

Partnerships for dairy and beef low carbon initiatives in France

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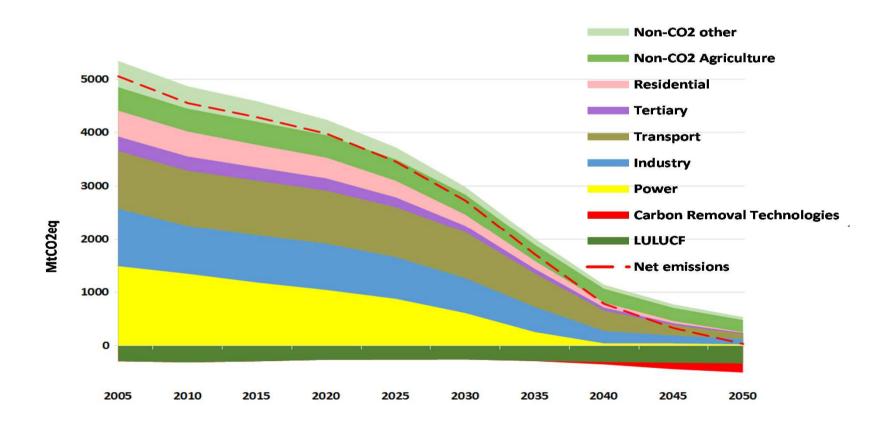






Vision for a Clean Planet by 2050

There are a number of pathways for achieving a climate neutral EU, challenging but feasible from a technological, economic, environmental and social perspectives.





2030 EU Climate and Energy Framework

-40 % Greenhouse Gas Emissions cf. 1990

ETS

Emission Trading System

-43 %

cf. 2005

Including: Power/Energy
Sector and Industry,
Aviation

Non-ETS

-30% cf. 2005

Including: road transport, buildings, waste, agriculture, LULUCF



GHG emissions in France



Cattle: 10,4 % of national GHG emissions

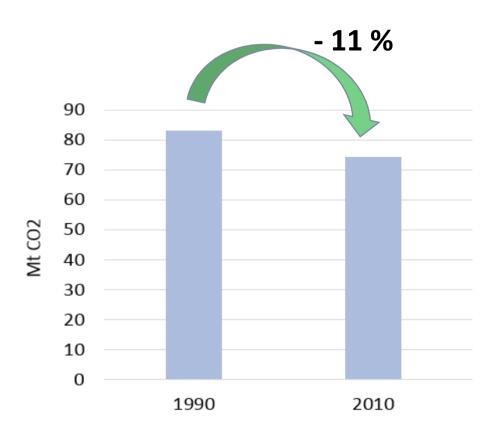
20 Millions of cattle 120,000 cattle farmers





