



Carbon Farming



INSTITUT DE L'ELEVAGE idele

LIFE CARBON FARMING – Carbon farming certification and rewarding mechanisms in the agricultural sector

Brussels – 25/01/2023

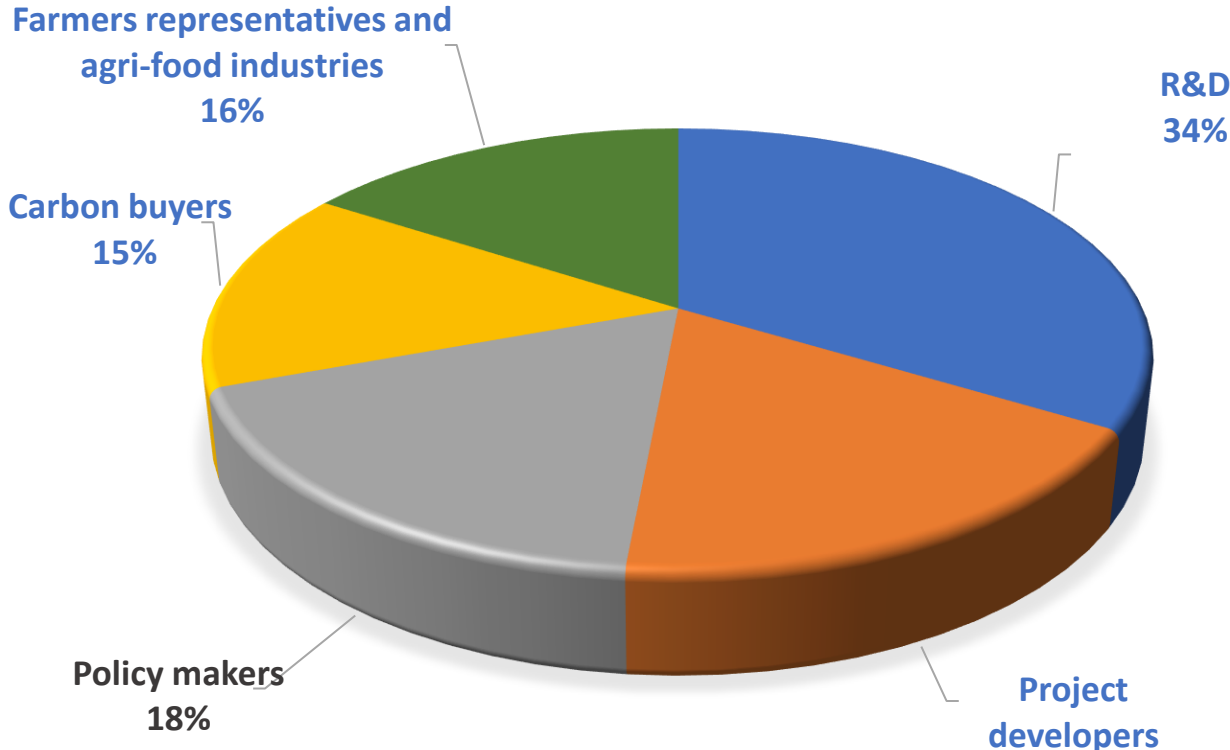


Ce projet bénéficie du soutien du programme LIFE de l'Union Européenne.





A large audience representative of stakeholders involved in carbon transition



- **Introduction** – Jean Baptiste Dollé, IDELE
- **GHG mitigation policies in agriculture and carbon removals certification framework** – Valeria Forlin, DG CLIMA
- **Tackling climate change in agriculture, lessons learnt from previous initiatives and needs for upscaling** – Jean-Baptiste Dollé, IDELE
- **Presentation of the LIFE CARBON FARMING project** – Idele, Asoprovac, ATB, U Liège, CREA, Eilyps
- **Testimonies on Carbon Farming implementation** – Elisabeth Pagnac-Farbiaz, French Ministry of Ecological Transition / Pierre Rayé, FCAA / Donal O’Brien, Teagasc
- *Lunchbreak*
- **Workshop sessions**
 - How to build an efficient monitoring and certification process for answering project developers, carbon buyers and public body’s needs?
 - What funding mechanisms to support low carbon projects?
- *Networking*
- **Workshop restitutions**
- **Questions/Answers with a panel of experts** – Marion Leguiel, French Ministry of Agriculture / Adeline Favrel, Clothilde Tronquet, I4CE / Donal O’Brien, Teagasc / Pierre Rayé, FCAA
- **Conclusion** – Jean-Baptiste Dollé, IDELE

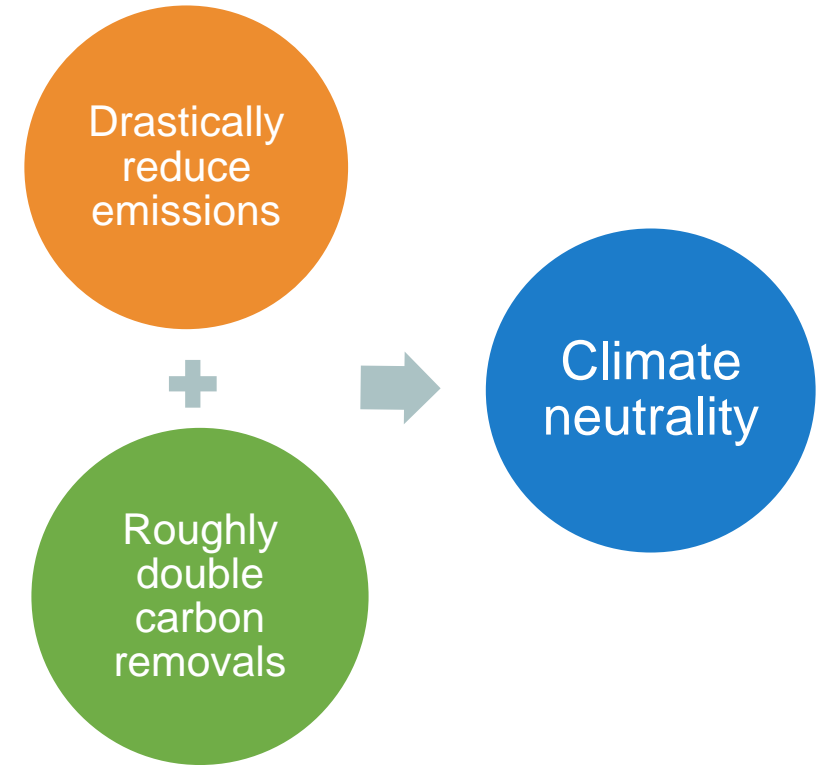
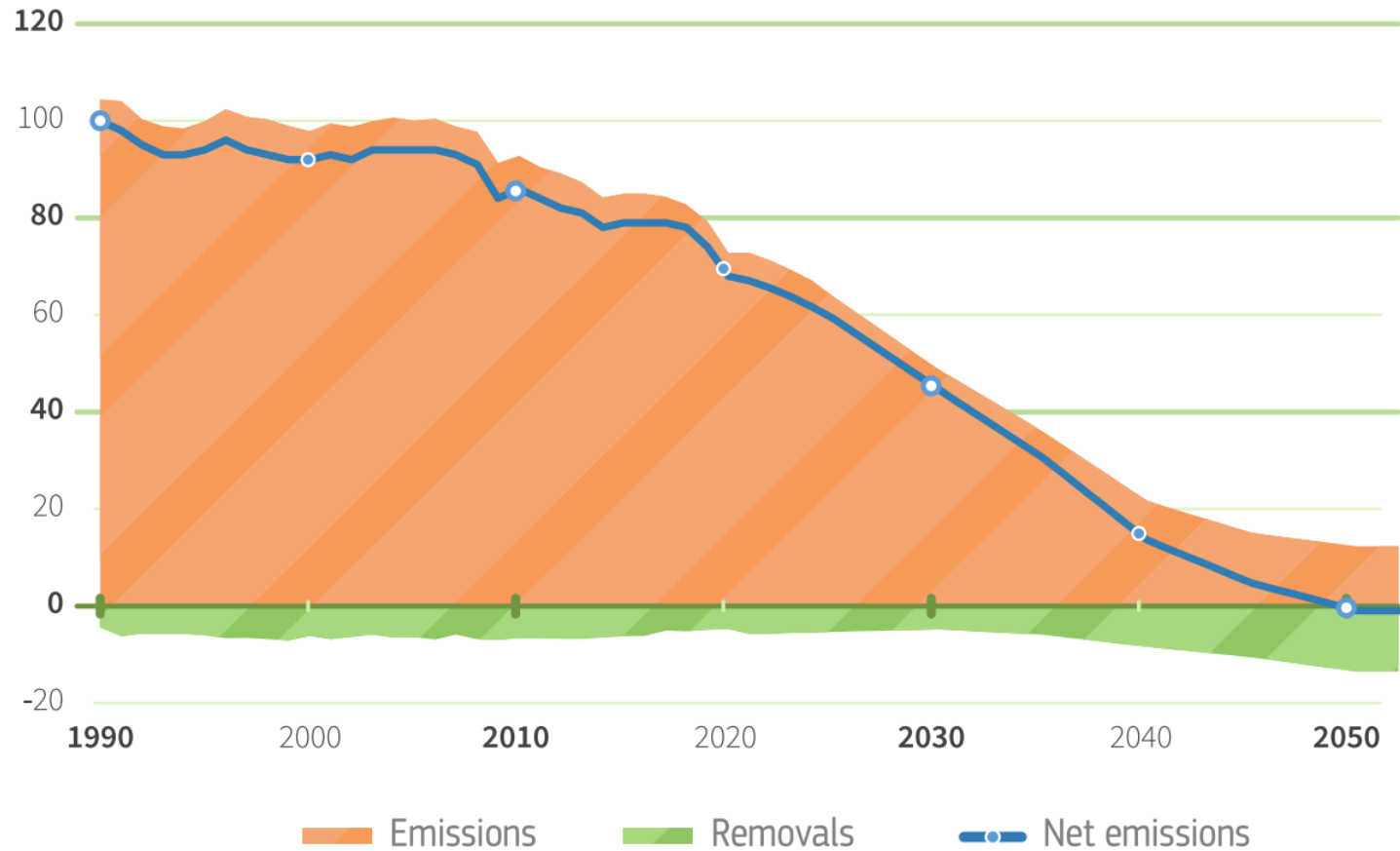
- *GHG mitigation policies in agriculture and carbon removals certification framework – Valeria Forlin*



Commission proposal for a Carbon Removal Certification (CRC) Regulation

Valeria FORLIN – DG CLIMA

Why carbon removals?



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

The policy context

Climate Law

- EU objective of **climate neutrality** by 2050

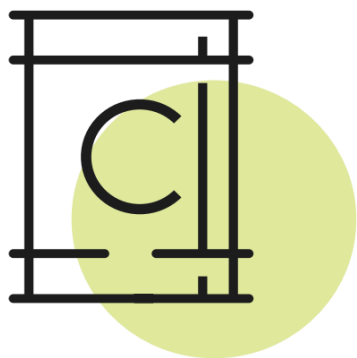
Land Use, Land Use Change and Forestry (LULUCF) Regulation

- ambitious target for net carbon removals in soils, forests and wood products: **-310 Mtonnes by 2030**

Communication on Sustainable Carbon Cycles

- roadmap to enable carbon removals:
 - **carbon farming** should contribute to 2030 target for LULUCF
 - **industrial solutions** should remove at least -5 Mtonnes in 2030

Different types of carbon removal activities



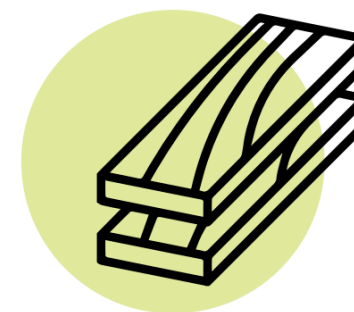
PERMANENT STORAGE

E.g. Bioenergy with Carbon Capture and Storage (BECCS), Direct Air Carbon Capture and Storage (DACCS)



CARBON FARMING

E.g. Af-/re-forestation, improved forest management, agroforestry, soil carbon sequestration, peatland restoration



CARBON STORAGE IN PRODUCTS

E.g. Use of wood-based materials in construction, long-lasting Carbon Capture and Utilisation (CCU)

Why certify carbon removals?



Incentivising high-quality carbon removals



Tailored certification methodologies



Fighting greenwashing & build trust



Harmonise market conditions

From objectives to the legal proposal



Legislative Proposal

Art. 1-3: General provisions

- 1: Scope
- 2: Definitions
- 3: Eligibility

Art. 4-8: Quality criteria

- 4: Quantification
- 5: Additionality
- 6: Long-term storage
- 7: Sustainability

8: Certification methodologies

Art. 9-14: Certification & Certification schemes

- 9: Certification of compliance
- 10: Operation of certification bodies
- 11: Operation of certification schemes
- 12: Registries
- 13: Recognition by the Commission
- 14: Reporting

Art. 15-18: Final provisions

QU.A.L.I.TY criteria for all carbon removals



QUANTIFICATION

Carbon removal activities are measured accurately and deliver unambiguous benefits for the climate



ADDITIONALITY

Carbon removal activities go beyond market practices and what is legally required



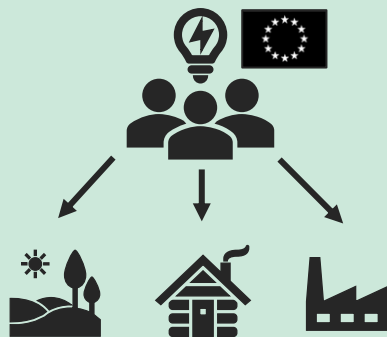
LONG-TERM STORAGE

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



To operationalise the EU quality criteria, the Commission, supported by an expert group, will develop **tailored certification methodologies** for the different types of carbon removal activities

Requirements for certification



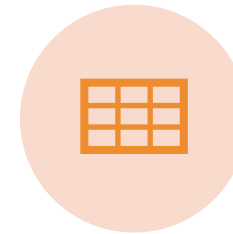
THIRD-PARTY VERIFICATION

*Carbon removal activities
should be verified by
independent auditors*



RELIABLE CERTIFICATION SCHEMES

*Certification schemes should
have a trustworthy
governance system in place*



PUBLIC REGISTRIES OF CARBON REMOVALS

*Carbon removals should be
recorded in interoperable
registries to avoid double-
counting*



The Commission will **recognise certification schemes** that should be used by operators to demonstrate compliance with the Regulation

How does it work?

1



EU develops methodologies & recognises certification schemes

2



Operators join an EU-recognised certification scheme

3



Third-party verification of the activity

4



The activity is periodically certified

5



Certified carbon removals are recorded in registries

How can the CRC Regulation can be used?

Public support

- Achieve climate targets, e.g. LULUCF, Nature Restoration Law
- Targeted support under CAP, State Aid, Innovation Fund...

Private financing

- Supply chain contracts
- Improve transparency and integrity of voluntary carbon markets
- No link with the EU ETS

Fight greenwashing

- Corporate Sustainability Reporting
- Green claims

Useful links

- Proposal: https://climate.ec.europa.eu/document/fad4a049-ff98-476f-b626-b46c6afdded3_en
- Impact Assessment: https://climate.ec.europa.eu/document/ab53e63b-4b85-4d28-ac67-6bd742506bae_en
- Press release: [Commission proposes certification of carbon removals \(europa.eu\)](https://europa.eu/presscorner/detail/en/qanda_22_7159)
- Q&A: https://ec.europa.eu/commission/presscorner/detail/en/qanda_22_7159
- Factsheet: https://ec.europa.eu/commission/presscorner/detail/en/fs_22_7161
- More information on Sustainable Carbon Cycles: https://ec.europa.eu/clima/eu-action/forests-and-agriculture/sustainable-carbon-cycles_en
- Delivering the European Green Deal: https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal/delivering-european-green-deal_en

- *Tackling climate change in agriculture, lessons learnt from previous initiatives and needs for upscaling – Jean-Baptiste Dollé, Catherine Brocas - IDELE*

From research to practice Initiatives for disseminating low carbon practices



LIFE CARBON DAIRY



LIFE BEEF CARBON



LIFE GREEN SHEEP

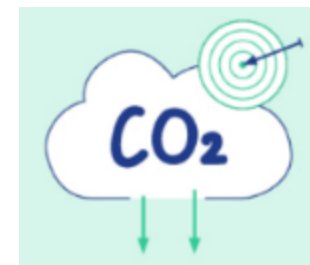
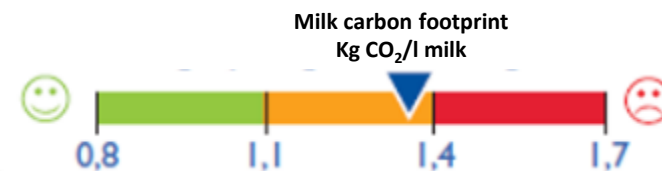
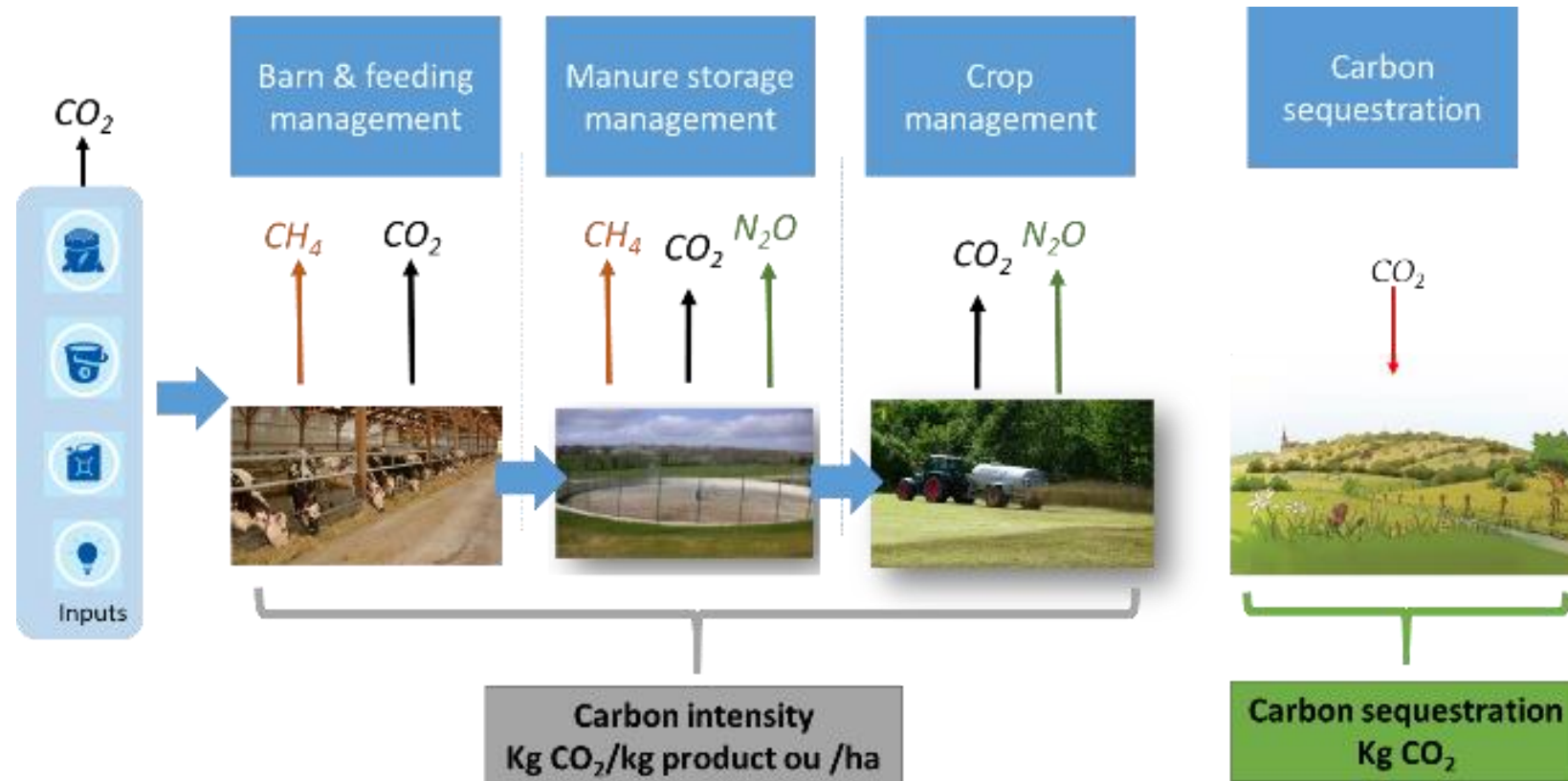


SUSTAINABLE GOAT FARMING

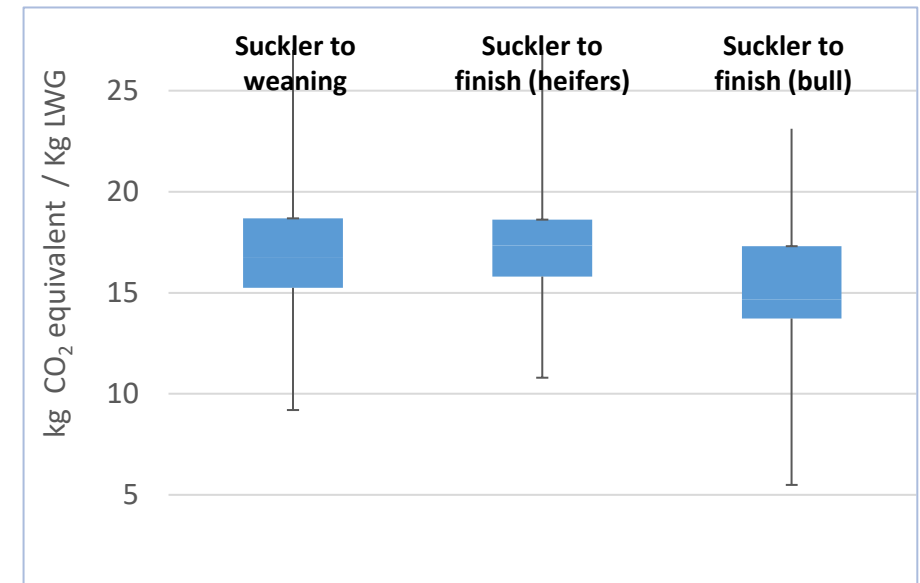
Dairy4Future Atlantic Area



First, quantifying GHG emissions and carbon sequestration



High variability between farms



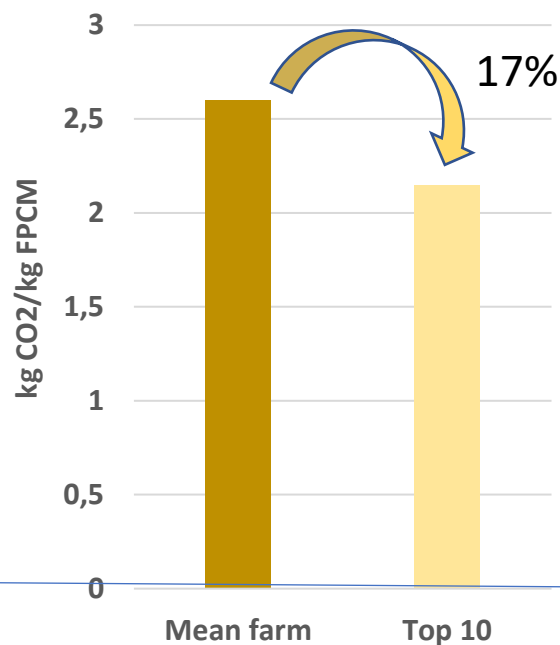
A 20% potential in reducing GHG emissions now



High difference between efficient and less efficient farms



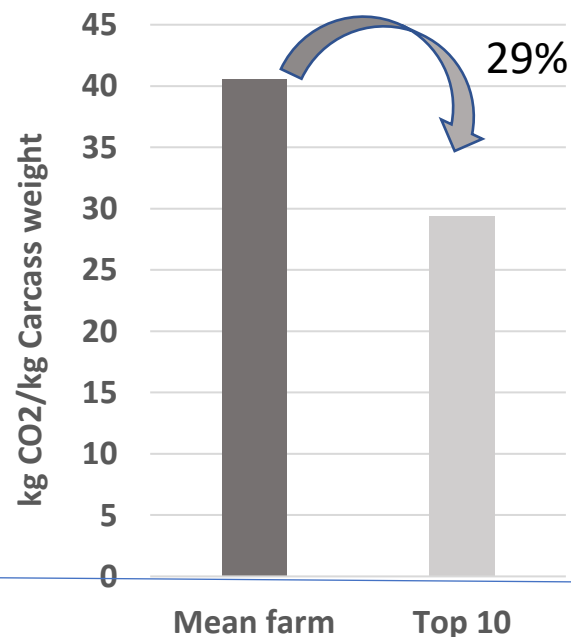
Dairy sheep carbon footprint



73 farms



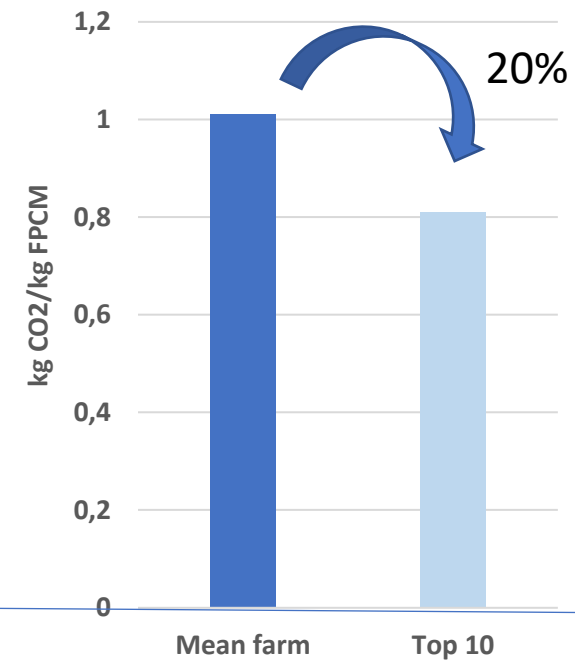
Meat sheep carbon footprint



290 farms



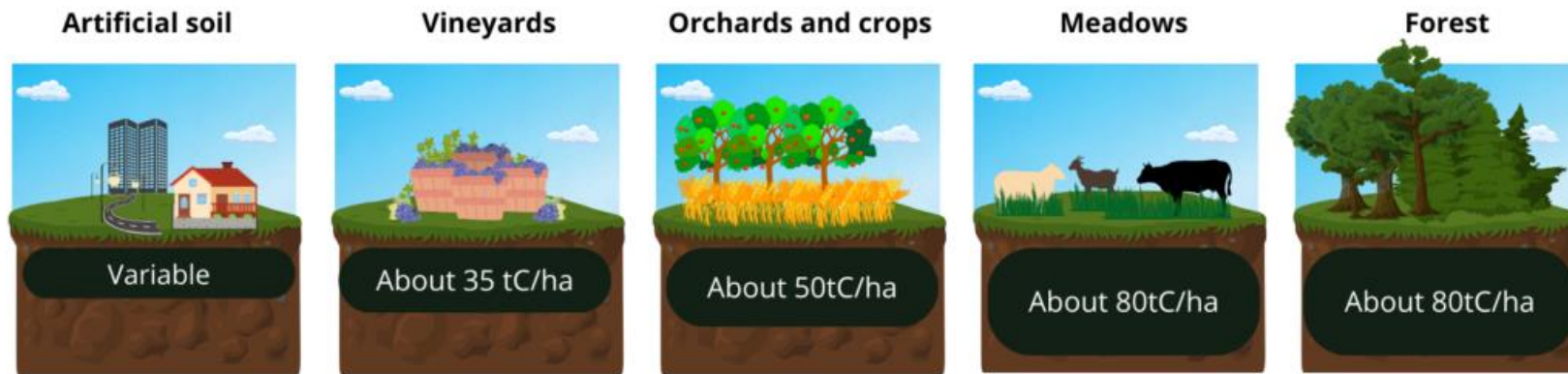
Milk carbon footprint



8 300 dairy farms



Carbon sequestration : Stock and storage!



