

# MRV-netwerk

Samen werken aan de kennisbasis voor  
*monitoring, reporting en verification* in  
Vlaanderen

Discussieforum Carbon Farming, 6 november 2023, Brussel

# Toegang tot WiFi voor bezoekers



# Verloop van de werksessie

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- Kennismakingsronde
- MRV-netwerk: waarom?
- Wat loopt er al?
- Prioriteiten MRV-netwerk
- Organisatie MRV-netwerk
- Afsluitende conclusies

# Kennismakingsronde

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Ga naar

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Voer de code in

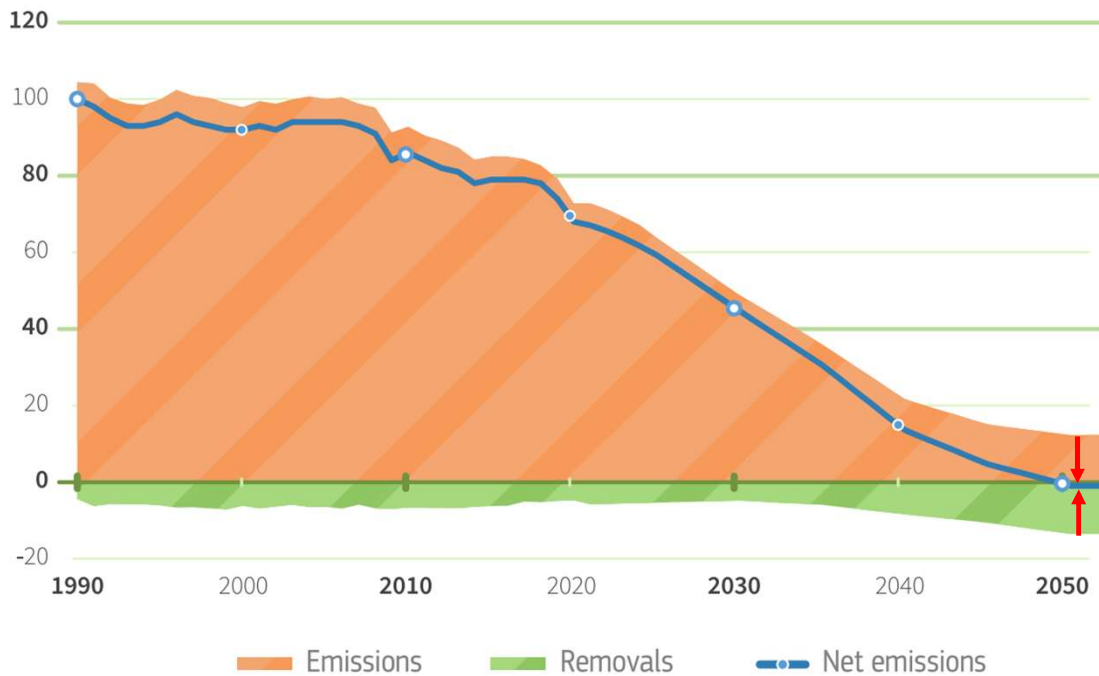
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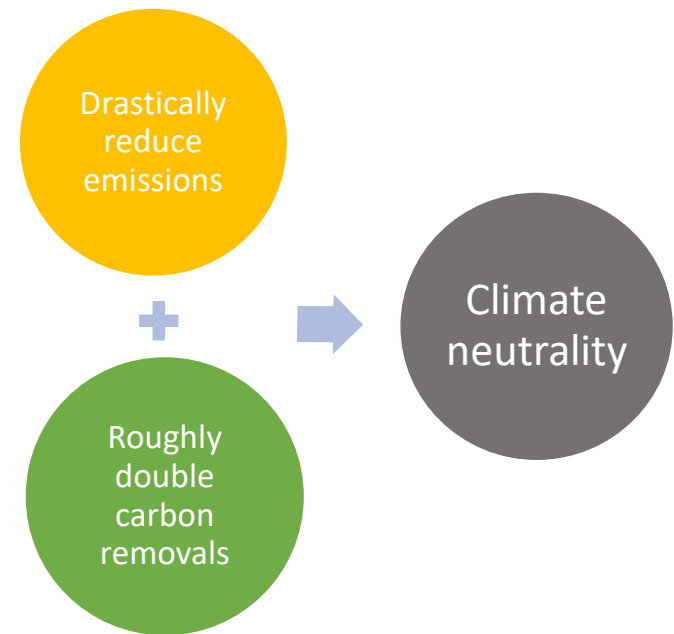
Of gebruik een QR code

