



SECTOR PRIMARI

AGRICULTURA i CO₂

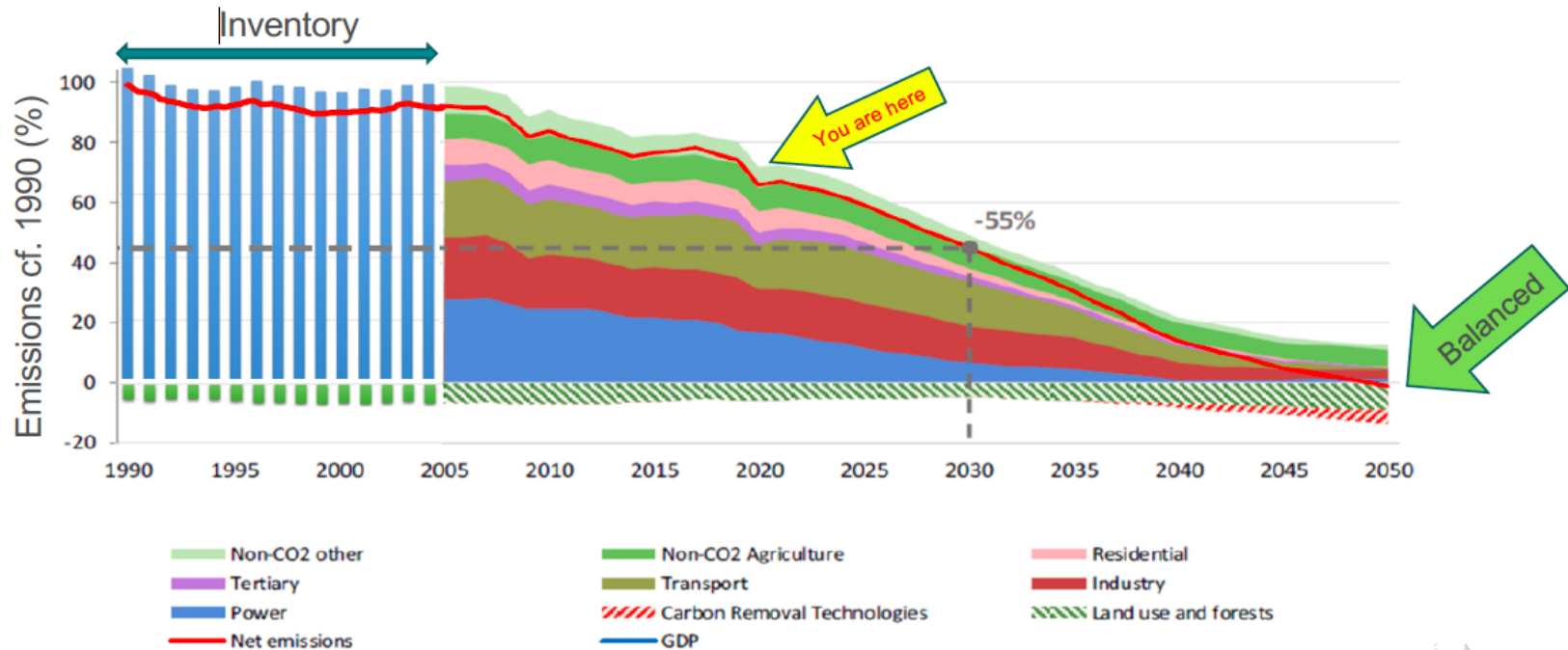
Cas d'èxit: agricultura regenerativa

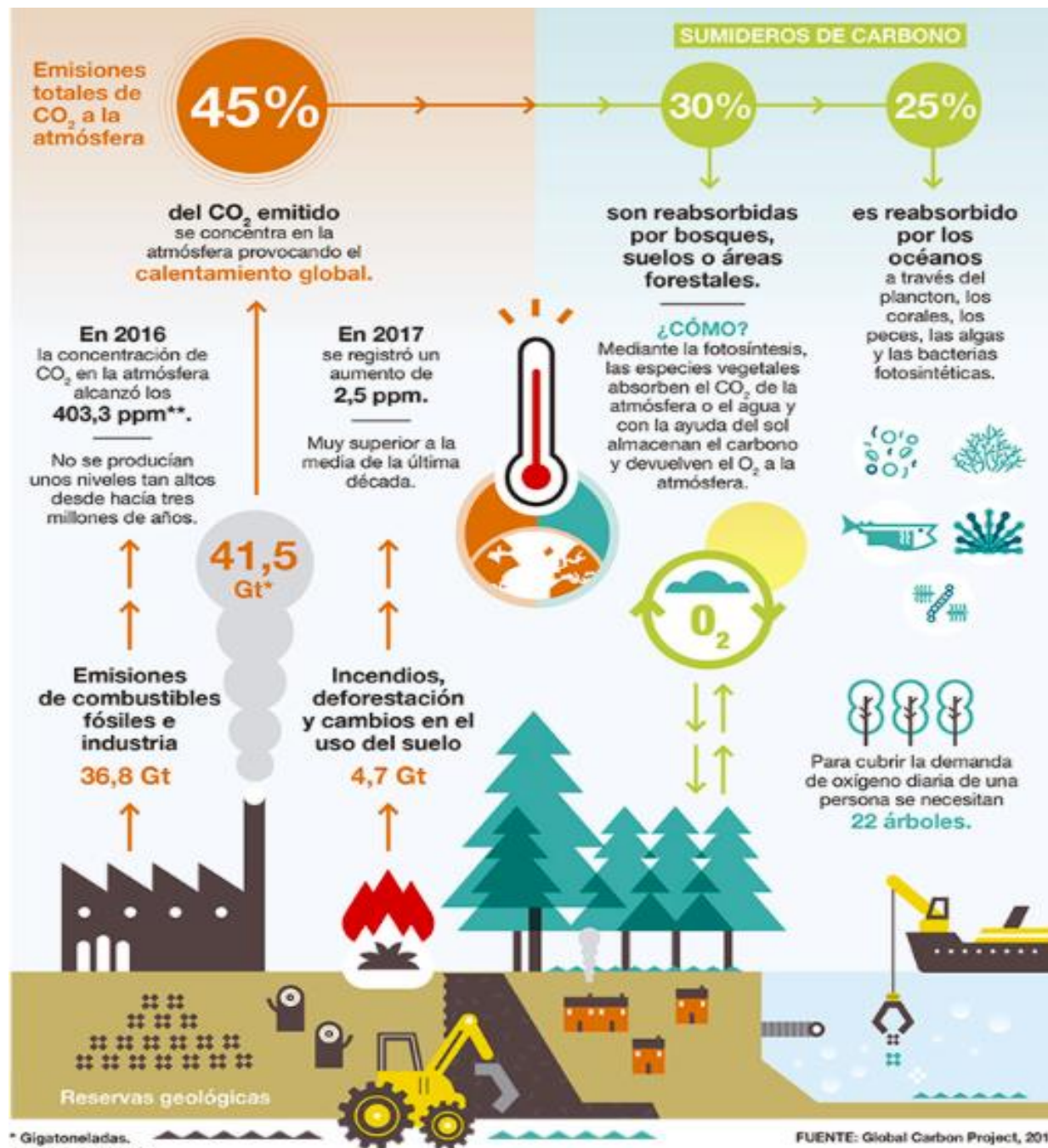


Verònica Kuchinow
Presidenta
Comissió de Transició Energètica i Xoc Climàtic



Pathway to climate neutrality



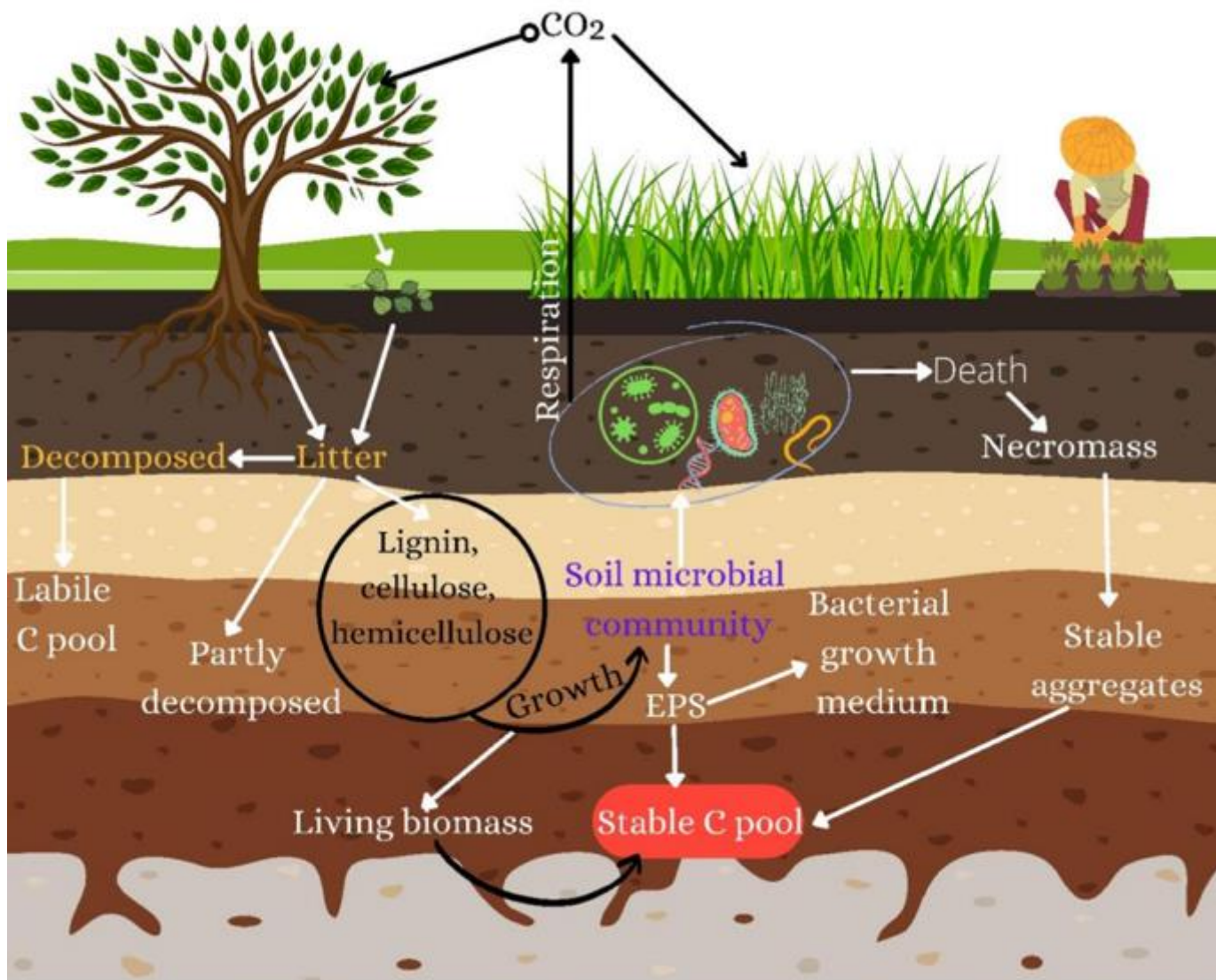


* Gigatoneladas.
** Partes por millón.

FUENTE: Global Carbon Project, 2017.

ABSORCIONS DE CO₂ AL SÒL

Captura i segrest de C al sòl



