

# 3 ACCA

THIRD AFRICA CONGRESS ON  
CONSERVATION AGRICULTURE  
5-8 June 2023 | Rabat, Morocco



# APAD Low Carbon Project

Farmer's feedback on a collective farmers  
project

Theme:

Building a Resilient Future in Africa  
through Conservation Agriculture and Sustainable  
Mechanization



Organizers



In Collaboration with



Gold Sponsors



Silver Sponsors



Bronze Sponsor





# Diane Masure, farmer, La Grange au Bois Polisy, France

Engineer in agronomy (Agro Paris Tech)

Farm in the south of Champagne in France : cereal crops,  
legumes (lentils, peas) hemp seeds for pastures  
CA since 10 years

Stony clay-limestone soils  
Cover crops between the main crops

Open days and communication

Vice president APAD, France  
Member of the GCAN  
Farmer representative at the 4p1000



# APAD Association for the Promotion of Sustainable Agriculture



A network of 14 associations of farmers in France, 1000 farmers, 100% volunteer farmers

Our mission : Promote and valorize Conservation Agriculture

Our strategy : 4 pillars of actions for concrete global projects

## DEVELOP

A farmers network in the whole country.

Collective approach, training



## IMPROVE

the Conservation

Agriculture technical practices in farms

Locally : working group & projects with all actors in different territories



## PROMOTE

Conservation Agriculture

benefits to a large audience

International and local shows, Conference, workshop, Educational projects, meet policy makers for sensibilisation on CA benefits...



## VALORIZE

economical,

environmental and social

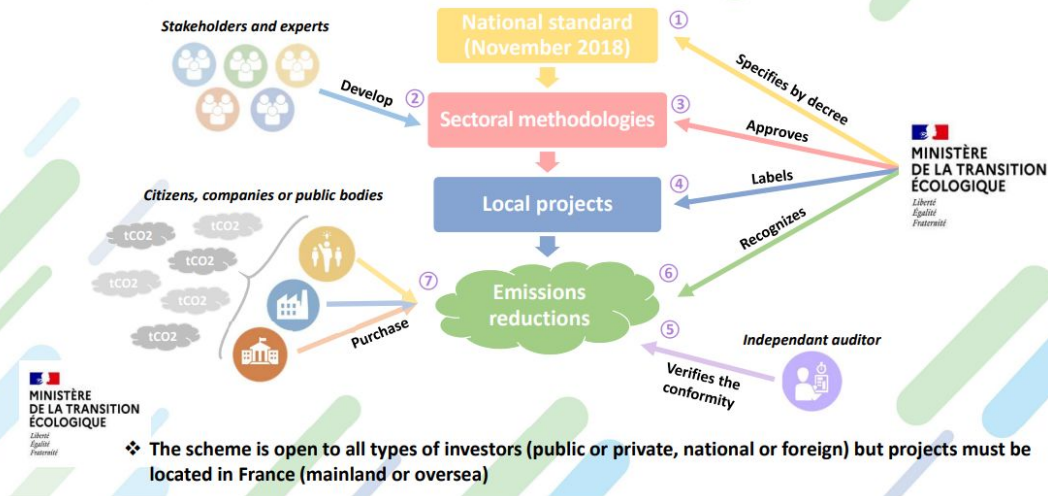
services of Conservation CA farmer private label Agriculture





# French Low carbon label

## II. Functioning of the label



Different targets and method of calculating  
Forestry /Agriculture: Cattle (Carbon Agri) / Orchard planting/ Hedgerows/ Ecométhane /Field Crops Method

**“The Low-Carbon label is a voluntary framework for MRV** (Monitoring, Reporting, Verification) of greenhouse gas (GHG) emissions for diffuse sectors (especially agriculture and forestry) created and defined by the decree and order of November 28, 2018.

This label is therefore aimed at projects carried out on French territory that contribute to achieving France's domestic, European and international climate objectives, with regard to the Paris Climate Agreement.”

The current source of funding : **Voluntary carbon markets**

A contractual basis between the project proponent and the funder

- The price of the tCO2 is set by mutual agreement, depending mainly on the project costs
- Financing can be provided at the beginning, during or at the end of the project after the verification by an independent auditor.
- The purchasing company has the opportunity to invest in the project from the start, even if, its carbon credits will be effective after 5 years.