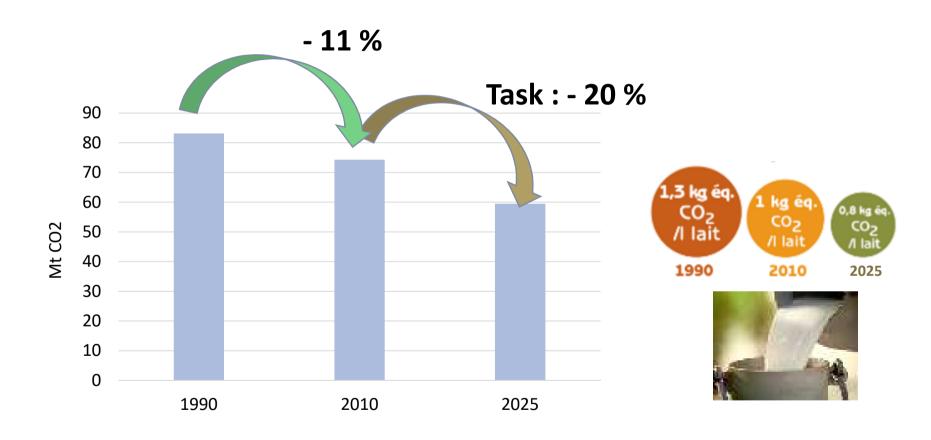


GHG emissions from cattle herd in France





GHG emissions from cattle herd in France





Initiatives to reduce carbon intensity in cattle production systems

A commitment to reduce by 20 % the milk and beef carbon footprint

LOW CARBON DAIRY FARM

















































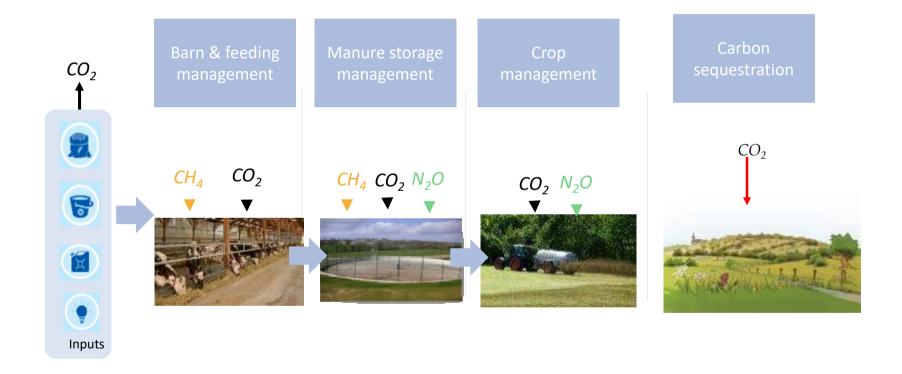






A national tool for a whole farm assessment









CAP'2ER is following IPCC methodology

	Sources	Methodology
Methane	Enteric fermentation	IPCC 2006 – Tiers 3 Sauvant et al, 2014
	Manure	IPCC 2006 – Tiers 2
Nitrous oxyde	Manure management, mineral fertilizers	IPCC 2006 – Tiers 1 and 2
Carbon dioxyde	Energy consumption	French data base
	Inputs	EcoInvent, Ecoalim, 2016

- CAP'2ER in accordance with
 - ► LEAP (FAO) guidelines
 - ▶ IDF guidelines





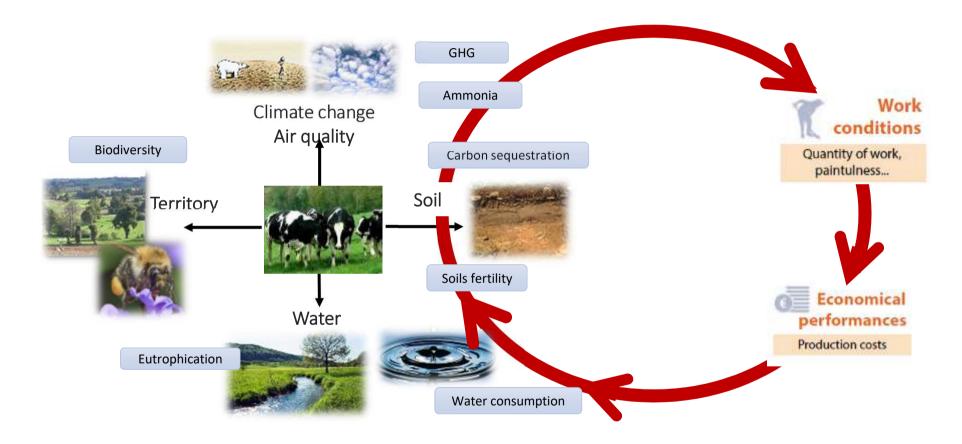
CAP'2ER certified by







From GHG accounting to the SDGs







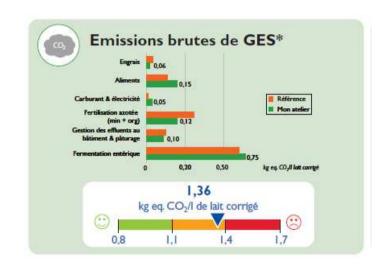
Two levels of assessment in CAP'2ER

CAP'2ER Level 1

- A simplified analysis
- 29 activity data / 1 hour to collect data and to present results to farmers
- To develop an observatory
- ▼ To highlight the link between practices and environment

CAP'2ER Level 2

- A Complete analysis
- ▶ 150 activity data / half day to collect data and to present results to farmers
- To simulate mitigation practices
- To build individual carbon action plans







→ National data base



GGAA 2019- Foz do Iguassu, Brazil, 4th to 10st August 2019





















































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Steering committee







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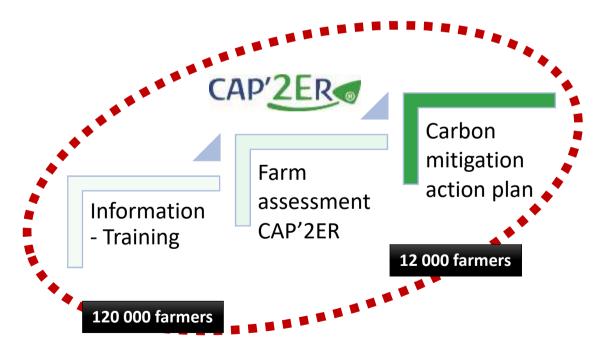


