

# Exploring requirements for carbon farming to deliver on sustainability

- Focus Group 2.1 -

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EU carbon farming



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Appropriate nature-based Carbon Dioxide Removal solutions

Robust quantification and MRV to acceptable costs

Additionality and leakage effects to be addressed

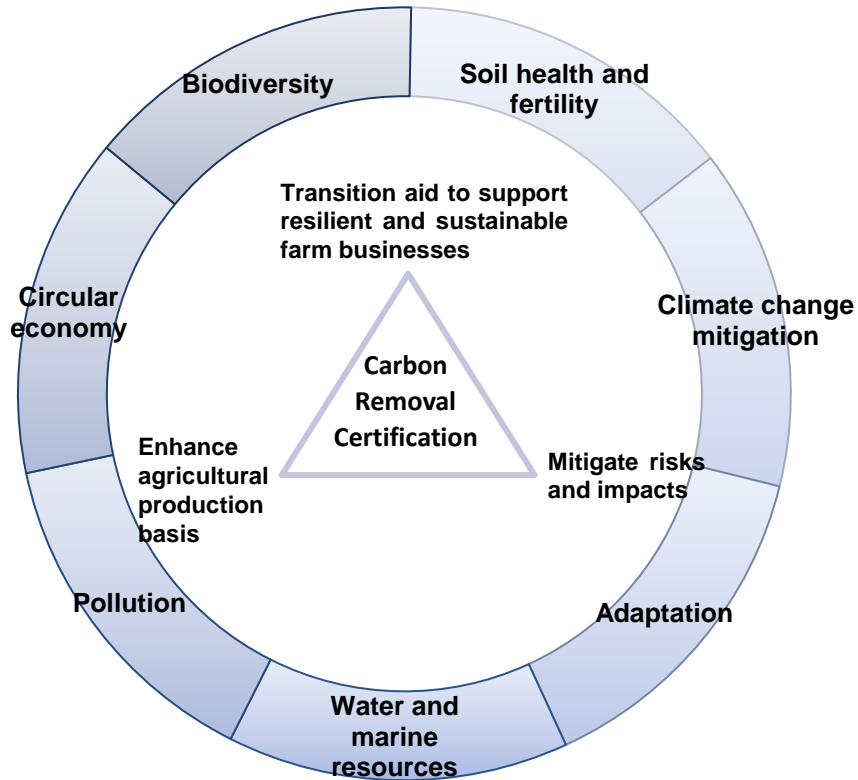
The most important economic resource of a carbon dioxide removal certificate is trust in the future!

Resilient and sustainable farm business model while sustaining food production

Enhancing the production basis of farms

Compliance with environmental and social objectives of the European Union

# Sustainability objectives



## Carbon Removal Certification as a tool:

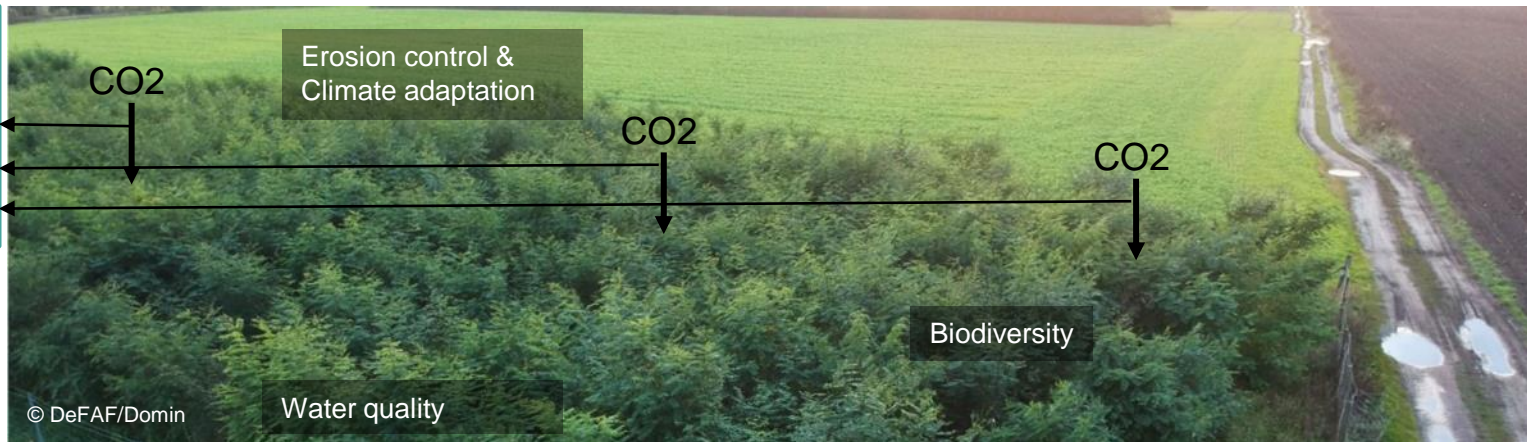
- To support and finance the transition of the agricultural sector towards resilient and sustainable farm business models
- Enhance the agricultural production basis
- Mitigate risks and impacts
- Delivering a wide range of sustainability objectives