# APAD's project: "Du Carbone Au Coeur des Sols"

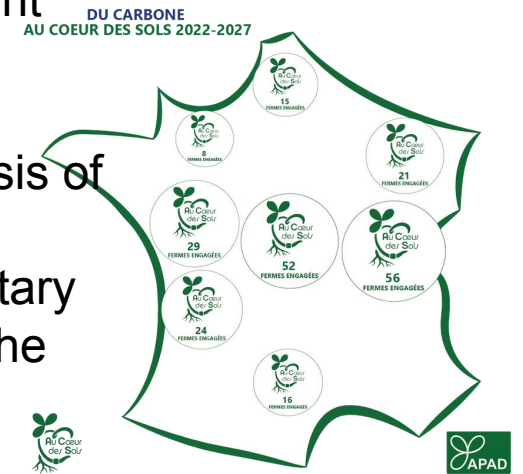


APAD's Low Carbon Label project  
notified to French Ministry of Ecology

215 farms    38 370 ha  
307 521 potential credits carbon certified



- Carbon Credit certified by the French government and independent auditor
- A collective, national project
- A minimum price for farmers of €50 in 2022, calculated on the basis of the cost of agro-ecological transition.
- A formula for indexing the price according to inputs and the voluntary carbon price, so that the farmer can be sure of a fair return over the 5-year period.
- Process control at every level by a farmers' association

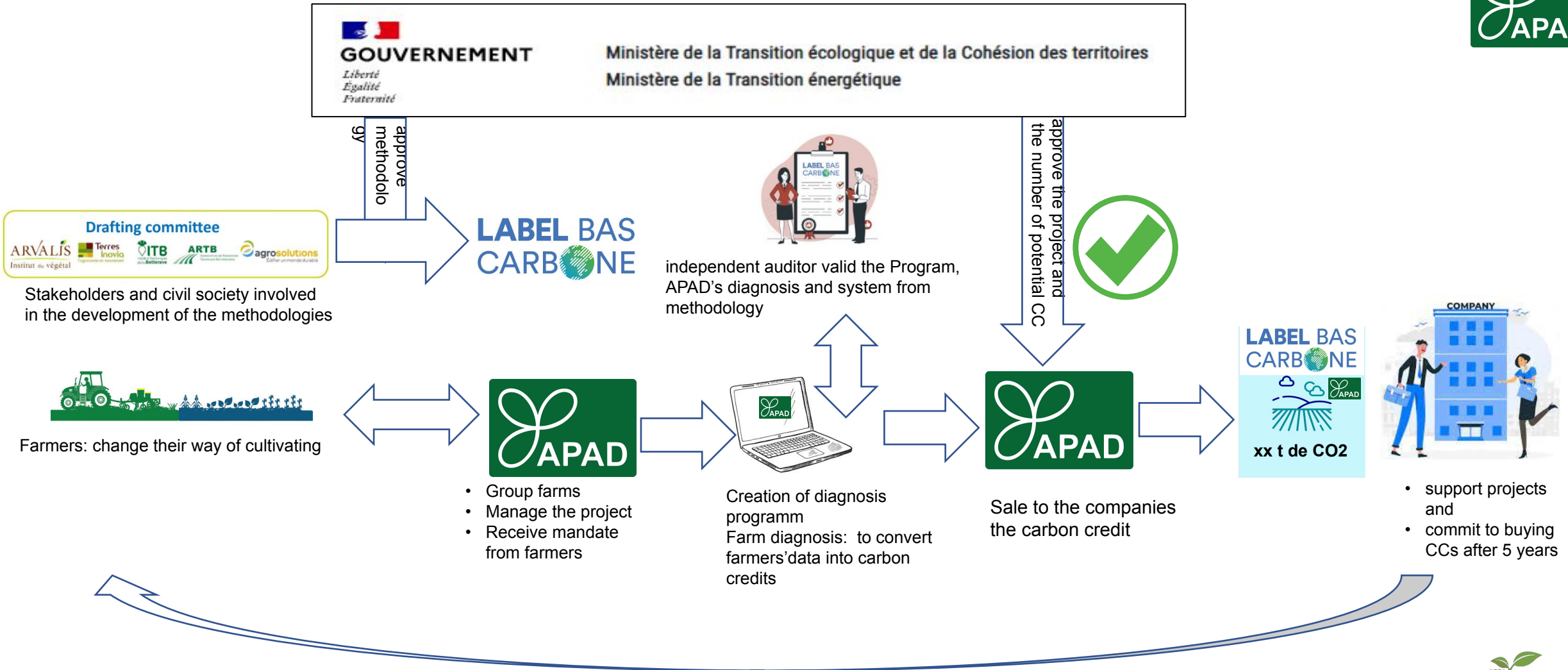


APAD's project is the most (to our knowledge) important Fields Crops collective project engaged in Low Carbon Label in France and managed from producer to buyer by farmers and for farmers.