1/ Maintaining carbon stock

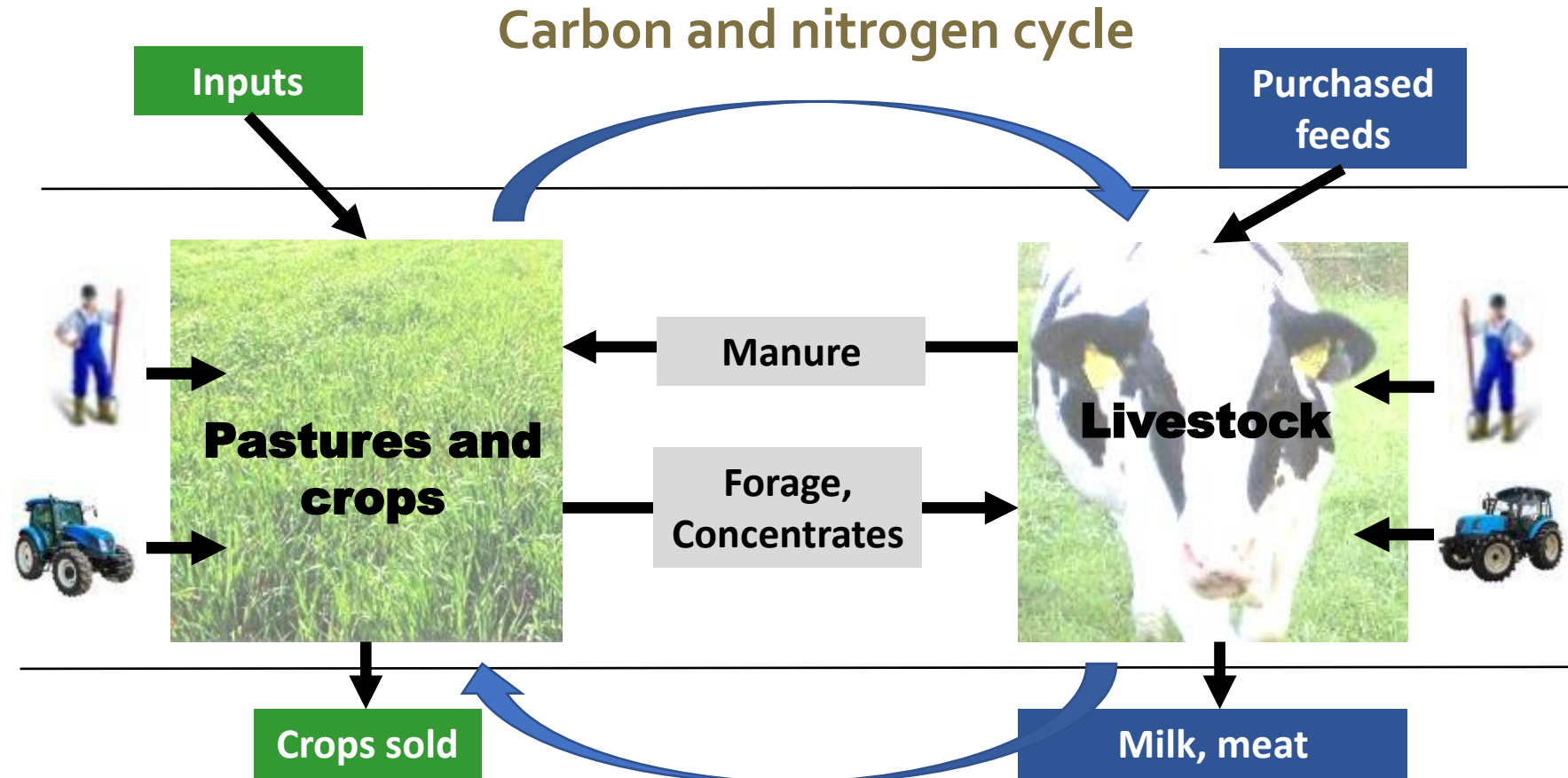
Estimation of the carbon stock in the first 30 centimeters of the soil (Source: diagram inspired by GIS Sol and ADEME, Soil organic carbon, the energy of agro-ecology, a solution for the climate)



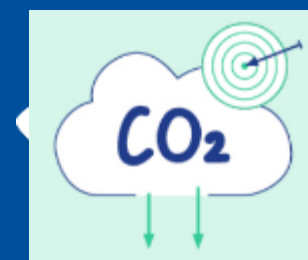
2/ Increasing carbon removals

Removals target : 310 millions CO₂ by 2030

The whole farm approach for assessing Technical & carbon performances




Mitigation, More than 40 practices ready to use




GHG emissions


Carbon sequestration




Crops management & fertilization
Legume crops,
Optimization of fertilizers uses
Rotation




Energy
No-till cultivation,
Power and equipment,
Working organization
Renewable energy




Inputs
Concentrates and fertilizers,
Pasture management,
Legumes



Feed
Feed efficiency,
Forage quality and yield



Manure management
Manure storage & application
Time spent in shed vs pasture,
Biogas production




Livestock management
Improving productivity
Reducing number of unproductive
animals, lipids

Cover crops


Introduce more
intermediate crops,
more row intercropping
and more
grass strips

Avoid bare soil


Never leave
soil bare
and work it less,
for example by
using no-till methods

Agroforestry


Add to the
hedges at field
boundaries
and develop
agroforestry

Grassland management


Optimize
pasture management
- with longer
grazing periods,
for example

The first step → A room for improving carbon footprint up to 15% to 25%



Emerging solutions for tomorrow



- **Methane emissions**

- **Genetic**

- Adaptation to CC
 - Feed efficiency in livestock production
 - Methane emissions

- **Feed additives**

- 3 NOP, tanins, algae, citrus

- **Manure & nitrogen management**

- Additives, nitrification inhibitors
 - Protected urea

- **Agroforestry**

- ...

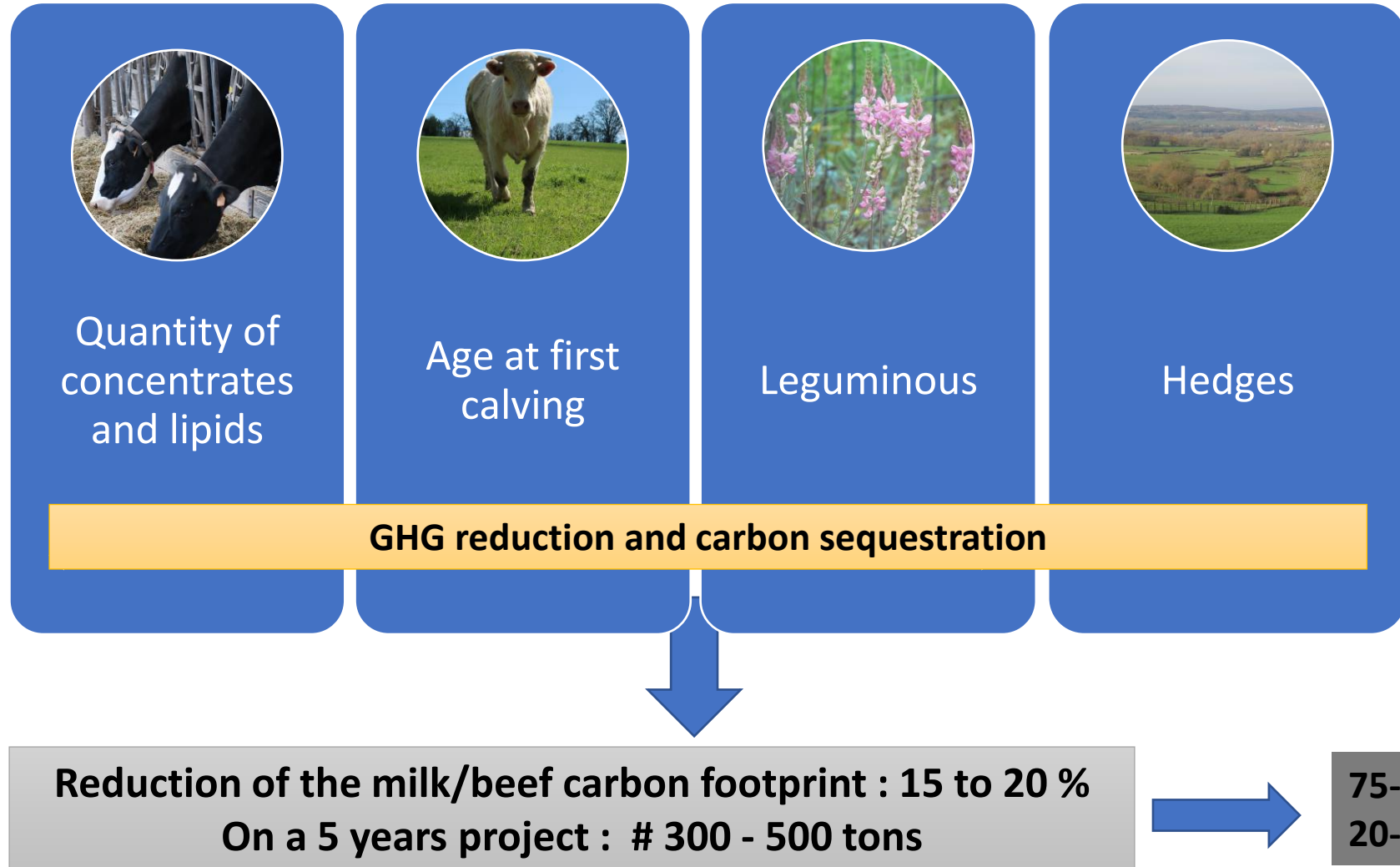


Genetic



Feed Additives

CO₂ avoided for an average cattle farm



What is the cost for farmers ?

Abatement costs



Quantity of
concentrates
and lipids



Age at first
calving



Leguminous



Hedges

GHG reduction and carbon sequestration

- 40€ to > 100 €/tons CO2

MRV costs

Farm audit

**Mitigation action
plan**

Technical advise

**CO2 reduction
quantification**

**Verification and
certification**

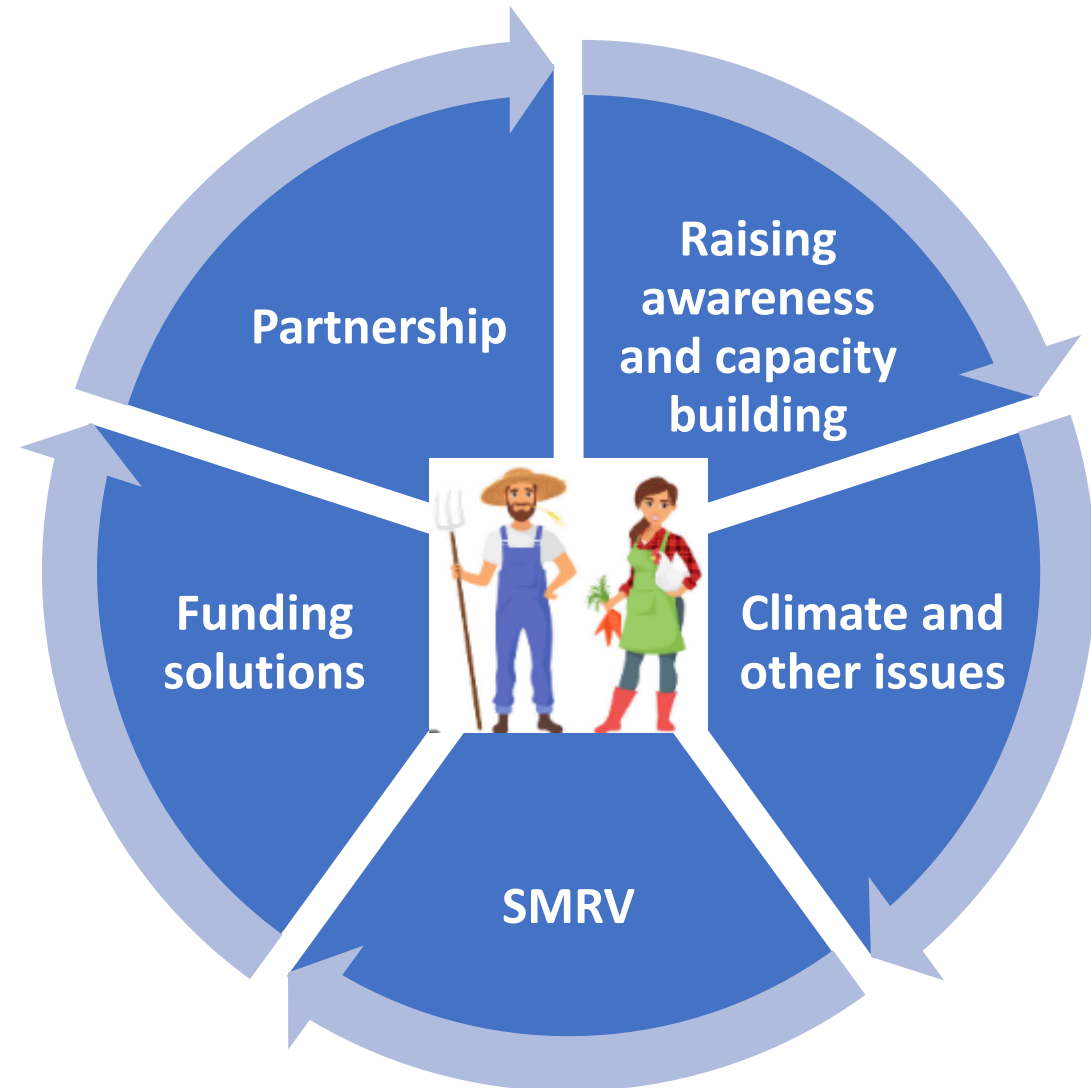
**Contracting
procedures**

5€ to >10€/tons CO2

Conditions for upscaling carbon farming

Farmers oriented

Farmers must not only be part of the initiative, we have to give them ownership of this climatic transition



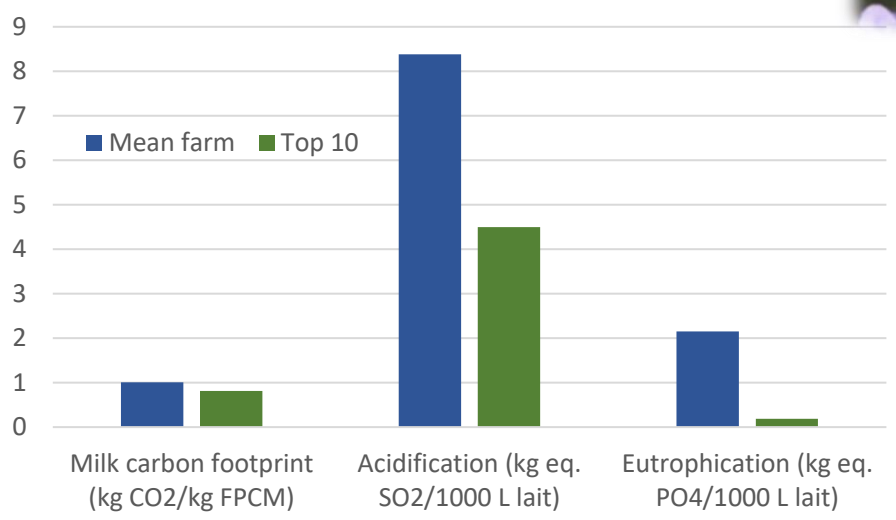
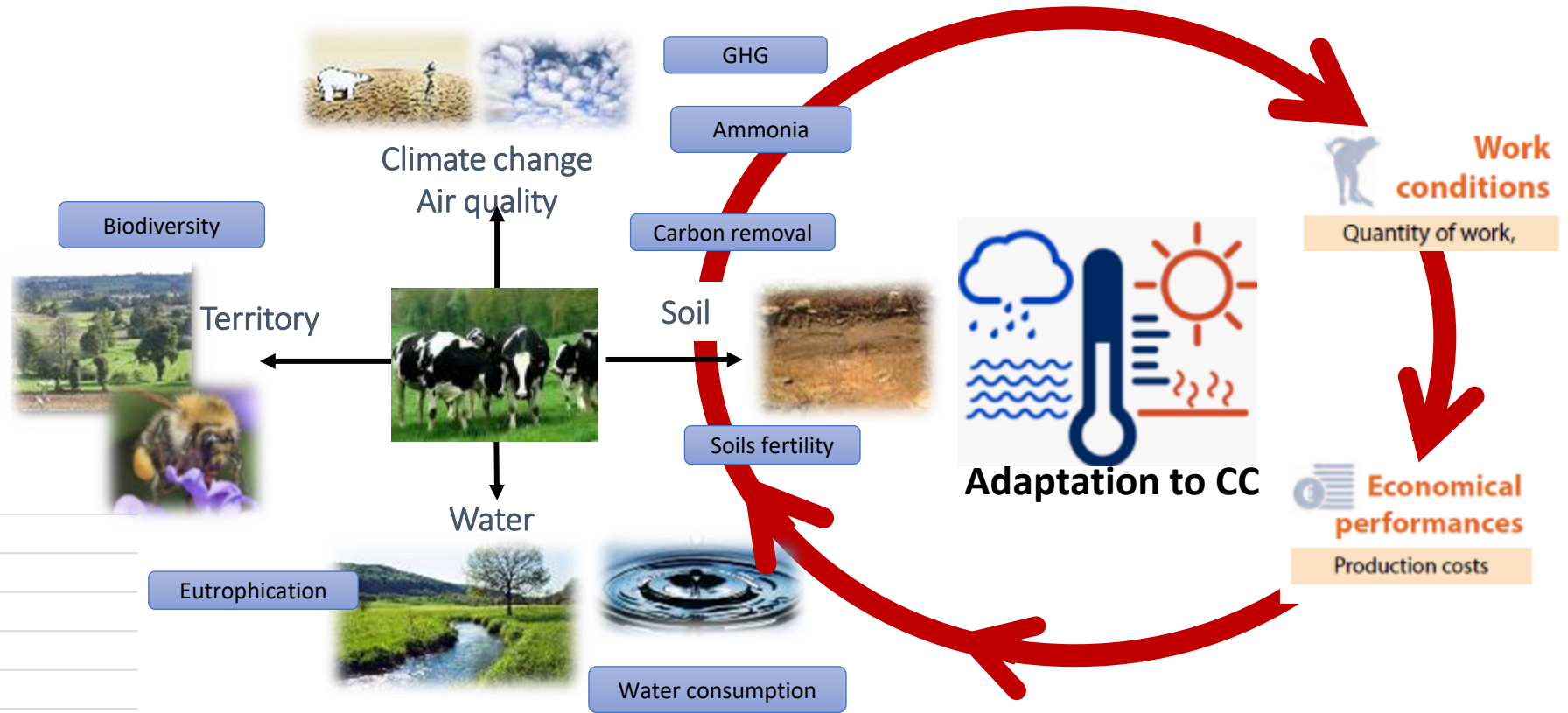
Raising awareness and capacity building



- *Training sessions for farmers and advisers*
- *Demonstration actions, peer to peer learning*
- *Living labs for testing innovative solutions*
- *Communication tools (conferences, farm open days, press,...)*



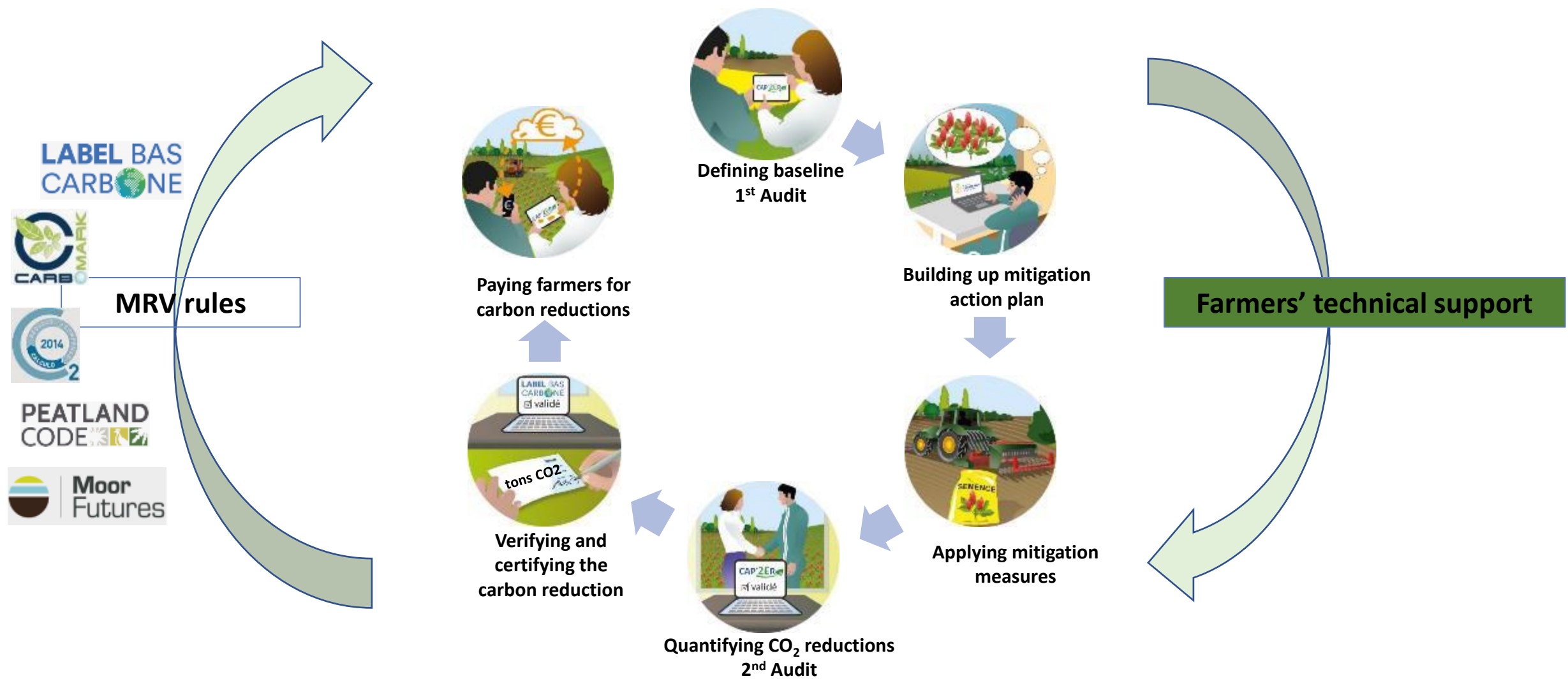
Climate and other issues i.e. considering sustainability issues



8 300 dairy farms



SMRV, Supporting, Monitoring, Reporting, Verifying



Coordinating result based and practice based funding sources ?