# Waarom een MRV-netwerk?

## Climate neutrality target

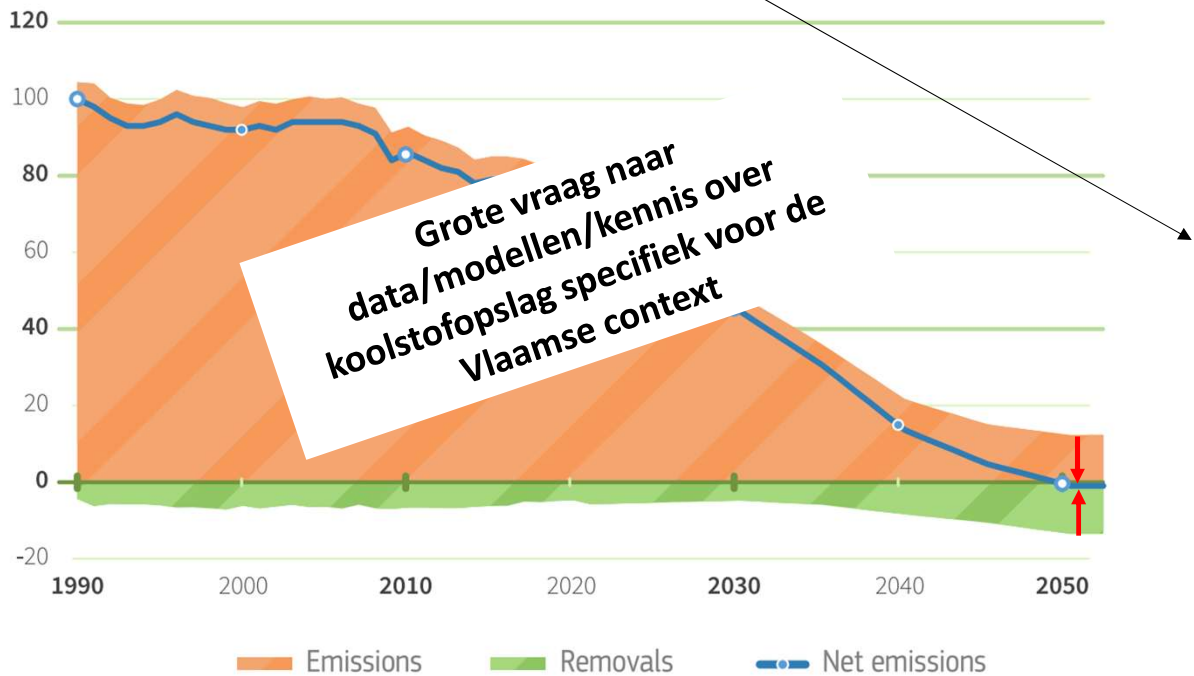


GHG projections for climate neutrality  
1990 GHG emissions = 100  
Source: EU 2030 Climate Target Plan



# Waarom een MRV-netwerk?

## Climate neutrality target



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

Nationaal/regionaal beleid:  
LULUCF - GLB

Lokale  
doelstellingen



Bedrijfsdoelstellingen

Corporate sustainability reporting (EU Directive) -> off-setting schemes

Science Based Targets -> Scope 3 in-setting landbouwsector

# Waarom een MRV-netwerk?

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



### QUANTIFICATION

Carbon removal activities are measured against a baseline and are net of supply chain emissions



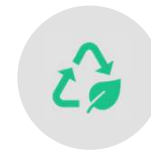
### A

Carbon removal activities go beyond standard market practices and what is legally required to the operator



### LONG-TERM STORAGE

Certificates clearly account for the duration of carbon storage and distinguish permanent storage from temporary storage

