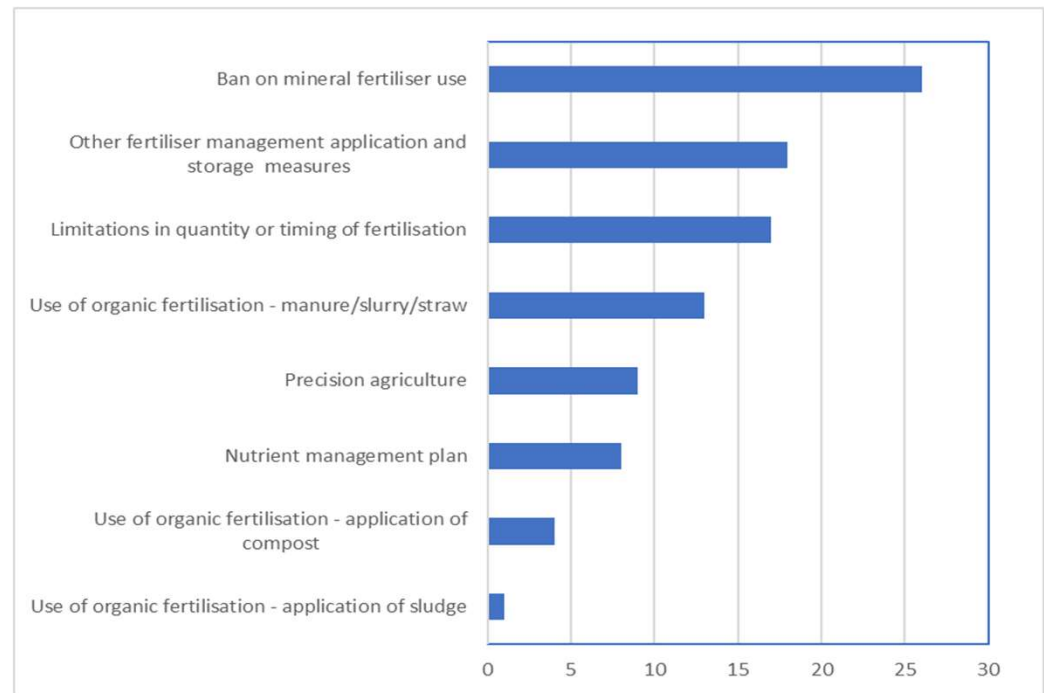
*Number of eco-schemes and AECC set to contribute to R.22*



# Eco-schemes

- **Nearly all CSP** with one/more schemes including relevant commitments to fertilisation, though not all schemes are targeted to this goal
- 14 CSP: **ban of mineral fertiliser** (mainly grassland, catch crops, crops for biodiversity)
- 13 CSP : **adaptation of the timing/quantities** of N applied (mainly arable crops)
- 14 CSP support **organic** fertilisation (mainly manure/slurry)
- 7 CSP support **precision** agriculture
- 8 CSP request **nutrient management plans**

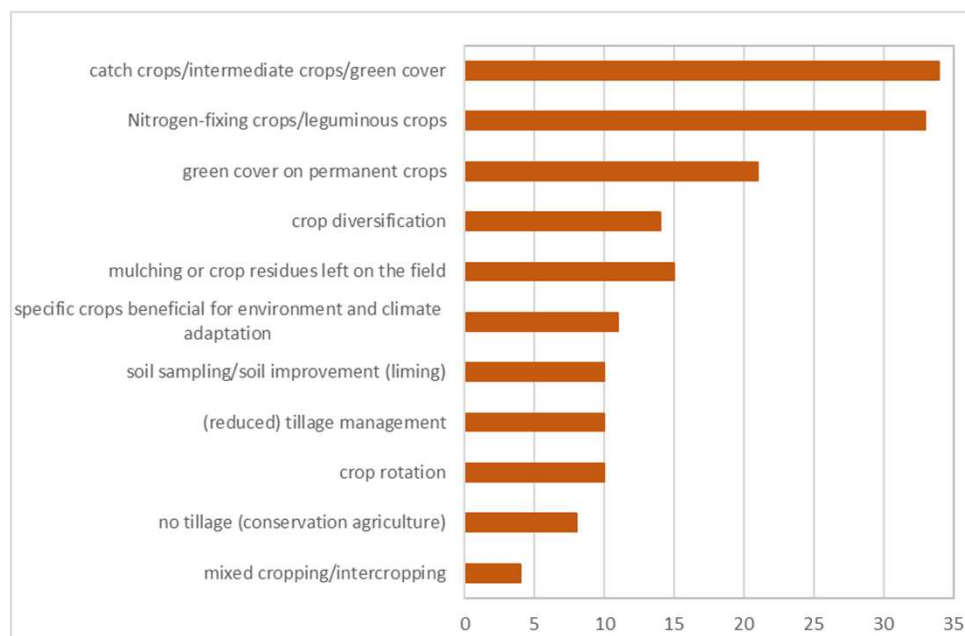
*Number of practices under eco-schemes with relevance to nutrient management*



# Eco-schemes

- Actions to increase **soil health** and natural fertility help reducing N inputs
- **R.19**: 47% of total UAA (76,7 million ha) (ES and AECC)
- 18 CSP include one or several schemes on **cover/catch crops**
- 18 CSP promote the cultivation of **leguminous** crops
- 9 CSP support both catch crops and leguminous
- 7 CSP support **enhanced crop rotation**
- 12 CSP support **crop diversification**
- 6 CSP support **soil sampling**

