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A European Public-Private Partnership



EAAP

European Federation of Animal Science



2nd one-day symposium of the Animal Task Force & the EAAP Commission on Livestock Farming Systems

Mitigation of livestock emissions with carbon crediting

Josselin ANDURAND

French Livestock Institute



**Livestock emissions
and the COP26 targets**

Idele EU initiatives to reduce carbon intensity in mixed crops livestock



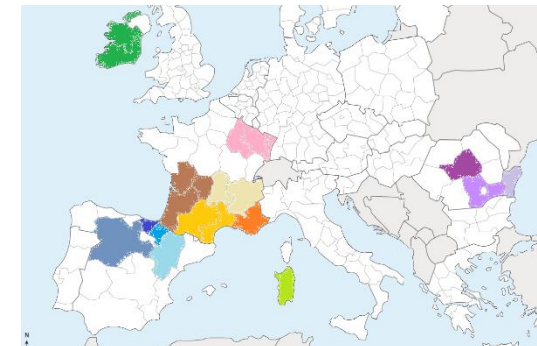
□ LIFE CARBON DAIRY & LOW CARBON DAIRY FARM



□ LIFE BEEF CARBON



□ LIFE GREEN SHEEP 2020-2025



Label Low Carbon– 3 objectives



Launch new actions to reduce the emissions and sequester carbon :

- Foster the emergence in various sectors, of projects which go beyond regulation and usual practices (additional projects which would not have been launched without the Label)

Certify the quality and the impact of the projects

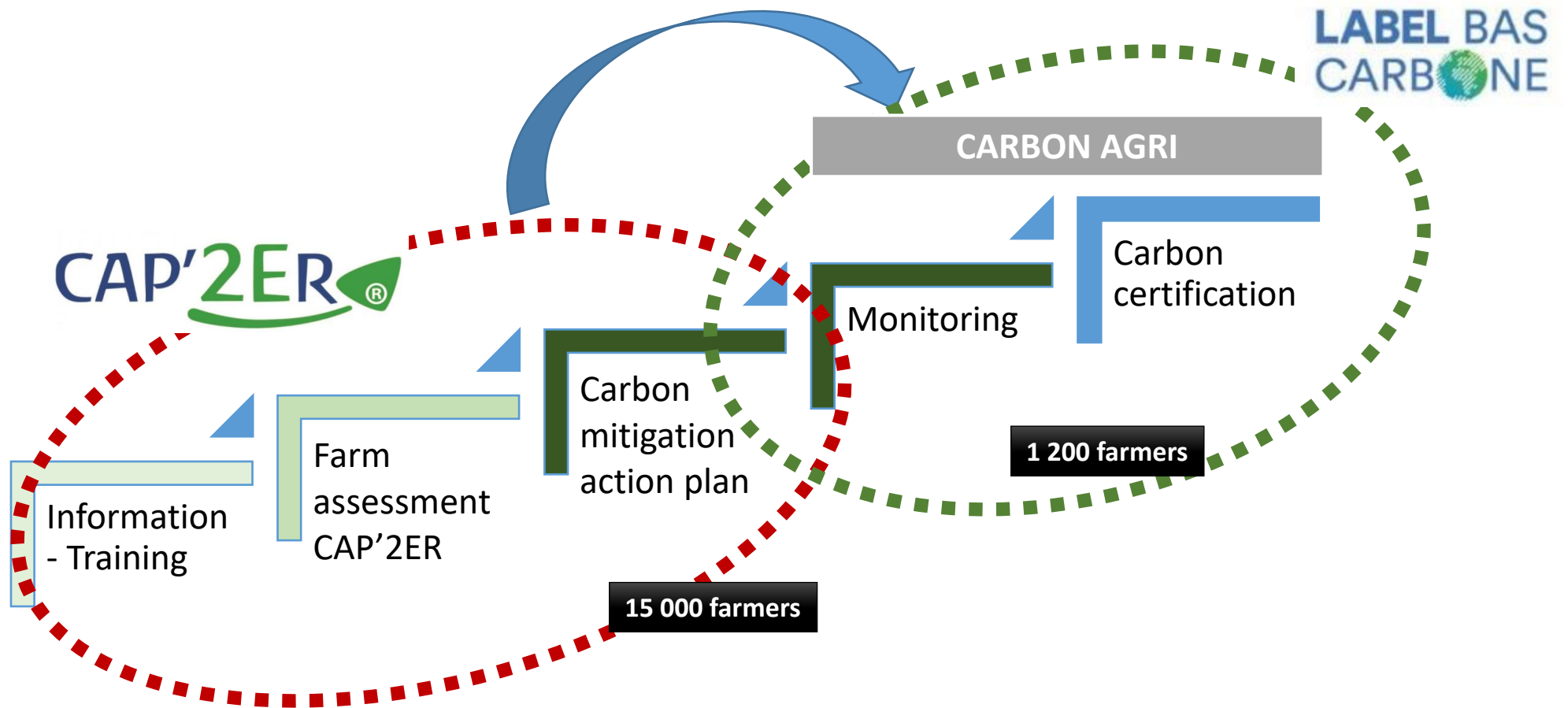
- CO2 gains (reduction or sequestration), direct et indirect
- environmental impacts (positive or neutral)

