

# Agriculture incarboneutra Europe

# - opportunities for climate initiatives

## 7 November 2019 Simon Kay

#### Directorate eneral for Climate Action Europeacommission



ec.europa.eu/ clima/



facebook.com/ EUClimateAction twitter.com/ EUClimateAction



pinterest.com/ EUClimateAction



youtube.com/ EUClimateAction



Ac co rd

# ★ The context: climate neutrality by 2050

# **\*** Policies

- ★ Land Use, Land Use Change and Forestry
- ★ Examples of planned actions in Member States
- ★ Common Agricultural Policy and climate
- ★ Carbon Farming
- ★ LIFE



# **Paris Agreement Ambition**

# **Global goals**

# Mitigation (reducing emissions)

- Balance between emissions and removals of greenhouse by the2<sup>nd</sup><sup>1</sup>/<sub>2</sub> of thiscentury



PARIS2015 UN CLIMATE CHANGE CONFERENCE COP21.CMP11

# **\***Adaptation

• Enhancing adaptive capacity, strengthening resilience and reducing vulnerability to climate change



INTERGOVERNMENTAL PANEL ON CLIMATE CHARGE

#### **Climate Change and Land**

An IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems

Summary for Policymakers







#### **CORRIERE DELLA SERA**

IL RAPPORTO

#### Allarme Onu, il riscaldamento globale aumenterà fame e migrazioni

Il nuovo studio suggerisce anche di diminuire il consumo di carne e latticini. Coldiretti: danni per 14 miliardi all'agricoltura italiana nell'ultimo decennio

Climate crisis reducing land's ability to

sustain humanity, says IPCC

restoration is urgent

fix it

UN report finds ecosystems never before under such threat and

How climate's impact on land threatens civilisation - and how to

# Le Monde

#### Un rapport spécial du GIEC : l'humanité épuise les terres

Les experts de l'ONU avertissent sur la surexploitation des ressources, qui menace la sécurité alimentaire, appauvrit la biodiversité et amplifie les émissions.

Par Pierre Le Hir 🔸 Publié le 08 août 2019 à 10h00 - Mis à jour le 09 août 2019 à 16h21

### The New York Times

Climate Change Threatens the World's Food Supply, United Nations Warns

https://www.ipcc.ch/srccl-report-download-page/

Climate Action





### Communication "A Clean Planet for All" (Long Term Strategy) (Nov 2018)

25 pages https://europa.eu/!uJ83HG





# Our Vision for a Clean Planet by 2050

- ★ Commission vision for ELtermostrategy: climate-neutral EU by 2050 net zero GHG emissions)
- ★ Substantial transformationsenergsystem, buildings, transport, industriculture
- ★ A number pathwayschallengingbut feasiblefromtechnologicælconomic, environmental and speciespective









### Ursula von dekeyen

President-elect

#### FransTimmermans

First Vice-President Executive Vice-President-designate for the European Green Deal

> Climate Action



My agenda for Europe

By candidate for President of the European Commission Ursula von der Leyen



POLITICAL GUIDELINES FOR THE NEXT EUROPEAN COMMISSION 2019-2024



# The European Green Deal

#### Europe to become climate -neutral by 2050

- Proposal within the first 100 days in office, including first European Climate Law
- Extension of the ETS
- Border Carbon Tax
- Just Transition Fund
- Strategy for green financing and a Sustainable Europe Investment Plan
- Parts of the EIB become EU's climate bank
- IncreaseEU's target for 2030 to 50%, if possible to 5%

**Environment** (BiodiversityStrategy, sustainable food policy, zepollution ambition, circular Economy ActionPlan, singleuse plastics and micro-plastics)



# Vision 2050 Aclimate-neutral EU



# Agri contribution to climate policies



**REDUCE GHG ENHANCE** carbo **PROMOTE** the ADAPT to climate change emissions removals bioeconomy Afforestation Water retention Precision farming Biofeedstockfor industry and powe Choice of resilient c Limit deforestation Breeding sectors Nitrification inhibito Enhance forest car Enhance soil quali Advanced biofuels sink Agreforestry Anaerobidigestors Substituting buildir Sustainable soil Energy efficiency materials management Wetland manageme **EU** Adaptation Land Use, Land Use **Emission Trading** Effort Sharing Change an **B**orestry Strategy (substitutioneffect) **EUGovernanc**Regulation EU Climatéramework





# National targets,Regs(EU)2018/842 and 2018/841

IncludingonCO2 agriculture, transposte buildings, land



- Every Member State has an emission reduction target by 2030
- The allocation of the targets is proportional to CDP
- Member State can achieve part of these targets with credits generated in the land (LULUCF) sector
- Countries with a larger agricultural sector can use more LULUCF credits to comply with Effort Sharing targets



# Land Use, Land Use Change and Forestry

- LULUCF includes all impacts on GHG of h management of vegetation and soils
  - \* cropland, grassland, forests, wetlands
- ★ Both emissions and removals
- IULUCF today is approx. 10% removal of the EU's total CHG budget
- The forest sink, however, is projected to decline in some Member States and the EU
- ★ Additional effort can maintain these removals





The climate and air proposal "Together for a greener future"

#### An efficient and modern agricultural sector

- C20) Less ammonia in the air.
- C21) Improvement of biogas plants.
- C22) Air- and climate-friendly technology in pig farms.
- C23) Stronger research efforts in agriculture.
- C24) Promotion of precision agriculture.
- C25) Land distribution fund focused on environment, climate and nature.
- C26) Partnership with the agricultural sector.