Font: IRTA –TorreMarimon : Marc Viñas

PRÀCTIQUES AGRÍCOLES x SEGRESTAR C

Pràctiques segrestadores de carboni

... estudiades però amb capacitat desconeguda en el context agrari català

Cobertes
vegetals



Maneig dels
residus de collita



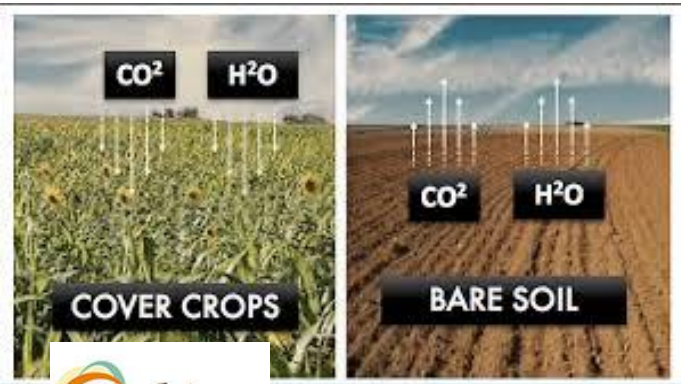
Mínim llaurat

Fertilitzants/esmenes
orgànics



Rotació cultius

Font: IRTA –TorreMarimon : Marc Viñas



kisstheground



HOPE!
ESTAMOS A TIEMPO

Agricultura orgànica intensiva



No destruir sòls
No herbicida
Combinació amb animals granja

Cubrir sòls amb cobertes vegetals
permanents

Protecció de sòls efecte mulching
→ disminució 10°T

Activació microbiologiaa sòl
Disseny parcel·les afavorint moviment natural de l'aigua (key lines)
Reg molt eficient (agricultura de precisió)
Increment de biodiversitat

Conventional
(2013-2015)

Conversion
(2016-2018)

Organic
(2019 - ...)