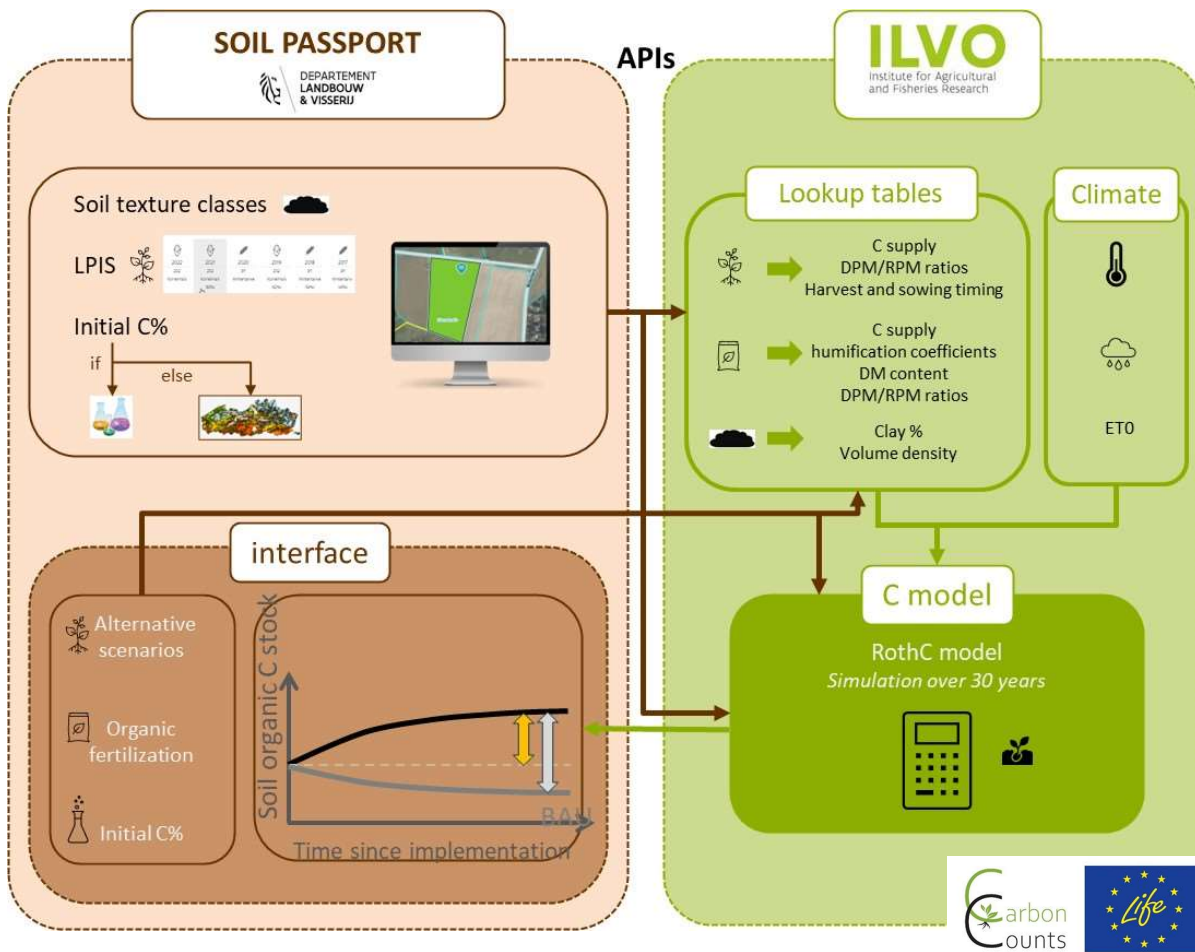


### SUSTAINABILITY

Carbon removal activities do not harm the environment or even benefit other environmental objectives such as biodiversity

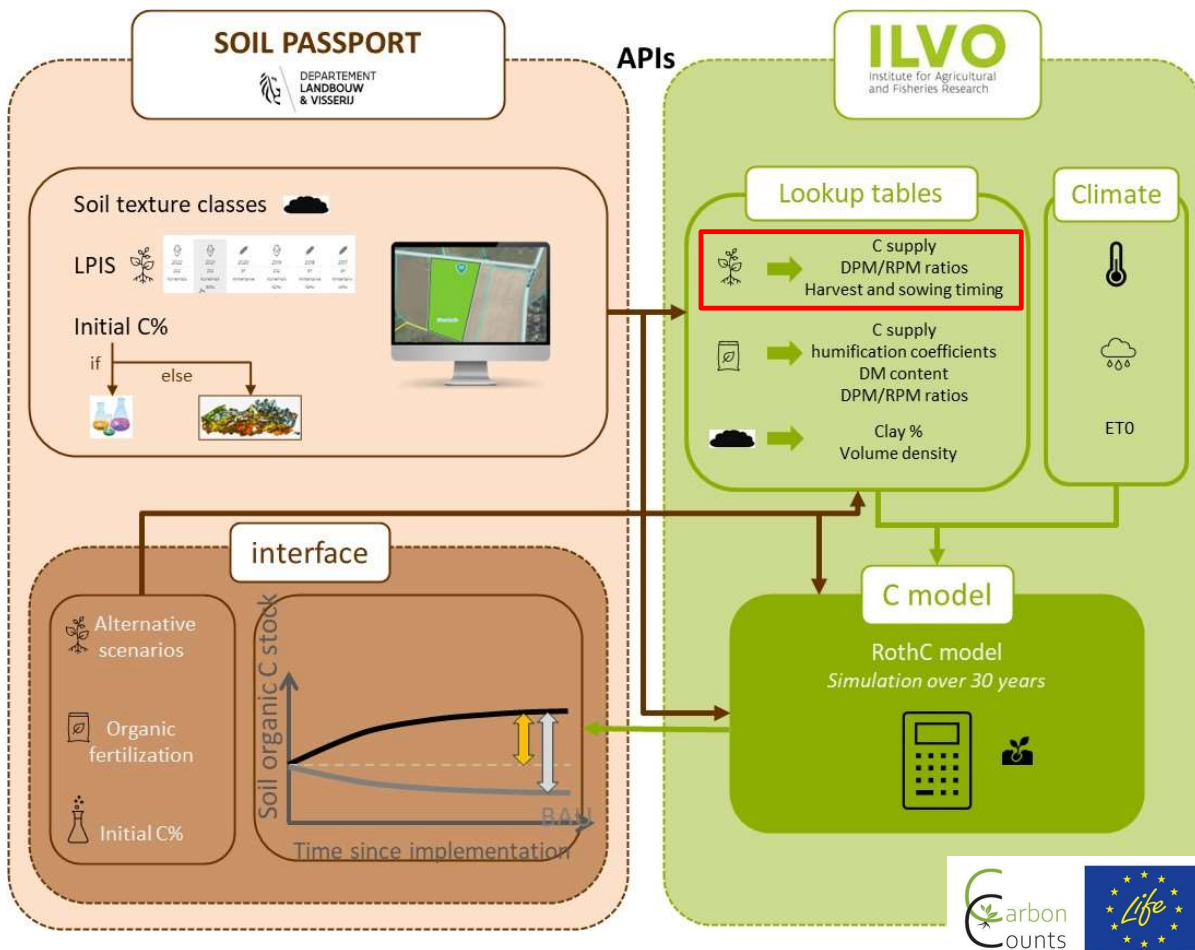
**Wat is nodig om lokale carbon farming initiatieven klaar te maken voor de Europese Carbon Removal Certification Regulation richtlijnen?**