# Agroforestry systems

Agroforestry system  
Southern Brandenburg  
7 ha  
9 different wood strips

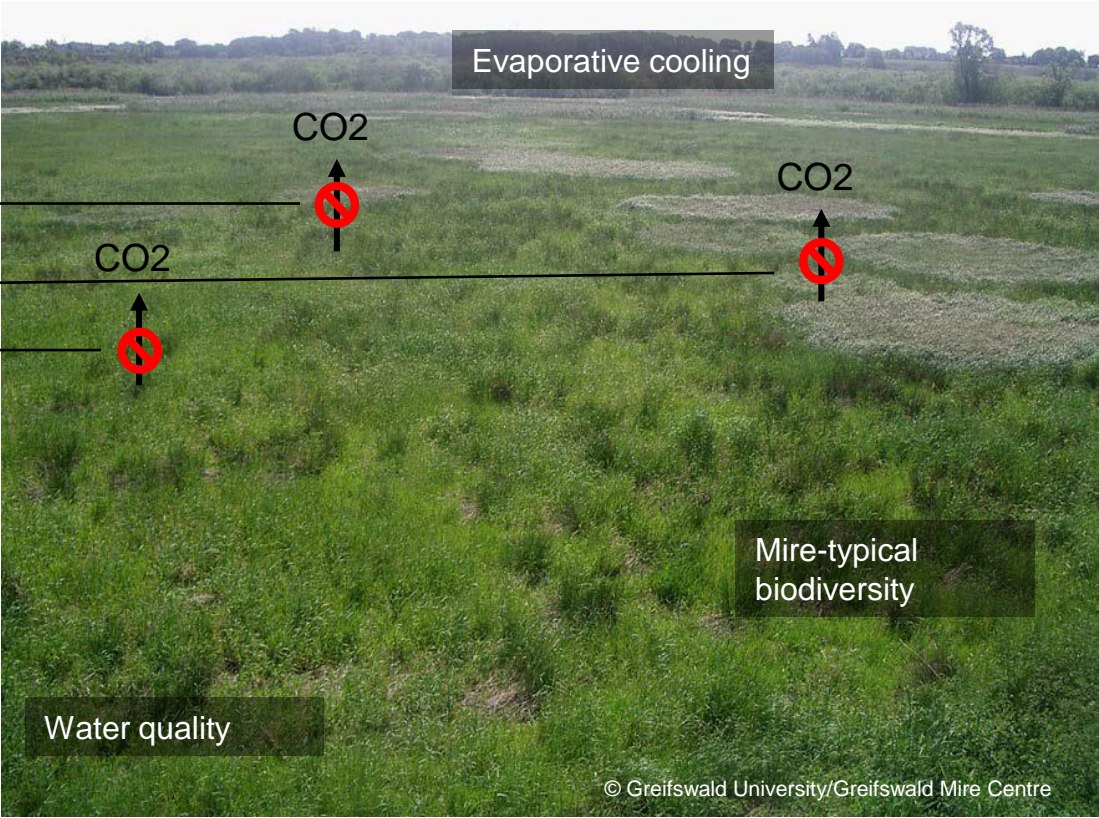
Carbon Farming  
Credit

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- Not accounting and rewarding ecosystem services a missed opportunity
- The isolation of climate services carries the risk of reducing the value of climate-friendly agricultural measure while neglecting or even damaging other ecosystem services

# Rewetting of wetlands & peatlands



Polder Randow-Rustow  
Rewetted 1999  
Partly mown/grazed

# Quantification of ecosystem services

Ecosystem services are highly dependent on the agricultural practice

Methodologies to quantify ecosystem services based on agricultural practices

1 **Quantifying ecosystem services of rewetted peatlands - the MoorFutures**

2 **methodologies**

3

4 Tanneberger, F.<sup>1,2</sup>, Berghöfer, A.<sup>2</sup>, Brust, K.<sup>3</sup>, Hammerich, J.<sup>4,5</sup> Holsten, B.<sup>7</sup>, Joosten, H.<sup>1</sup>,