Resultats despres
de 4 anys

Sòls mes vius

Regenerative Agriculture on European Commission (English subtitles) / Agricultura Regenerativa en la Comissió Europea (subtitulat en anglès)

SOIL LIVE RESULTS BEFORE VS TODAY			
FUNGI (gr./m2)	7,4	13,6	+ 83,78 %
BACTERIA (gr./m2)	2,3	4,2	+ 82,61 %
PROTOZOANS (gr./m2)	0,04	0,47	+ 1075 %

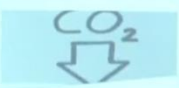
Menys erosió

Regenerative Agriculture on European Commission (English subtitles) / Agricultura Regenerativa en la Comissió Europea (subtitulat en anglès)

SOIL RESULTS BEFORE VS TODAY			
WATER STABILITY OF SOIL AGREGATES (%)	52,4	86,3	+ 64,69 %
WATER HOLDING CAPACITY (%)	28,68	34,41	+ 19,97 %

Menys necessitat d'aigua

Regenerative Agriculture on European Commission (English subtitles) / Agricultura Regenerativa en la Comissió Europea (subtitulat en anglès)

CARBON EMISSIONS PER YEAR VINEYARD - OLIVE TREES - CEREAL			
	1,15 Tn/HA	→ 0,97 Tn/HA	- 0,2 tn/ha
	0,55% M.O.	→ 1,28% M.O.	15,5 tn/ha
	1 CAR	→ 1,4 Tn	<u>10 CARS</u>

