

Regenerative agriculture and carbon farming – Where we are now and where we are going?

Stanisław Świtek, PhD

Poznan University of Life Sciences,
Agronomy Department

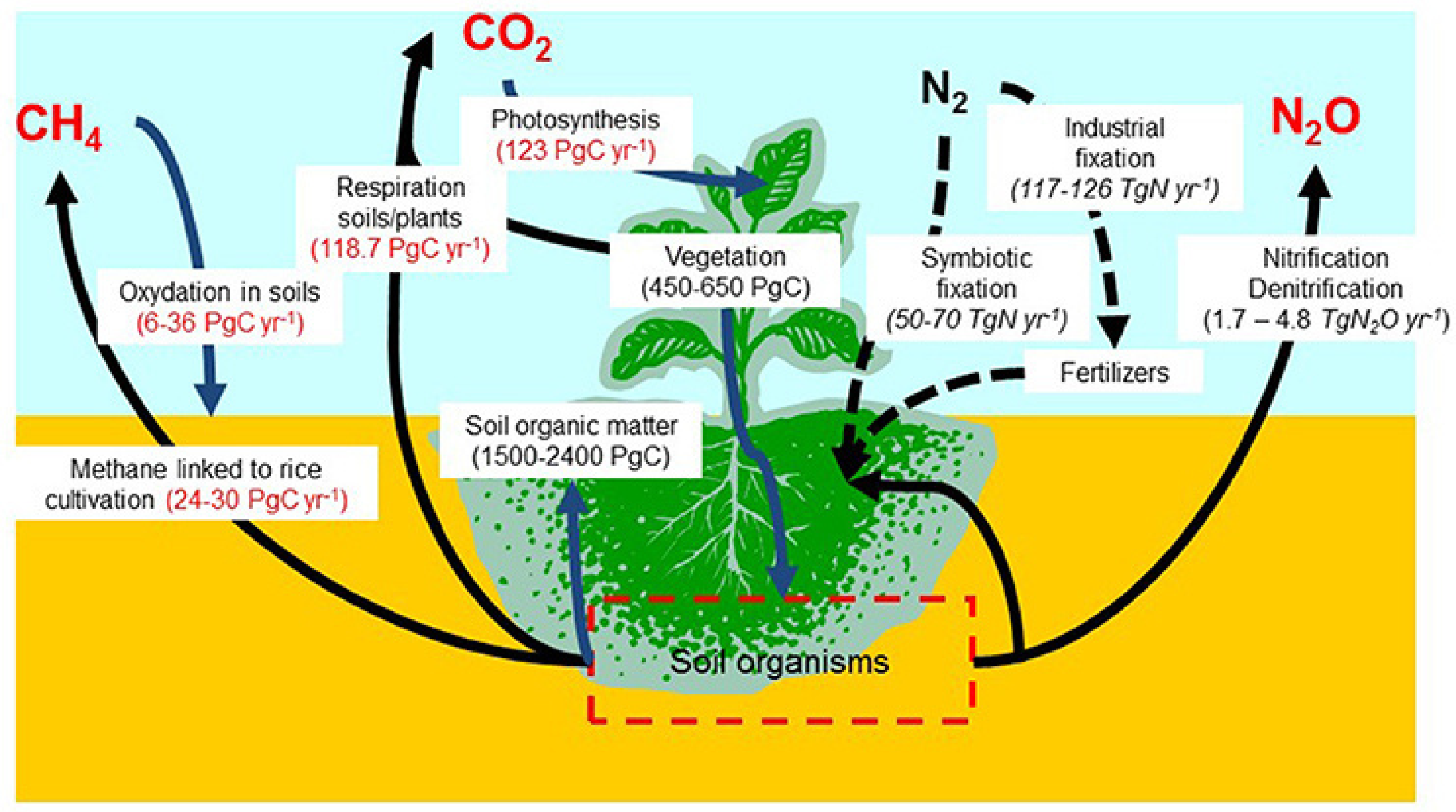