# Wat loopt er al? – akkerbouw: model en tool voor landbouwers





# Wat loopt er al? – akkerbouw: model en tool voor landbouwers



Lijst Effectieve Organische Koolstofinput gewassen (EOC)



Code goede praktijk bodembescherming  
Koolstofmodel

Nieuw: wortellexudaten, hc, DPM/RPM

**ILVO**  
Instituut voor Landbouw,  
Visserij en Landbouwonderzoek

DEPARTEMENT  
LANDBOUW  
& VISSERIJ

DEPARTEMENT  
OMGEVING

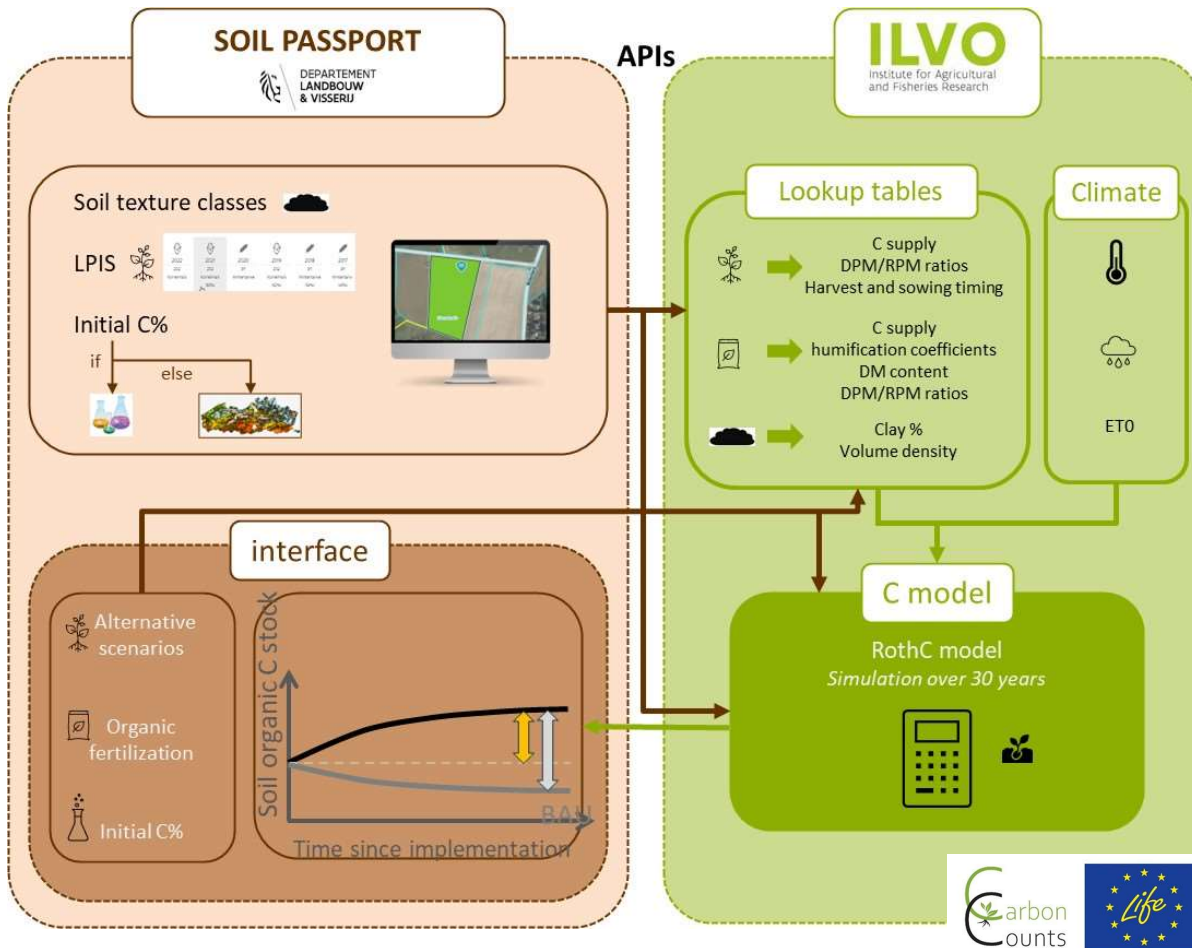
Bodemkundige  
Dienst van België vzw

VLAAMSE  
LAND  
MAATSCHAPPIJ

UNIVERSITEIT  
GENT

EJP SOIL  
European Joint Programme

# Wat loopt er al? – akkerbouw: model en tool voor landbouwers



C model (BeSOCC)