Captació de CARBONI



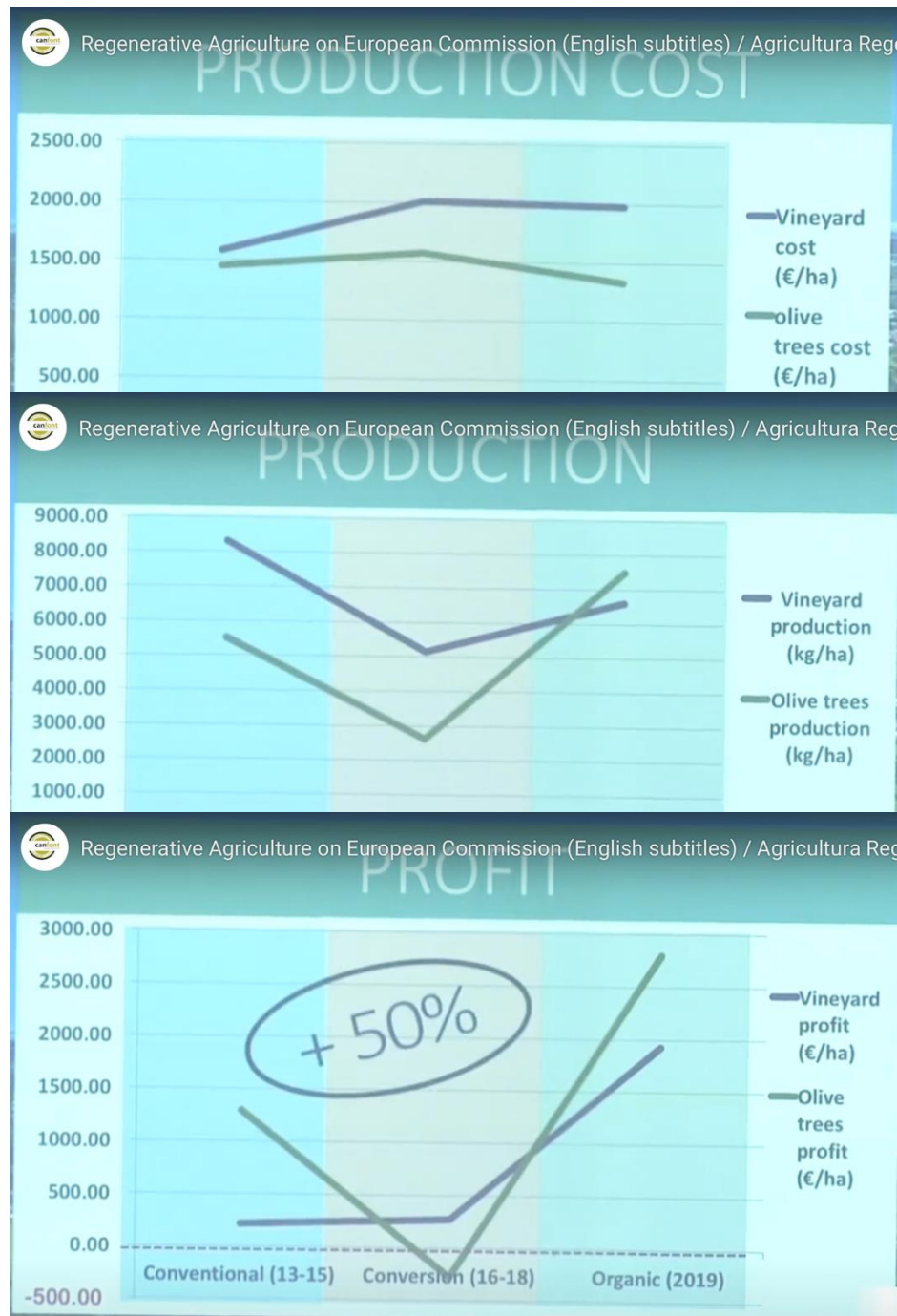
Font: Can Font Orgànic. Francesc Font

Balanc de CO2 en el sector agroalimentari

a



Resultats despres
de 4 anys



Font: Can Font Orgànic. Francesc Font

Balanc de CO2 en el sector agroalimentari

a

PER QUÈ NO PASSA



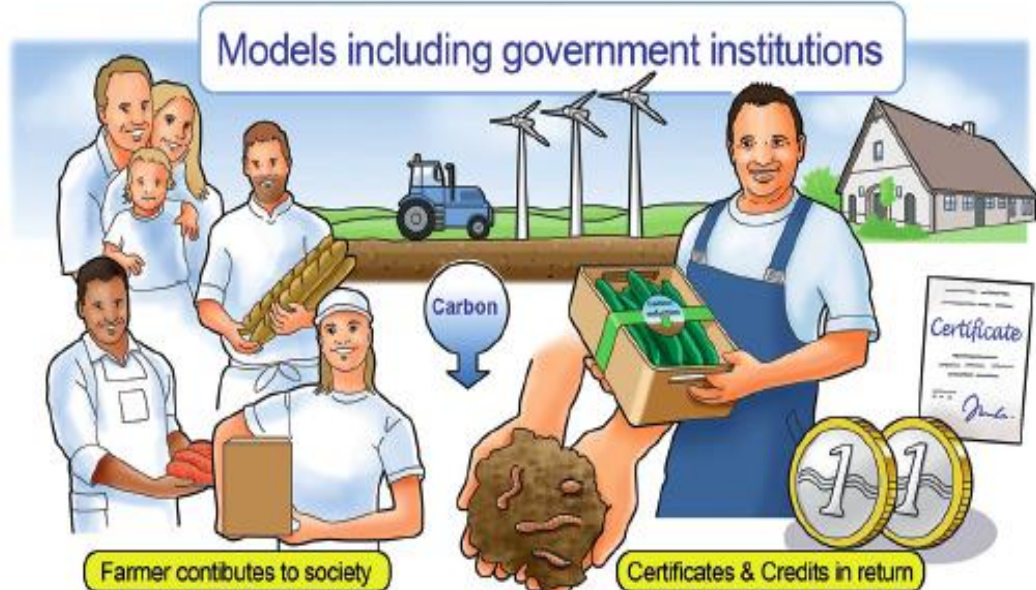