CONSEIL ÉLEVAGE Donner du sers à la mesure



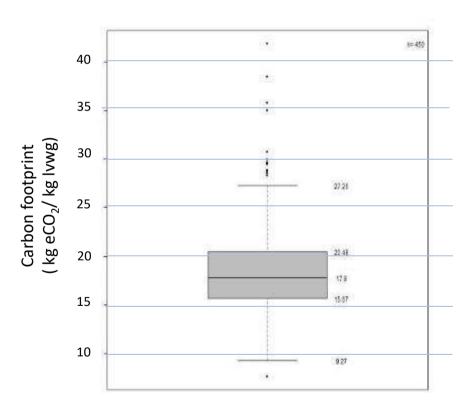
Involving farmers in a national carbon action plan

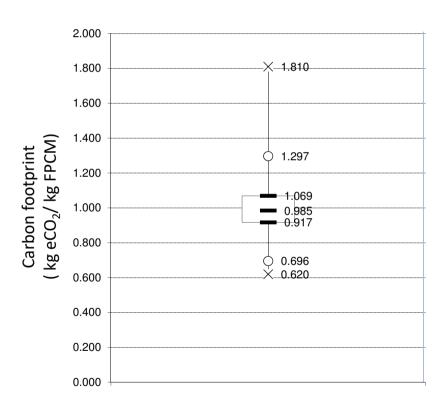
Several steps for involving cattle farmers



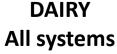


Milk and beef carbon footprint Huge differences between farms





BEEF
Suckler to weanling systems

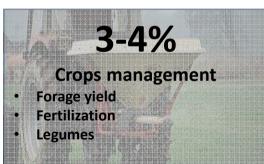


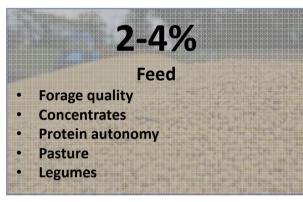


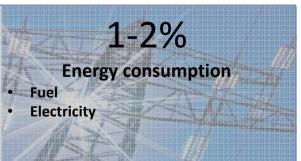


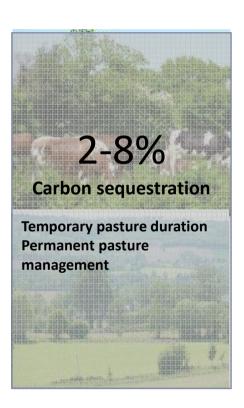
Cost effective mitigation levers







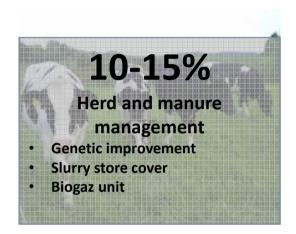


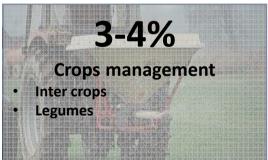


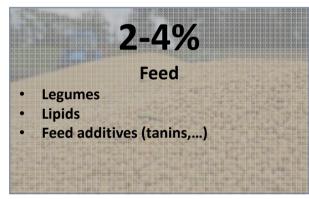


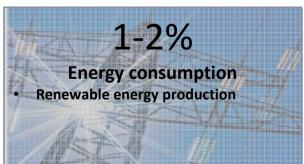


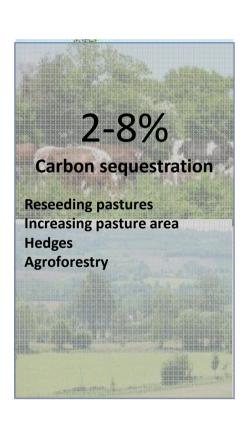
Mitigation measures with extra costs















Three main barriers to adopting widely low carbon practices

- **Barrier 1**: The brakes on change in farms facing uncertain yield benefit, the risk in applying new practices, the implementation costs,
- Barrier 2 :The lack of approved carbon accounting methodologies and monitoring tools to certify carbon reductions,
- Barrier 3: The lack of awareness on the financial support of low carbon strategies.