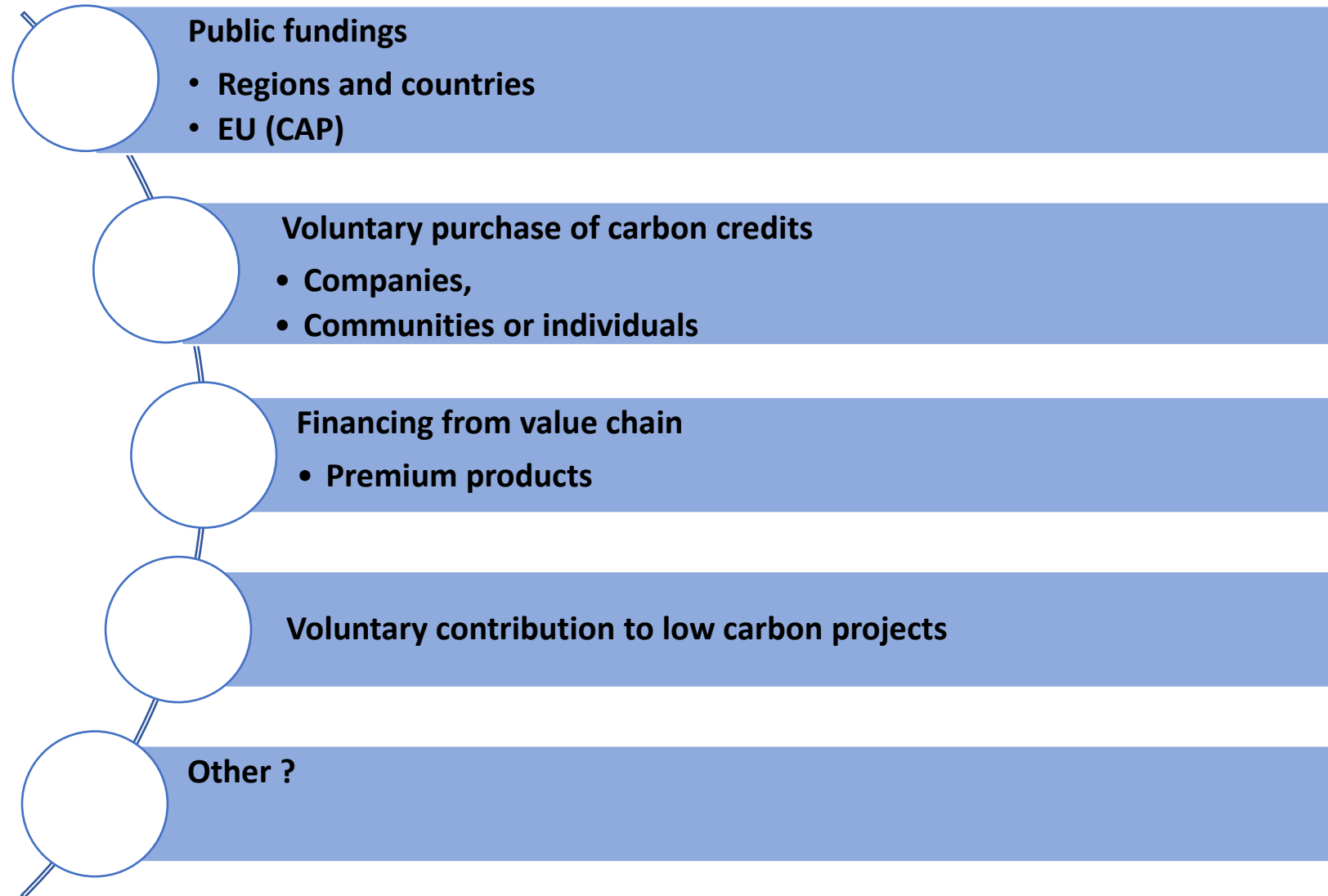
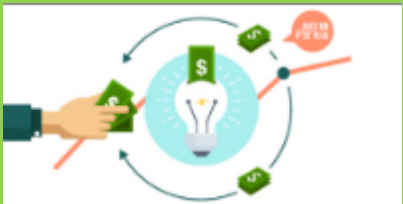
SMRV costs



RISK AVERSION



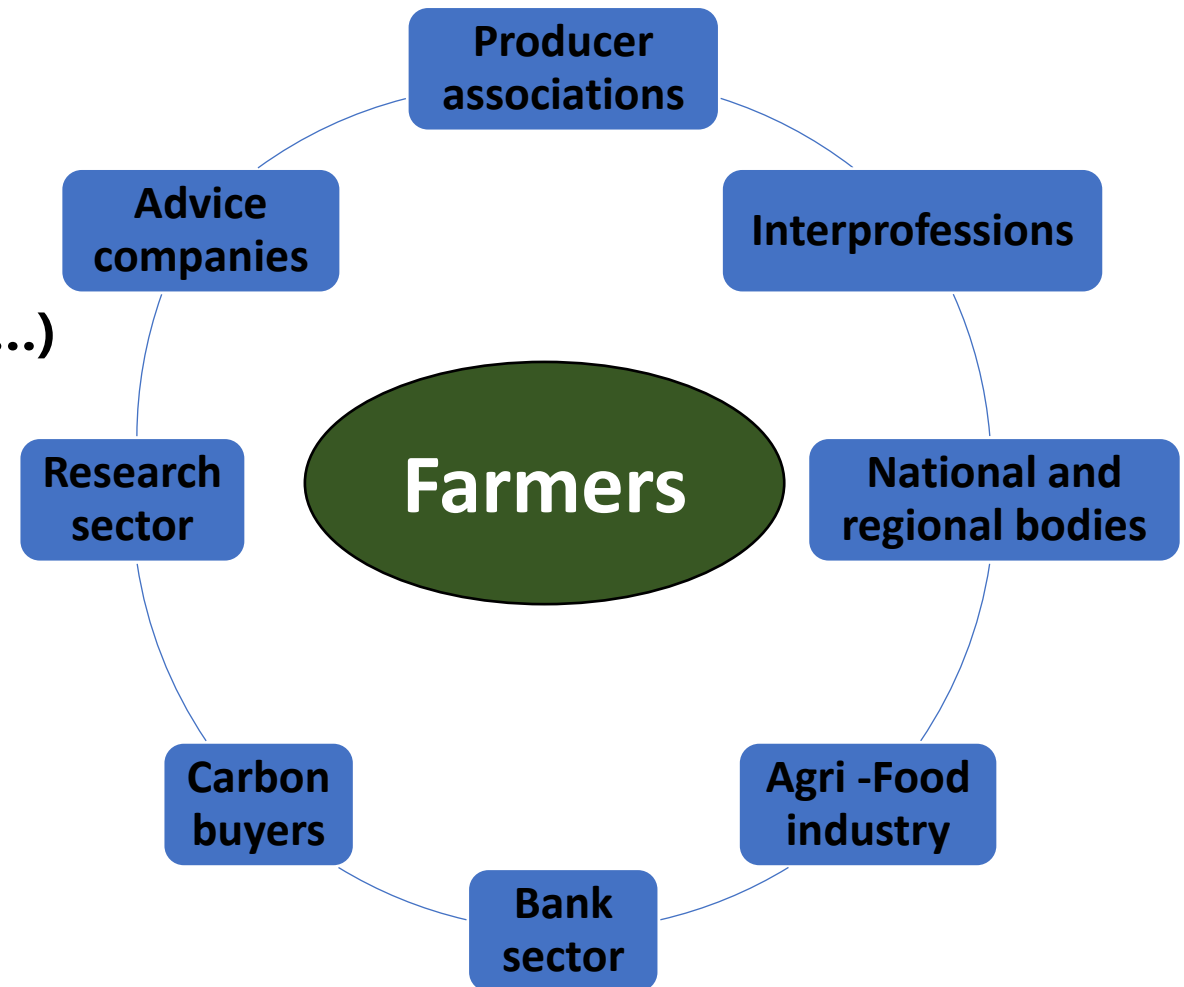
INVESTMENTS NEEDED



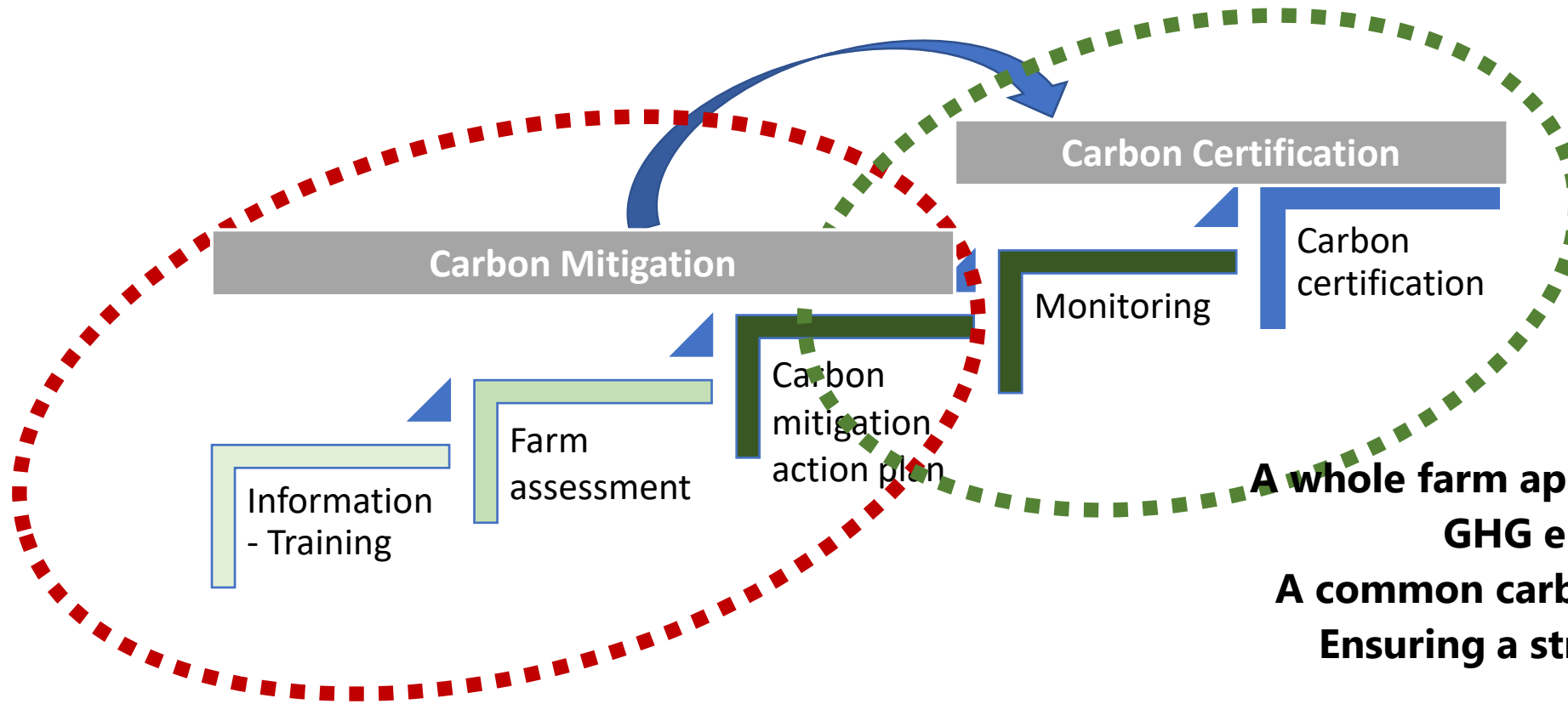
The partnership is crucial to success



- **National & EU levels**
 - Research activities and experimentation
 - Common framework (methodologies, tools,...)
 - Dissemination
 - Funding solutions
- **Complementary skills**
 - Recruiting farmers
 - Technical/environmental expertise
 - Communication
 - Financial value and economic development



Building the successive steps for involving farmers



- A whole farm approach for avoiding leakages**
- GHG emissions and C sequestration**
- A common carbon accounting methodology**
- Ensuring a strong environmental integrity**
- Partnership for upscaling**
- A cost-effective MRV**
- Rewarding mechanisms**

• ...

- *Presentation of the LIFE CARBON FARMING project*

Presentation of the LIFE Carbon Farming project



- **Objectives and partners**
- Elaborating harmonised tools and standards to implement low carbon initiatives on farms
 - Sustainable assessment of farms
 - A common MRV framework to certify low carbon projects on European farms
- Implementing low carbon projects in 700 mixed-crops livestock farms
- Elaborating reference costs of low carbon projects
- Implementing a result-based rewarding mechanism
- Implementing a low carbon network
- Inputs of the project for the Carbon Farming



Presentation of the LIFE Carbon Farming project


















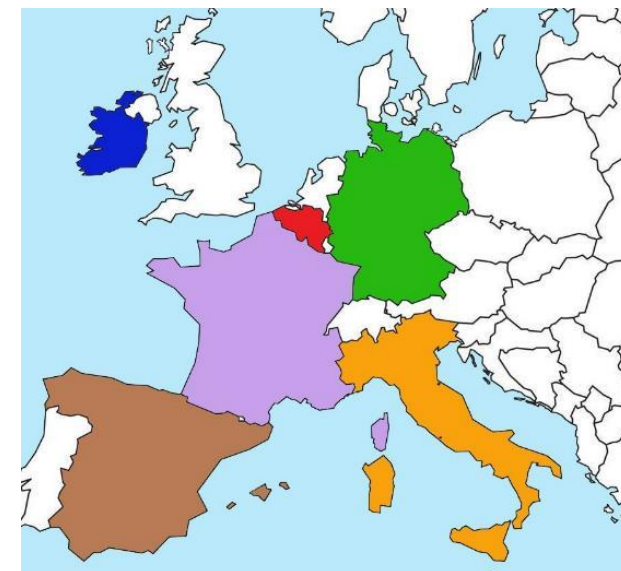
- Objectives of the project:
 - **Tackling climate change** by reducing by 15% the carbon footprint of 700 farms in 5 years
 - **Involving the farmers** for the implementation of low carbon practices
 - **Developing a result-based rewarding mechanism** through a **common certification framework, MRV**
 - **Positive impacts** on other environmental and socio-economic indicators
 - **Elaborating reference costs** of low carbon projects



Partners of the LIFE Carbon Farming project

Carbon Farming

Country	Partners
Germany	ATB 
Belgium	Université de Liège 
Spain	ASOPROVAC, Factor CO2, Neiker   
France	Idele, I4CE, Eliance, Interbev, CNIEL, La Coopération Agricole, Chambres d'Agriculture France       
Ireland	Teagasc 
Italy	CREA, CRPA  



What can bring the LIFE Carbon Farming project regarding the context in Germany?



LIFE Carbon Farming – Workshop on 25th January

→ A first project on certification in a country where there is no existing certification framework on farm's scale.

Aura Cárdenas and Barbara Amon

Acardenas@atb-Potsdam.de



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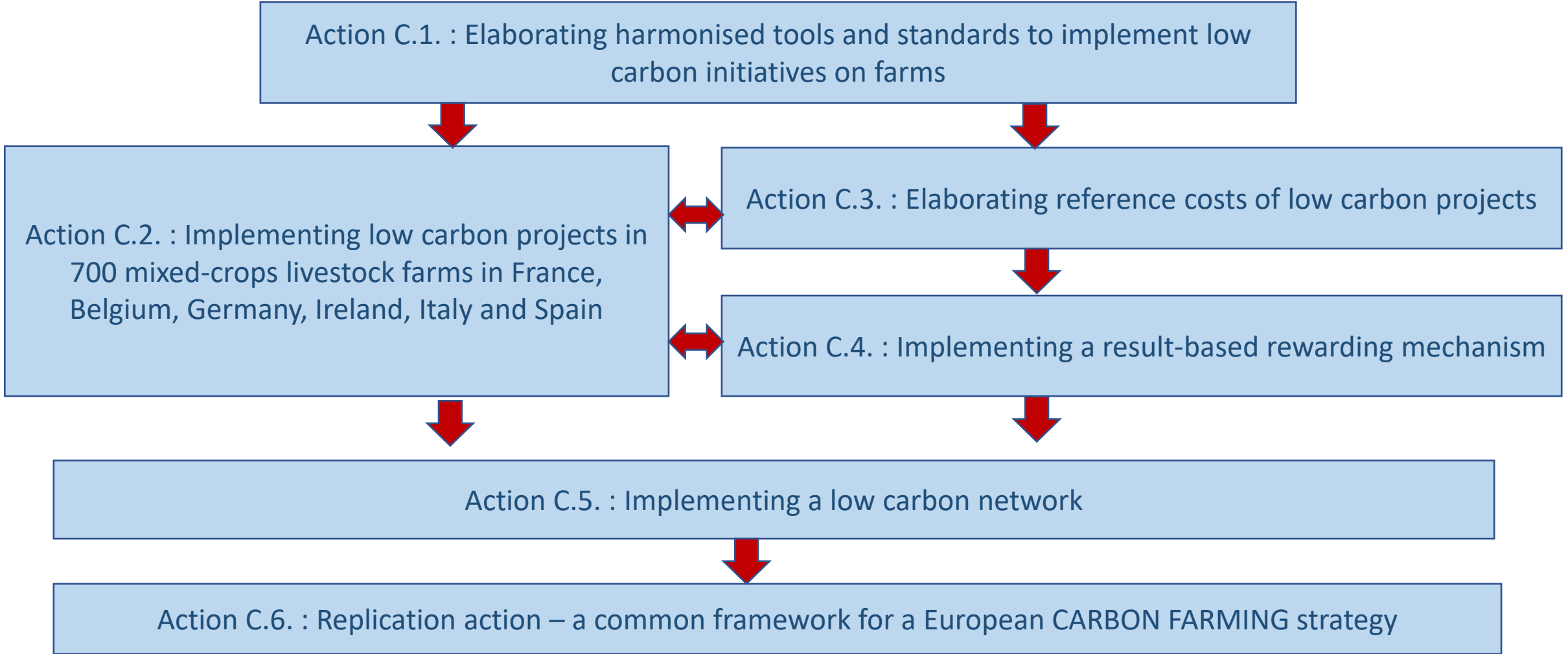
German participation

- will allow us to evaluate which measures are best suited to the German context.
- will allow to follow closely the advances in terms of carbon certification and to see its applicability in the country.
- Baseline for future Scale up
- We will be a reference point for future projects, the lessons learned will be taken into account to formulate and execute new projects at the farm level

.....



Technical actions



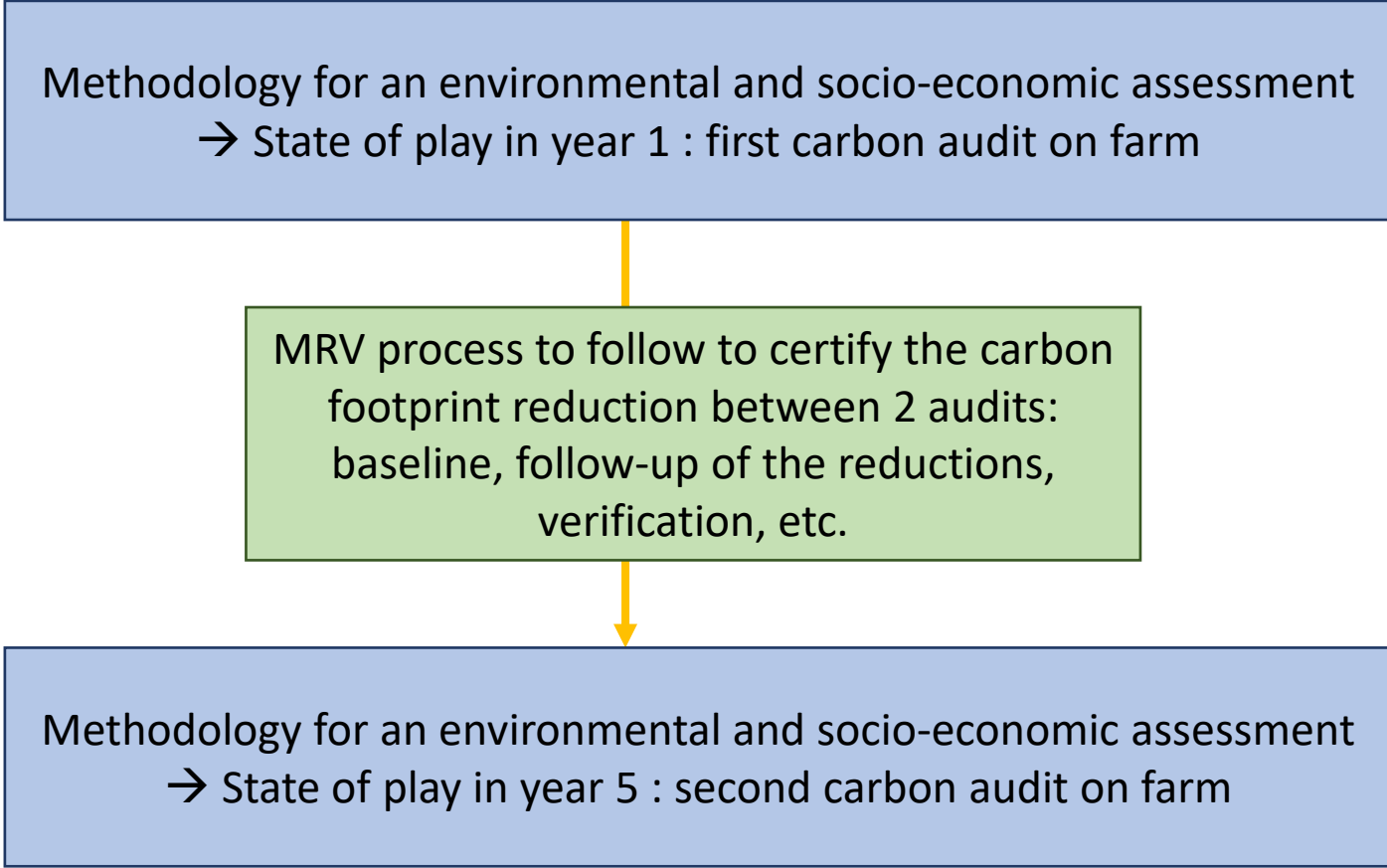
Presentation of the LIFE Carbon Farming project

Carbon
Farming

- Objectives and partners
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Elaborating harmonised tools and standards to implement low carbon initiatives on farms



Presentation of the LIFE Carbon Farming project

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Elaborating harmonised tools and standards to implement low carbon initiatives on farms



- Three tools used in the frame of the project

The Beef Carbon Navigator
Improving carbon efficiency on Irish beef farms

The Farm Carbon Navigator was developed by Teagasc and Bord Bia as an advisory tool to support the roll out of Origin Green at farm level.
www.qas.bordbia.ie

CAP'ZER AN ENVIRONMENTAL FOOTPRINT CALCULATOR AND DECISION MAKING FOR RUMINANTS LIVESTOCK SYSTEMS

Assess your environmental performances and farm's sustainability, to improve farming systems and practices

A MULTICRITERIA ANALYSIS TO EVALUATE SUSTAINABILITY

CAP'ZER® allows to assess :

- Positive contributions of the farm
 - Carbon sequestration (kg carbon/year)
 - Conservation of biodiversity (kg ag of biodiversity)
 - Food performance (Number of hd/pair/year)
- Environmental impacts
 - Greenhouse gases emissions (kg CH₄, kg N₂O, kg CO₂ → kg CO₂e)
 - Air quality (acidification) (kg NH₃ emitted → kg SO₂e)
 - Water quality (eutrophication) (kg N and kg P leaching → kg PO₄e)
 - Energy consumption (Direct and indirect energy → MJ)
- Economical performances and work
 - Economical performances (Production costs)
 - Work conditions (Quantity of work, pain/breath...)

CAP'ZER® is for :

- Livestock systems
 - Dairy cattle
 - Beef cattle
 - Sheep cattle
- Public
 - Farmers
 - Livestock advisers

BOVIDO²

Herramienta de evaluación ambiental de apoyo técnico a granjas de vacuno

Evaluar su productividad medioambiental y la sostenibilidad de la granja, situarse con respecto a referencias y reaccionar para progresar.

Un análisis multicriterio de evaluación de la sostenibilidad.

BOVIDO² permite determinar:

- Las contribuciones positivas de la granja
 - Fijación de carbono (kg carbono/ha)
 - Mantenimiento de la biodiversidad (Su equivalente de biodiversidad)
 - Productividad alimenticia (Módulo de portar animales/ha)
- Los impactos sobre el medioambiente
 - Cambio Climático (kg CH₄, kg N₂O, kg CO₂ → kg CO₂e)
 - Calidad del agua (Eutrofización) (kg N y kg P)
 - Calidad del aire (acidificación) (kg NH₃ emitidas → kg SO₂e)
 - Agotamiento de fuentes fósiles (Energía directa e indirecta → MJ)
- Productividad económica y laboral
 - Rendimiento económico (Coste de producción / Producto bruto)
 - Condiciones de trabajo (Cantidad y calidad de trabajo)

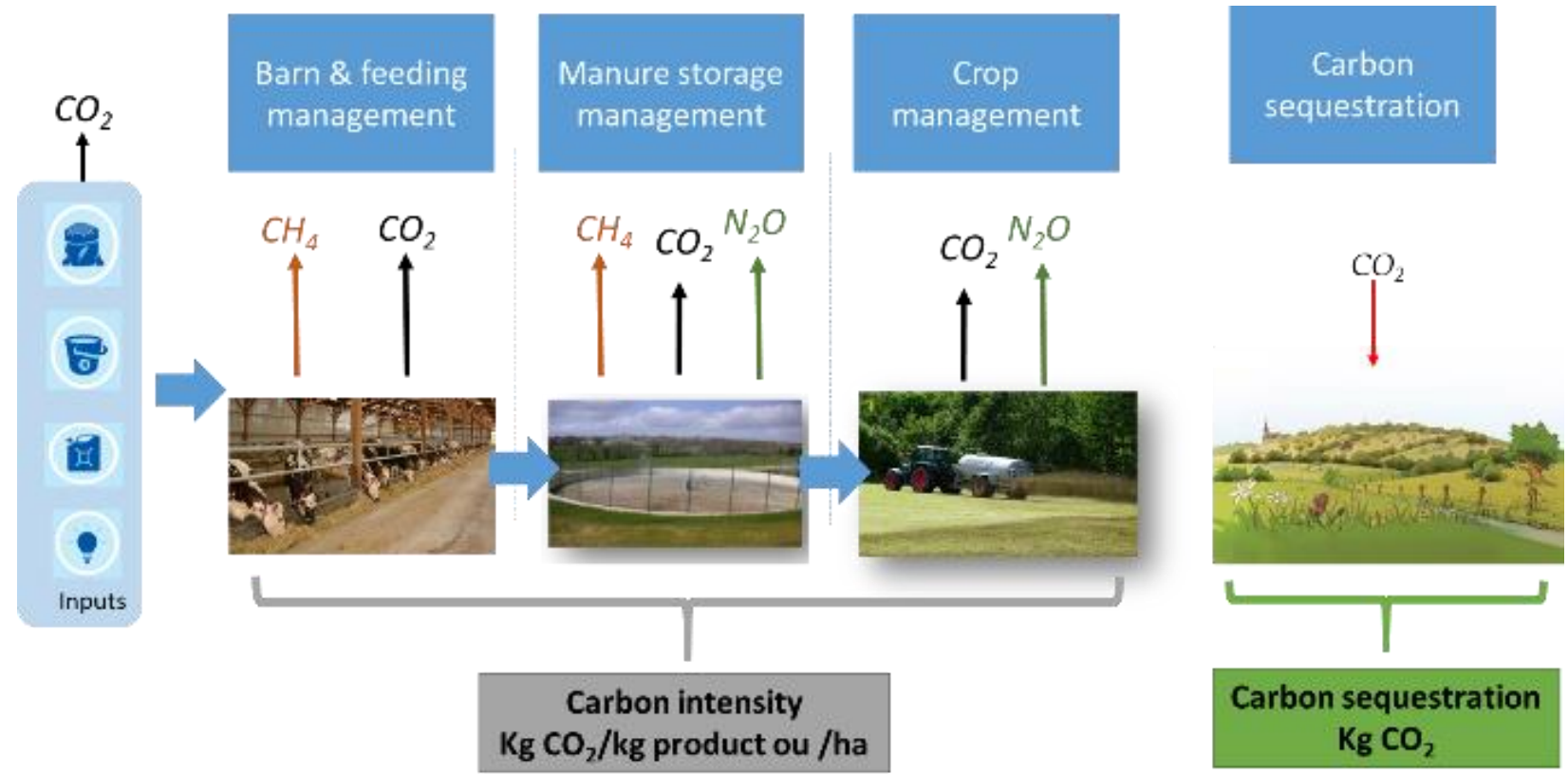
BOVIDO² está destinado a:

- Sector: Vacuno de carne.
- Público: productores, consultores, técnicos.

Elaborating harmonised tools and standards to implement low carbon initiatives on farms



- Overall assessments carried out on farms



Elaborating harmonised tools and standards to implement low carbon initiatives on farms

What is sustainability?