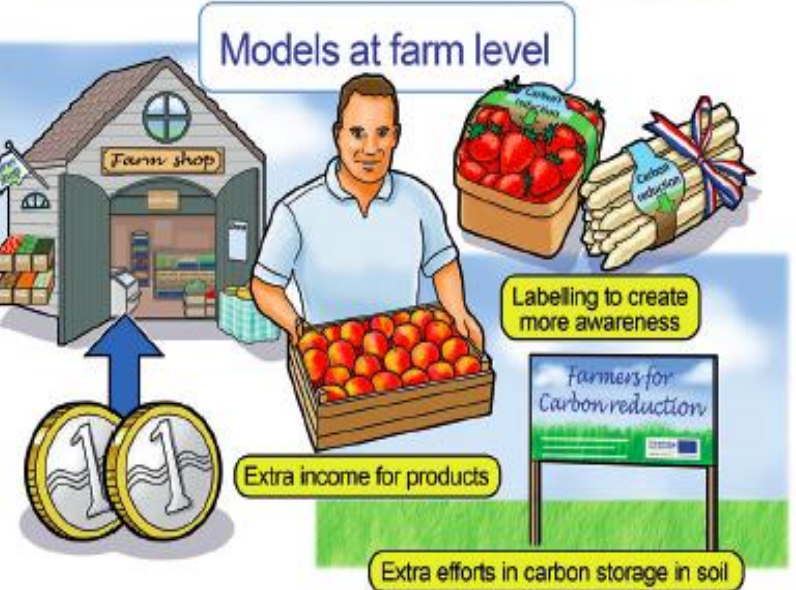
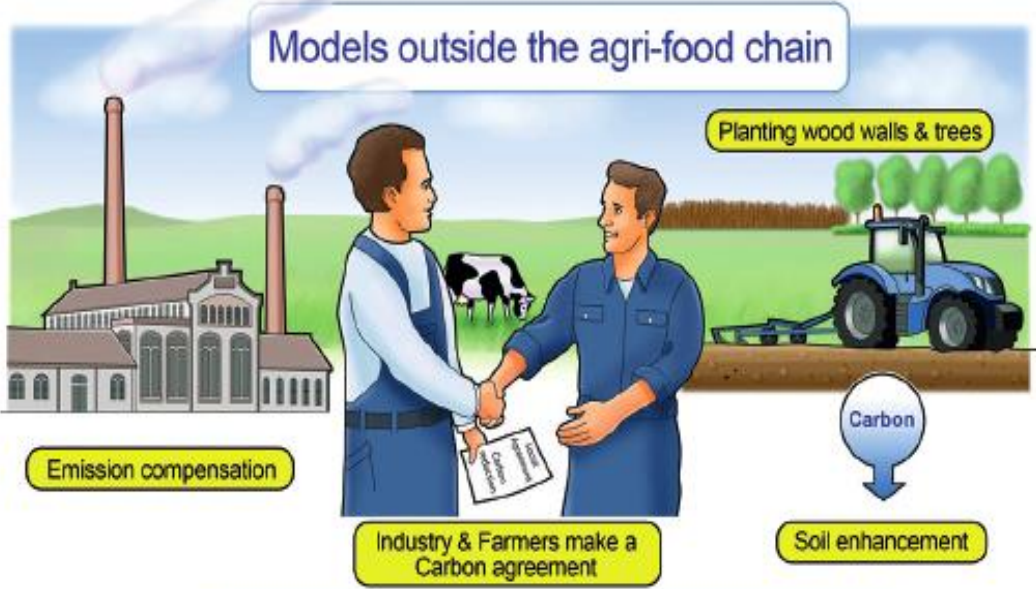
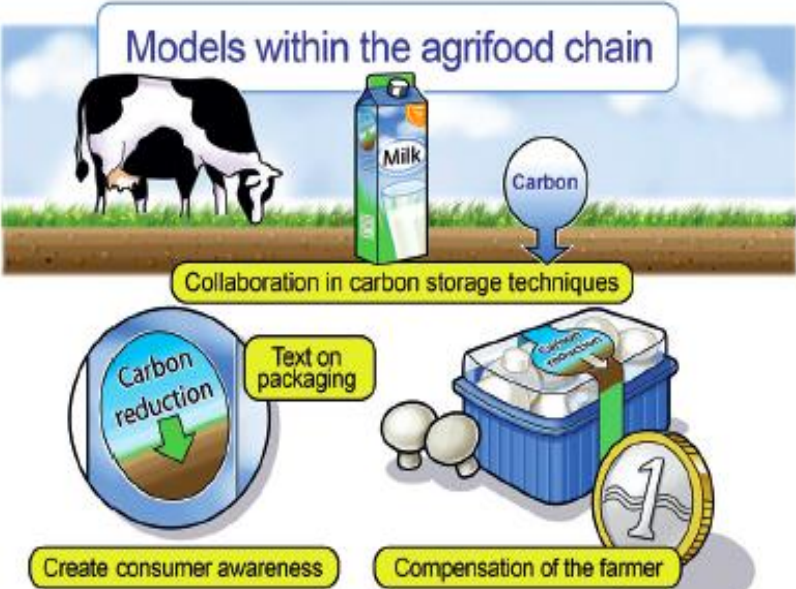
- Sector molt conservador
- Desconeixement i manca de formació
- Manca de eines de mercat (certificats)
- Manca tecnologia (instruments de mesura)
- Estímuls polítics
- ...