5 Michaelis, D.<sup>1</sup>, Moritz, F.<sup>1</sup>, Reichelt, F.<sup>6</sup>, Schäfer, A.<sup>1,6</sup>, Scheid, A.<sup>8</sup>, Trepl, M.<sup>7</sup>, Wahren, A.<sup>3</sup>

6 & Couwenberg, J.<sup>1,6</sup>

Tanneberger et al. (in revision) Ecological Indicators

Rewetted polder  
Kieve (NE-  
Germany)

Standard and  
premium approach

| ESS   | Baseline pa               | After 5 years              |
|---|---------------------------|----------------------------|
| Greenhouse gas Emission Site Type (GEST)    | 1,306 t CO <sub>2</sub> e | 543 t CO <sub>2</sub> e pa |
| Nitrogen Emission Site Types (NEST)         | 1,088 kg N                | 309 kg N pa                |
| Evapotranspiration Energy Site Types (EEST) | 6,691 kW                  | 2,250 kW pa                |
| Mire-specific biodiversity                  | Low                       | low                        |

# Hypothesis

Sustainability standards are essential to correct and create trusted carbon markets raising new funds for the transition of the agricultural sector towards resilient and sustainable business models.

Sustainability standards increase the interest of investors to invest into carbon markets certificates.

Ecosystem services are highly interwoven and need to be recognized, quantified and rewarded.

The isolation of climate services carries the risk of reducing the value of climate-friendly agricultural measure while neglecting or even damaging other ecosystem services.

# Outcomes of focus group 9

## Organization

- 14 Focus group members
- 2x Focus group meetings
- Draft background note

## Focus question

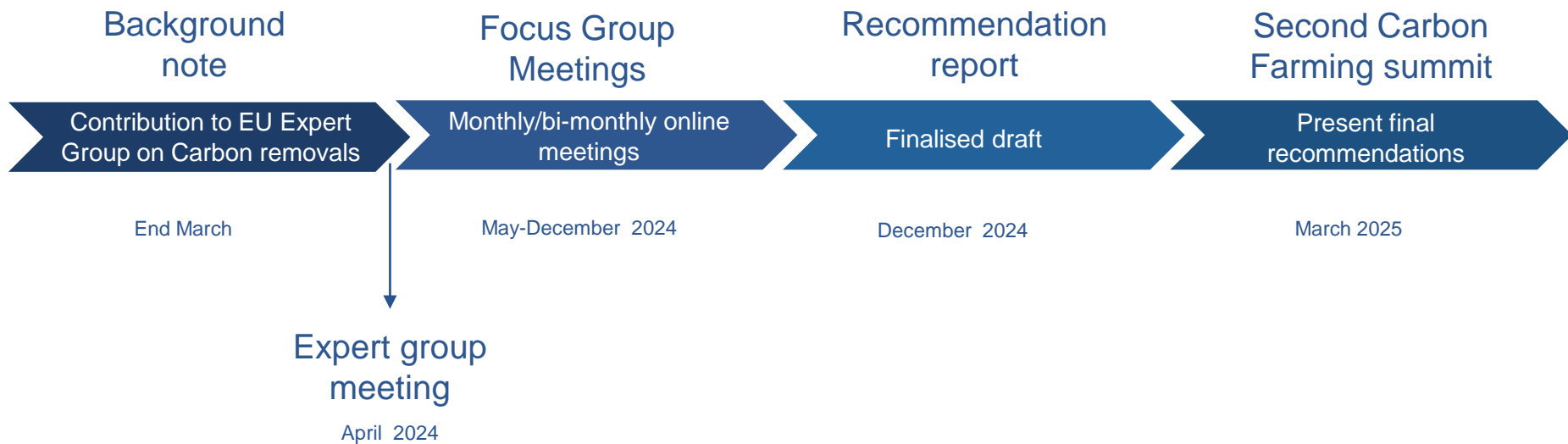
How should carbon farming certification standards promote sustainability outcomes?

## Discussions

- **Sustainability frameworks:** What are suitable and existing frameworks on sustainability that the CRCF can make use of?
- **Sustainability approaches:** What are potential approaches to ensure sustainability outcomes through carbon removal certification?
- **Implementation:** How to implement these approaches to ensure trusted carbon markets?
- **Sustainability indicators:** What are relevant indicators of sustainability?
- **Quantification of ecosystem services:** How to quantify ecosystem services?



# Timeline of the next steps



**Thank you**



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