“sustainable development (SD) generally refers to achieving a balance among the environmental, economic, and social pillars of sustainability”
(Murphy, 2012)

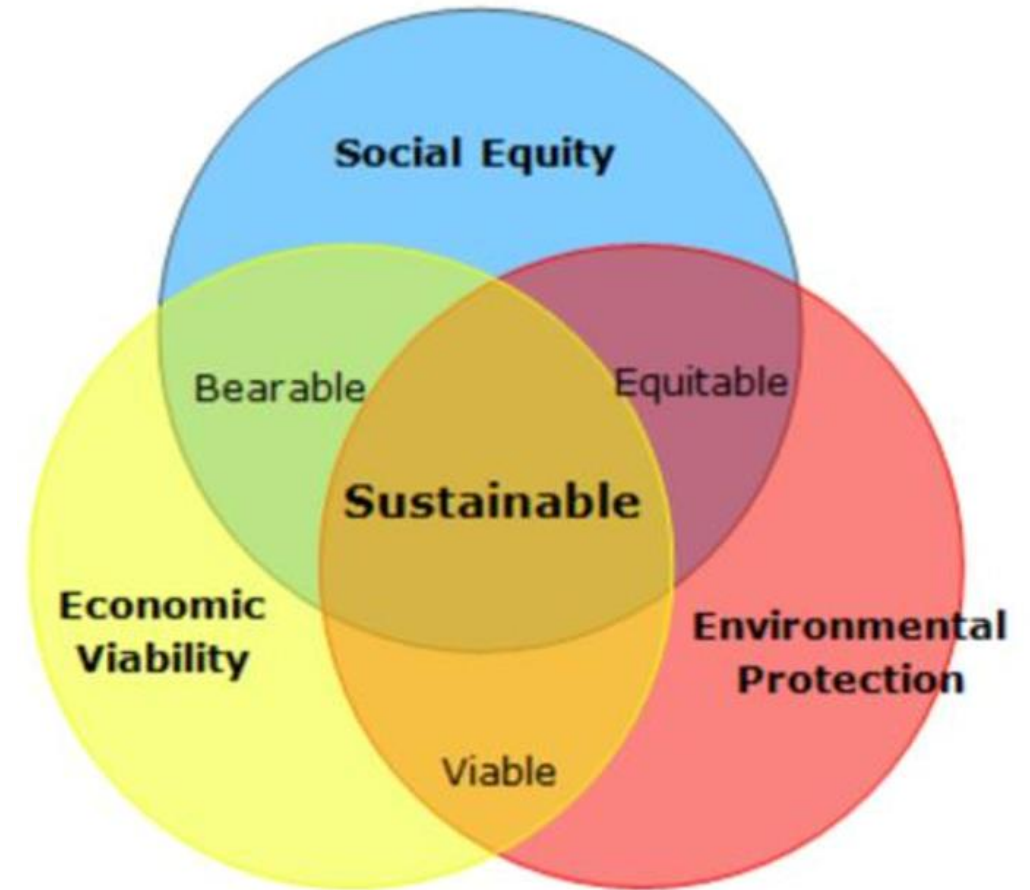


- Need to assess indicators for each of the pillars

Drivers of farmers participation to agro-environmental schemes

- Social: Age, education, successor...
- Economic: Income factors

(Lastra-Bravo et al., 2015)



Elaborating harmonised tools and standards to implement low carbon initiatives on farms



Indicators to be implemented

Environmental indicators => tools to assess environmental impacts



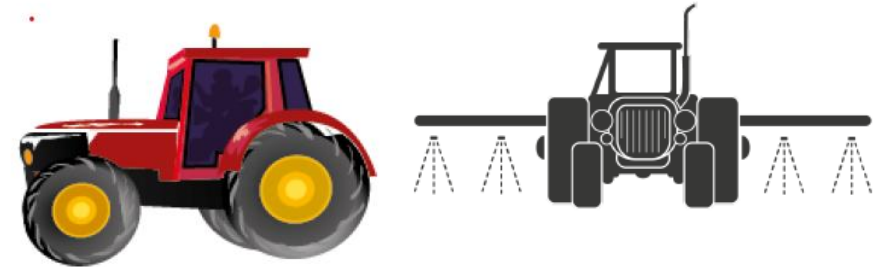
Crops management



Herd management



Farm management



Elaborating harmonised tools and standards to implement low carbon initiatives on farms



Indicators to be implemented

Social indicators: figures/ multiple choice

=> some: already in environmental audit tools

- Working hours
- Working conditions
- Services for territory
- Farm continuity
- Balance personal/professional life
- Products quality
- Employees on the farm
- Animal Welfare

Working hours

What is the number of worked hours per week?

Over-working - Do you feel overwhelmed/stressed?

- Not at all
- Only during peak times but it's occasional
- Sometimes
- Most of the time
- All the time

Working conditions

Physical hardness - Do you worry about the physical hardness of your work?

- Not at all
- Very little
- Moderately
- Preoccupied
- Very preoccupied

Elaborating harmonised tools and standards to implement low carbon initiatives on farms



Indicators to be implemented

Economic figures to be collected

- Income per labour unit
- Dependence on subsidies
- Debt ratio
- Exposure to price fluctuations
- Transmissibility
- Economic efficiency



Presentation of the LIFE Carbon Farming project



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Elaborating harmonised tools and standards to implement low carbon initiatives on farms



- **A common MRV framework to certify low carbon projects on European farms**

→ *Based on the French experience of the Label Bas Carbone with the Carbon Agri method and with adaptation to national contexts.*

→ **First basis of the Carbon Farming method:**

- Baseline scenario
- Practices to be implemented
- Monitoring of the low carbon projects
- Calculation of the carbon gains
- Verification

→ **Carbon Farming Method will consider all alternatives to minimise MRV costs e.g. reducing data collection thanks to existing policy reporting requirements, facilitating advisers support and exchanges with farmers.**



A common MRV framework to certify low carbon projects on European farms



Maximum duration: 5 years, revolving project for 5 years



Carbon audit

Baseline scenario
= Carbon diagnostic specific to each farm



A common MRV framework to certify low carbon projects on European farms



GHG emissions

Carbon sequestration



Inputs
Pasture management,
Concentrates and fertilizers,
Legumes, Crops rotation



Fuel and electricity
No-till cultivation,
Power and equipment,
Working organization



Crops management & fertilization
Legume fodder crops,
Optimization of fertilizers uses



Herd management
Increasing productivity
Reducing number of unproductive animals



Feed
Feed efficiency,
Forage quality and yield



Manure management
Time spent in shed vs pasture,
Biogas production

Cover crops

Introduce more intermediate crops, more row intercropping and more grass strips

Avoid bare soil

Never leave soil bare and work it less, for example by using no-till methods

Agroforestry

Add to the hedges at field boundaries and develop agroforestry

Grassland management

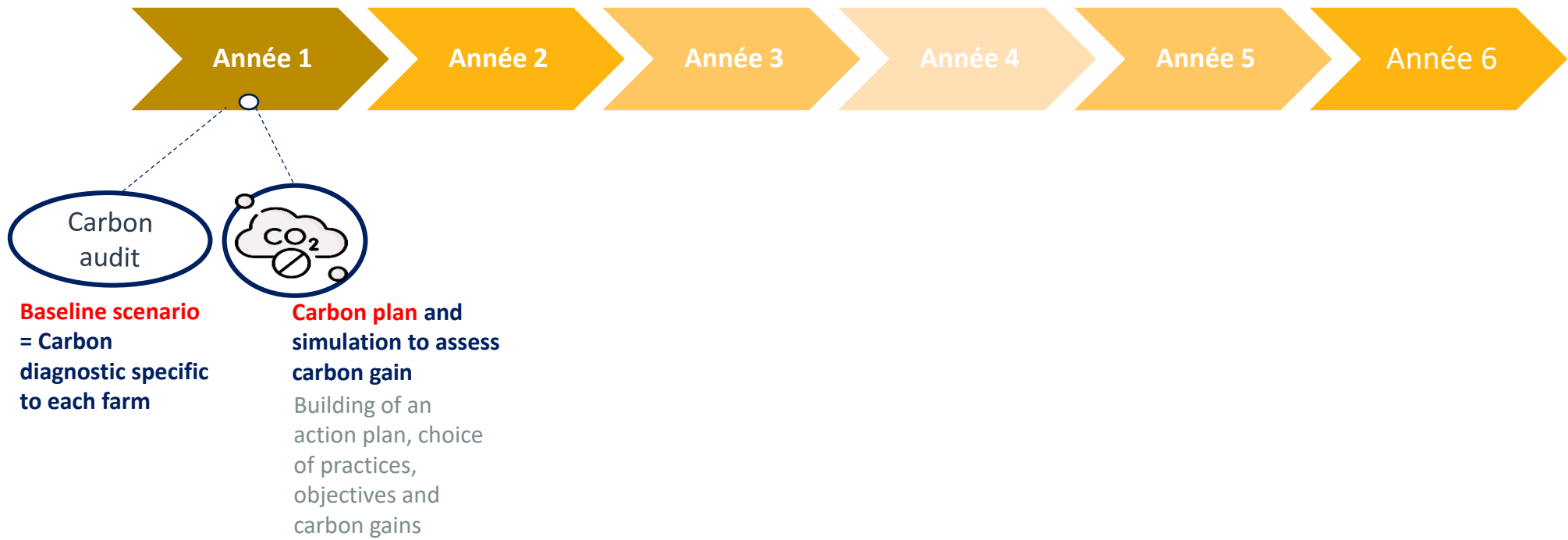
Optimize pasture management – with longer grazing periods, for example



A common MRV framework to certify low carbon projects on European farms



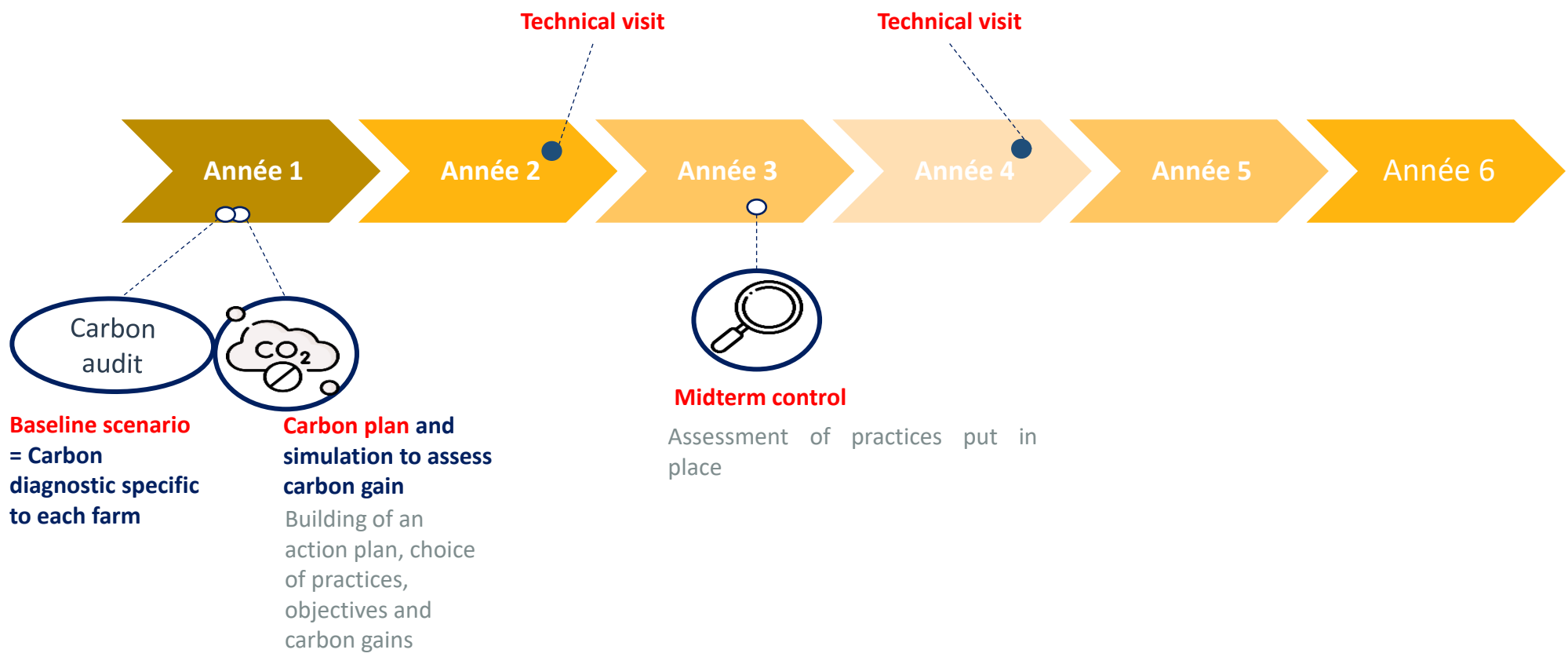
Maximum duration: 5 years, revolving project for 5 years



A common MRV framework to certify low carbon projects on European farms



Maximum duration: 5 years, revolving project for 5 years



Baseline scenario
= Carbon diagnostic specific to each farm

Carbon plan and simulation to assess carbon gain
Building of an action plan, choice of practices, objectives and carbon gains

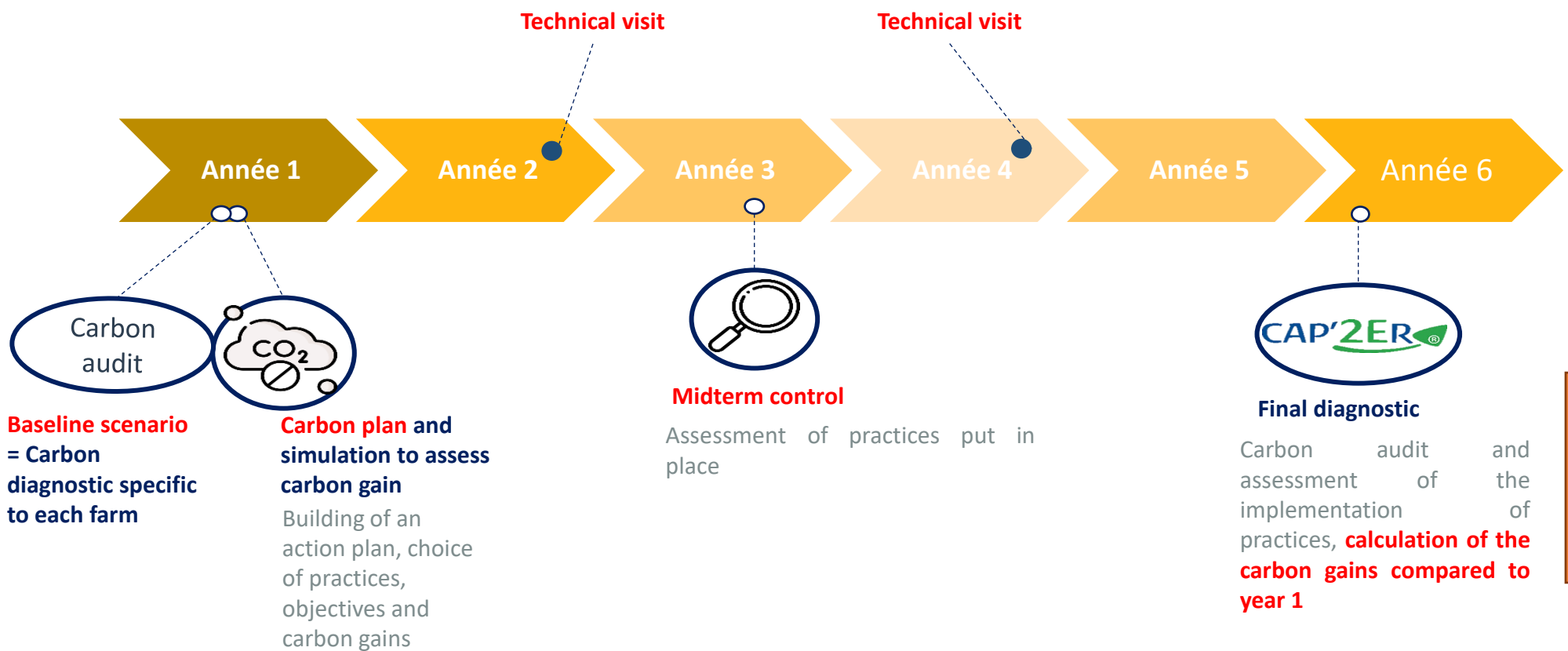
Midterm control
Assessment of practices put in place



A common MRV framework to certify low carbon projects on European farms



Maximum duration: 5 years, revolving project for 5 years

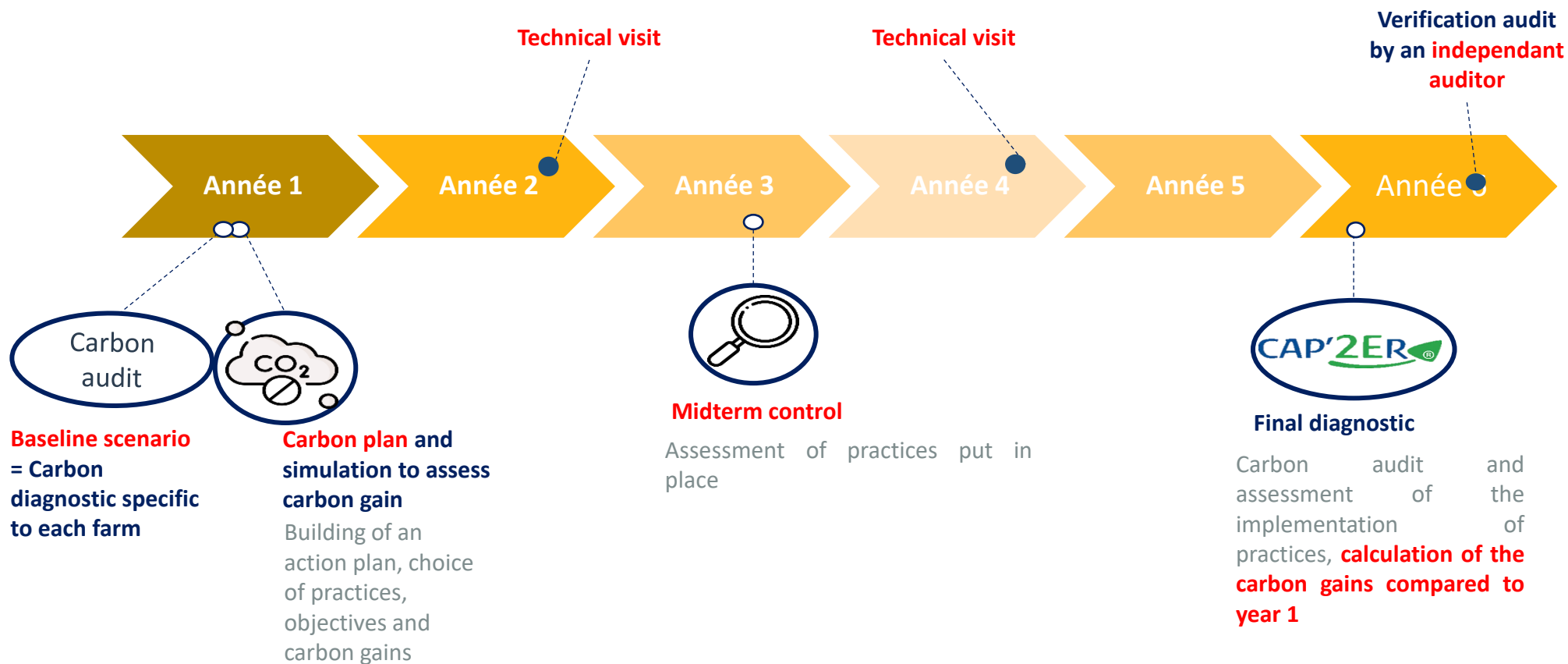


Calculation of the carbon gains

A common MRV framework to certify low carbon projects on European farms



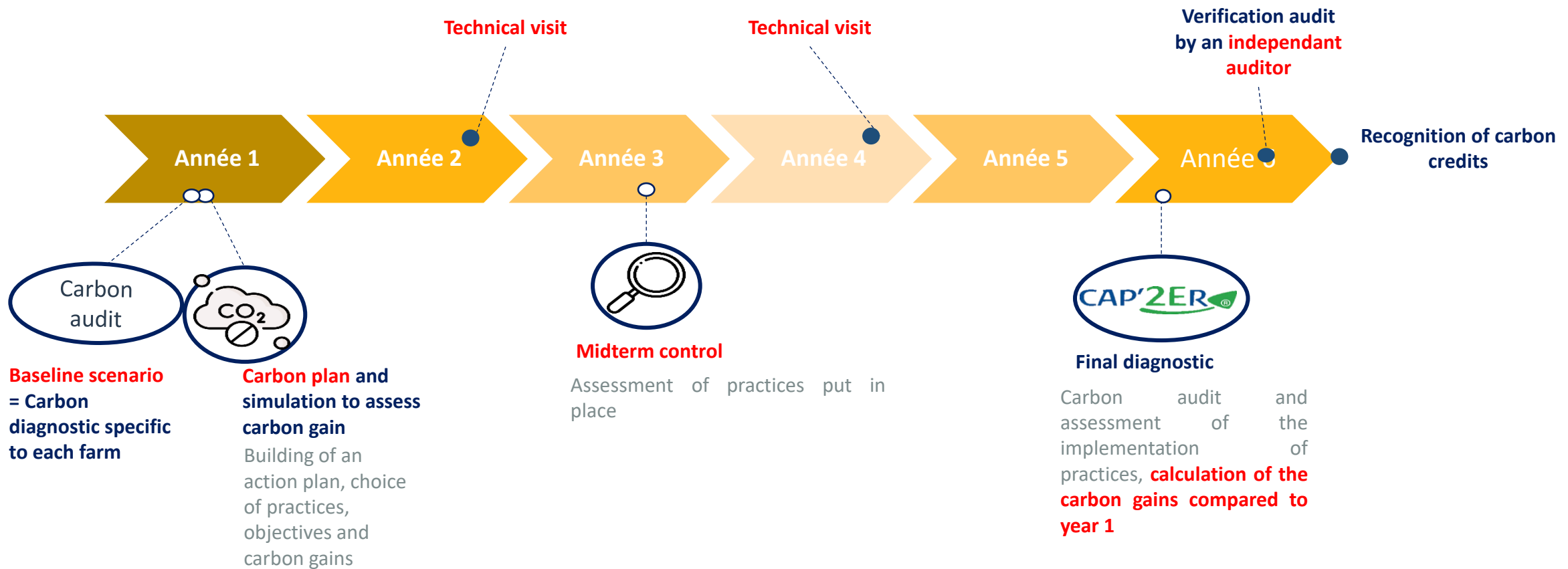
Maximum duration: 5 years, revolving project for 5 years



A common MRV framework to certify low carbon projects on European farms



Maximum duration: 5 years, revolving project for 5 years



Presentation of the LIFE Carbon Farming project

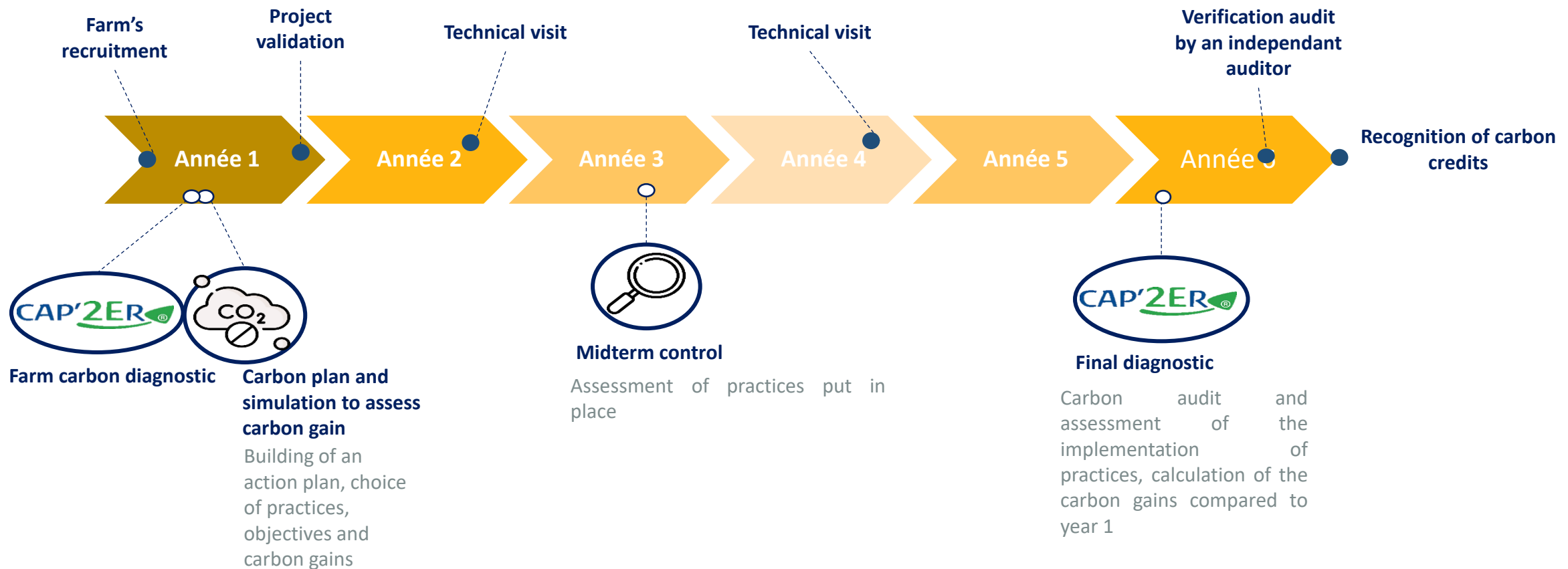
Carbon
Farming

- Objectives and partners
- Elaborating harmonised tools and standards to implement low carbon initiatives on farms
 - Sustainable assessment of farms
 - A common MRV framework to certify low carbon projects on European farms
- **Implementing low carbon projects in 700 mixed-crops livestock farms**
- Elaborating reference costs of low carbon projects
- Implementing a result-based rewarding mechanism
- Implementing a low carbon network
- Inputs of the project for the Carbon Farming

Implementing low carbon projects in 700 mixed-crops livestock farms



Maximum duration: 5 years, revolving project for 5 years



Focus on the first's years :



- *Recruitment :*

- Phone call
- Partnership (most of them are dairy industries)
- Other greenhouse gas reduction program

- *Diagnostic :*

- Sending an email to the producers with the description of the meeting and asking them to send the documents
- Going at farm - and making the CAP'2ER
- Make the restitution if possible and try to start talking about the different ways of reduction

- *Carbon plan and budget :*

- A balance between your knowledge and the projects of the breeders and other advisers !