CANVI SISTÈMIC

**Valorar/compensar/impulsar el fet de mantenir
el valor del nostre capital natural**

Business models for Carbon Farming

Reduce or compensate for CO2 emissions by storing carbon in the soil by applying soils management techniques at farmer's level.



Tuesday - July 21, 2020

Bayer takes steps to make carbon sequestration a farmer's newest crop opportunity

Bayer to reward growers to generate carbon credits by adopting climate-smart practices and creating a new revenue stream on-farm / The initiative makes Bayer the first company to develop a transparent, science-based and collaborative approach to a carbon market in agriculture

[For Farmers](#) [For Buyers](#) [Future of Ag](#) [Resources](#)



[Carbon](#) [Biologicals](#) [Marketplace](#) [Transport](#) [About](#) [Careers](#)

Enrich Your Soil, Improve Your Profit Potential with Carbon by Indigo

SEE POTENTIAL EARNINGS

HAVE AN ACCOUNT? LOG IN →

PEPSICO UNVEILS AMBITIOUS NEW AGRICULTURE GOALS

[f](#) [t](#) [in](#) [m](#) | APR 20 2021

AS THREATS FROM CLIMATE CHANGE MOUNT, THE COMPANY'S POSITIVE AGRICULTURE STRATEGY FOCUSES ON REGENERATIVE FARMING PRACTICES AND EMPOWERING FARMING COMMUNITIES.

"Any plan to tackle the urgent challenges facing the global food system must address agriculture, the source of nourishment for billions and a key lever to address climate change and inequality," says PepsiCo Chairman and CEO Ramon Laguarta.

Model including government institution:

Label Bas Carbone (France)

**LABEL BAS
CARBONE**

Context

The objective of the label 'Bas Carbone' is to contribute to the fight against global warming in France. The label was created by the Ministry of Ecological and Solidarity Transition, in collaboration with different partners.

The initiative wants to support the set-up of voluntary projects in the field of reduction of greenhouse gas emissions and carbon sequestration that go beyond the current regulation and common practice.

The label wants to answer the demand on voluntary, local compensation of greenhouse gas emissions. Communities, companies, and even citizens, are ready to remunerate actions beneficial for the climate on a voluntary basis, for example to offset their residual emissions. To get involved, these potential funders want the quality and environmental integrity of projects to be labelled. 'Label bas carbone' offers them these guarantees and thus makes it possible to direct funding towards virtuous projects for the climate and the environment.

Concept

Projects promoting carbon sequestration by agriculture are emerging in recent times. 'Label bas carbone' helps companies and communities to buy carbon credits from farmers. In order to be able to remunerate the tonnes of CO2 equivalent avoided or sequestered, quantification in a reliable and transparent manner is required. This is the primary role of the label, since it is a framework for monitoring, reporting and verifying greenhouse gas emission reductions, achieved voluntarily by natural or legal persons in various business sectors.

The label's second role is to ensure the traceability of funding, via its register, to ensure that the same tonne of CO2 avoided or sequestered is not funded, used or sold more than once.

