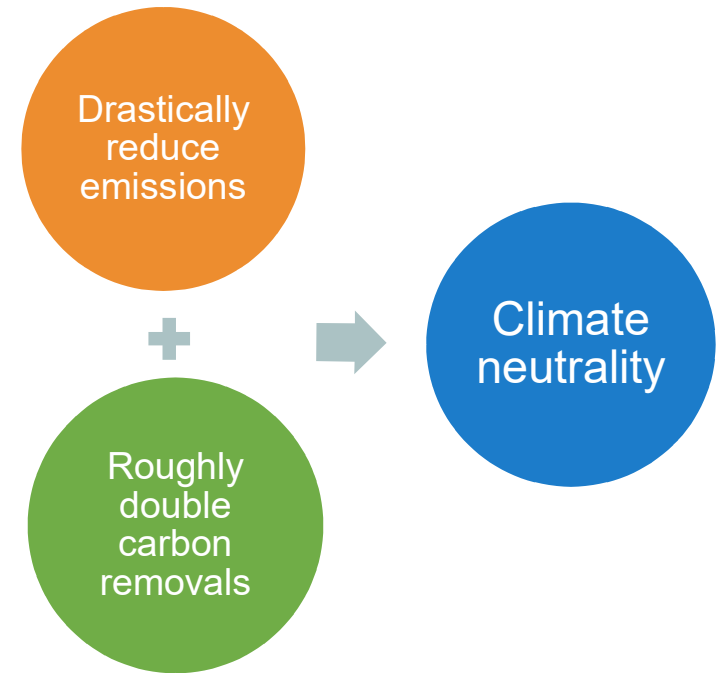
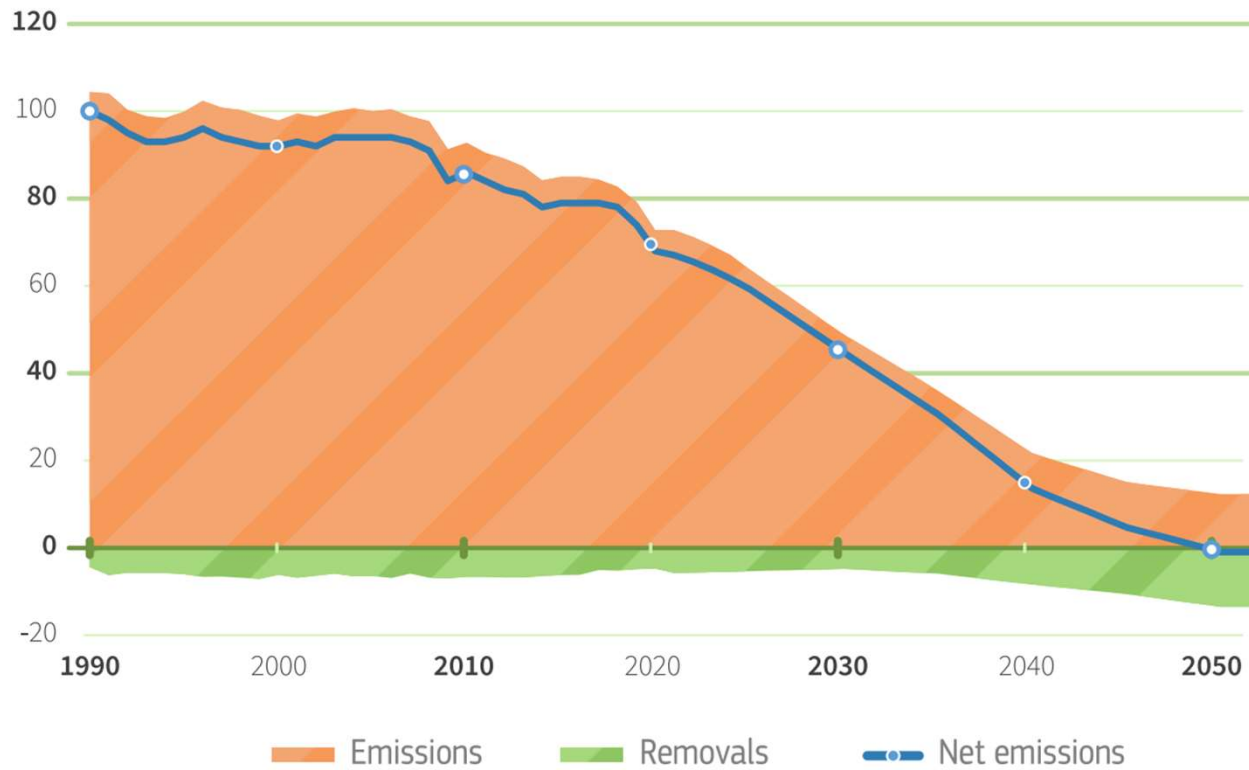