Validatie aan de hand van veldgegevens



# Wat loopt er al? – agroforestry

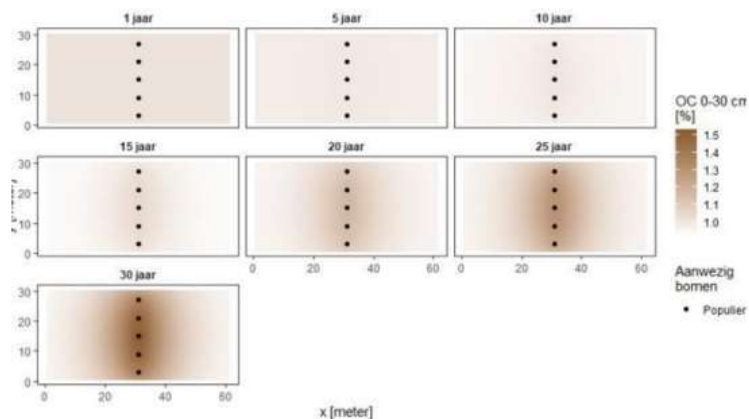
AGROFORESTRY  
VLAANDEREN

## Estimate C-seq in AF: CARAT (CARbon Agroforestry Tool)

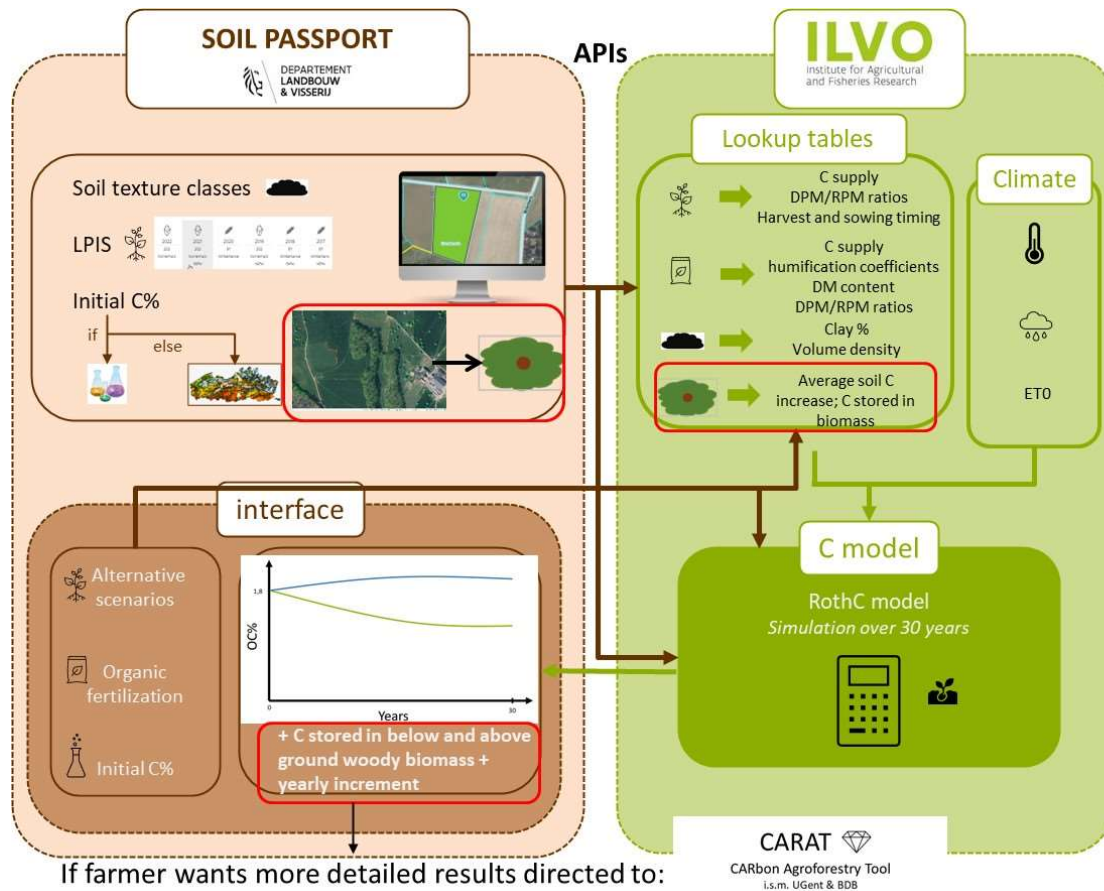


CARAT development team (2023). CARAT: an online tool for quantifying carbon sequestration in agroforestry systems, developed in collaboration by BDB, ILVO and Fornalab, Belgium