### Plans in Member States *Examples*



- · Precise mineral fertilizer use
- · Direct application of organic fertilizers in soil
- · Liquid manure separation
- Feed Dosage Planning
- Improving nutritional quality
- · Maintenance of melioration systems
- Fertilizer Planning
- · Promotion of biogas production
- Nitrogen removal
- · Reconstruction and restoration of land amelioration systems in arable land
- Improving the sustainability and ecological value of forest ecosystems
- · Restoring forest stands destroyed by natural disasters
- Creation of new orchards
- · Reconstruction and restoration of land amelioration systems in arable land
- Pasture in winter sowing
- · Introduction of leguminous crops in conventional crop rotation ...



#### Figura 1.1. Emisiones CO2 equivalente por sector. Histórico y proyección a 2030 (kt)





# The Common Agricultural Policy

- ★ New proposal (June 2018) in negotiation
- Proposed bud@et5B EUR over 2-0221(~28.5% of E budget)
- ★ Ofwhich40%=> tounderpiplimateobjectives



Evolution of main policy areas in the EU budget



\*Adjusted for 1995 enlargement



#### LINKS TO NON-CAP LEGISLATION ON THE ENVIRONMENT AND CLIMATE

- Link in CAP rules to EU legislation on:
  - water, air, biodiversity
  - climate change, energy
  - pesticides
- MS' CAP plans must:
  - take account of analysis, targets from the relevant action plans etc.
  - make an appropriate contribution to achieving those targets



### CONDITIONALITY

#### GAEC 5 - Use of Farm Sustainability Tool (FaST) Tool for Nutrients

- Win-win solution beyond compliance model
- Ensure higher environmental protection while fostering economic benefits
- Improve farmers digital skills
- Promote the development/adoption of new on-farm technology-based solutions
- Allows simplification of the farmer's tasks and compliance



European Commission

#### PILLAR I "ECO-SCHEMES"

- Payment schemes for care for environment and climate (without cofinancing)
- Environmental "top-ups" to basic income support; or compensation payments based on costs incurred, income foregone

European Commissio

- Mandatory for MS, voluntary for farmers
- Can be useful to design targeted schemes to specific needs related to climate, MS will define the content
- Annual payments



Pillar II – with co-financing by MS

For farmers and other land managers

Payment per hectares, land concerned can also not be eligible for direct payments

Participation voluntary for farmers and other potential benificiaries

Multi-annual contracts (usually of 5-7 years)

 Bing-fencing of total EAFRD contribution: committments concerned
30% for interventions addressing the 3 environmental/ climate objectives

> European Commission



# **Carbon Farming Schemes**

Under a resultbasedCAP MS can design direct incentives to climate action

- ★ E.g. "carbon farming" payments for carbon sequestration
- Climate action can become a new source of if a monees for Ongoing activities in DG CLIMA
- ★ Study to create guidelines on EU Carbon Farming
- ★ LIFE Ca(llinder award processa) foreparatory projectCarbon Farming



# LIFE programme 2022027

- ★ Proposebudgetof €5,45 billion, divide into two fields:
  - ★ Environmentvith 2subprogrammes
    - ★ Nature and Biodiver€22y1(5bn)
    - ★ Circular Economy and Qoufallitie(€1,35bn)
  - ★ Climate Actionwith 2 sulprogrammes
    - ★ Climat€hange Mitigation and Adaptationb(€)0,95
    - ★ Clean Energy Transitiobn)€1
- ★ Building on previous LIFE programmes, more focus on strategic projects
- ★ National contact points guidance on formulating applications





# Examples of LIFE projects (mitigation)

Projects can contribute to thewideradoption of\*:



\* Norexhaustiviests

- ★ Conservation agriculture
- ★ Agro-forestry
- ★ Wetland management (e.g. peatland restoration)
- ★ Sustainable forest management
- Enhanced soil carbon management
- Carbon accounting tools
- Local 'Carbon Farming' schemes (carbon credit markets)
- Improved monitoring of carbon emissions and removals

- Replacement of fossil-based materials with bio-based materials
- ★ Bio-based circular economy
- Improved nutrient management and nitrogen fixing
- ★ Better livestock management (feeding, breeding..)
- ★ Better manure management



The Green Link

LIFE AgroClimaWater 15 % water saved on olive and

90 % tree survivalrate

citrus farms

# Examples of LIFE projects (adaptation)

Read

gree





# Thankyoufor your attention



ec.europa.eu/ clima/



facebook.com/ EUClimateAction



twitter.com/ EUClimateAction



pinterest.com/ EUClimateAction



youtube.com/ EUClimateAction