# Commission proposal for a Carbon Removals Certification (CRC) Regulation

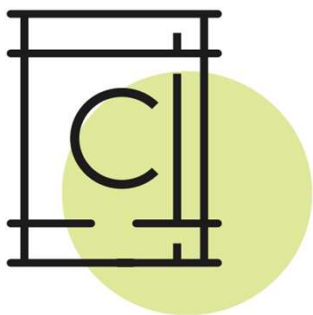
*Giulio Volpi, European Commission, DG CLIMA  
Unit C3: Land economy and carbon removals*

# Towards climate neutrality



GHG projections for climate neutrality  
1990 GHG emissions = 100  
Source: EU 2030 Climate Target Plan

# Carbon removal activities



## PERMANENT STORAGE

*E.g. Bioenergy with Carbon Capture and Storage (BECCS), Direct Air Carbon Capture and Storage (DACCS)*

***Industrial leadership for climate-neutral technologies***

*At least 5 MtCO<sub>2</sub> removed in 2030, and up to 200 MtCO<sub>2</sub> in 2050*

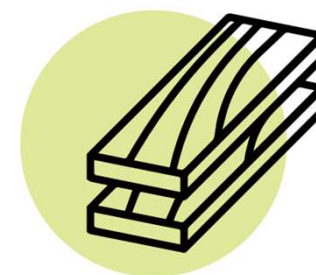


## CARBON FARMING

*Soil and forest activities in the scope of the LULUCF Regulation, including: Peatland restoration, agroforestry, sustainable forest management, soil carbon sequestration,*

***Strong synergies with biodiversity***

*Contribute to LULUCF target of -310 MtCO<sub>2</sub> removals in 2030 and climate-positive bio-economy in 2050*



## CARBON STORAGE IN LONG-LASTING PRODUCTS

*E.g. wood-based construction materials and other carbon-storing construction products*