- i) Woody biomass: tree growth based on DBH (high pruned trees)
- ii) Leaf fall model: based on tree DBH
- iii) Increase in SOC due to leaf fall input: RothC



# Wat loopt er al? – agroforestry



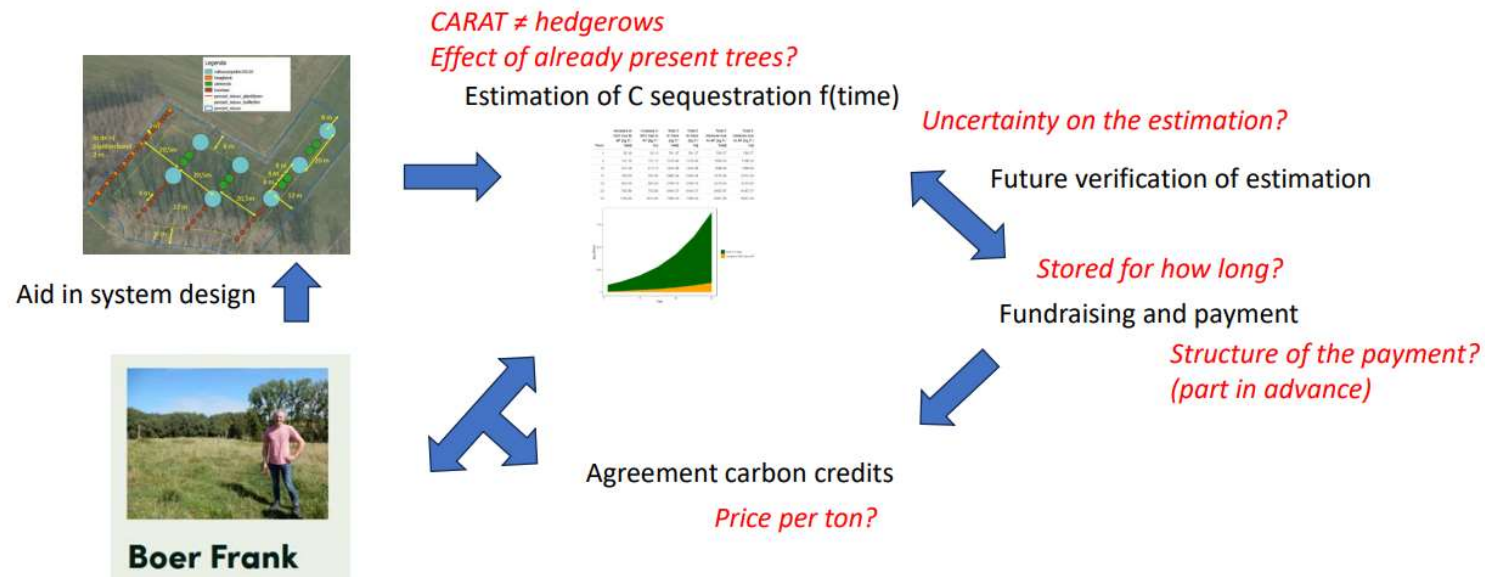
If farmer wants more detailed results directed to:





# Wat loopt er al? – agroforestry

## PDPO Carbon farming: “Klimaatneutrale bedrijven dankzij koolstofopslag in boslandbouw” (2022-2024)



# Wat loopt er al?



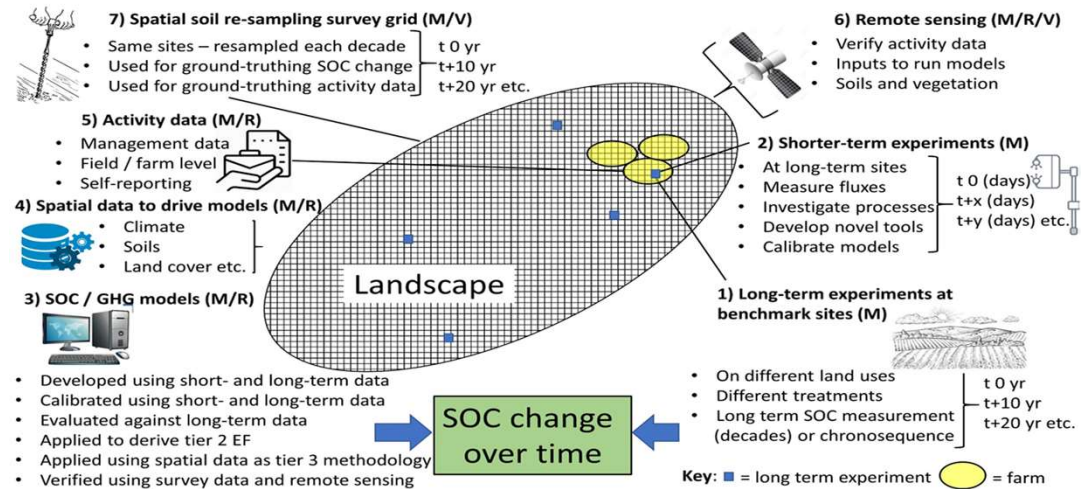
## Towards a framework for the design of context-specific MRV systems for carbon farming