Co-funded by the
European Union

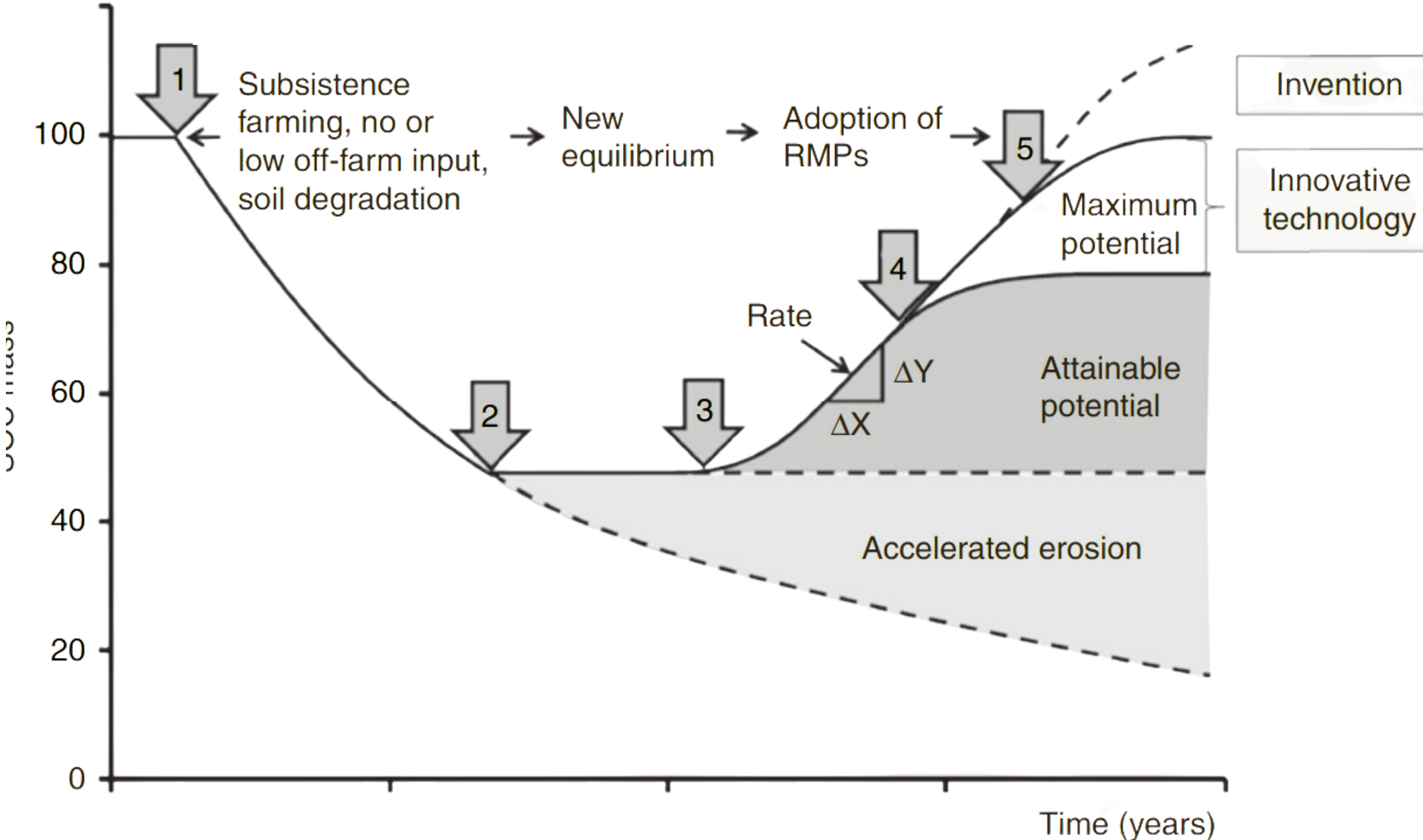
20.06.2023



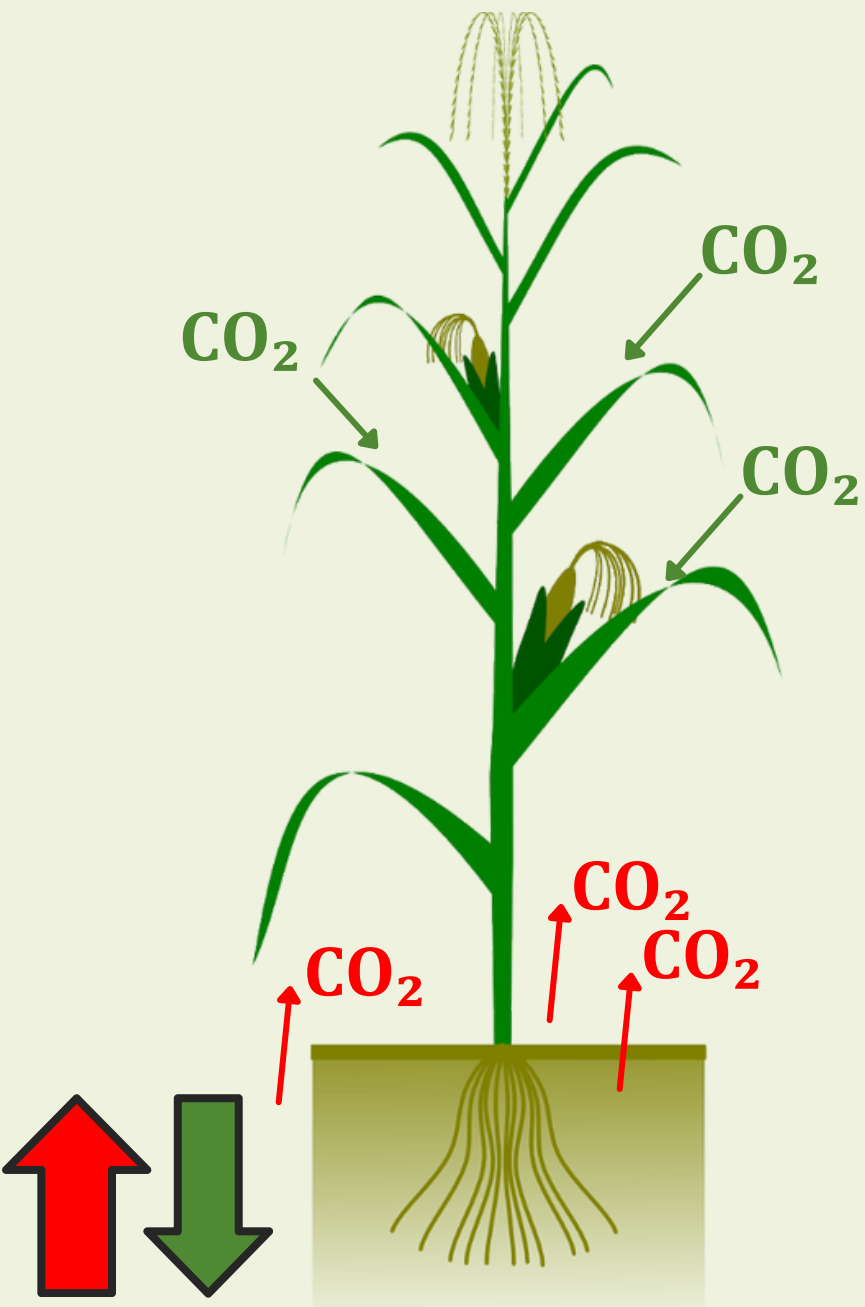
Soil and GHG fluxes



SOC declining