***New European Bauhaus***

# Starting up carbon farming

## Benefits



Increased carbon removals



Additional income for land managers

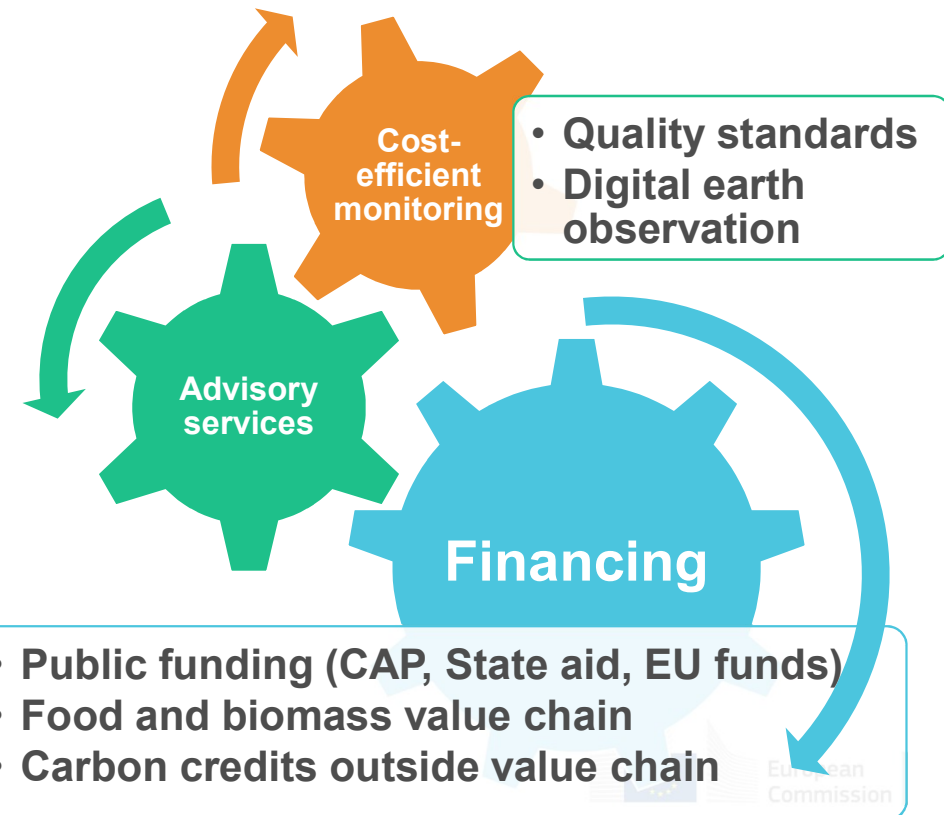


More biodiversity and nature



Increased climate resilience of farm and forest land

## Challenges



# Starting up industrial carbon removals

## Permanent storage



**Bioenergy with carbon capture and storage** e.g. Stockholm Exergi's project financed by Innovation Fund



**Direct air capture and storage**

## Storage in long-lasting products



**Use of long-lasting wood-based construction products and other carbon-storing building materials**

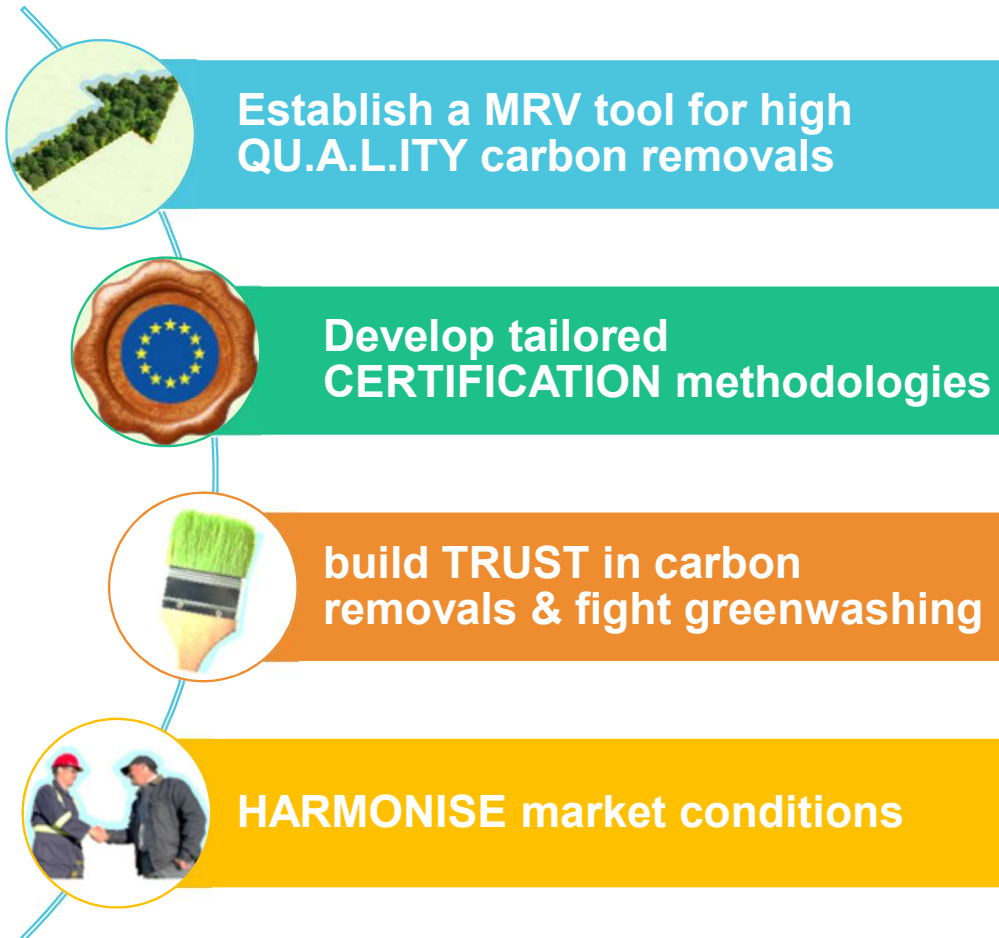
**Challenges**

First-of-a-kind projects

Sustainable sourcing of feedstock and energy

Public-private financing

# Objectives of the CRC proposal



## *CRC Regulation Proposal*

### **Art. 1-3: General provisions**

- 1: Scope
- 2: Definitions
- 3: Eligibility

### **Art. 4-8: Quality criteria**

- 4: Quantification
- 5: Additionality
- 6: Long-term storage
- 7: Sustainability
- 8: Certification methodologies