Attract funding towards these projects :

- Growing interest for local projects for decarbonation (with environmental and climate impacts)
- funders : communities, citizens, companies (exclusive of UE-ETS, CORSIA)



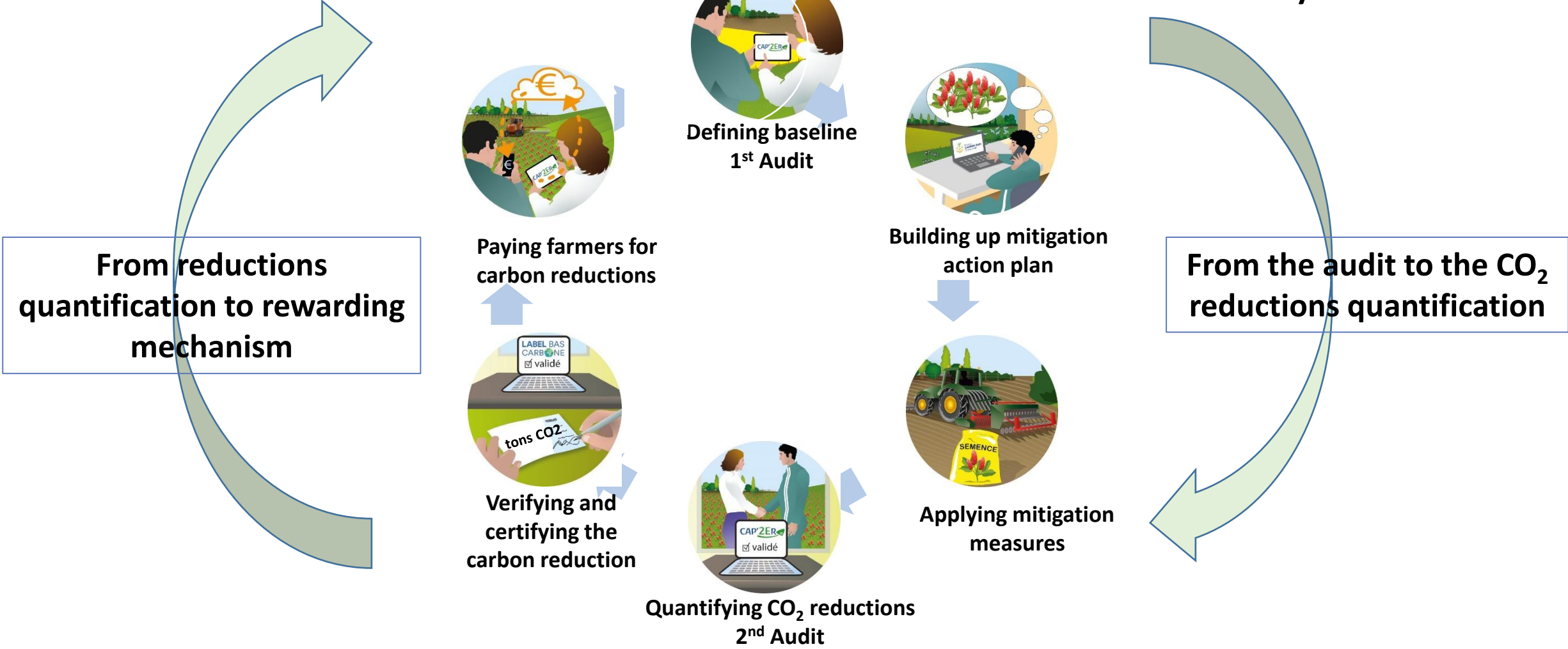
Involving farmers in a national carbon certification