Role of agriculture in mitigation climate change

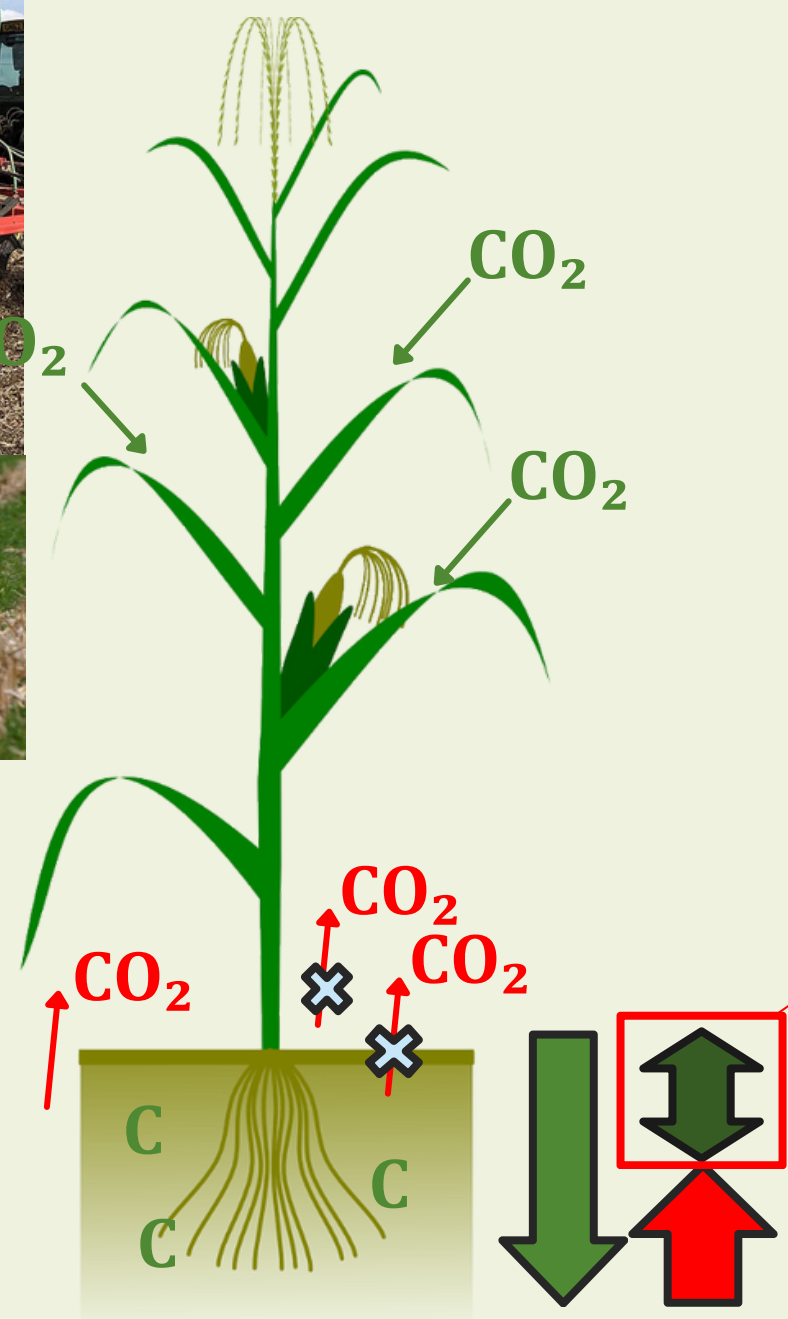


Examples of potential beneficial practices
 -> **Carbon farming**

- reduce tillage
- cover crops
- reduce fertilization rate
- irrigation optimization
- (...)

The final sequestration effect depends on:

- climate
- soil
- management
- (other)



Key Questions:

How much carbon farmers storage?