### **Art. 9-14: Certification rules**

- 9: Certification of compliance
- 10: Operation of certification bodies
- 11: Operation of certification schemes
- 12: Registries
- 13: Recognition by the Commission
- 14: Reporting

### **Art. 15-18: Final provisions**

- Annex 1: content of certification methodologies
- Annex 2: content of certificates

# QU.A.L.I.TY criteria for all carbon removals



## QUANTIFICATION

- Carbon removals are measured against a standardised baseline
- Taking account of supply chain emissions
- Based on international standards like GHG Protocol



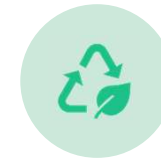
## ADDITIONALITY

- Carbon removal activities must go beyond:
  - ✓ standard market practices and
  - ✓ legal obligations of the individual operator
- Highly representative standardised baseline preferred – if sufficient data available. Otherwise project-specific baseline



## LONG-TERM STORAGE

- Certificates clearly account for duration of carbon storage
- Rules for permanent storage building on the CCS Directive
- Temporary carbon removal units for carbon farming/storage in products expire at the end of the monitoring period



## SUSTAINABILITY

- Carbon removal activities shall not harm the environment or generate co-benefits
- Certification methodologies to set minimum sustainability requirements and methods to assess co-benefits

# Rules on verification and certification



## THIRD-PARTY VERIFICATION

- Requirement for verification of carbon removals by independent auditors
- Simplification for smaller farmers and foresters ('group of operators')



## RELIABLE CERTIFICATION SCHEMES

- Implementation/control of compliance through (public or private) certification schemes
- Certification schemes have to be recognised by the Commission against minimum governance standards



## PUBLIC REGISTRIES OF CARBON REMOVALS

- Carbon removal units are recorded in certification registries to avoid double-counting
- Requirements for inter-operability of certification registries



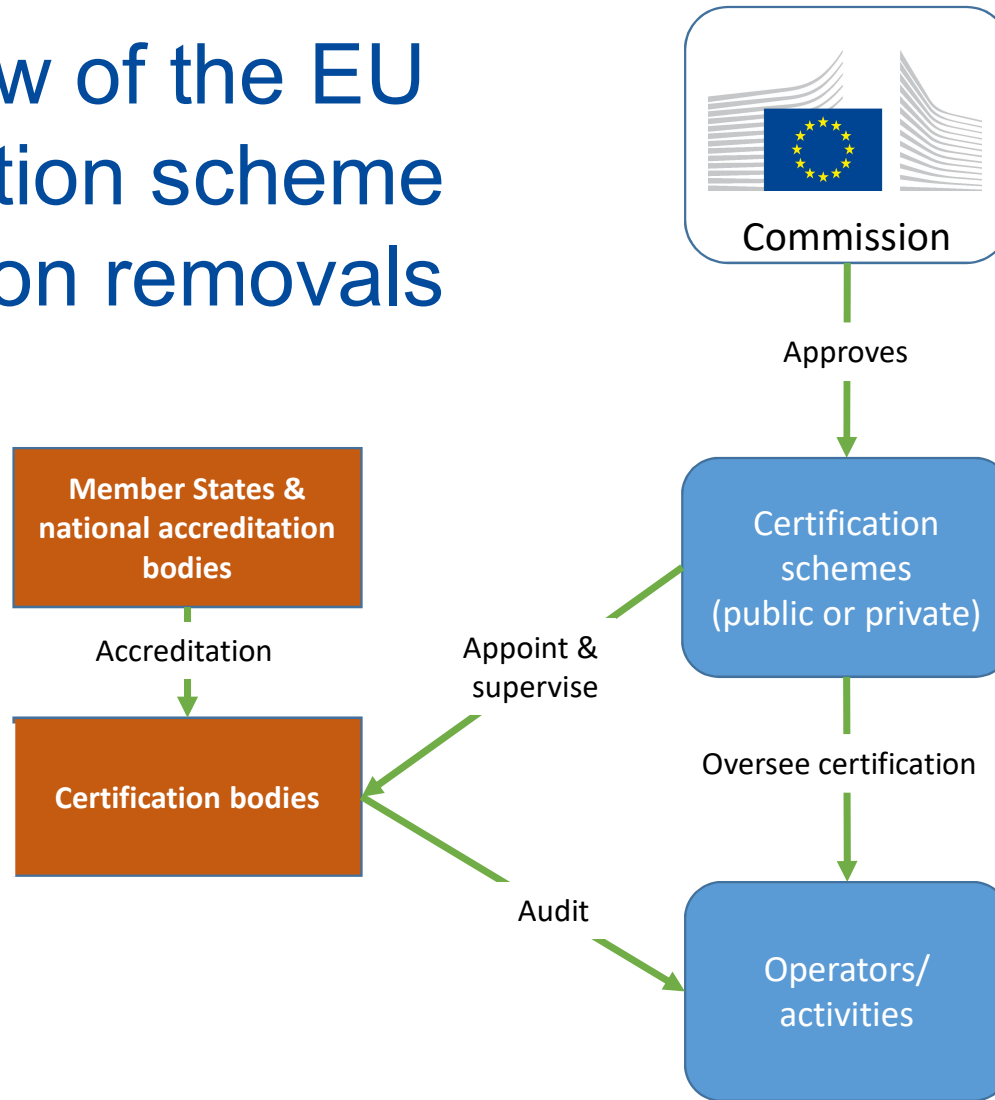
*Certificates will provide detailed information on carbon removals, e.g.:*