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# APAD association of farmers, actor at each step



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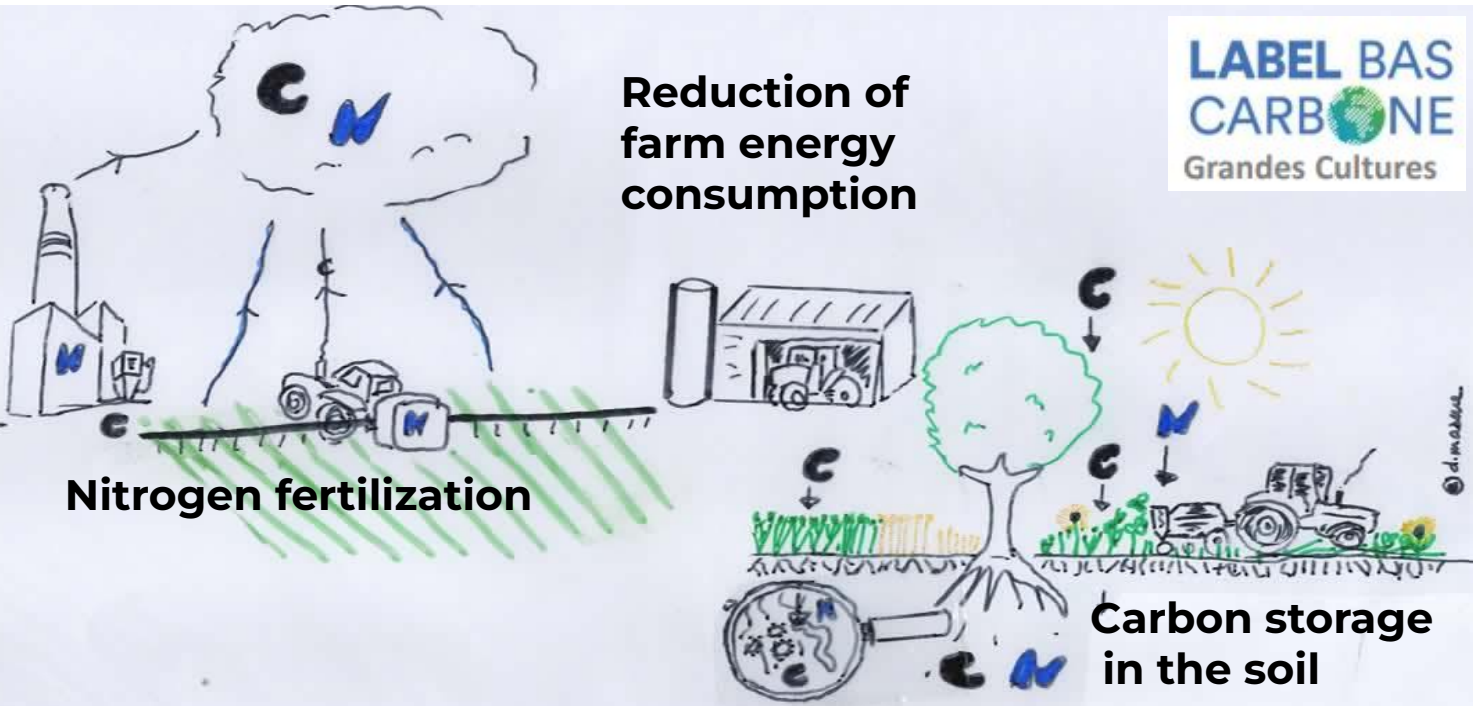
# French Low Carbon Label: Field Crops method



## Accounted emission reductions

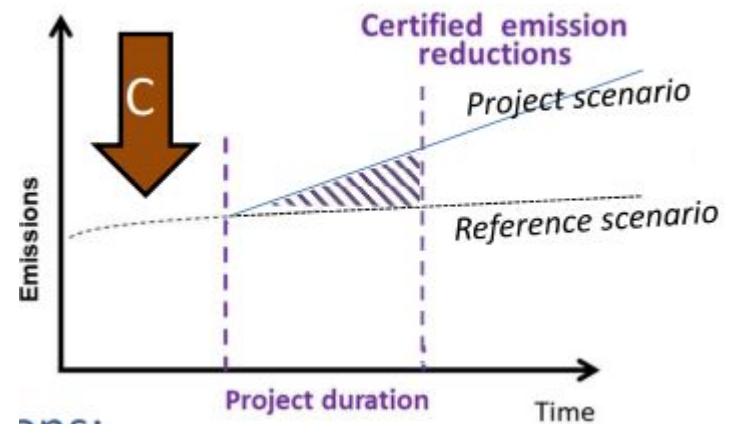


$$\text{Emission Reductions} = ER_{\text{emissions}} + ER_{\text{SOC storage}} + (ER_{\text{downstream}})$$