CARBON AGRI : A result based methodology

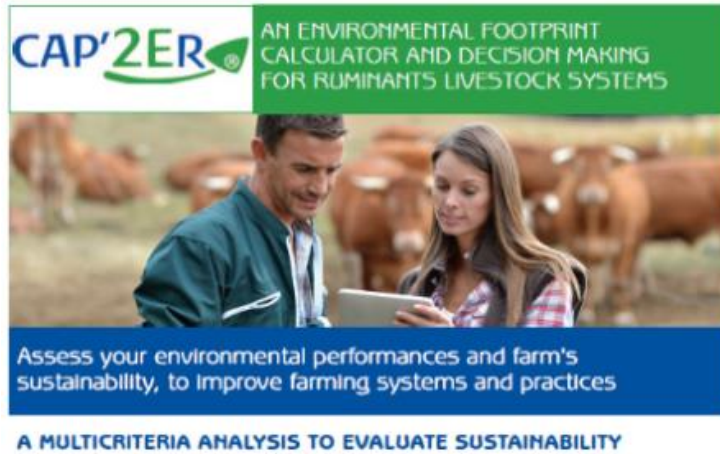


5 year duration





Audit for setting up the reference/baseline

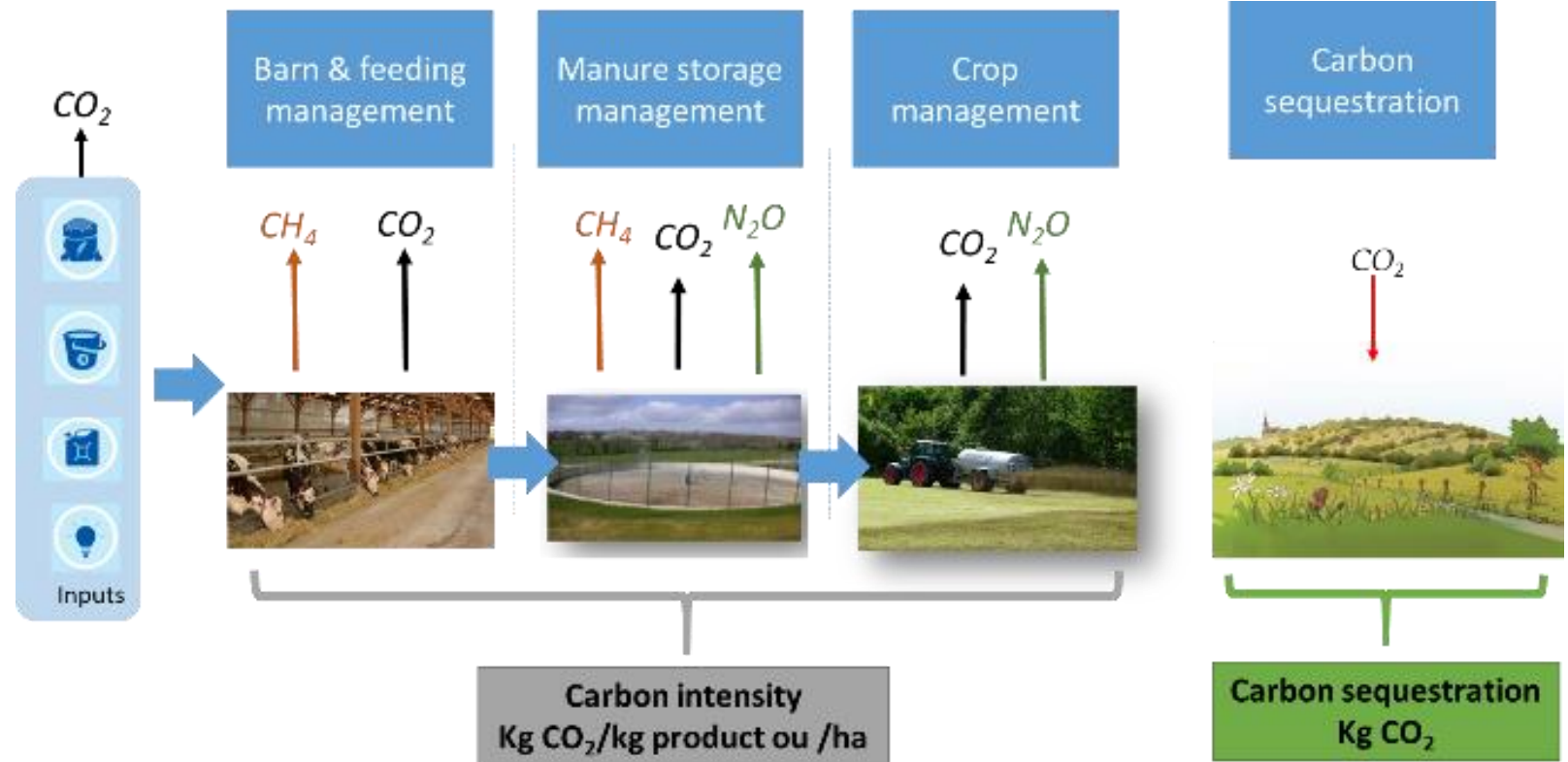


Methodology:

In accordance with IPCC and main guidelines



Certified by



For example: enteric methane emissions are calculated with dry matter intake, digestibility, lipid level, etc.