- *Type of carbon removal activity, amount of carbon removal units generated*
- *Duration and expiry date of the carbon removal units*
- *Sustainability requirements and co-benefits*



# Overview of the EU certification scheme for carbon removals

- Accredit & control **certification bodies**
- Carry out certification **audits**
- Issue **certificates** of compliance



- Develops tailored **certification methodologies** through delegated acts, supported by expert group
- Recognises **certification schemes** (e.g. public or private entities tasked to implement/control the certification process)

- Manage the **scheme** (including internal monitoring)
- Appoint, train and supervise **certification bodies**
- Register **activities**
- Control certification **audits** and **certificates** of compliance
- Issue carbon removal **units**
- Manages public **registries**

- Apply for certification
- Monitor and report compliance with the quality criteria through the relevant certification methodologies

# Towards a EU carbon removals policy post-2030

## Climate Law

- Proposal of 2040 target  
(*GST = Global Stock Take*)

GST + 6  
months



## Permanent storage

- Assess inclusion of permanent storage in ETS  
(*Art. 30 new ETS Directive*)

By 2026



## Carbon farming

- Assess regulatory options to ensure that land is well on track for climate neutrality  
(*Art 17(2) new LULUCF Reg*)

By 2025



CRC + 1y



2023-24



## Carbon storage products

- Assess their inclusion in scope of LULUCF Regulation  
(*Art 17(3) new LULUCF Reg*)

## Corporate targets & claims

- EU Sustainability Reporting Standards
- Green Claims initiative

## More information:

- CRC Proposal: [https://climate.ec.europa.eu/document/fad4a049-ff98-476f-b626-b46c6afdded3\\_en](https://climate.ec.europa.eu/document/fad4a049-ff98-476f-b626-b46c6afdded3_en)
- Impact Assessment: [https://climate.ec.europa.eu/document/ab53e63b-4b85-4d28-ac67-6bd742506bae\\_en](https://climate.ec.europa.eu/document/ab53e63b-4b85-4d28-ac67-6bd742506bae_en)
- Press release: [Commission proposes certification of carbon removals \(europa.eu\)](https://europa.eu/presscorner/detail/en/ipr190001)
- Q&A: [https://ec.europa.eu/commission/presscorner/detail/en/qanda\\_22\\_7159](https://ec.europa.eu/commission/presscorner/detail/en/qanda_22_7159)
- Expert Group on Carbon Removals: [https://climate.ec.europa.eu/eu-action/sustainable-carbon-cycles/expert-group-carbon-removals\\_en](https://climate.ec.europa.eu/eu-action/sustainable-carbon-cycles/expert-group-carbon-removals_en)