Benefits :



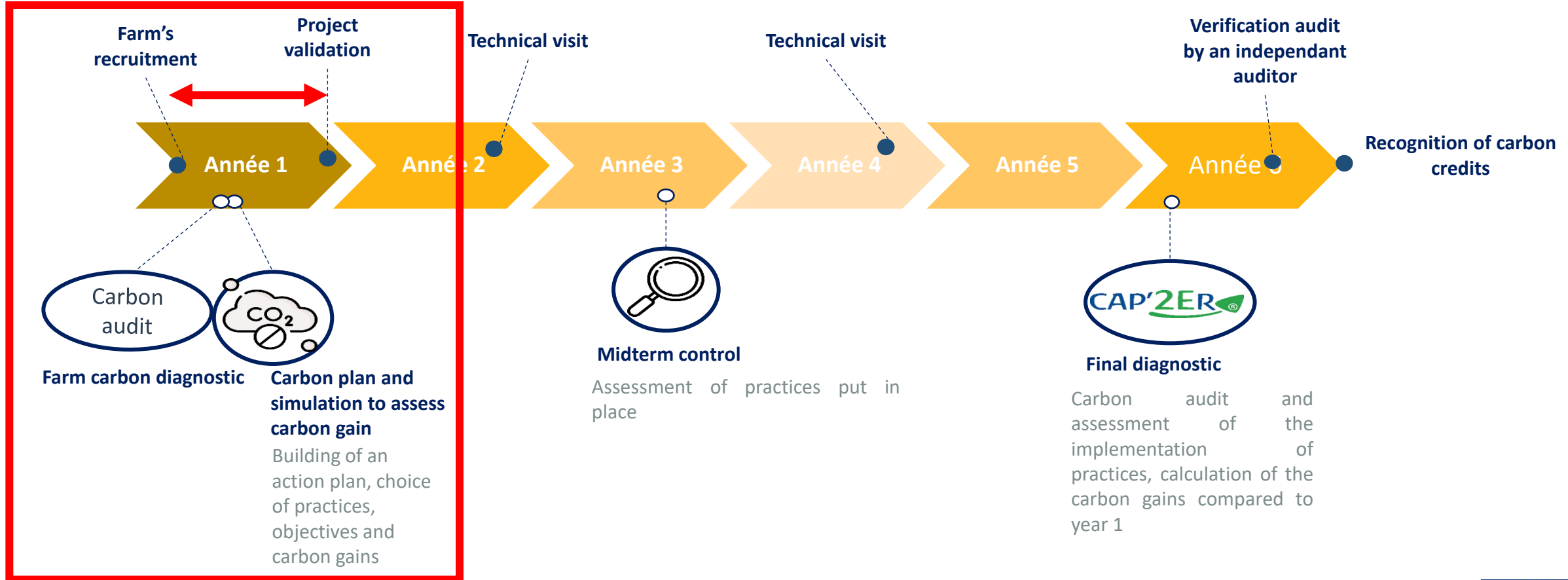
- Technical visit :
 - Carried out by one of our specialized advisers on a theme or another organization chosen by the breeder

- Farmer benefits :
 - « Know where our farm is » -> **Knowledge**
 - “ It's interesting to know that our projects are going in the right direction” -> **Validation**

Implementing low carbon projects in 700 mixed-crops livestock farms



Maximum duration: 5 years, revolving project for 5 years



How to manage the Knowledge transfer in the Life Carbon Farming project?



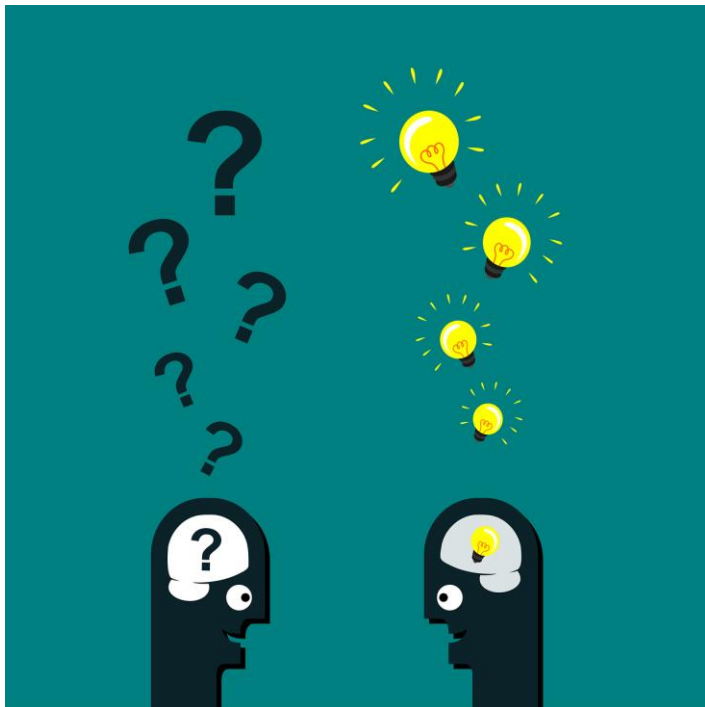
Knowledge transfer as "the process through which one unit (e.g., group, department, or division) is affected by the experience of another
Argote & Ingram (2000)



This process allows research results, discoveries, scientific findings, intellectual property (IP), technology, data and knowhow to flow between different stakeholders:

from universities and research institutions to industry or governmental institutions, generating economic value and industry development.

How to manage the Knowledge transfer in the Life Carbon Farming project?



Researcher



Advisor, technicians, farmers

Training

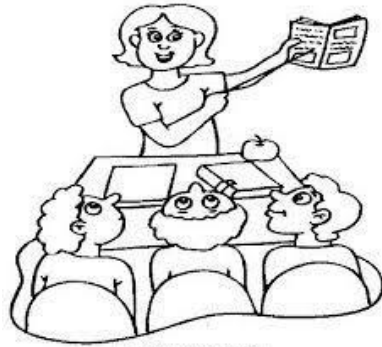
Researchers, Advisor



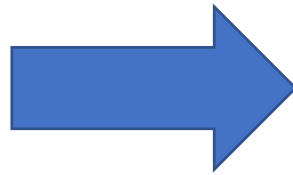
Network with policymakers, consumers, value chain, ecc.



How to manage the Knowledge transfer in the Life Carbon Farming project?



CREA



COLDIRETTI



AGRICOLTORI ITALIANI



azove



ITALIAZOOTECNICA



INTER CARNE ITALIA

Advisors

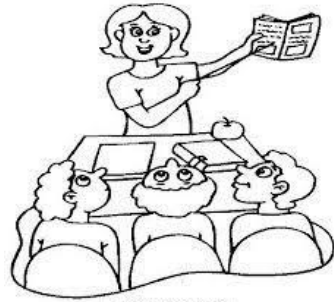


1. **Training kit** which describe environmental issues in beef and dairy production, methodology to assess environmental impacts, the mitigation strategies, the gain permitted by each one, MRV mechanism.....

2. **Organization of advisers training course** with the aim to show the CARBON FARMING project, information n climate change, environmental tools, production systems, environmental impact of dairy and beef farms, mitigation techniques to reduce GHG emissions



How to manage the Knowledge transfer in the Life Carbon Farming project?



Advisor+ CREA

organization of training sessions (courses, workshop, farm's open day, farmers network)



beef farmers



dairy farmers

whole beef and dairy value chain

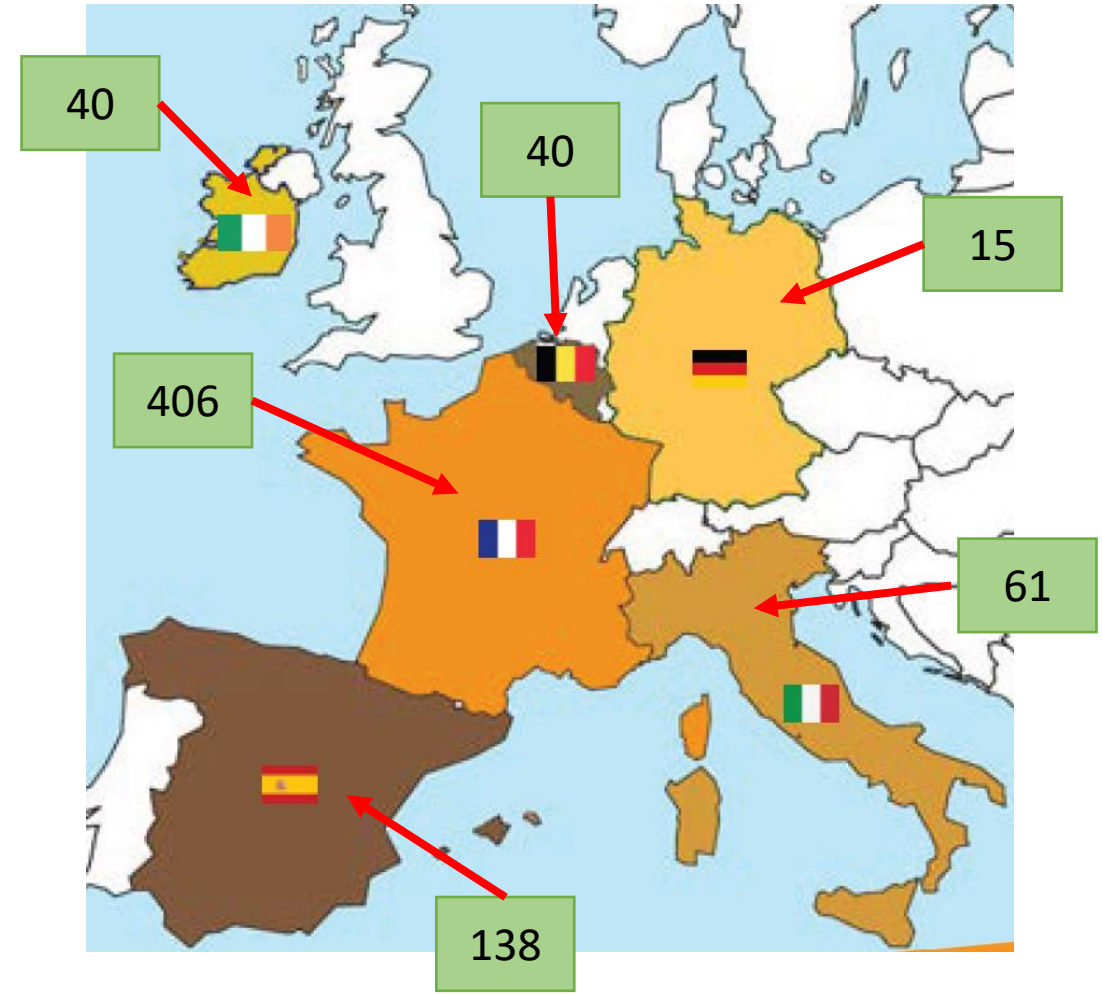
- ❖ to promote the Italian CARBON FARMING action plans and the approach to environmental sustainability (tool, MRV process, funding mechanism) developed in the LIFE CARBON FARMING project,
- ❖ to improve the continuous exchange of information, practical knowledge and innovative solutions for a “**low carbon beef and dairy production**”.



Implementing low carbon projects in 700 mixed-crops livestock farms



- Objective to involve 700 farms in the project
- Trainings of advisors carried out or planned
- Initial carbon audits and carbon plan on progress



Presentation of the LIFE Carbon Farming project

Carbon
Farming

- Objectives and partners
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- Implementing a result-based rewarding mechanism
- Implementing a low carbon network
- Inputs of the project for the Carbon Farming



Elaborating reference costs of low carbon projects

- **Objectives:**
 - Private administrative costs referential
 - Technical costs referential
 - Marginal abatement cost curves
-
- Reduction evaluation : the volume of GHG emissions/carbon sequestration saved over the project lifetime (5 years)
 - The sum of private admin and technical costs will permit to elaborate an abatement cost referential in €/t CO₂ reduction

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Why it is important to discuss the project with public authorities.



1. This project needs recognition from the administration at several levels:

- Recognition of BAT calculation methodologies;
- Avoidance of double counting for the same practices;
- Possible inclusion of improvements in inventories
- Avoid greenwashing

2. Developing incentives to reduce the carbon impact of the land sector

3. Without the recognition of the administration, it will be impossible for small and medium sized farmers to engage in improving their practices beyond what is legally required.



Do not limit the European carbon certification framework to carbon removals



- Carbon sinks, but also GHG sources as prescribed in IPCC guidelines
- Payments on results are a solution to ensure the environmental impact of funding
- Include indirect emissions in the scheme
- It is essential to consider N₂O and CH₄ emissions:
 - Certify only those projects that have no negative impact on N₂O and CH₄ emissions or;
 - Certify net sequestration (carbon sequestration minus any increase in N₂O and CH₄ emissions)
- Deal with carbon sinks, emission reductions and indirect emissions within the same framework BUT to count them separately
- Deal to several certifications could discourage from focusing on both carbon sequestration and emissions reductions"



Ensure strong environmental integrity

- The labelled practices they must not lead to negative effects on other environmental issues
- To back up the calculation of the carbon impact with indicators for monitoring other issues.
- This integration should be discussed with stakeholders and the scientific community to validate together the choices and keep in mind European objectives.

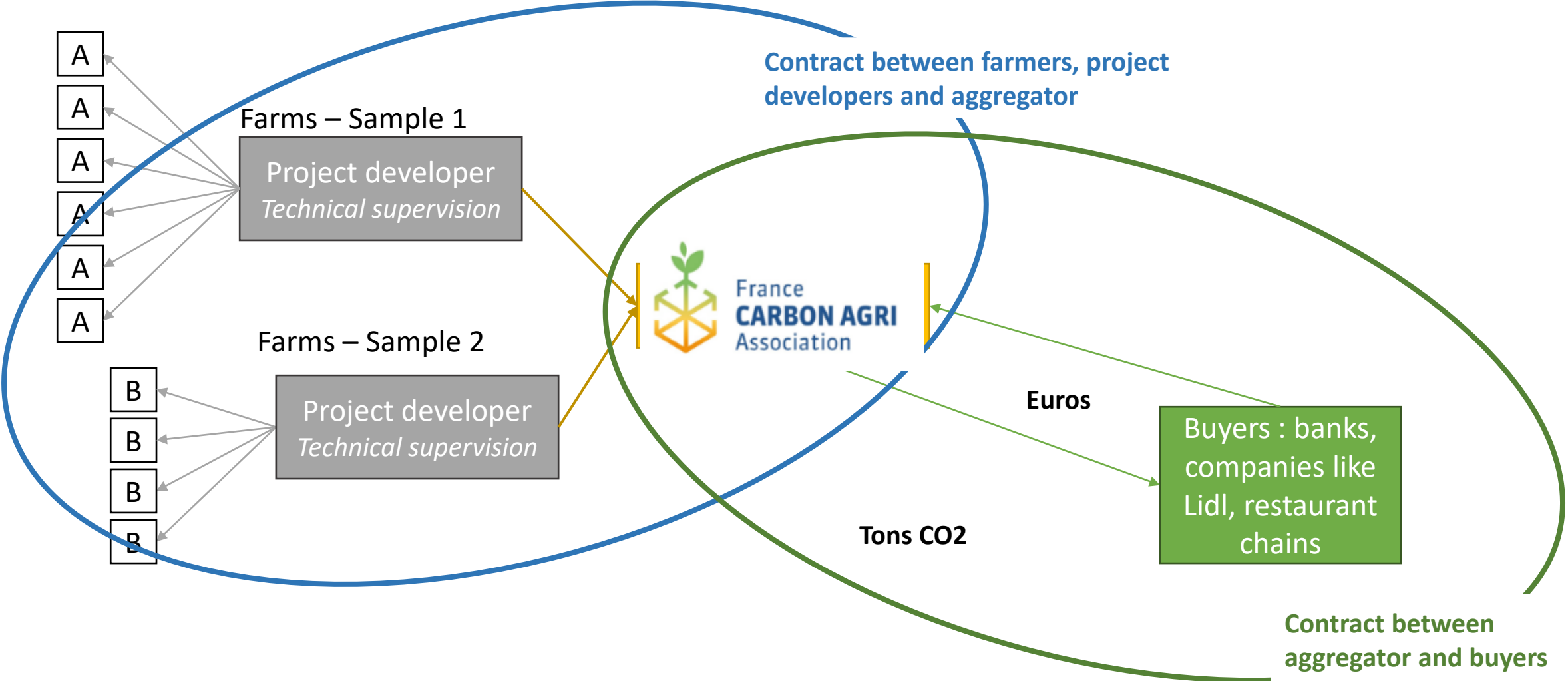
Governance: a common framework for high quality national and local tools



- Methodologies used should combine the accounting or modeling part and MRV rules.
- If all projects do not have the same MRV rules with the same robustness and transparency, there would be a risk of competitive distortion
 - 1) The CE defines a list of credible and robust existing standards.
 - 2) The CE defines common MRV rules but allows for multiple methods or standards.
 - 3) The CE defines a common and single carbon standard with its own specific methodologies, using common accounting rules and scientific models.



Implementing a result-based rewarding mechanism



Implementing a result-based rewarding mechanism

FCAA = aggregator for the 700 farms of the project :

- Certification of the 700 farms with the method built in action C.1.

→ Studying all the possible sources of funding and the carbon market

→ Survey built to solicit buyers and better understand their needs and if they would be interested in funding low carbon projects in the frame of the LIFE Carbon Farming

→ Finding fundings and adding value to certified carbon gains

Presentation of the LIFE Carbon Farming project



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Implementing a low carbon network



→ Promoting exchanges and knowledge sharing on low carbon initiatives on national and European scales to have a dynamic between the project participants



Objectives :

- 6 Three-day European workshops with visits on farms
- 11 two-day national workshops with visits on farms



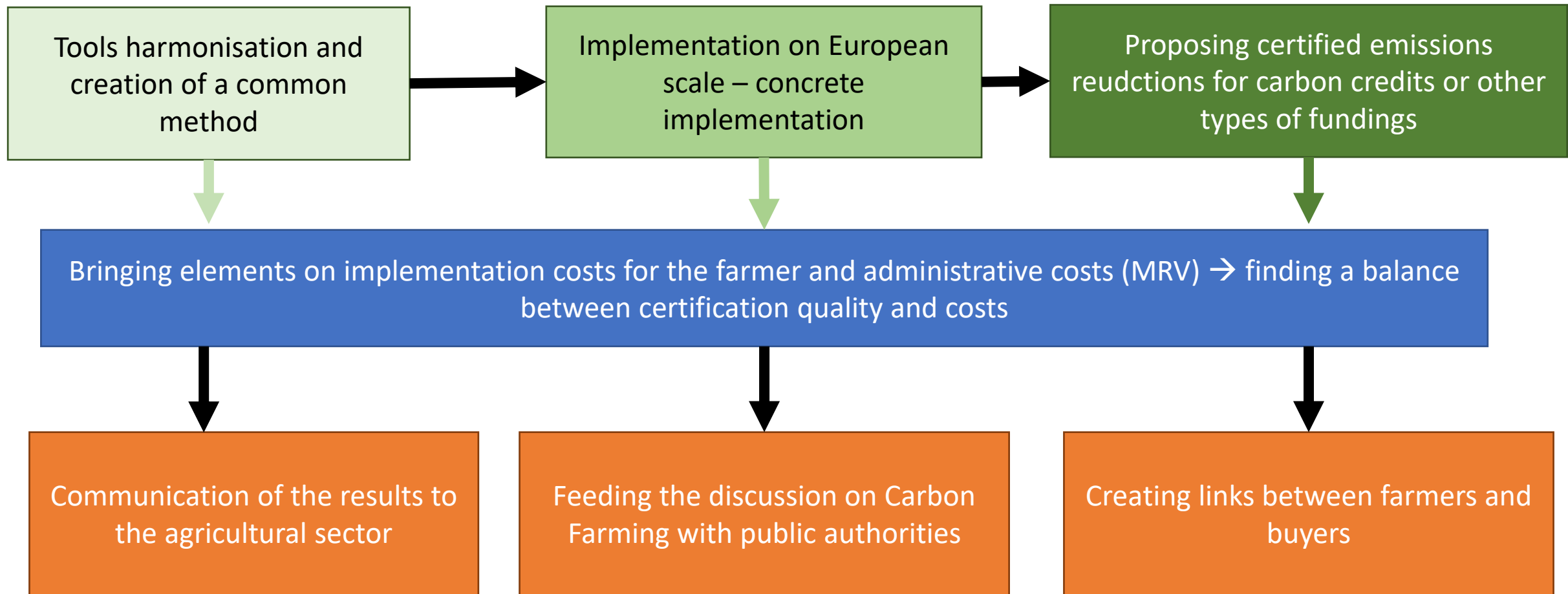
Presentation of the LIFE Carbon Farming project

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Inputs of the project for the Carbon Farming



LIFE CARBON FARMING interconnected with other EU projects

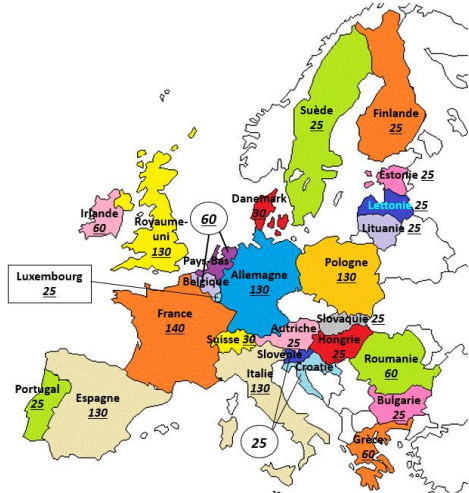
- ❑ Raising awareness on agriculture and climate
- ❑ Involving farmers and advisers in climate transition
- ❑ Harmonized tools and standards at EU scale (GHG Emissions & Carbon removals)
 - ❑ Co-innovation and demonstration actions in farms
 - ❑ Upscaling carbon rewarding mechanism for farmers

H2020 CLIENFARMS– 2022/2025



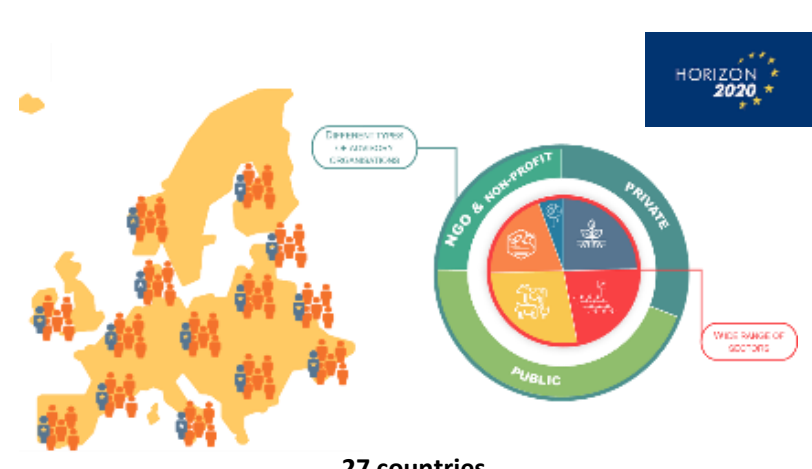
INRAE
 12 countries
 33 partners
 1 200 farms

H2020 Climate Farm Demo – 2022/2029



INSTITUT DE L'ELEVAGE idele
 28 countries
 80 partners
 1 500 farms

H2020 Climate Smart Advisors 2023/2030



ILVO
 27 countries
 72 partners
 1500 advisors

➤ *Testimonies on Carbon Farming implementation*

LABEL BAS CARBONE

Rewarding actors fighting climate change
at the local level

Agenda

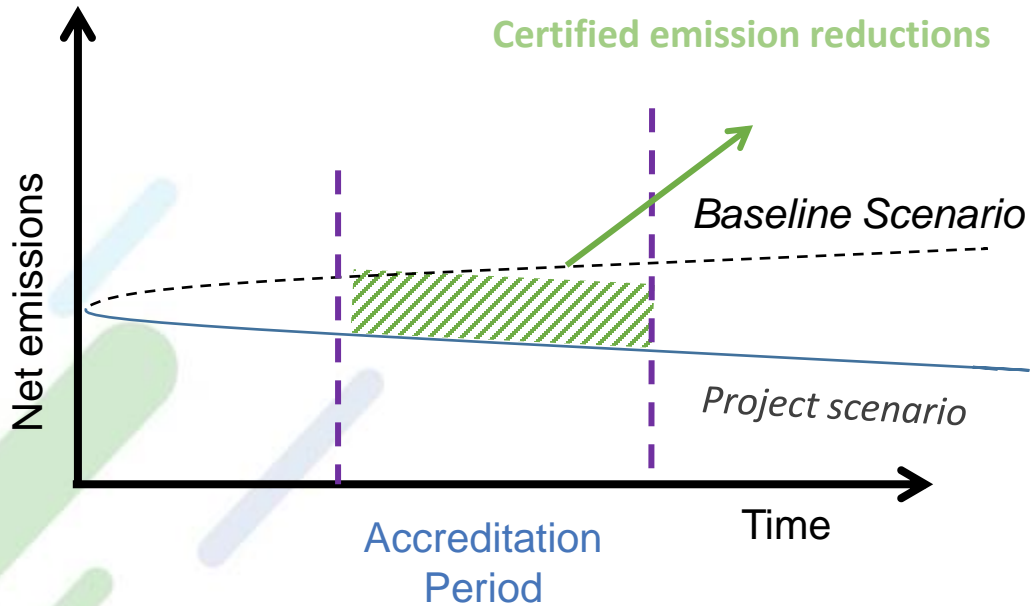
- I. Context
- II. Functioning of the Label
- III. Methods
- IV. Projects
- V. Financing



- The label was developed in **2019**.
- Current climate change mitigation actions are insufficient to achieve the 1.5-degree target.
 - Need to support emission reduction and carbon sequestration efforts, especially in **diffuse sectors** (agriculture, forestry, transport, building, recycling/reuse...)
- Contribution to the implementation of the **National Low-Carbon Strategy** by :
 - Promoting the emergence of **local actions** that benefit the climate and the dissemination of **good practices**
 - Mobilizing **innovative financing** for climate action from various stakeholders (companies, public bodies, citizens...)
- Certification tool that guarantees **environmental quality**
 - Additional **emission reductions and carbon removals**
 - **Co-benefits** (biodiversity, social...) neutral or positive