*Number of practices under eco-schemes with relevance to soil management at EU level*



CSP	Precision agriculture	Ban on mineral fertiliser use	Nutrient management plan	Use of organic fertilisation - manure/slurry/straw	Use of organic fertilisation - compost	Use of organic fertilisation - sludge	Other fertiliser management application and storage	Crop rotation	Crop diversification	Catch crops/intermediate crops/green cover	Specific crops for environment/climate adaptation	Nitrogen-fixing crops/leguminous crops	Mixed cropping/intercropping	Tillage management (reduced)	No tillage (conservation agriculture)	Green cover on permanent crops	Mulching or crop residues left on the field	Other measures to combat erosion	Soil sampling/improvement (liming)
AT																			
BE-FL																			
BE-W																			
BG																			
CY																			
CZ																			
DE																			
DK																			
EE																			
EL																			
ES																			
FI																			
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SI																			
SK																			

# Eco-schemes – MS overview

# AECC

- All CSP (except DK) have set out interventions and actions enabling a **balanced fertilisation** and better practices to **reduce nutrient losses**
- 24 CSP have set out national/regional AECC promoting the **non-use of synthetic fertiliser** (all land uses)
- 14 CSP foresee **limiting fertilisers' applications and other practices** (shorten application periods, data recording)
- 9 CSP support **organic fertilization**
- **WFD payments** (Art.72) implemented in 5 CSP : AT, DK, ES (region Aragon), IT (Veneto, Tuscany), LU

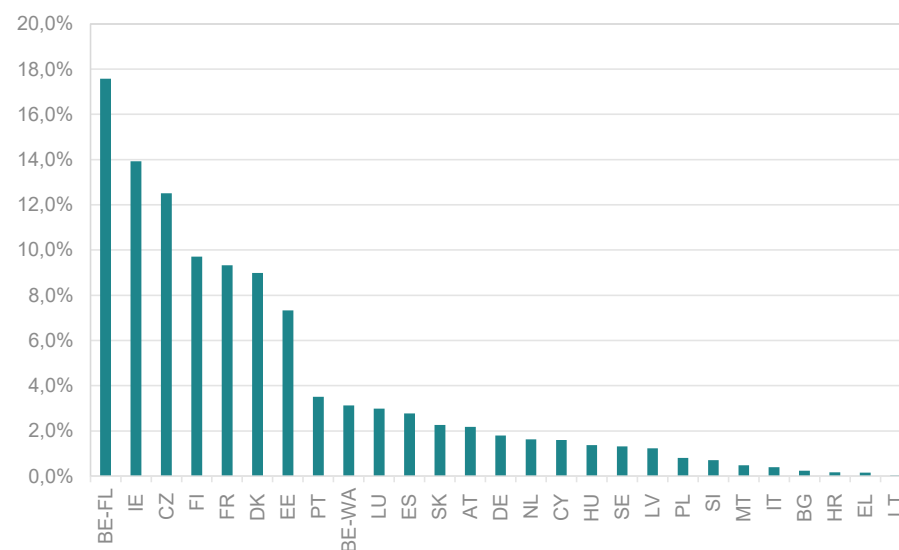
*Main practices supported by AECC interventions related to fertilisation (organic farming not included)*

	Integrated production	Ban on mineral fertiliser	Limitation in quantity / timing of utilisation	Nutrient management plan	Organic fertilisation - manure, slurry, straw	Organic fertilisation compost	Organic fertilisation sludge	Other fertilisers management and storage	Ph control
AT		x	x					x	
BE.FL		x							
BE.WA		x			x				
BG		x							
CY			x						
CZ		x	x		x				
DE		x	x		x				
DK									
EE		x							
EL		x							
ES	x	x	x		x		x	x	x
FI		x			x			x	
FR		x	x		x		x		
HR		x							
HU		x							
IE								x	
IT	x	x	x		x		x	x	
LT		x							
LU		x	x				x	x	
LV		x	x						
MT		x						x	
NL			x						
PL		x	x						
PT		x							
RO		x	x						
SE		x							
SI		x	x						
SK		x	x		x				

# Investments

- R.26 – 1,5% farms at EU level, wide scope
- All 28 CSP include **support for investments** to improve nutrient management
- improving **farm buildings** (low-emission buildings and filter efficiency installations in animal husbandry)
- **equipment** for ground-level manure application and slurry separation
- improved equipment for the application of fertilisers, including precision farming equipment
- **manure collection systems**, digital tools and software

*Target values for R.26 (investments natural resources)*



# Summary



- Actions to improve **nutrient management** will be carried out on **15,2%** of EU agricultural area, different national targets
- The 28 CSP include **122 area-based interventions** relevant to improving nutrient management: 58 eco-schemes and 64 AECC, though the degree of targeting varies
- Practices to improve **soil quality** also contribute to reduce fertiliser input and nutrient losses and will be carried out on **47%** of total UAA (76,7 million ha)
- These are complemented by actions within sectoral programs, **investments**, training, advice and cooperation activities
- Different **tool mix** in MS to address fertilisation including specific legislation and other measures outside the CAP

# Thank you



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