L'agricultura com agent clau de mitigació del canvi climàtic (i despoblament rural)

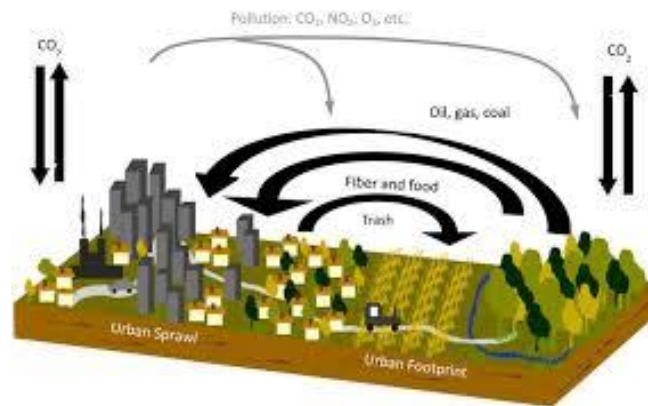
Depura **H₂O**

Provè d'**aliments** sans

Mantè el **capital natural**

Absorbeix **CO₂**

SISTEMA RURAL AGRICULTURA REGENERATIVA



SISTEMA URBÀ MERCAT ECONÒMIC

Genera **CO₂**

Genera **residus**

Consumeix **aliments**

Necessita **medi natural**
(oci)

CERTIFICAT D'AGRICULTURA REGENERATIVA

TÈCNIQUES



Gestió del bestiar



Gestió del cobertes



Esmenes orgàniques

Gestió de l'aigua

Foment biodiversitat

Línia clau

Biofertilitzants

Compost tea

Aprofitament de subproductes



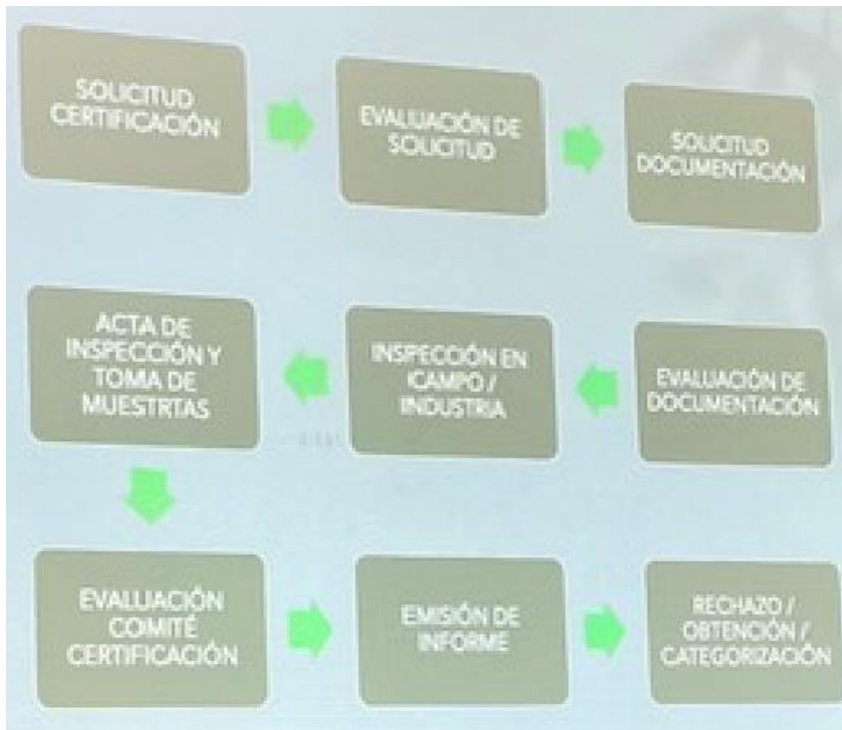
Font: Agrecer : Pablo Ortigueira

Balanc de CO2 en el sector agroalimentari

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CERTIFICAT D'AGRICULTURA REGENERATIVA

PROCEDIMENT



PROJECTES PER GENERAR CRÈDITS DE CARBONI



Font: eAgronom _ Felipe Cortines Acosta

PROVAR, PROVAR, PROVAR... per APRENDRE

APRENDRE a:

1. Quantificar les emissions globals de CO₂ del territori: mobilitat, indústria, agricultura, ramaderia + costos ambientals
2. Identificar conreus i millors pràctiques agrícoles amb potencial captador de CO₂
3. Estimar el potencial de captació de CO₂ aplicant les millors pràctiques disponibles + capacitat embornal CO₂ + altres beneficis colaterals
4. Identificar línies de retribucions a agricultors + models de negoci



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don't
lose your
train
think something