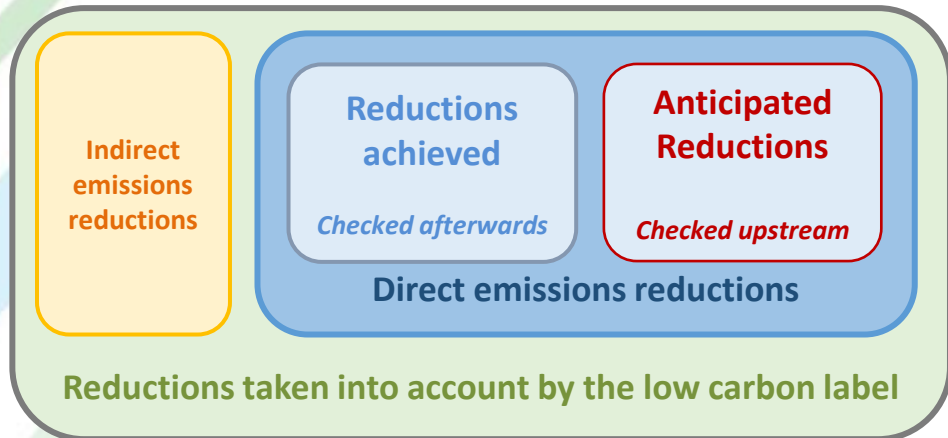
II. Functioning of the label



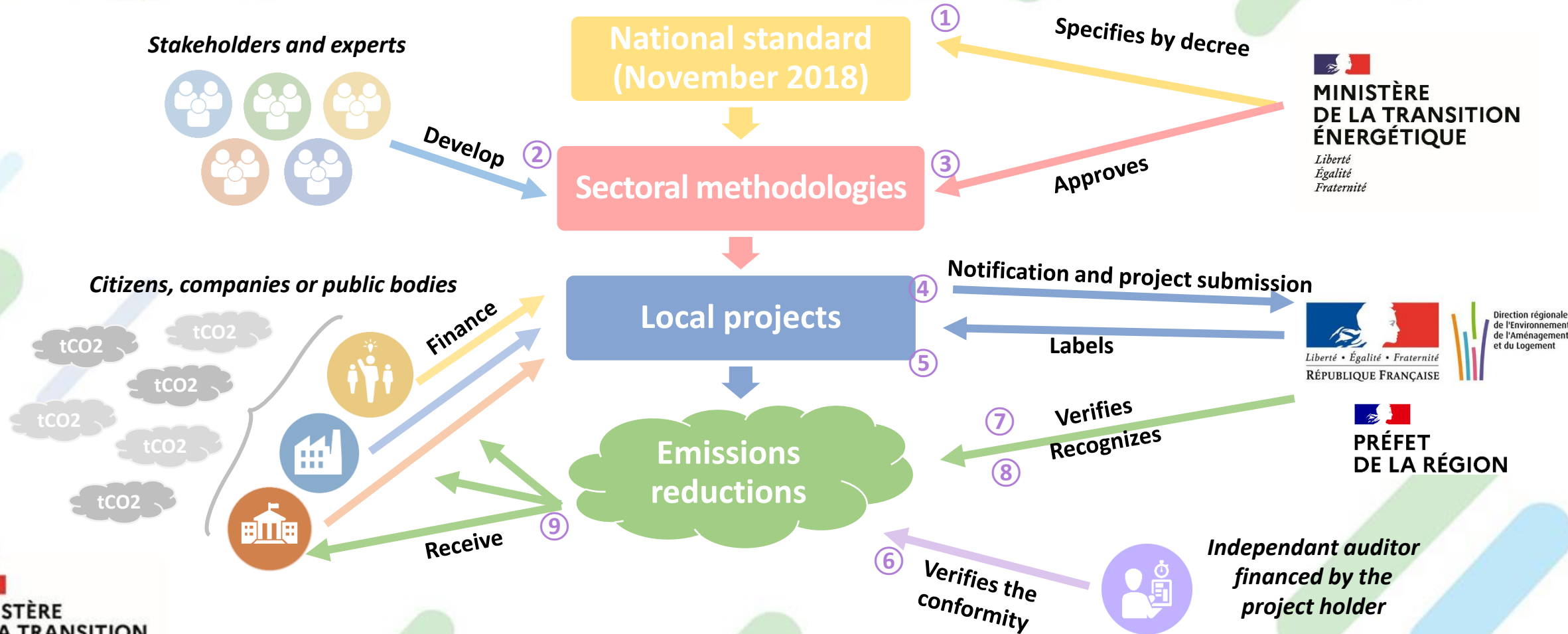
- What is called “réductions d’émissions” in the LBC = **emissions reductions and CO2 absorptions**, indistinctively
- Emission reduction are **monitored accurately** (discounts may apply) and **verified by an independent and qualified auditor**, according to modalities specified in the method.
- **Additionality** is assessed relative to a **baseline scenario**, determined in the method :
 - ✓ Likely situation in the absence of labelling
 - ✓ **Regulatory requirements** and **common practice**
 - ✓ **Incentives provided by other instruments** than the label

→ Only emission reductions that go beyond the baseline scenario are recognized

→ To ensure real additionality, a specific baseline scenario should be used whenever possible: generic baseline scenarios are only possible in duly justified cases, discounts are applied to avoid over-estimations



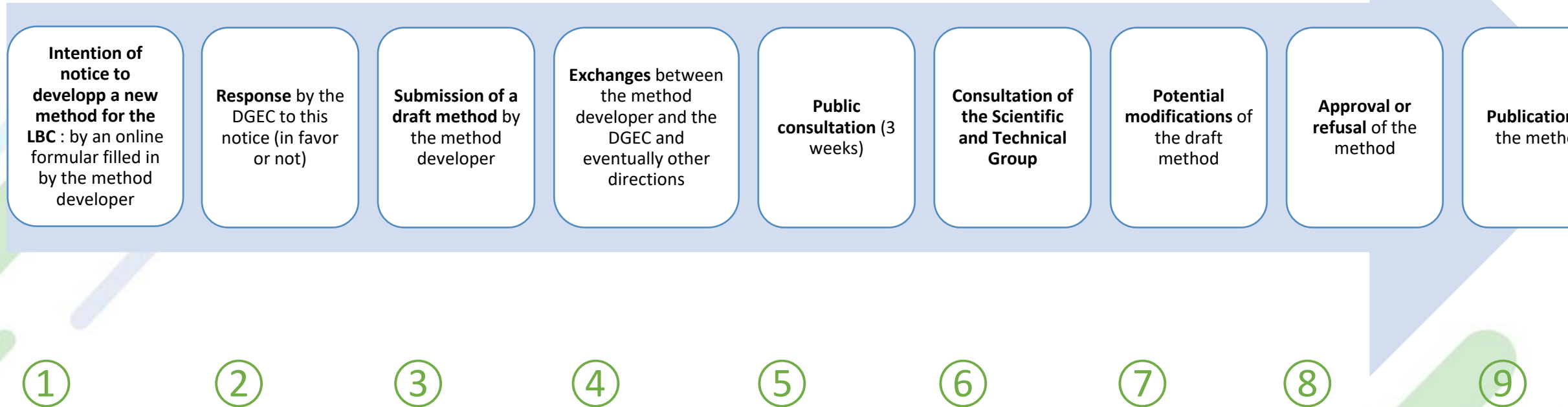
II. Functioning of the label



❖ The scheme is open to all types of investors (public or private, national or foreign) but projects must be located in France (mainland or oversea)

III. Methodologies

How to approve a new method ?



III. Methodologies

Composition of the scientific and technical group

Scientific and Technical Group

State-owned public institutions



Experts of the civil society



CITEPA



Qualified personality

LE HAUT CONSEIL POUR LE CLIMAT

Each methodology

- 1) Specifies **eligibility criteria** of the projects
- 2) Specifies how **additionality** is demonstrated
- 3) Evaluates the **cobenefits** (negative and positive impacts)
- 4) Takes into account the **risk of non-permanence** and of release of carbon, by applying **discounts**
- 5) Determines the procedures to **verify the emissions reductions**
- 6) Specifies the procedures to **monitor the indicators**

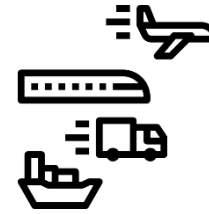
III. Methodologies

11 methodologies have been approved



Forest :

- Afforestation
- Reforestation after fire, storm or sanitary disease
- Saplings selection



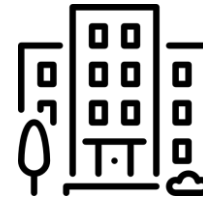
Transport :

- use of local co-working spaces



Agriculture :

- Orchards plantation
- Sustainable management of hedges
- CarbonAgri (livestock-crop farming)
- SOBAC (input management)
- Ecomethane (cattle feeding)
- Field crops



Building sector :

- Reuse of building materials in rehabilitation operations

Methods under development



- **Agriculture:** pig farming, agroforestry, winegrowing ...



- **Forests:** forestry with continuous cover ...



- **Circular economy:** recycling and reconditioning of electronic devices..



- **Wetlands:** improved protection of mangroves, of seagrass...



- **Building:** use of bio-based materials in new buildings...

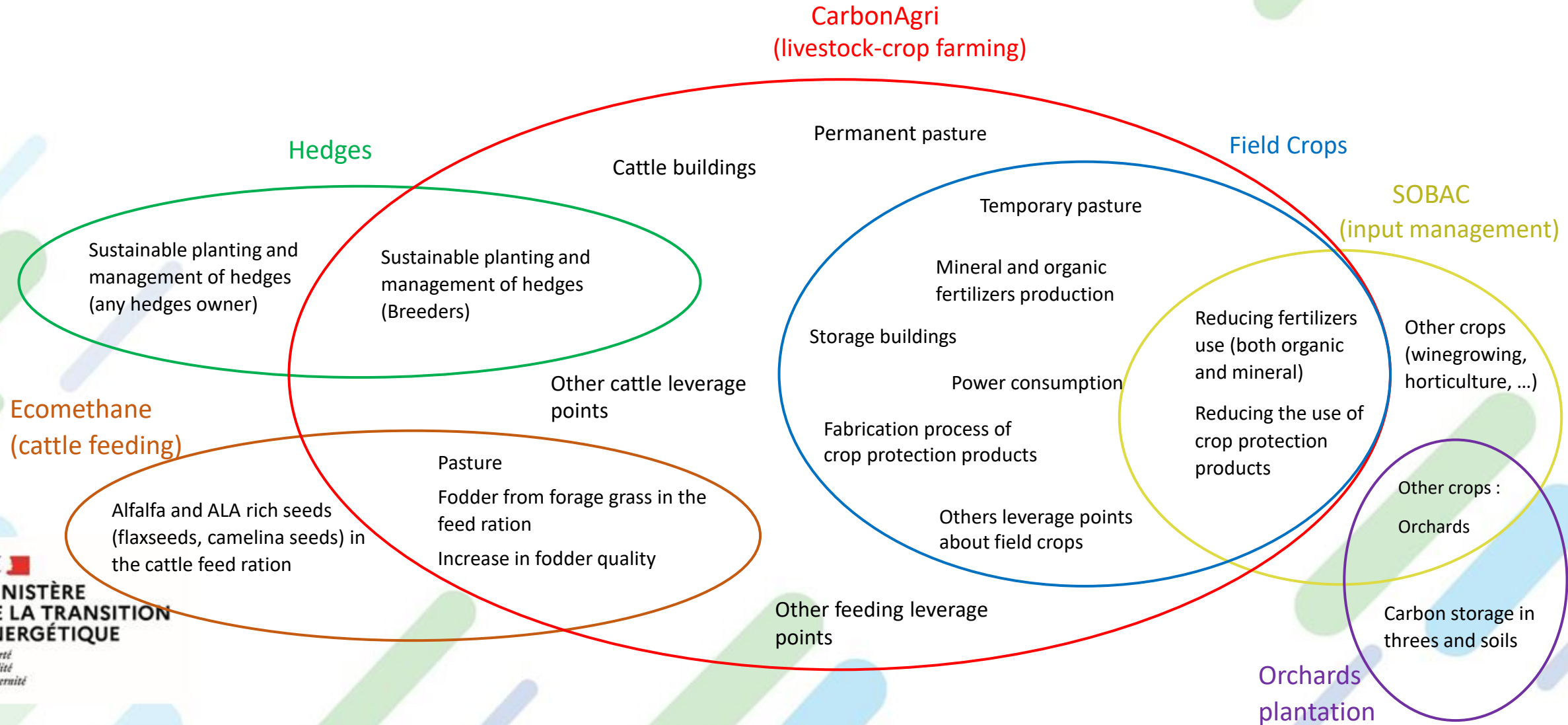


- **Transport:** freight transport...



III. Methodologies

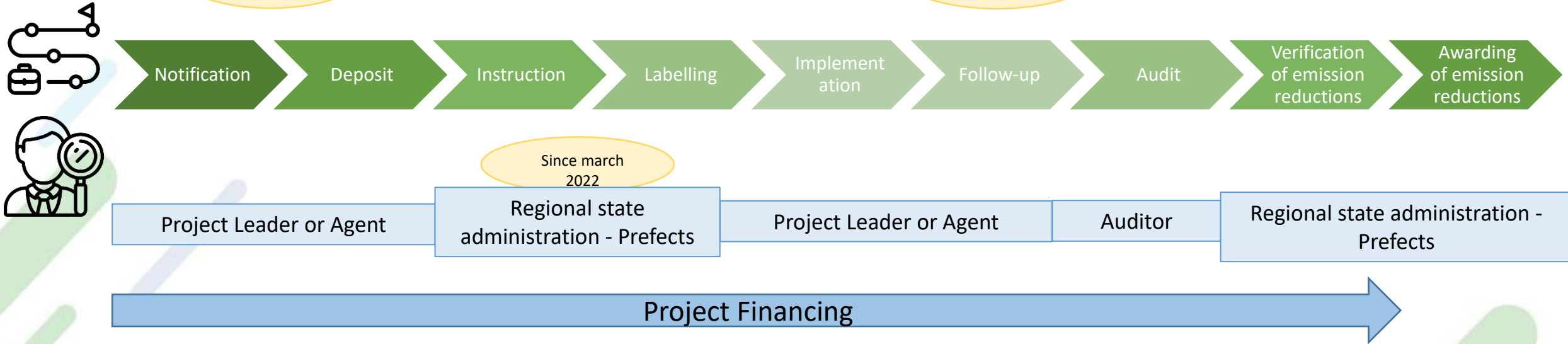
Link between methods : overlapping levers



IV. Projects

12 months maximum

Duration of a project (specified in the methodology)



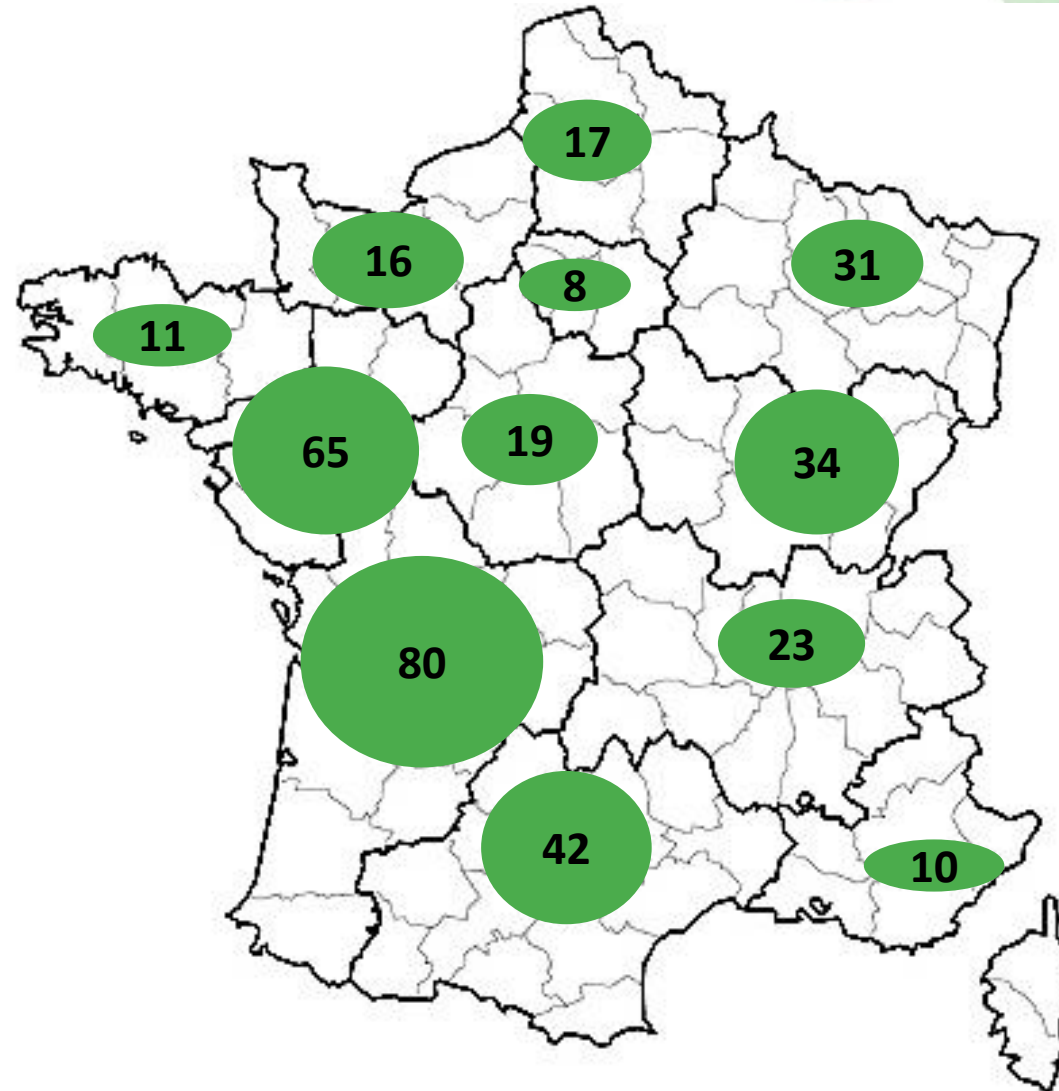
Collective project : agent who gathers all the individual sub-project holders



Individual project: agent or project leader

IV. Projects : 357 labelled projects

357 labelled projects for around 1,4 M t_{eq}CO₂



IV. Financing : a growing number of funders

The funder can contact the project developer at any moment :

- At the start of the project development;
- Once the project is labeled and displayed on the website;
- Once the emissions reductions are verified.

Only **direct financing** : once the emission reductions are bought, they can not be transferred any more, **but** :

- Some project developers may mandate a **representative** (“mandataire”) to take in charge **the entire labelling process**, including looking for funders.
- A **single intermediary** can connect or aggregate funds from several individuals or legal entities who wish to participate in financing the project

« Emission reductions », once attributed to one funder, cannot be sold or exchanged in any way.

Private :



LA POSTE



Groupe L'OCCITANE



HANES Brands Inc

K E R I N G



Public :



UNIVERSITÉ PARIS 1 PANTHÉON SORBONNE
SORBONNE BUSINESS SCHOOL



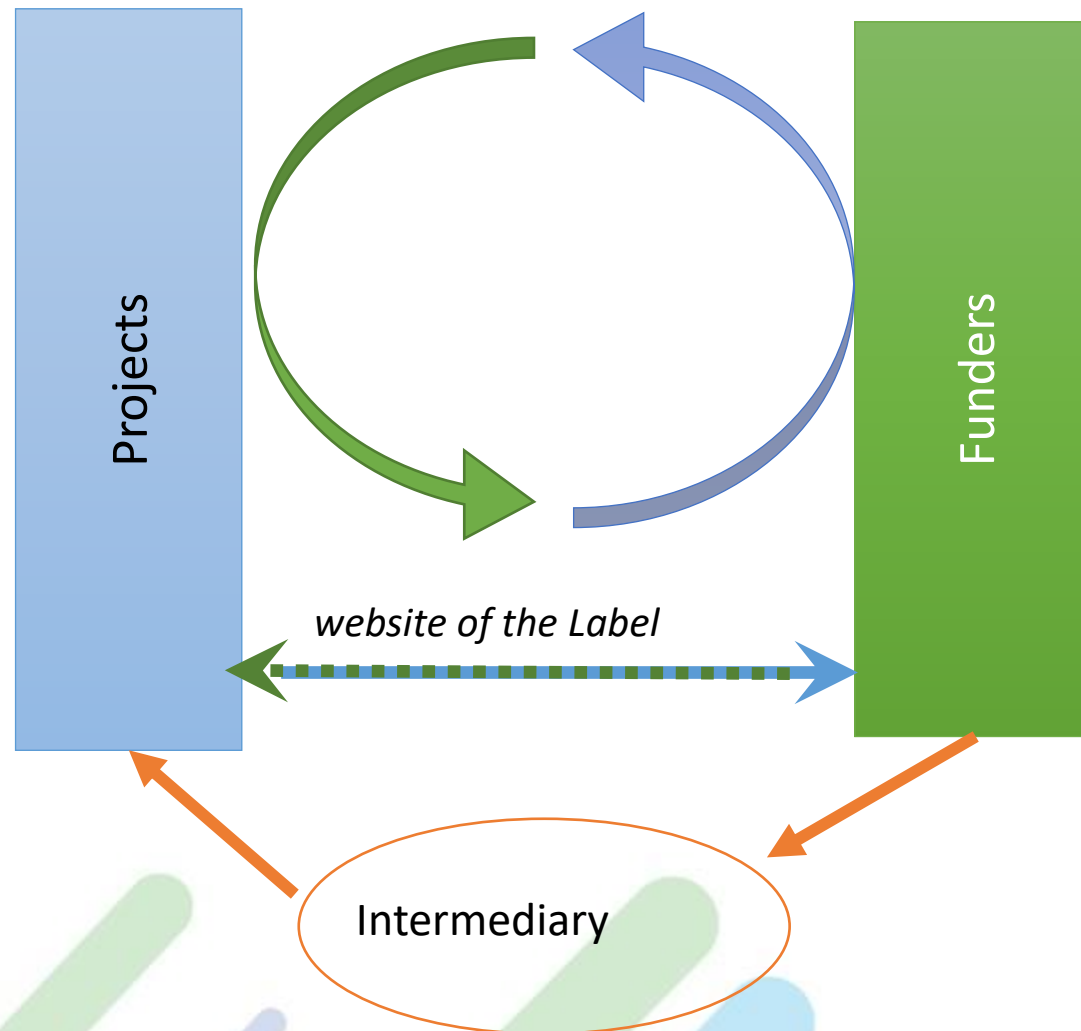
MINISTÈRE DE L'EUROPE ET DES AFFAIRES ÉTRANGÈRES
Liberté
Égalité
Fraternité



BORDEAUX MÉTROPOLE

And many others ...

V. Financing : Connect projects and funders



**LABEL BAS
CARBONE**

Thank you !

 <https://label-bas-carbone.ecologie.gouv.fr/>


**MINISTÈRE
DE LA TRANSITION
ÉNERGÉTIQUE**
*Liberté
Égalité
Fraternité*



How to Involve Farmers in Extension Projects: Setup and Recruitment

Donal O'Brien¹ and Martina Harrington²

Teagasc, Soils and Environment Research Centre, Johnstown Castle,
Co. Wexford, Ireland

Teagasc, Advisory Office, Enniscorthy, Co. Wexford, Ireland



Carbon Farming Certification Workshop, Fondation
Universitaire, Brussels, 25th January 2023



What does Teagasc Extension Programme offer farmers?



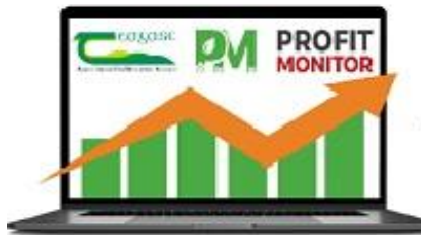
Training & Development



Specialist Advice



P2P Learning – Discussion groups



Management Tools – On & offline



Teagasc
@TeagascMedia
14.5K subscribers

Industry & Media Networks

Signpost Programme

- Teagasc initiative to reduce carbon/greenhouse gas (GHG) emissions from Irish agriculture
 - Supported by ministry and industry (co-ops, food processors)
- Establish baseline GHG fluxes and carbon stocks
- Accelerate uptake of climate actions across farming enterprises - Beef, Dairy, Sheep and Tillage
 - Quantify and verify carbon/GHG savings

Carbon footprint

Biodiversity

Sustainability



Signpost Advisory Campaign

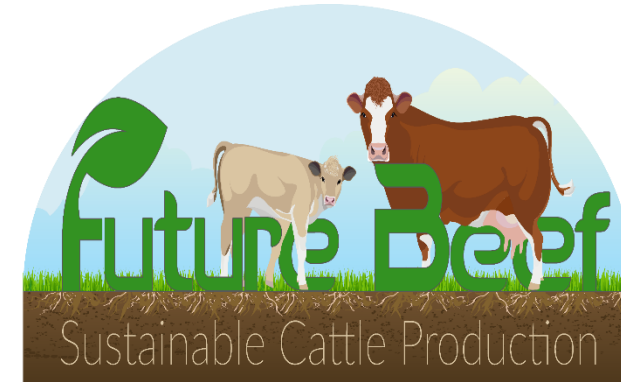


- Signpost Farmers central to Signpost Advisory Campaign
- Primary focus for our advisers and teachers
- Tailored advice – Farm Sustainability Plan
- Blended approach – traditional and digital
 - Living labs – Measure and model C sequestration
- Targeted communications



Signpost Programme - Future Beef Farms

- Building on BETTER farm & LIFE BEEF CARBON initiative
 - Improve efficiency while enhancing environmental performance
- Cohort of Demonstration farms
 - P2P learning central to success
- Represent key characteristic of suckler beef farms in a region:
 - Farm size and soil types
 - Beef Breeds
 - Production systems e.g., suckler calf to weanling, weanling to beef, fattening





Future Beef – Recruitment Process


- Extensive selection process
- Zoom meeting will all 12 regions – Regional managers, cattle advisors & education staff.
- Explained:
 - Future Beef & Carbon Projects
 - The farmer profile required
 - What the farmer could expect
 - What we would provide the farmer with
- Application form designed and emailed to all cattle advisors & industry funders





Future Beef – Recruitment Process

- Large number of applications
- Shortlisted within region
- Remote meeting with applicants
- 36 farms visited
- 22 farms selected
- From beginning building an awareness of the programme



Application to be a participant of the new Teagasc Suckler Signpost Beef Demonstration Farm Programme 2021

Name	Shane Keaveney
Address	Ballybane, Ballinlough, Co. Roscommon
Eircode	F45PC04
Phone Number	0876993200
Email address	keaveneyshane@yahoo.ie
Herd Number	T2011933
Teagasc Advisor	Charlie Devaney

1. Land Base
Describe your farm, area of land, soil type, fragmentation etc.

I am farming 27.61Ha.
It is in 3 sections that are all within a 1.5 mile radius.
There is a mixture of clay soils and peaty soils.
It is typical of farms in the North/West Roscommon region.

2. System of farming
Describe your system of farming including Cow numbers, spring or autumn calving, heifers/steers/bulls, sale/slaughter age etc.

On my last suckler cow report I had 32 calvings.
I am hoping to have 34 calvings this year.
I calve all my cows in the Spring time.
My cow type is a Lmx & Sax cow type.
All heifers are calved as 2 year olds.
At the moment heifers are sold as stores in the Spring or Autumn.
All the bulls calves are sold as bull beef under 16 months.



Reasons Farmers Join Sustainability Projects

- Want to future proof their family farm
 - Improve resilience and long-term viability of their business
- Understand the need for change – Require direction & support
- Produce more from less, become more competitive...win: win
- Decrease dependence on fossil fuels, chemicals, plastic etc...
- Integrate science based solutions into their farming practices
- Work in partnership with peers and extension team
 - Innovate , Share the possible...to shape positive change



**THANK YOU FOR YOUR
ATTENTION**

QUESTIONS?