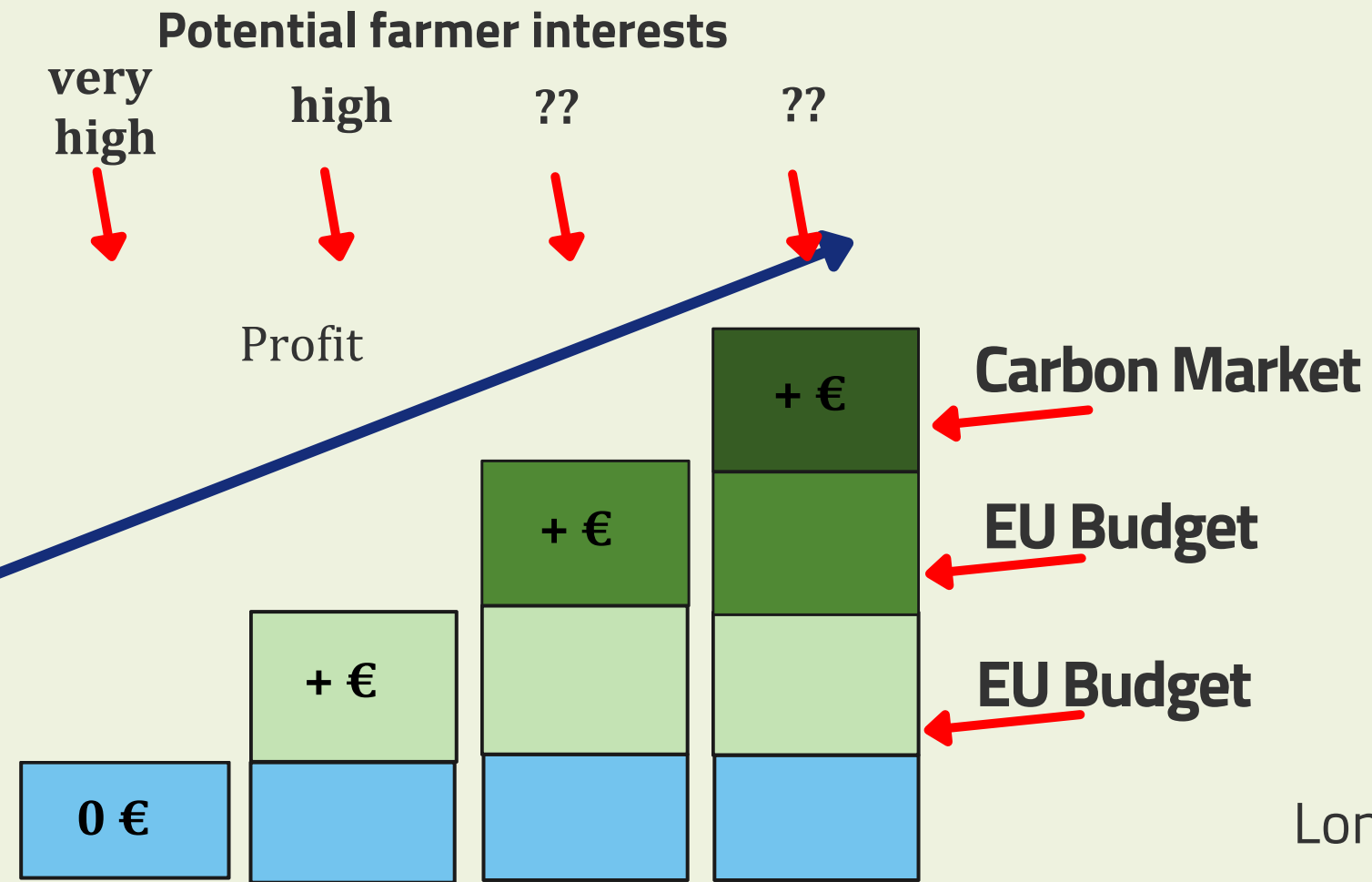
How it was calculated?

Can i trust it

How transition in agriculture is supported now (EU)?

Actions and practices undertaken by farmers

- Voluntary Carbon Credits
- Ecoschemes
- Good Agriculture and Environmental Conditions (GAEC)
- Statutory Mandatory Requirments (SMR)



The possibility of receiving additional income for already implemented practices under ecoschemes.

BUT IT IS ALWAYS?



Verified Carbon Standard

VS

Ecoscheme

Long term commitment

One-year practice

Importance of historical look back period – Additionality

Past practices irrelevant

Paradox:

Advantage of new regenerative farmers over old ones

Supporting new regen farmers
What with older one???

Supporting farmers already using regenerative practice and new players

Comparison Documents



CAP Common Agricultural Policy 2023-2027 with Ecoscheme

VSC Methodology for improved agricultural land management. Ver. 2.0 30.05.2023.



Union certification framework for carbon removals – Proposal. 30.11.2022.



Regenerative agriculture in Europe. A critical analysis of contributions to European Union Farm and Biodiversity Strategies. 04. 2022.