 Akkerland

 Grasland

 Agroforestry/woody crops

 Beheerde veengronden



Smith P *et al.* 2020 How to measure, report and verify soil carbon change. *Glob. Change Biol.* **26** 219-241. doi: 10.1111/gcb.14815



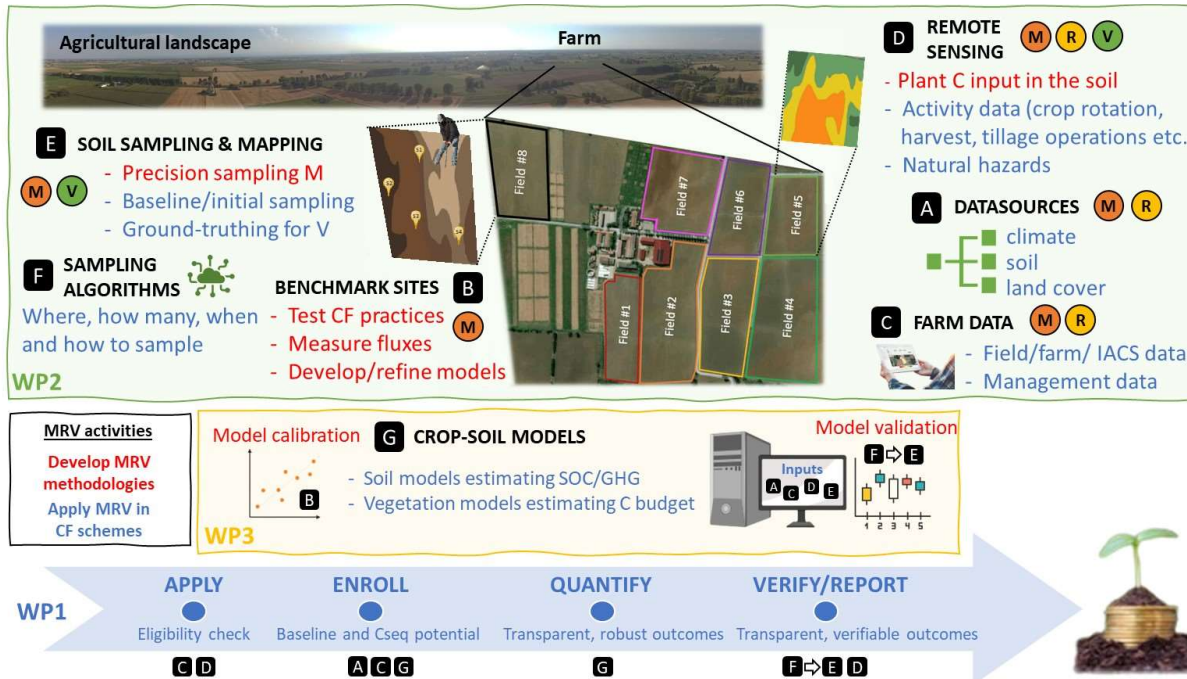
Funded by  
the European Union

# Wat loopt er al?



**MARVIC**  
MRV for carbon farming

## Towards a framework for the design of context-specific MRV systems for carbon farming



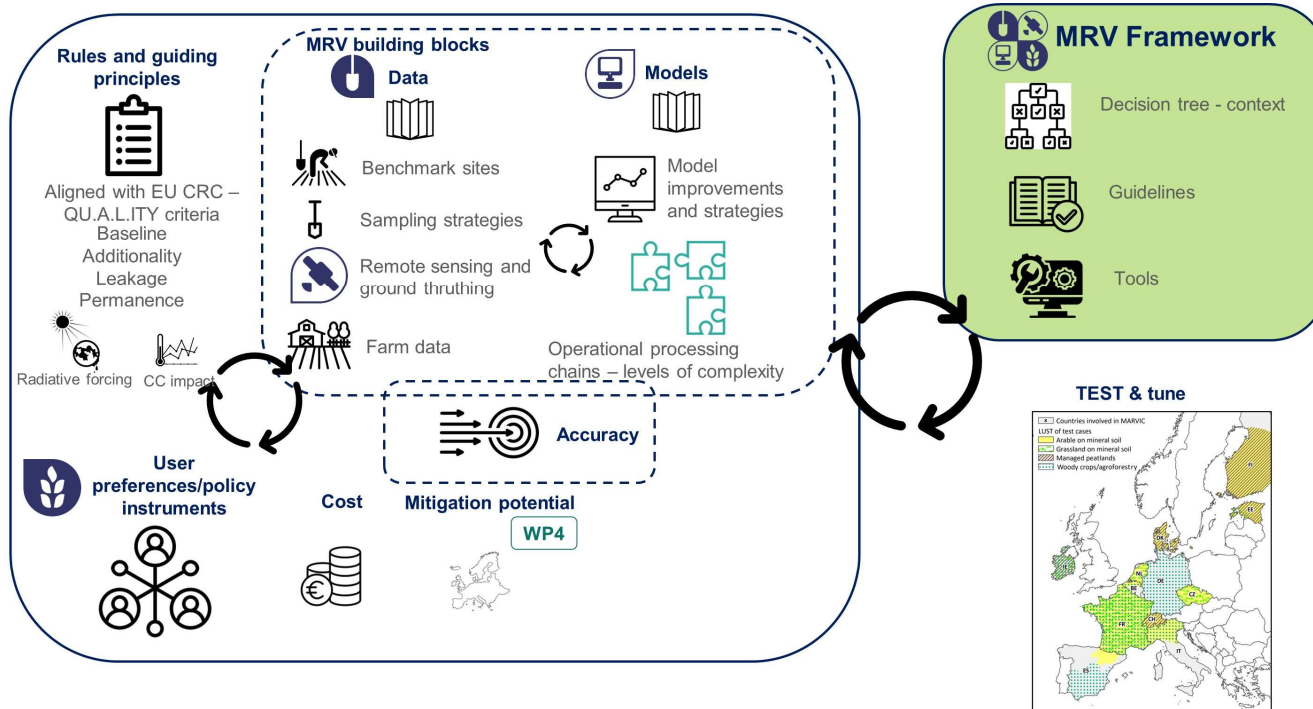
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# Wat loopt er al?

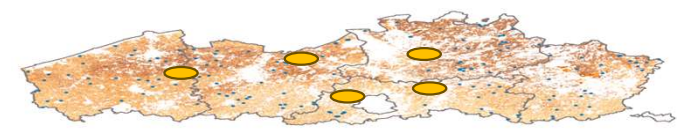


**MARVIC**  
MRV for carbon farming

## Towards a framework for the design of context-specific MRV systems for carbon farming



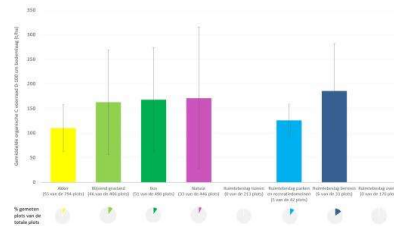
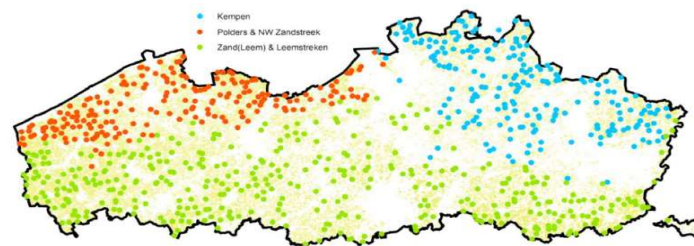
Field/farm



Regional



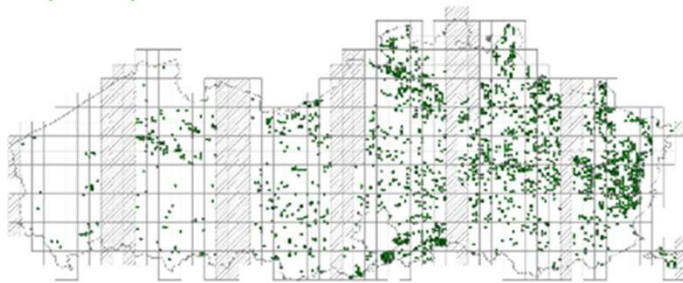
# Wat loopt er al? – Cmon: koolstofmonitoringnetwerk



# Wat loopt er al? – bos

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## Bosinventaris (ANB)



## Europese onderzoeksprojecten/netwerken (INBO)



**informa** SCIENCE-BASED INTEGRATED FOREST MANAGEMENT FOR CLIMATE MITIGATION



## Bosreservaten (INBO)



# Wat loopt er al? – veen

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Veenwaarschijnlijkheidskaart (KU Leuven)



Europese onderzoeksprojecten (INBO, Natuurpunt)



# Prioriteiten MRV-netwerk?

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# Prioriteiten MRV-netwerk?

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brengt **experten** samen



beantwoordt vragen



reviewt methoden



bespreekt EU-regelgeving



organiseert **kennisuitwisseling**



deelt gevalideerde kennis



synthetiseert kennis



identificeert kennishiaten



maakt protocollen



brengt data samen



verbetert modellen



werkt MRV-**methoden** uit

# Organisatie MRV-netwerk?

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voorzitters



kerngroep



thematische werkgroepen



# Conclusies

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