Calculation includes level of carbon storage, level of fertilisation, yield, if grasslands are grazed or not, etc.



Building up a mitigation action plan among 40 mitigations practices



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

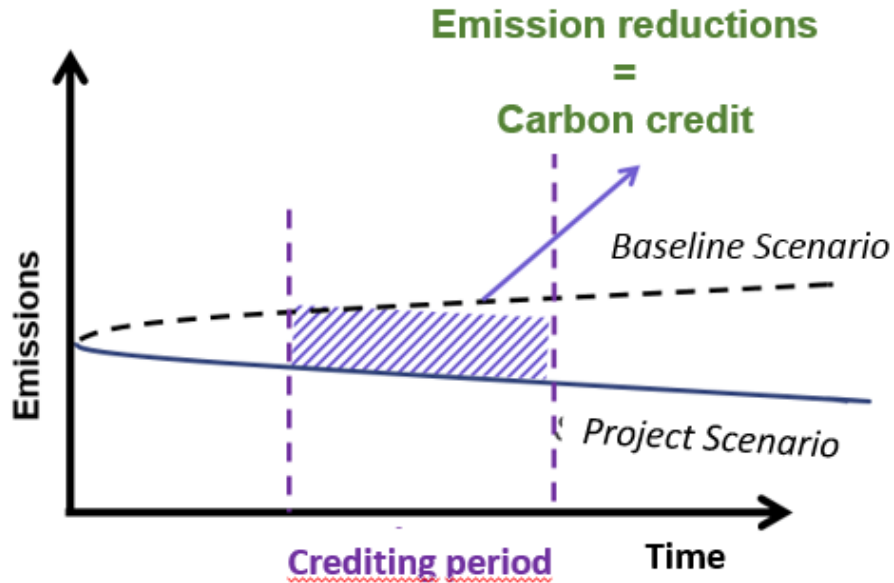
Optimize
pasture management
- with longer
grazing periods,
for example