From 2012 to 2019, solutions put into practice

- Training sessions for farmers and advisers
- A network of innovative farmers
- Communication tools (conferences, farm open days, press,...)
- Agreements between partners
- Recently we developed
 - A carbon certification methodology CARBON AGRI
 - Application of the carbon finance





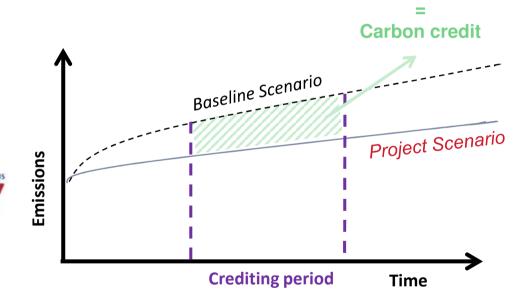


CARBON AGRI: a French methodology to certify GHG reductions in agriculture









Certification process →



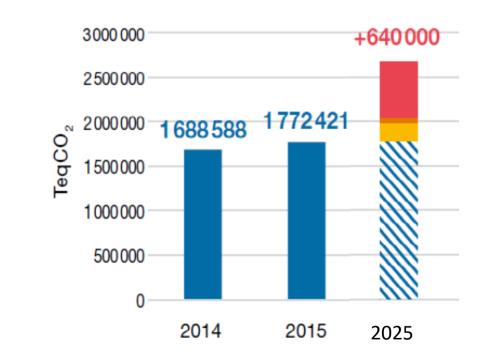
Emissions reduction



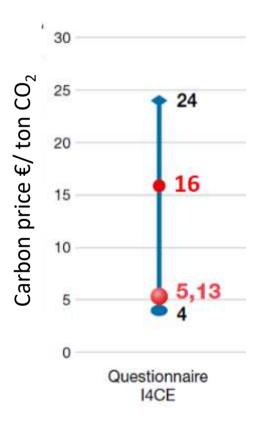


Voluntary carbon market in France

Carbon demand : 1,7 Mtons



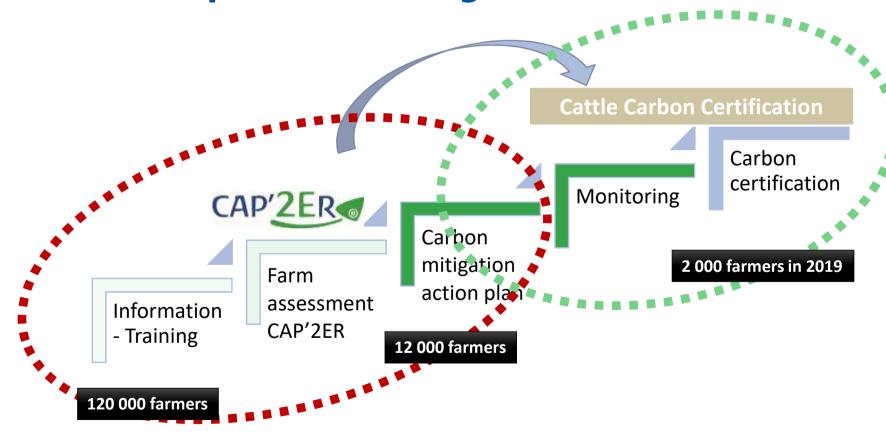
Average price 16 €/t





Involving farmers in a national carbon certification

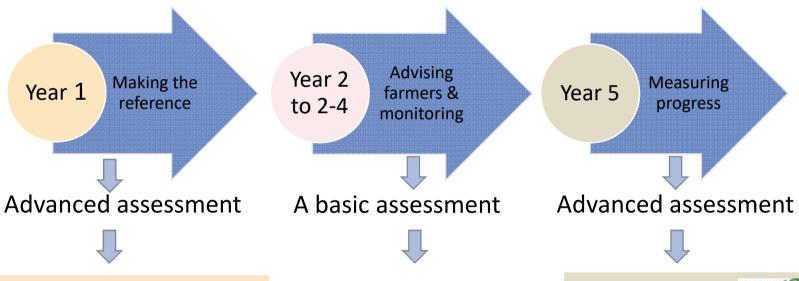
Several steps for involving cattle farmers





Monitoring the progress

This protocol provides flexibility for the user by introducing Basic and Advanced approaches to GHG emission quantification for specific sources.