<https://label-bas-carbone.ecologie.gouv.fr/la-methode-grandes-cultures>

Carbone Credit are generated if the project reduce more emissions or store more carbon in comparison with a **reference scenario** (Specific: real 3 last years' data from the farm or Generic: local statistics)



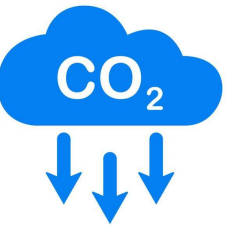
+ account of socio-economic and environmental impacts and co-benefits (consumption of renewable energy, soil erosion, biodiversity, quality of life at work...)



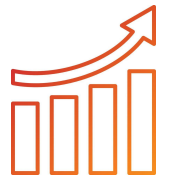
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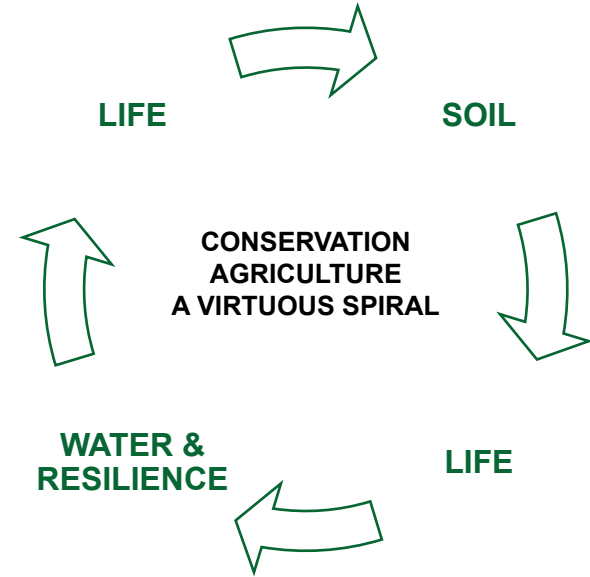
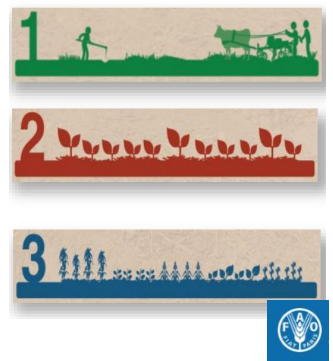
# Why CA and Carbon?



**GHG emission avoided**  
 Less 60% fuel costs by no-till  
 Cover with legumes: biological stock of Nitrogen available



**GHG sequestration:**  
 Soil cannot store more carbon than can be produced by the biomass it receives.  
 Captation of Carbone:  
 • Yields are similar as other practices  
 • Residues remove to soil  
 • Permanent soil organic cover : Photosynthesis, more C  
 Less mineralisation: no till  
 Less erosion: no till + permanent soil organic cover