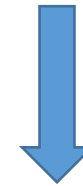
A reduction of carbon footprint up to 15 to 20%
→ 300 to 400 tons CO₂ on a 5 years period



Carbon reductions Quantification, Verification and Certification



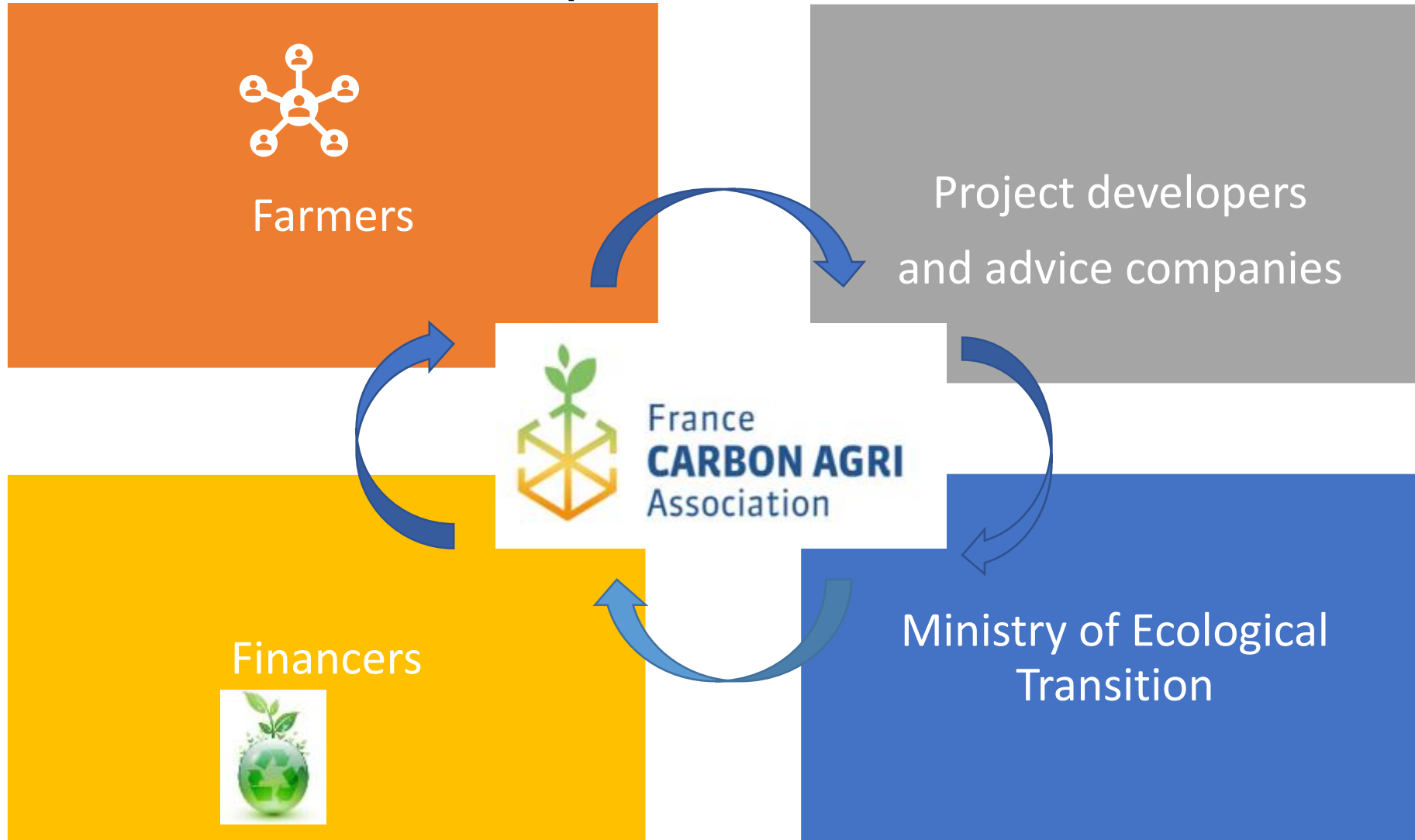
External auditor



LABEL BAS CARBONE



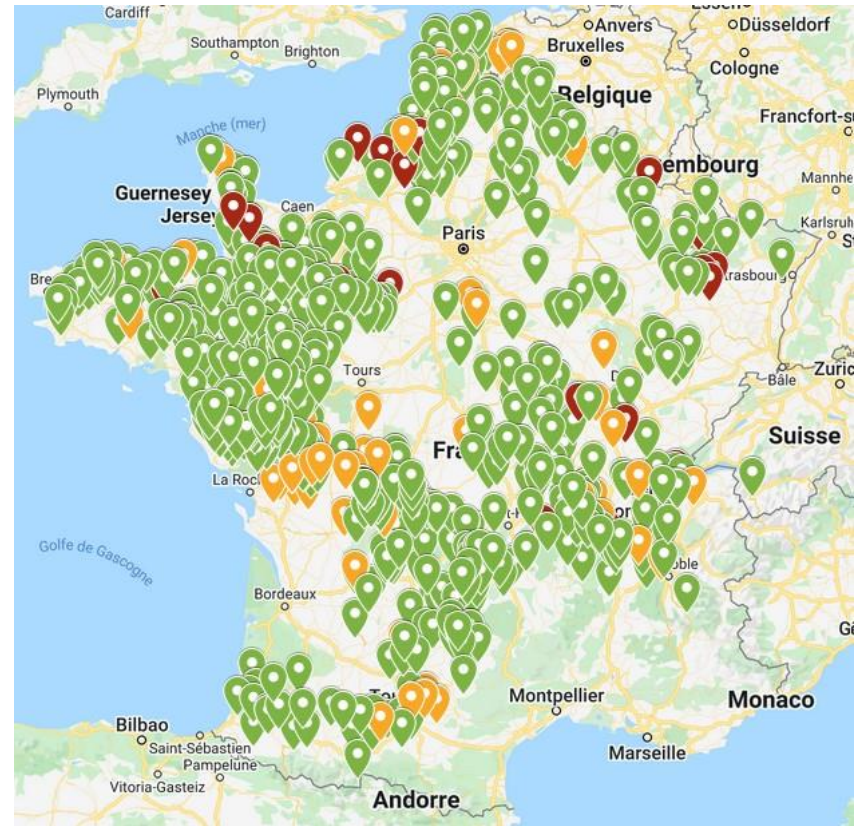
France CARBON AGRI Association - Projects implementation



France CARBON AGRI Association



1st project accredited 2020
- 300 farmers
- 137 000 t CO₂ reductions



2nd project submitted to the Ministry
- 960 farmers
- 580 000 t CO₂ reductions

Upscaling GHG mitigation and carbon sequestration through carbon farming projects



- Life Carbon farming : development and dissemination of carbon credit methodology
- ClieN Farms : Achieving climate neutral farms by reducing GHG emissions and increasing carbon sequestration
- Life Green Sheep: low carbon strategies in sheep farms
- Climate Farm demo : 28 countries; 1,500 farms

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Thanks for your attention

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French Livestock Institute - IDELE