FCAA

France Carbon Agri

Implementing and funding collective result-based Low Carbon Farming projects

LIFE CARBON FARMING workshop

25th of January 2023

Pierre RAYE – France Carbon Agri





FCAA : a pioneer initiative launched in 2019 by French farmers

FCAA : created by farmers organisation



Mission : «Supporting agroecological transition via the funding of farming practices reducing the carbon footprint of agriculture. »

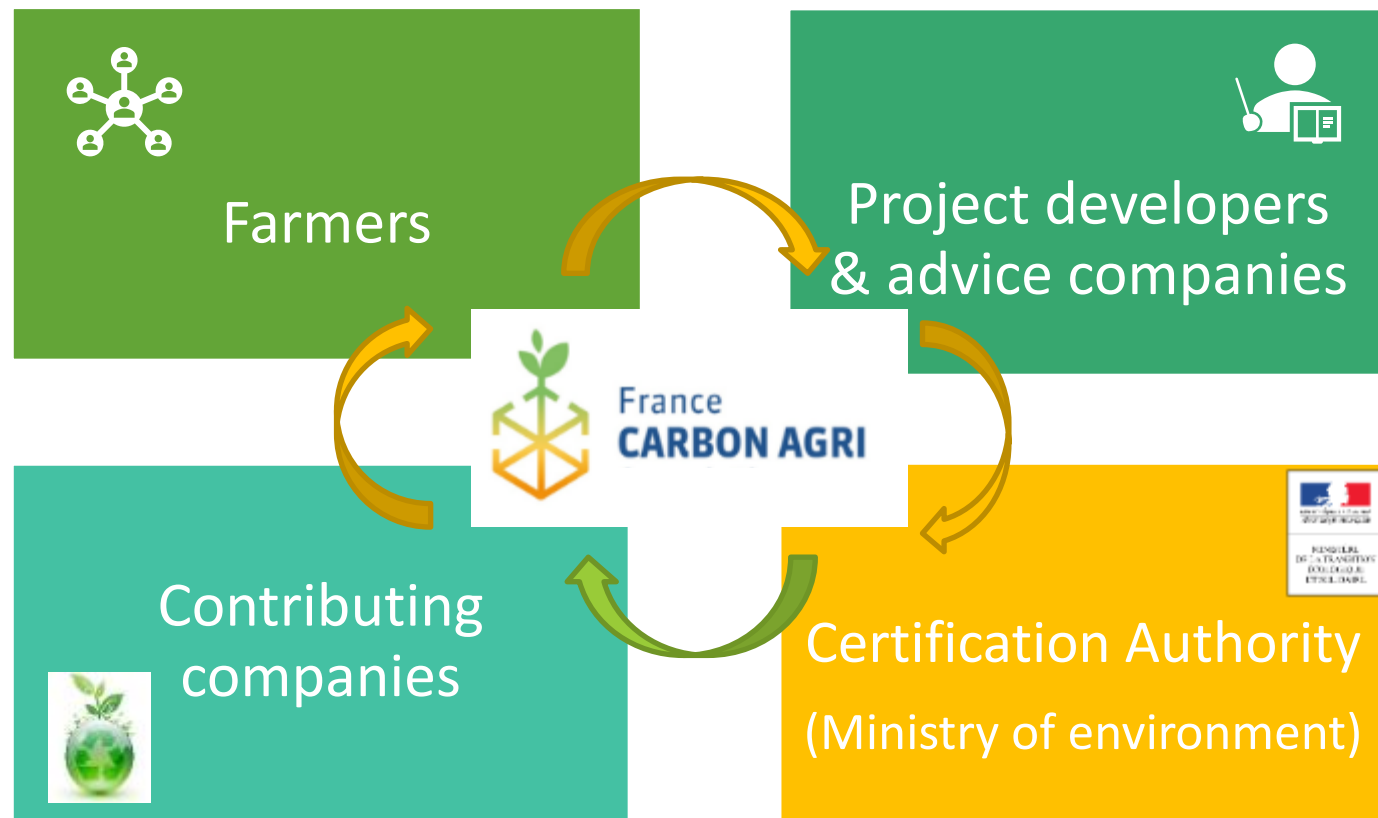
Key values :

- Implementing the **best scientific standards** to guarantee the impact of the projects.
- Securing the **traceability** of carbon credits.
- Ensuring the **transparency of the value chain**.
- Maximising the **financial return to farmers**.



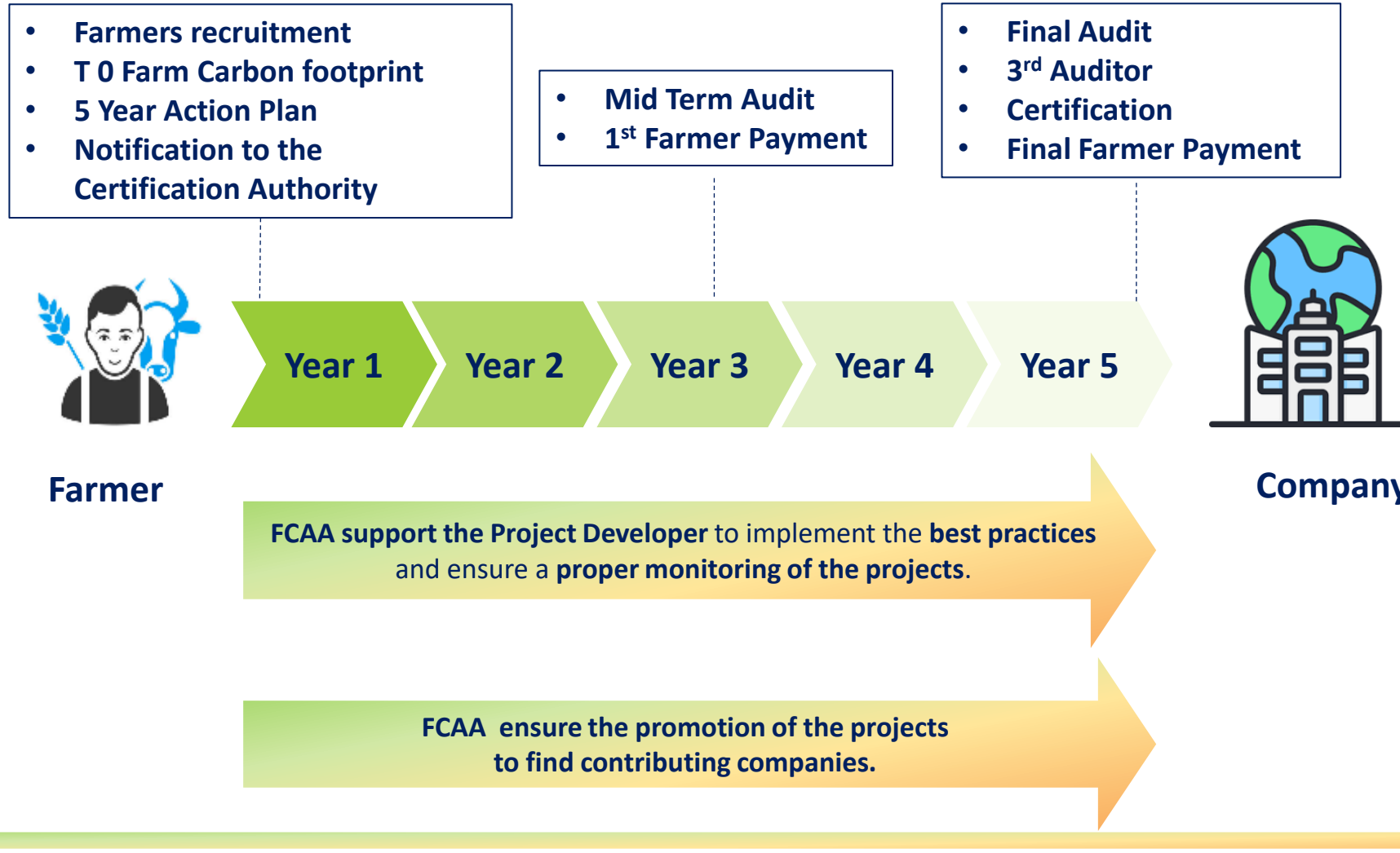


FCAA : a platform to make the carbon farming project possible





Supporting & Securing the certification of Carbon Farming projects





FCAA : a trusted third party between farmers and contributing companies

40€/T CO2 eq



Farmer
32€



Project developer
5€



FCAA
3€

FCAA-Farmer
- Project developer -

- Each party remuneration
- Farmer commitment to **implement the action plan.**
- **Project developer** commitment to **assist technically** the farmer.
- **FCAA** commitment to **monitor the certification and funding** of the project.

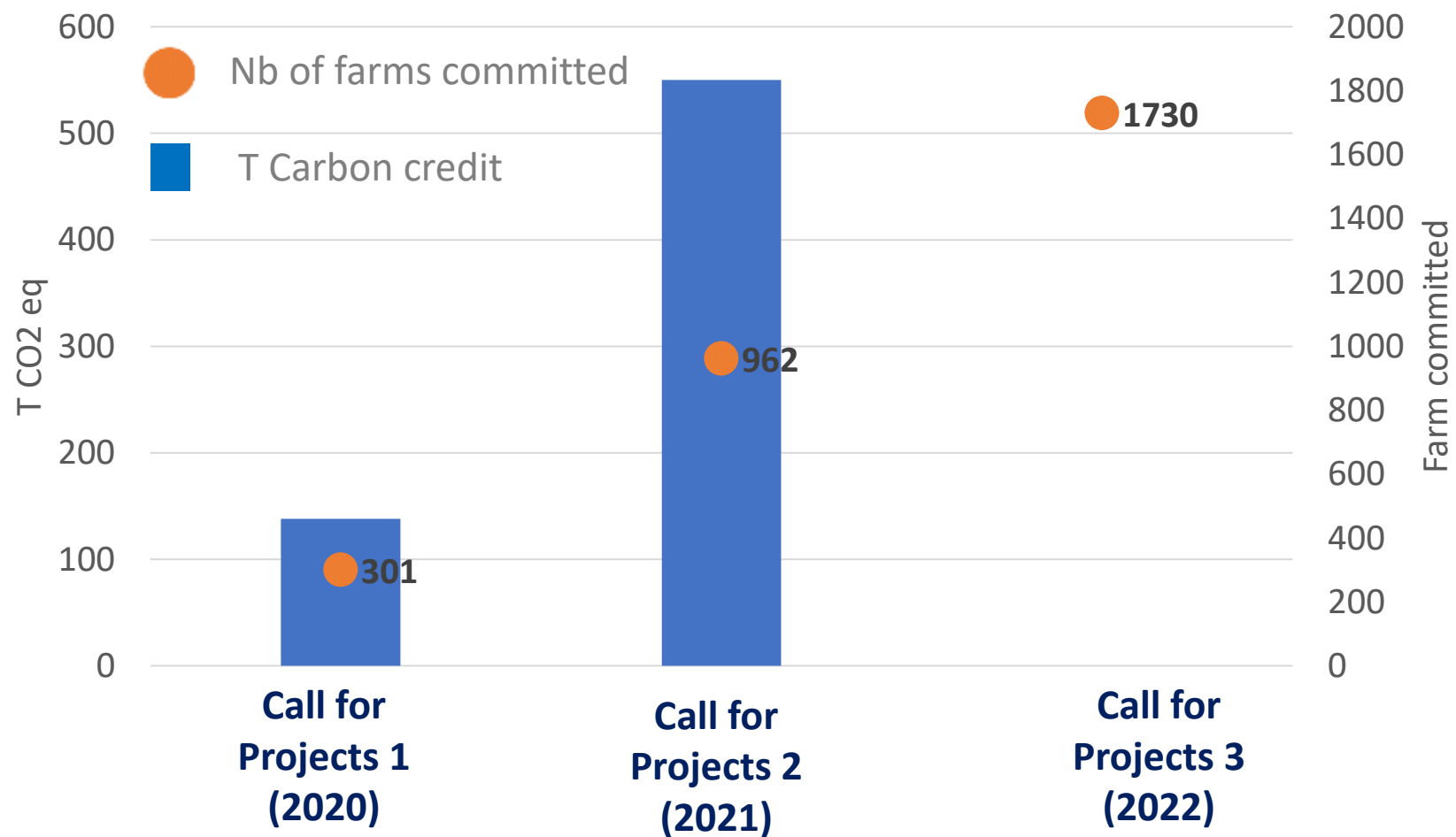
FCAA
- Contributing company -

- **Carbon credit volume & price.**
- **Carbon farming specifications :**
 - Localisation
 - Cobenefits
 - Others...
- FCAA commitment to **ensure the implementation** of the project.
- **“Taylor Made” services :** communication, engineering ...



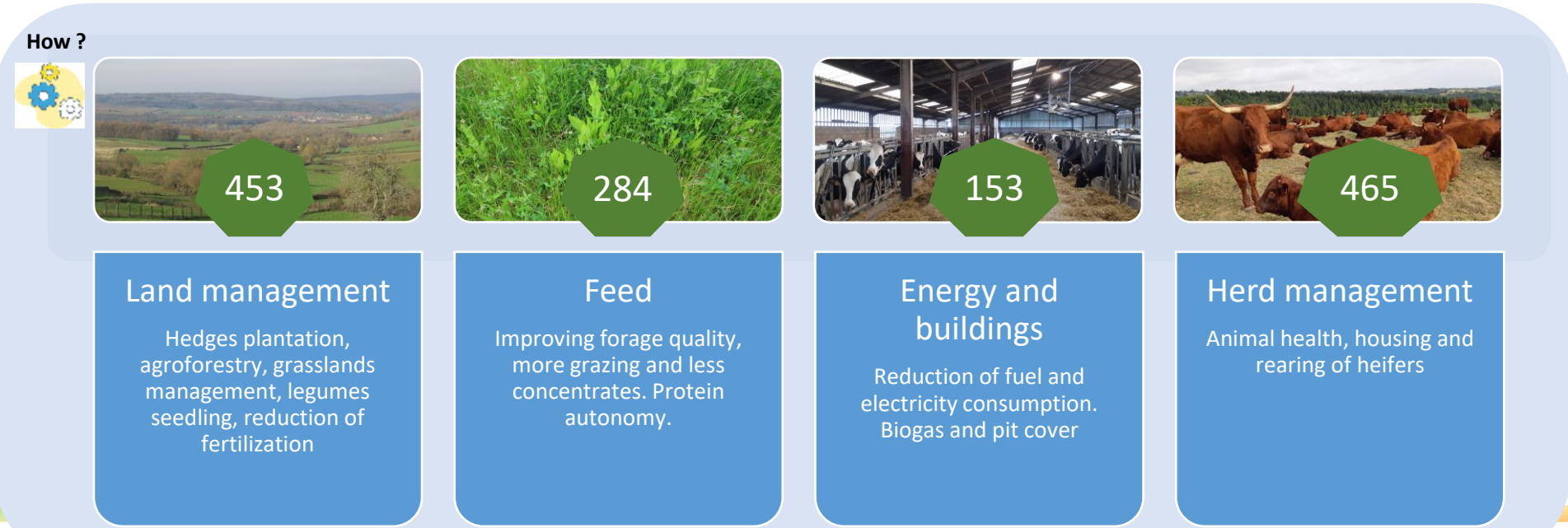
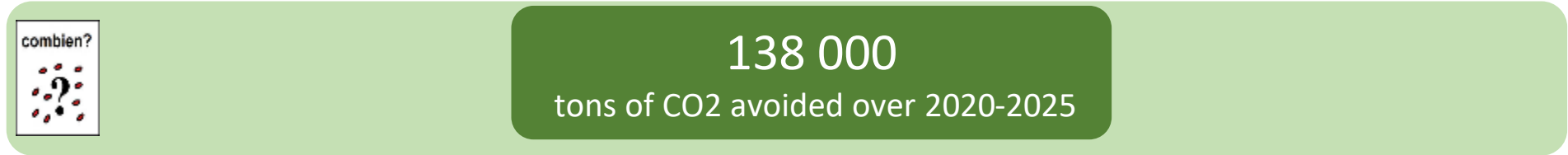
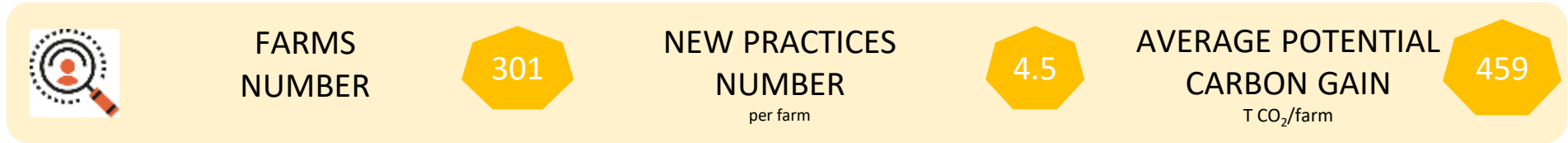


More than 3 000 farmers committed with FCAA





Example of the 1st call for projects





And many Cobenefits that are monitored

Contribution to biodiversity

Increase the surface or linear areas of meadows, hedges, isolated trees, copses, ponds, etc.

Fighting deforestation

Substitution of soya with local co-products or fodder



Water quality

Reduction in the amount of nitrogen lost to water

Energy Production

Production of renewable energy through methanisation, photovoltaic panels or wood energy



Air quality

Reduction in the amount of nitrogen lost to the air



Area of plant cover

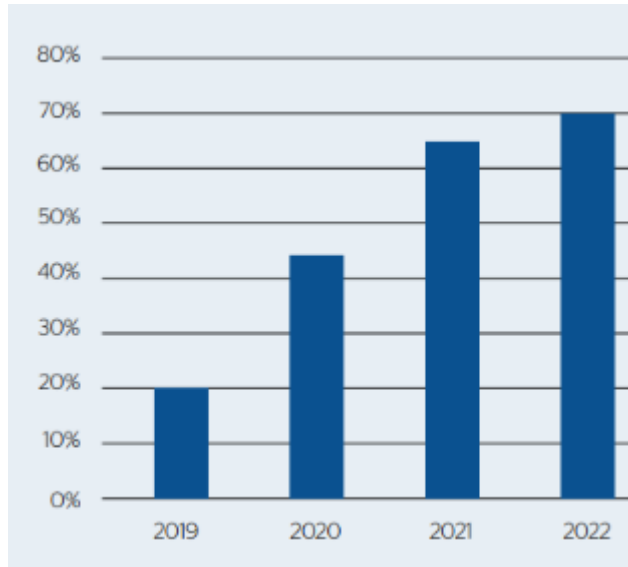
Limit erosion, nitrogen leaching, improve soil fertility and increase carbon storage through soil cover

The project must prevent any significant negative environmental or socio-economic impacts



A growing corporate interest to contribute to climate action.....

Share of listed companies committed to a Net Zero target



Source Ecoact

Companies Carbon Strategy

1. Inventory
2. Targets
3. Reducing
- 4. Offset**
5. Communicate

Voluntary Carbon Markets in 2021

493 Mt CO₂ credits traded
X 2,6 VS 2020

2 Bn \$ credits traded
X 3,8 VS 2020

6,2 Mt CO₂ credits traded
+ 15 % VS 2020

64 M € credits traded

World

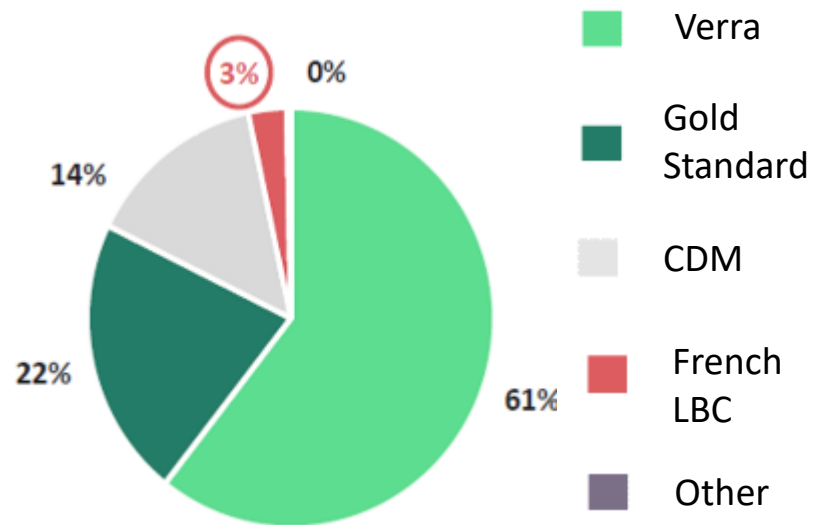
France





But a crucial need to relocate carbon offsetting in Europe to finance the transition to low carbon farming

French voluntary carbon offsetting
Market share / certification scheme



- **Strong price gap** between Europe & Extra Europe projects.
- **Need to value local/European low carbon projects** thanks to :
 - **Robust Certification Standards.**
 - **Cobenefits** valorisation.
 - **Good technical information.**
 - **Positive communication.**
- Need of a **European regulation on Carbon Certification** that encompasses carbon storage & reduction of carbon emissions.



Thank you for your attention and at your disposal



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☐ Phone : 00 33 6 35 36 57 76

Website : <https://france-carbon-agri.fr/>



→ *Workshop sessions*

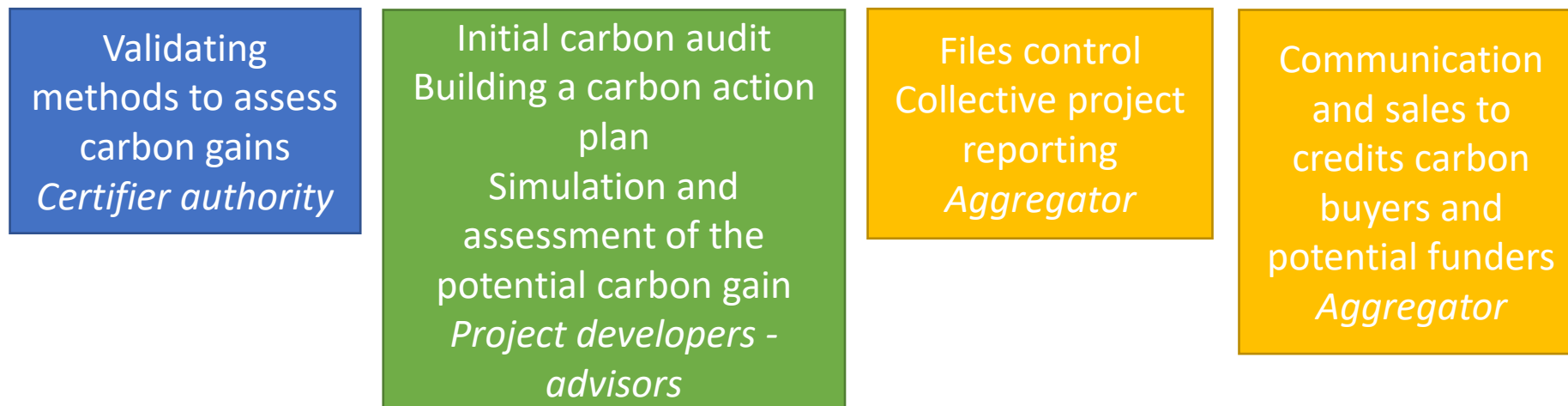
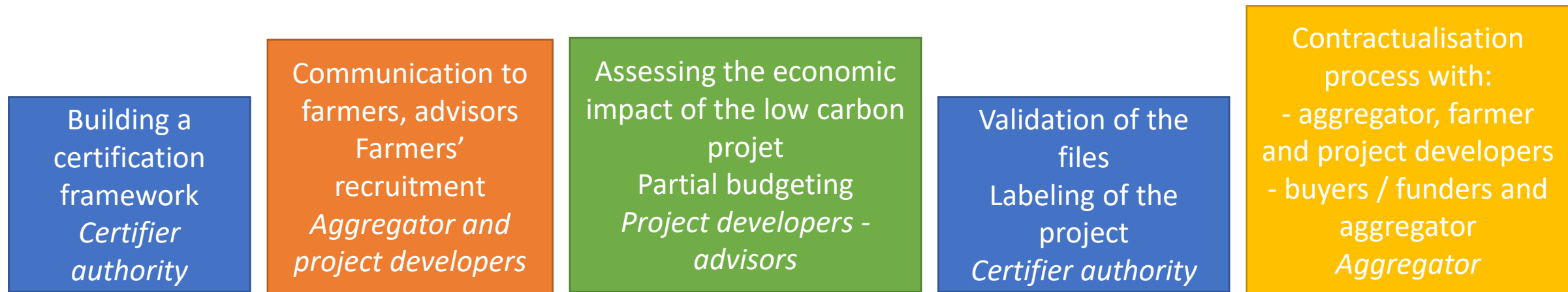
- *How to build an efficient monitoring and certification process for answering project developers, carbon buyers and public body's needs?*
- *What funding mechanisms to support low carbon projects?*

→ *Workshop sessions*

- How to build an efficient monitoring and certification process for answering project developers, carbon buyers and public body's needs?*
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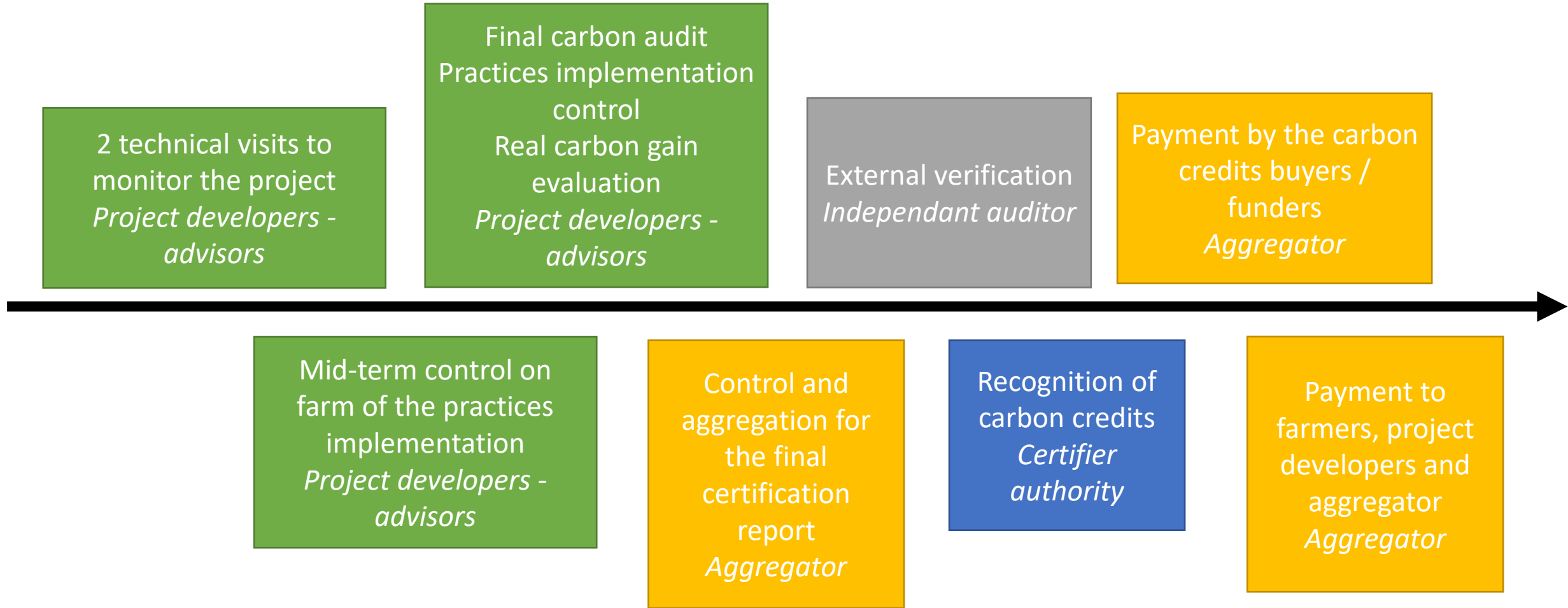


How to build an efficient monitoring and certification process?