- Activity data CAP'2ER
- Carbon intensity : GHG emission and carbon sequestration
- Mitigation action plan

- Activity data
- Self assessment or simple assessment
- Activity data CAP'2ER
- Carbon intensity calculation to determine the progress



Example of a low carbon action plan in an average dairy farm



Reducing quantity of concentrates



Reducing age at first calving



Biogaz production



Planting hedges

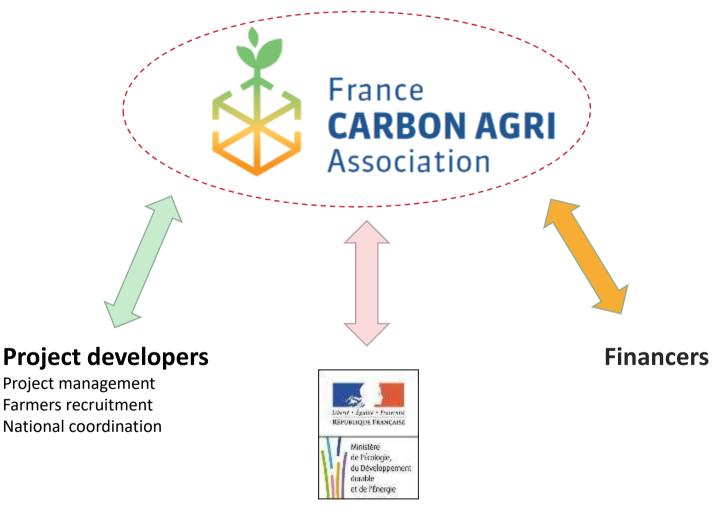
GHG reductions and Carbon sequestration

Reduction of carbon intensity: 14 %

After 5 years project : From 350 to 400 tons of carbon



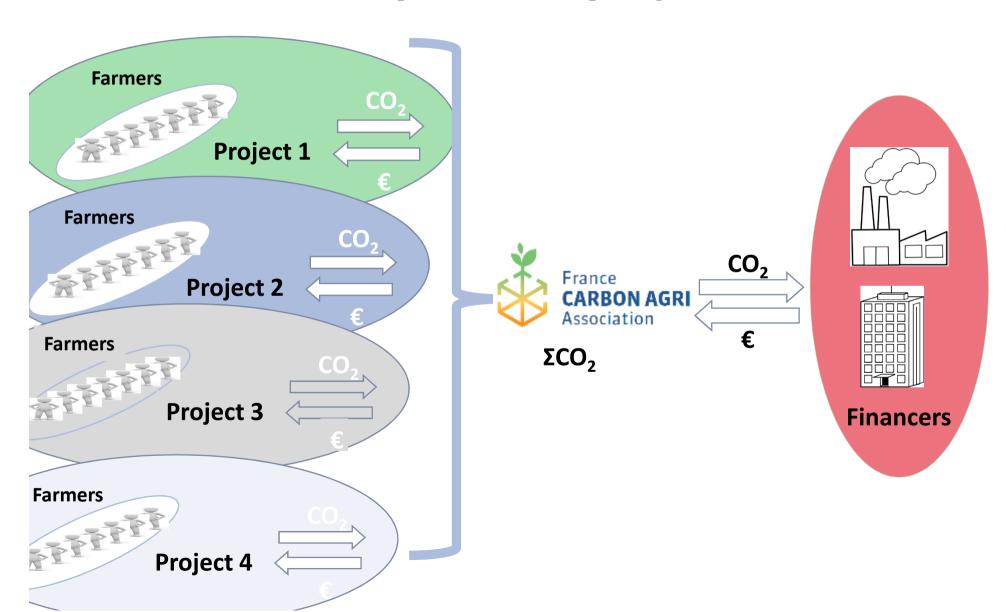
Creation of France CARBON AGRI Association







Development of projects



Summary – Toward a low carbon and sustainable cattle production

- Reducing carbon intensity is possible by
 - Doing the link between GHG, practices and economy
 - Training farmers and advisers
 - Increasing efficiency
 - Catching finance carbon for farmers
- Successful dissemination is based on
 - Common tools
 - Farm scale analysis
 - Large partnership from national to regional levels
 - Collective carbon certification projects
- A proactive and positive strategy leaded by the dairy&beef sectors to reduce carbon footprint and increase sustainability





Thanks for you attention

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