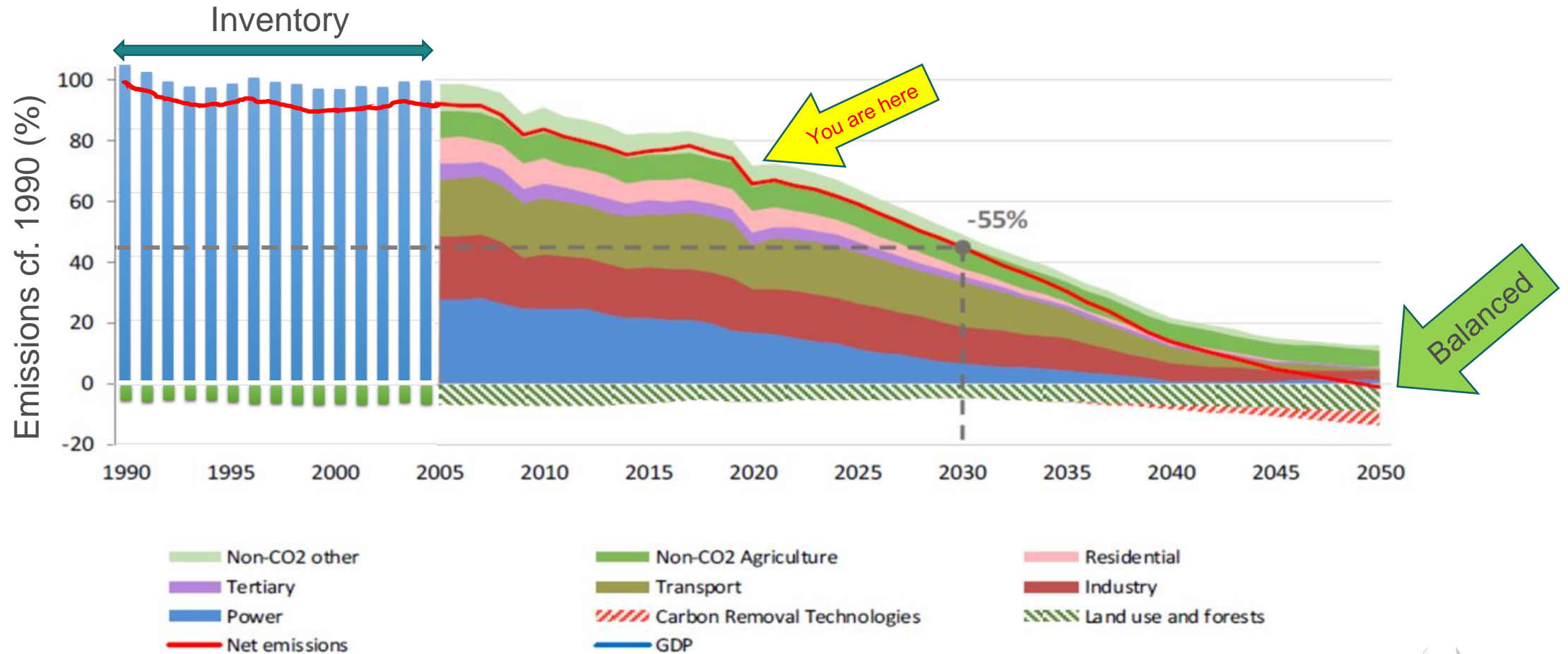




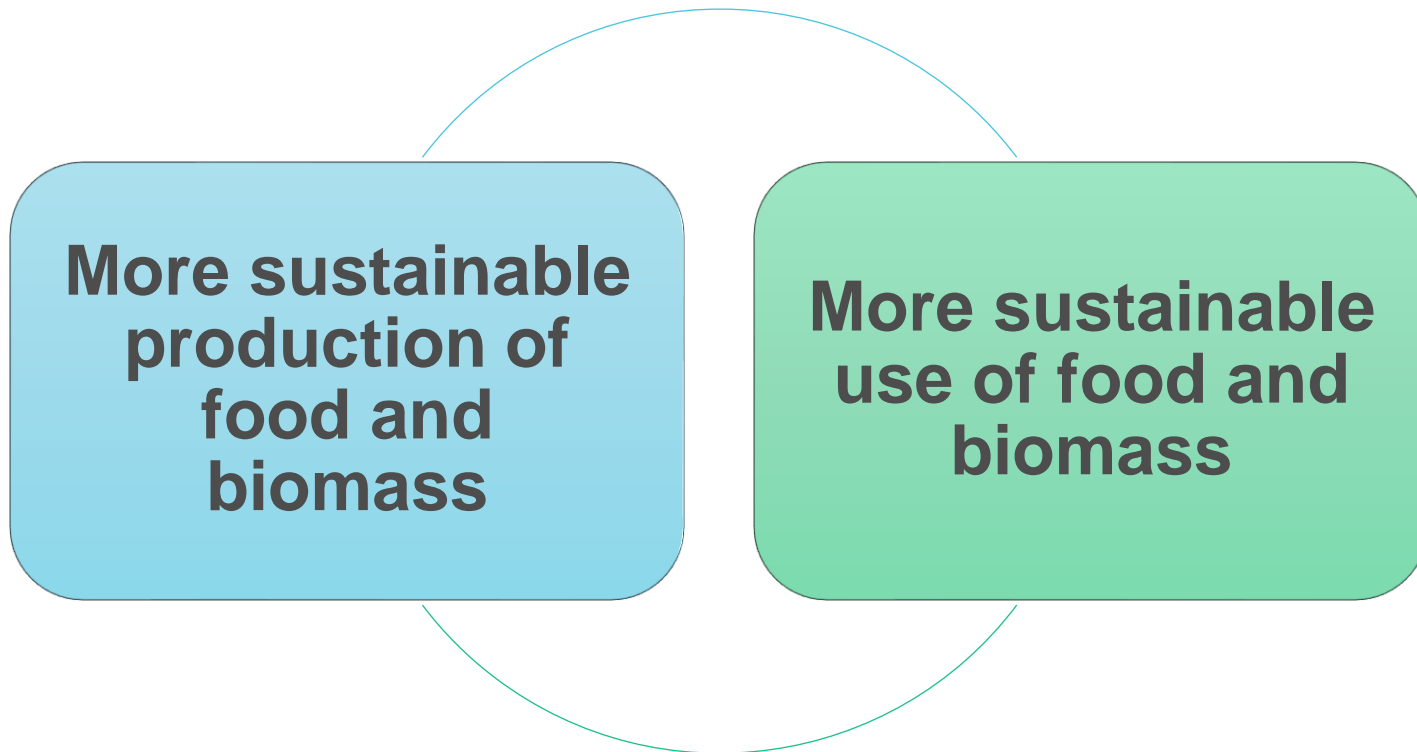
# Land economy and carbon removals

*21 June 2022*

# Pathway to climate neutrality



# Sustainable Carbon Cycles



- Bioenergy with carbon capture and storage (BECCS)
- Fibre crops for bio-plastics, packaging, clothes
- Wood-based construction products

# Land economy and carbon removals

## LULUCF proposal

- Co-decision procedure to be closed

## Certification of carbon removals

- Commission proposal Q4 2022

## Forest monitoring

- Commission proposal Q2 2023

## CAP Strategic Plans

- Evaluation Q3 2022

## Study on polluters-pay principle

- Until end 2023

# Better monitoring and reporting

	<b>Tier 3</b> High res. data (e.g. model)	Not applicable	Modelled data combined with LUC matrix (not necessarily spatially dis-aggregated)	Geo-information at high-resolution, detailed time series, country-specific disaggregated data based on inventories and/or models
	<b>Tier 2</b> Country specific values	National area statistics, combined with country-specific values – typical 1 <sup>st</sup> improvement	Annual LUC stats, combined with country-specific values	Geo-information, time series, country specific values – good coverage, detailed analysis
	<b>Tier 1</b> IPCC default values	National area statistics, combined with IPCC default values – basic entry level	Annual (or annualised) LUC stats presented as national matrix – applied using default IPCC values	Geo-information, time series, default values – weak, but better than App 1 and 2
		<b>Approach 1</b> National statistics	<b>Approach 2</b> Land Use Change matrix	<b>Approach 3</b> Geo-tracked

Improved Coverage and Representation

# Carbon farming



A **green business model** rewarding land managers for improved land management practices, resulting in carbon sequestration in ecosystems and reducing the release of carbon to the atmosphere.