What we have to keep in mind

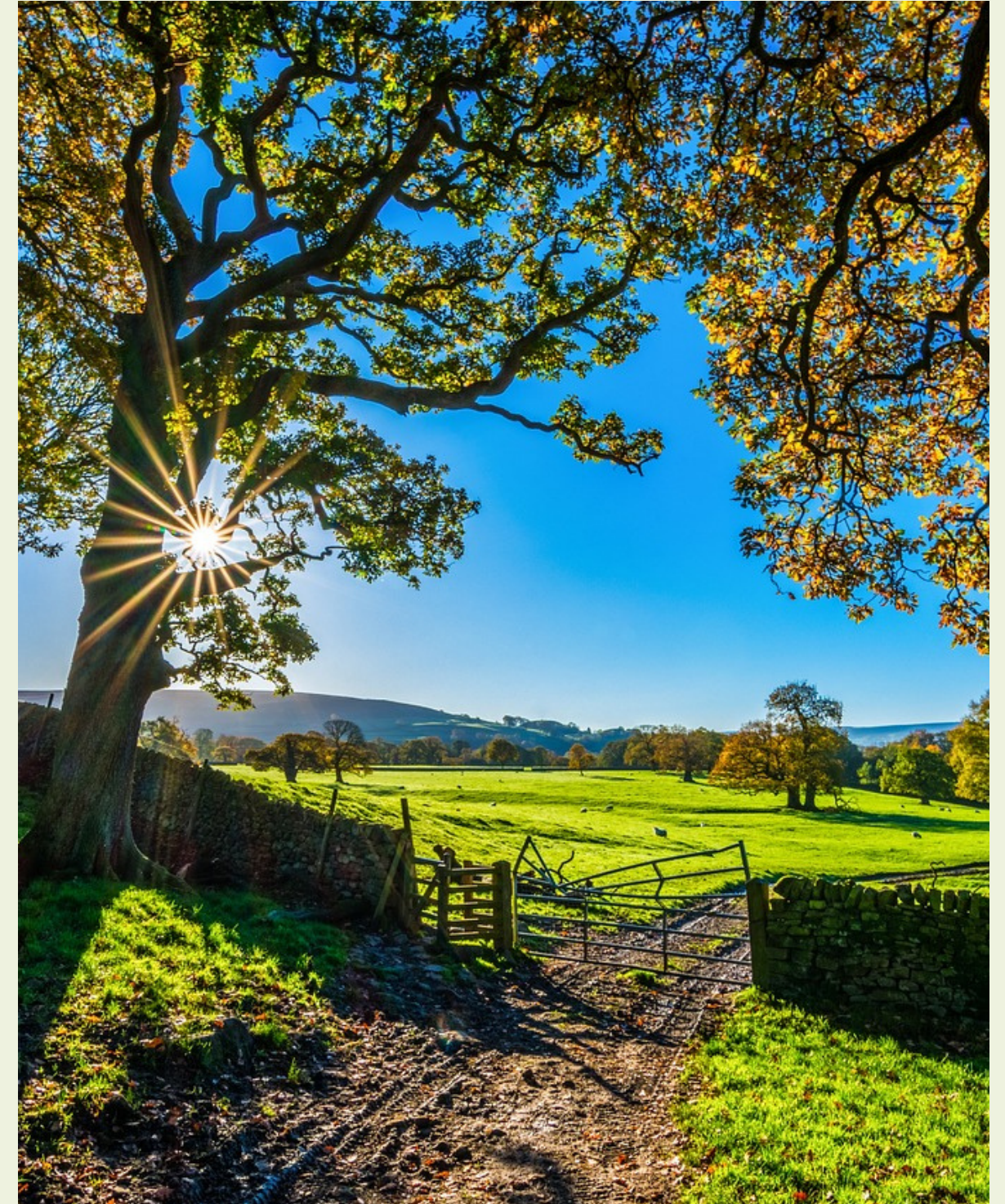
- Unregulated market
- A large number of programs
- Varied calculation methodology
- Private certifications
- The need to regulate the market
- The need to develop a single methodology
- Farmers' concerns
- Greenwashing risk



What awaits us? – European certification systems

European Carbon Credits

- European commission look what is currently methodology on the market and base on them and experts view create new, one methodology
- EU certification framework for carbon removals-**QU.A.L.I.TY**
 - **QU**antification
 - **A**dditinality and baseline
 - **L**ong term storage
 - **S**ustainability
- One methodology of Certification
- Public register of third part



Projected European Standards compared to the existing ones

Verra

World

CO₂ ; CH₄; N₂O

3 approaches to quantification GHG emission:

- Measure and Model
- Measure and Remeasure
- Default Factors
- Diverse methodology – diverse effect



Projected European Standards

Europe

CO₂ and Others

1 approach - QU.A.L.I.TY

Fulfillment of European objectives

MRV

- Measurement & Monitoring
- Baseline scenarion
- Monitoring
- Calculation
- Emisssion
- Certyfication/
Verification
- Validation





Co-funded by the
European Union



Improving food together

eitfood.eu