How to build an efficient monitoring and certification process?



Brainstorming session:

→ What are the risk factors and the success factors for the different steps of the certification process?

How to build an efficient monitoring and certification process? – Workshop restitution



How to mobilize farmers ?
How to keep informed advisors ?
Baseline / target
Methods / standardisation
Administrative work

It's a win win project : GHG / biodiversity / economic ...

Contractualisation

Positive communication

5 years: it's long for advisors / farmers, but short for policy makers

A lot of steps



How to build an efficient monitoring and certification process? – Workshop restitution



- Risk factors
 - Definition of EU CRC framework taking too long
 - Strong discrepancies across methods and scientific standards
 - Double counting
 - Time and cost of monitoring, data robustness
 - Low price of carbon
 - Carbon tunnel vision
 - Greenwashing
- Success factors
 - Good definition of common criteria (not necessarily same methodology for everybody)
 - Transparency on methodology validation
 - Communication and education on low carbon projects
 - Technical advisory (very important)
 - Robust cost/gain projections for farmers
 - Finding the right price for buyers and farmers
 - Measure co-benefits

General comments:

- Defining a common vocabulary to talk about this topic is very important – there are language discrepancies across countries (ex: certifier authority vs accreditor)
- Valid both for company communication and stakeholders involved in certification process



How to build an efficient monitoring and certification process? – Workshop restitution



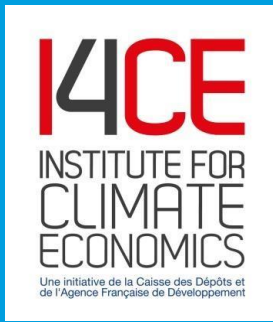
Responsibility of member states to support farmers, being careful of time-consuming and expensive approaches, lot of documents asked to the farmers, facilitate controls

- **Objective** : Getting carbon credit or most of all certification of the farmer's practices to avoid greenwashing
- **Method**: having an objective framework common to member states with same kinds of calculation, involving national administration and finding a balance between having method adapted to specific conditions and the number of methods. Clarifying that it is based on result and if the length of the project is adapted to the effect of practices. Choosing emissions reductions per kilo or per ha? (extensive systems). Training the independant auditors.
- **Audits on farms**: Having measurements more precise on carbon soil and verify real carbon storage, and be clear on the models used, making sure they are adapted to specific conditions
- Different tools existing, with different indicators → Difficult to decide what tool to use
- **Communication to farmers** : gathering farmers to communicate and avoid top down approach
- **Sharing responsiibility all along the food chain**: Fundings are complementary, what about farmers already good?
- Opportunity for the payment : polluter payer principle



→ *Workshop sessions*

- *How to build an efficient monitoring and certification process for answering project developers, carbon buyers and public body's needs?*
- *What funding mechanisms to support low carbon projects?*



How to finance low carbon projects?

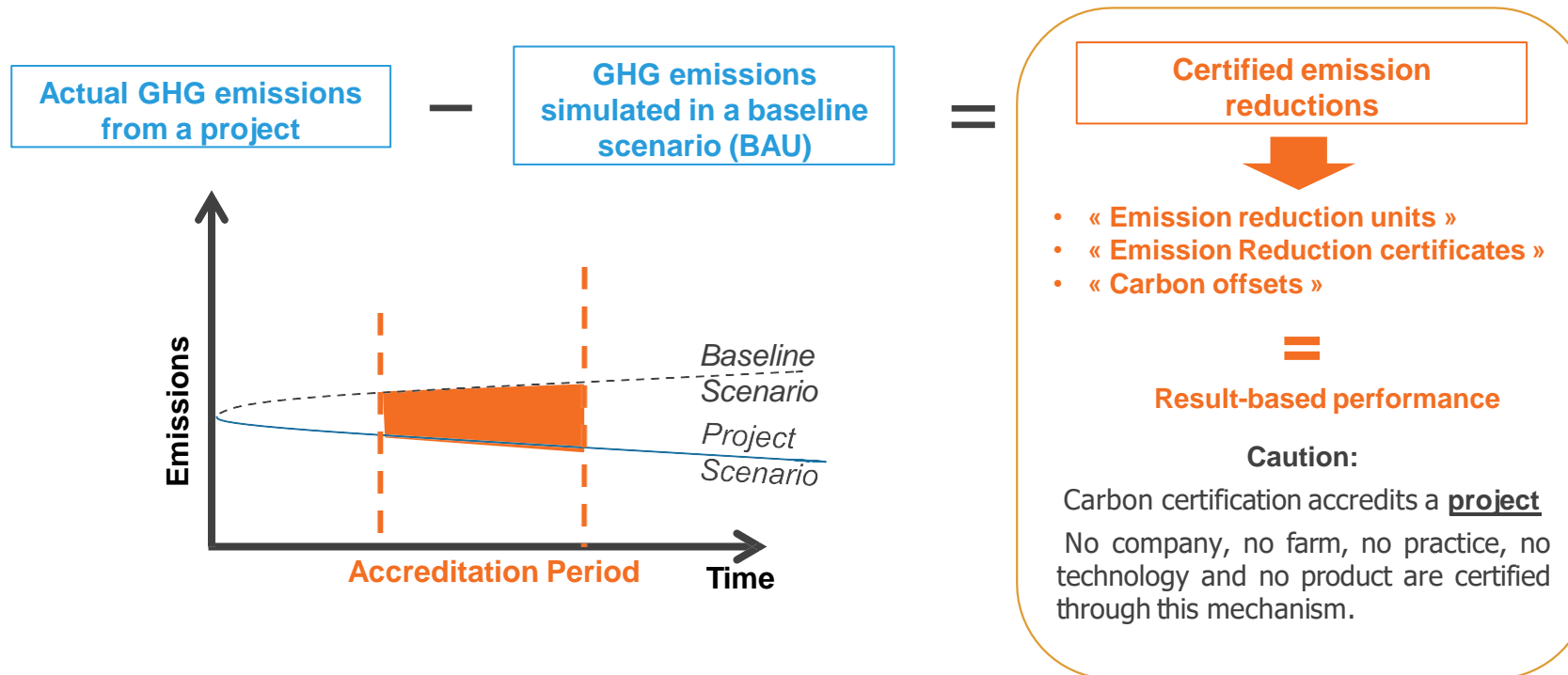
Life Carbon Farming Seminar

Clothilde Tronquet – Institute for Climate Economics (I4CE)

25-01-2023

A result-based payment calculated from a counterfactual scenario

- Certified low carbon projects are based on a **counterfactual scenario**

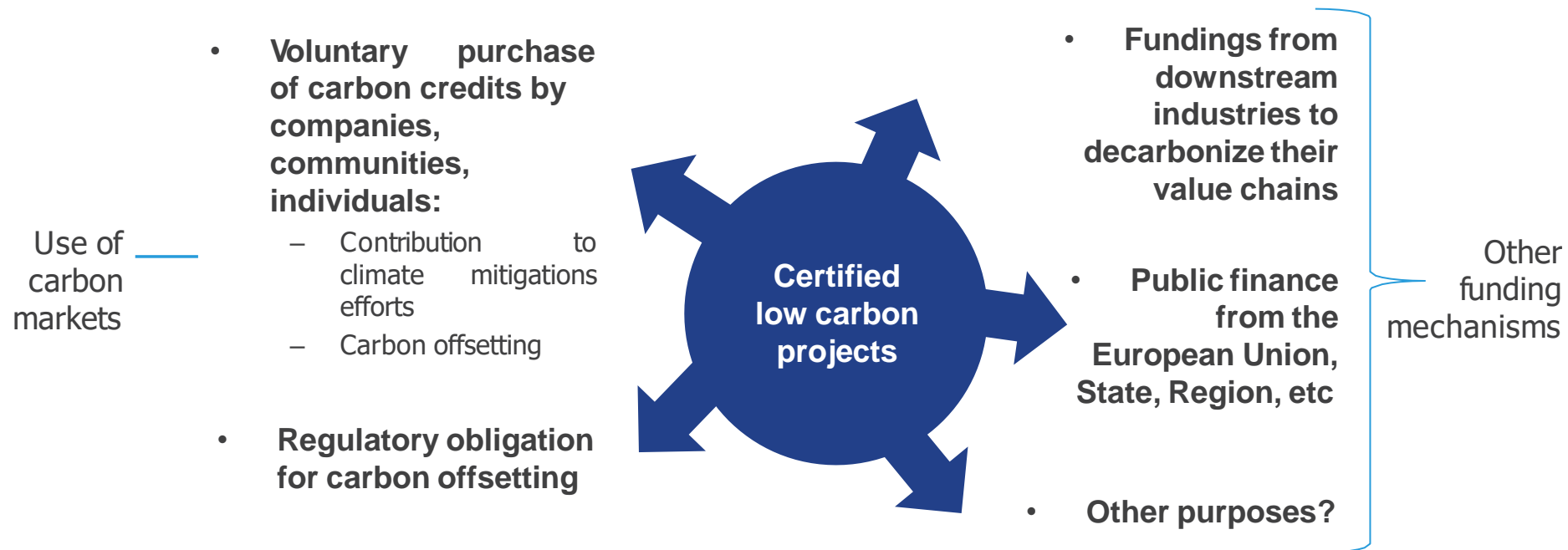


- Carbon certification corresponds to a **performance obligation** (≠ obligation of means)

Fundamental quality criteria

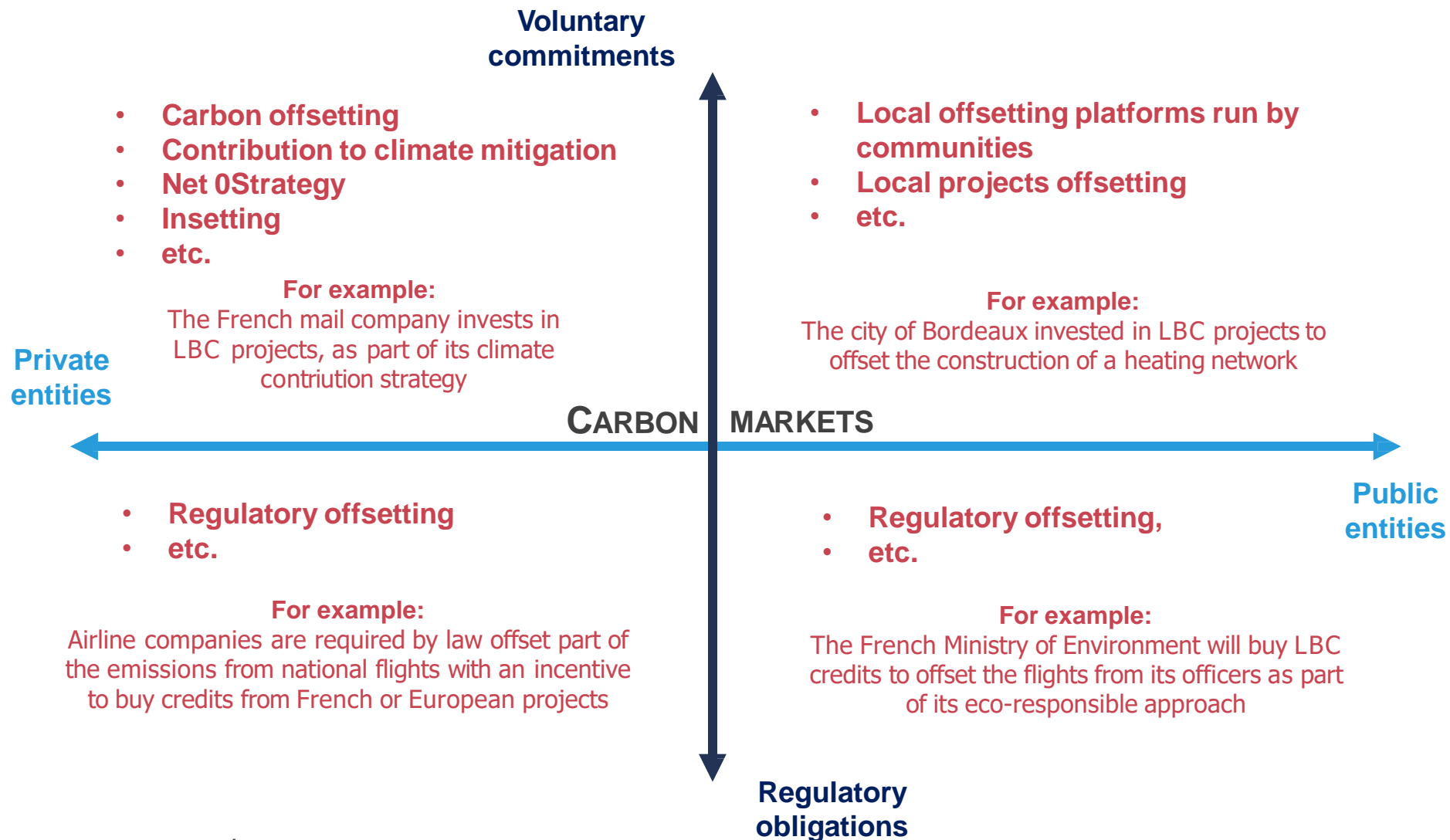
- The measurability and the monitoring of emissions and removals, taking into account possible leakage phenomena.
- Transparency and verification by an independent third party
- Uniqueness and traceability of emission reduction units with the implementation of a registry in order to avoid double counting
- Permanence of emission reductions or management of the non-permanence risk
 - when necessary (carbon :removals in agricultural soils)
- Additionality: demonstrate the project wouldn't have happened without the carbon incentive

Carbon certification is a multi-functional finance instrument



- Carbon certification refers to a **guarantee scheme for positive climate impacts**, it goes beyond carbon offsetting
- A **mix of different actors, purposes and tools** use certified low carbon projects

Carbon markets cover various situations



The limitations of carbon markets

- The mechanics of carbon certification was **originally designed for carbon markets**
- Carbon markets remain **the main funding channel for carbon projects**
- They cover **various approaches** (depending on stakeholders and purposes)

	2020	2021
Transacted volumes *	~ 188 million tCO ₂ eq	~ 500 million tCO ₂ eq
Market Value *	0,52 billion USD	~ 2 billion USD
Retirements **	~ 100 million tCO ₂ eq	~170 million tCO ₂ eq

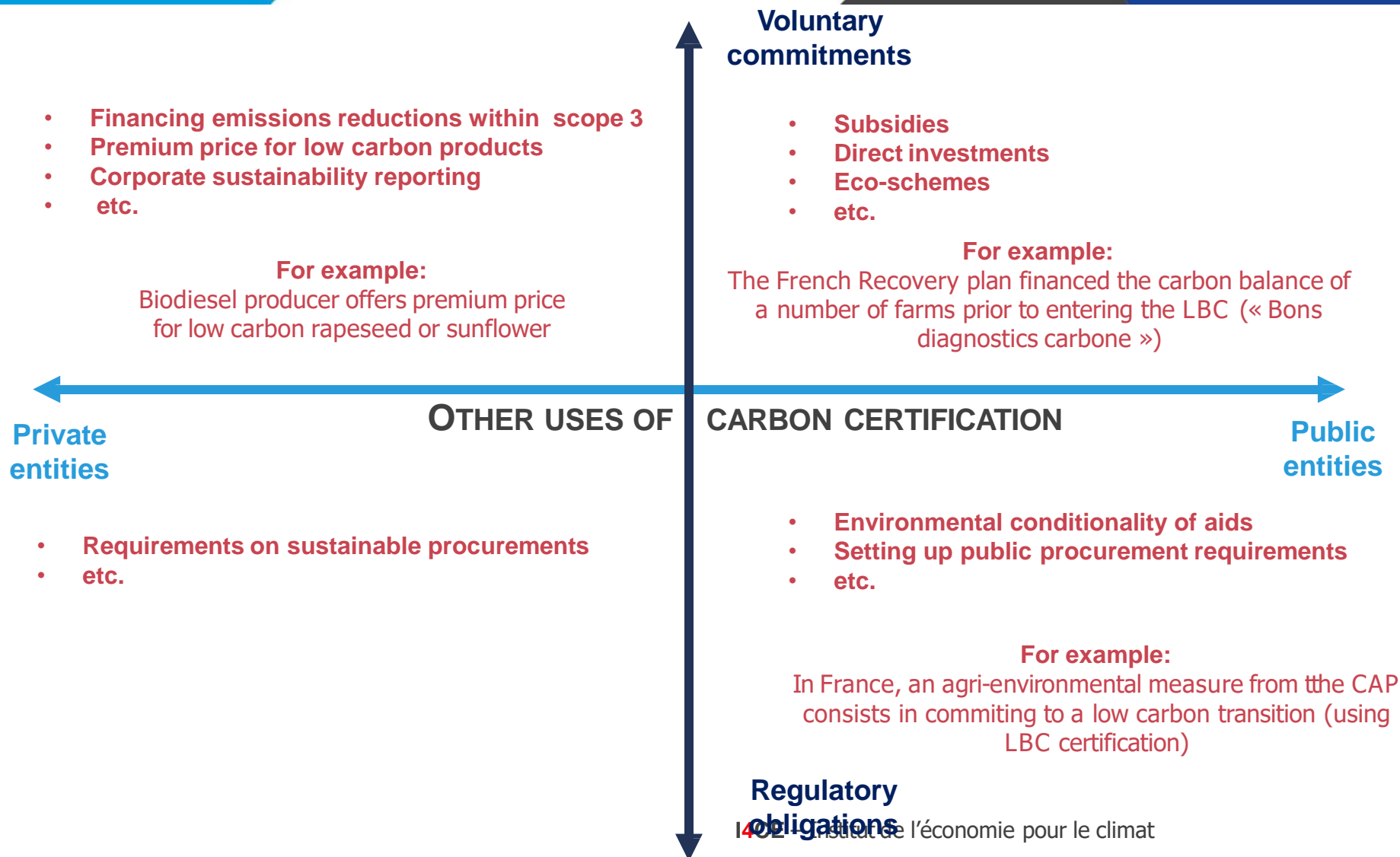
- Data from Ecosystem Marketplace
- ** Data from Trove Intelligence

But,

- Prices remain low

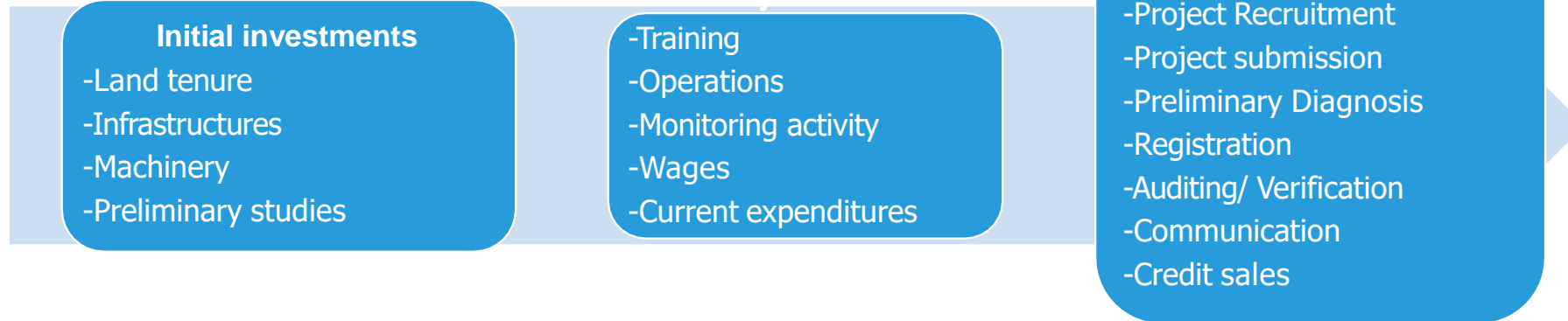
	Average Price	Minimum Price	Maximum Price
International credits (Ecosystem MarketPlace, 2022, sur 2021)	~ 4 \$/tCO ₂ eq	<1\$/tCO ₂ eq	X
International and national credits from the LBC (INFOCC, 2022, sur 2021)	4,6 €/tCO ₂ eq	1 €/tCO ₂ eq	125 €/tCO ₂ eq
National credits from the LBC (INFOCC, 2022, sur 2021)	31,8 €/tCO ₂ eq	8,20 €/tCO ₂ eq	125 €/tCO ₂ eq

Other funding opportunities besides and beyond carbon market



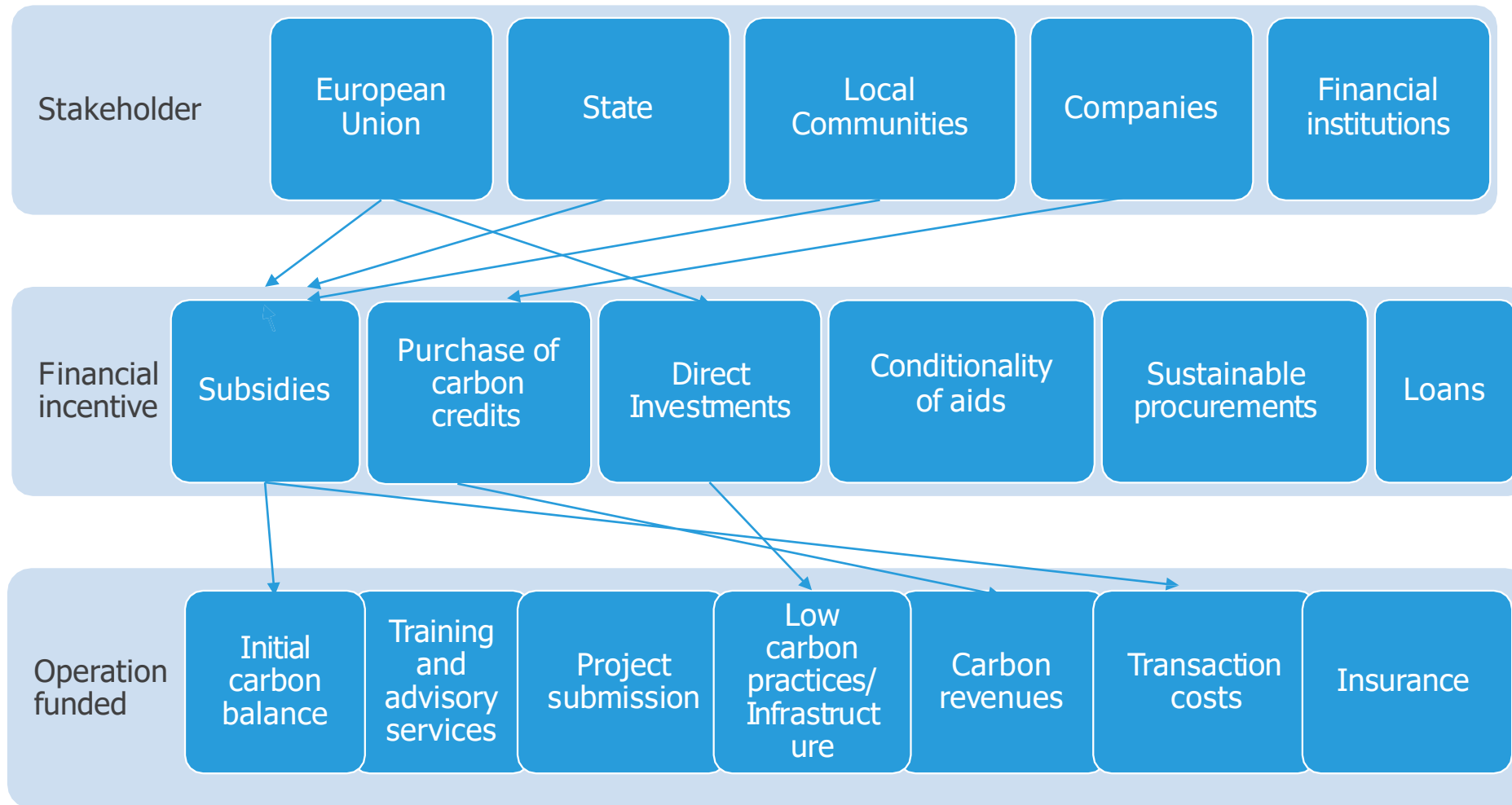
Multiple obstacles to overcome

- **FINANCIAL BARRIER** : Carbon projects are expensive. The costs related to the certification engineering are many, of different kinds and distributed over a long period of time.
 - *Potential solutions:* ▶ Increase the prices; ▶ increase the demand for projects; ▶ multiply the financiers; ▶ segment the projects and differentiate the funding mechanisms



- **TECHNICAL BARRIER** : Carbon certification is complex. It requires technical expertise and training from different actors
 - *Potential solutions:* ▶ Provide trainings; ▶ Provide advisory services; ▶ Incentivise the preliminary diagnosis
- **RISK MANAGEMENT** : The results-based nature of the mechanism requires an advanced risk management system
 - *Potential solutions:* ▶ Insurance mechanism; ▶ Pooling risks

Developping co-financing schemes



- # Next step : Coordinate different sources of funding and end-uses
- **Financial additionality:** need to clarify the possible combinations between public and private support
 - Facilitate combinations of public and private interventions
 - Avoid double funding
 - **End use claims:** need to clarify between regulatory accountability / voluntary commitments / Corporate sustainability reporting
 - Establish pragmatic and coherent accounting frameworks
 - Legitimate double claiming (state /voluntary buyer; between value chain stakeholders)

Questions

- What are the difficulties to finance carbon projects?
 - What kind of funding mechanisms do you use? (type of financier/ instrument)
 - Do you use a combination of fundings (private/public; voluntary/regulatory; carbon revenues/ auxiliary support)?
 - In case you use carbon market finance, is the price/tCO₂ a barrier to sell carbon credits?
 - Do the carbon revenues from carbon credits cover the whole projects's costs?
- What kind of funding mechanisms could be directed towards low carbon projects?
 - What instruments? For what purpose?
- Who should pay for what?
 - How could public finance contribute to the development of low carbon projects?
- How to combine different funding mechanisms?
 - Are the public/private, voluntary/regulatory categorizations relevant in your context?
 - What examples/experiences do you have combining public/private funds for environmental projects?
 - What obstacles are there to be overcome to combine effectively private and public funds?



Merci !

- *Questions / Answers with a panel of experts*

Questions / Answers with a panel of experts

Carbon
Farming

Marion Leguiel
French Ministry of
Agriculture

Pierre Rayé
FCAA – France
Carbon Agri

Donal O'Brien
Teagasc

Clothilde Tronquet
I4CE



Carbon Farming

INSTITUT DE L'ELEVAGE **idele**

LIFE CARBON FARMING – Carbon farming certification and rewarding mechanisms in the agricultural sector

CONCLUSION

Brussels – 25/01/2023



Ce projet bénéficie du soutien du programme LIFE de l'Union Européenne.