## Benefits of carbon farming:



Increased carbon removals



Additional income for land managers



More biodiversity and nature



Increased climate resilience of farm and forest land

# Upscaling carbon farming

Private revenues and public support

Private markets

Common Agricultural Policy

Horizon Europe, LIFE, cohesion funds

State aid

Transparent rules for high-quality carbon credits

Common standards

Monitoring, reporting and verification

Advisory services

Simplicity for land managers

# Sustainable bioeconomy - examples



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



**Fibre crops** (applications: clothes, cosmetics, particle boards, bio-composites, bio-plastics...)



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



# A regulatory framework for the voluntary certification of carbon removals

## Set robust certification requirements

- Quantification and monitoring
- Additionality
- Long-term sequestration
- Environmental impacts
- Transparency

Establish an effective governance framework for effective, cost-efficient and transparent implementation

Rules applicable for carbon farming and industrial carbon removal projects

Conference on Sustainable Carbon Cycles – 31 January 2022

Call for evidence and open public consultation (closed 2 May 2022)

Impact assessment to be submitted in July

Legislative proposal (Q4 2022)

# Timeline

## Commission proposal for certification framework

**Commission proposal  
December 2022**

**Legislative process during  
2023**

**Expected entry into force  
by end 2023**

## Development of certification methodologies

**Call for experts  
June 2022**

**Expert group meetings and  
workshops as from autumn  
2022**

**First methodologies to be  
proposed as delegated acts  
early 2024**

# Expert group on carbon removals

## Who?

- Group of around 80 participants
- Independent experts (paid)
- Stakeholders
- Member States

## What?

- Support Commission to develop certification methods for industrial removals and carbon farming
- Subgroups for different carbon removal solutions (with additional experts)

## When?

- Launch of call for experts in June 2022
- First meeting autumn 2022
- Regular meetings as from 2023



# HORIZON-MISS-2022-SOIL-01-06

## SCOPE



- ✓ Build and coordinate a network of key stakeholders drawn from European research facilities, systems developers, solution providers, land advisors and managers and others, involved in soil and biomass programmes linked to carbon sequestration, in particular at the landscape scale level.
- ✓ Develop a platform for exchange of experiences, knowledge and support facilitating the development of result-based carbon farming schemes.
- ✓ Underpin the establishment of data collection networks (e.g. carbon flux measurements stations, ground sampling campaigns, etc.), promoting the practice of data sharing and standardisation, retrieval and aggregation of information.
- ✓ Identify gaps and opportunities at the landscape level in ecosystem monitoring and soil carbon flux mitigation practices.



## INDICATIVE BUDGET

3 mln EUR per project  
(and also in total)



## IMPORTANT!

Coordination and collaboration with other EU initiatives  
Multi-actor approach & co-creating process



# HORIZON-MISS-2022-SOIL-01-06



## POLICY CONTEXT

- ✓ EU Green Deal and its strategies in particular:
- ✓ EU Climate Law
- ✓ EU Regulation for Land Use, Forestry, and Agriculture (LULUCF) (2018/841 & 2021 revised proposal)
- ✓ Farm to Fork Strategy
- ✓ Communication on Sustainable Carbon Cycles
- ✓ Future EU regulatory framework for certification of carbon removals
- ✓ Circular Economy Action Plan



## EXPECTED OUTCOMES

- ✓ Support implementation of European Commission Communication on sustainable carbon cycles and carbon farming and the upcoming regulatory framework on carbon removals certification, contribute to the design and implementation of carbon-farming practices in Europe.
- ✓ Increase knowledge about carbon farming practices through networking and exchange of experiences.
- ✓ Enhance uptake and development of carbon farming standards.
- ✓ Increase capacities for measuring, monitoring and standardising carbon fluxes, in particular at landscape level through a robust network for data collections.

# Links

- Call for Evidence on Carbon Removal Certification [Certification of carbon removals – EU rules \(europa.eu\)](#)
- Conference on Sustainable Carbon Cycles, 31 January 2022 [Sustainable Carbon Cycles Conference - About \(b2match.io\)](#)
- Our [webpage](#) and our [press release](#) on the Sustainable Carbon Cycles communication
- Our webpage on [Carbon Farming \(europa.eu\)](#)
- Horizon call for “**Network on carbon farming for agricultural and forest soils**” (Coordination and Support Action) with an EU contribution of EUR 3.00 million. For more details, please see [here](#) the full text of the call.
- Commission list of potential eco-schemes <https://europa.eu/!yb74nC>
- Study on Carbon Farming: <https://data.europa.eu/doi/10.2834/594818>
- Study on Wood in construction: <https://dx.doi.org/10.2834/421958>
- Legislative proposal on a new Regulation for Land use, forestry, and agriculture [Delivering the European Green Deal | Climate Action \(europa.eu\)](#)