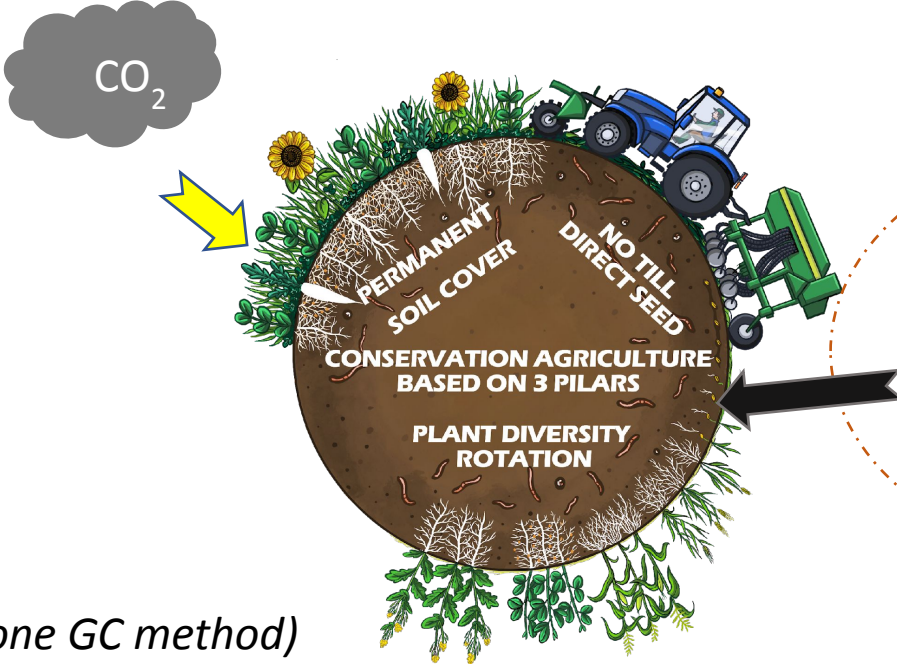
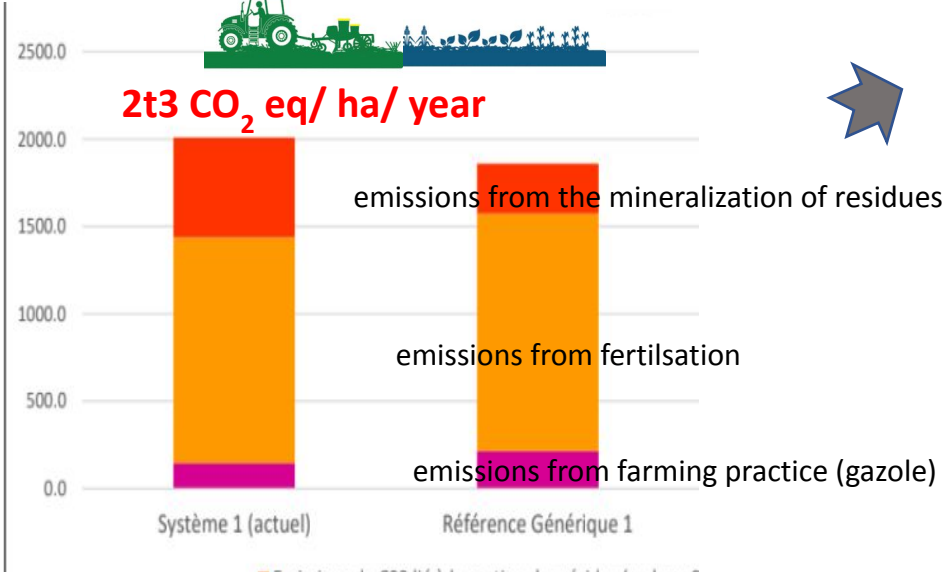
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# First results from the farms of our project

## GHG emissions LABEL BAS CARBONE

## GHG sequestration (SIMEOS AMG agrotransfert INRAe)



**Storage in soil by increasing Organic Matter**  
**3t5 CO<sub>2</sub> eq/ ha/ year**  
 (average of the project)  
 Diversity of results

**CA on a farm** (calculated by Label Bas Carbone GC method)

**vs local datas with same crops and soil**

- Generation of 1,6 Carbon credit /ha/an estimated
- Positive Balance on the CA farms

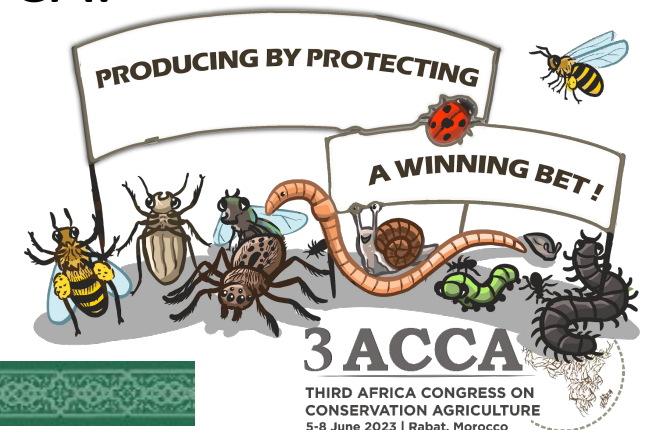
\* Global warming potential N<sub>2</sub>O = 273 GWP CO<sub>2</sub>

\* 1 t de C = 44/12 t CO<sub>2</sub> = 3,67 t CO<sub>2</sub> = 1,72 t Organic Matter

20% of the data, in progress...

# Conclusion: A benchmark for the farming community...

- CA enables neutral production by storing carbon in the soil
- Generation of 1,6/ha/y carbon credits through conservation agriculture
- CA is the solution for Climate Change
- Climate change is the opportunity to talk positively about CA
- Farmers need to lead carbon farming and manage market rule to ensure that the added value accrues to their farms.
- Climate change by soil conservation agriculture are just the tip of the iceberg when compared with all the other benefits of CA:  
production, water, biodiversity, resilience
- Policies, research and industry must recognize and promote CA





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