

SERIES



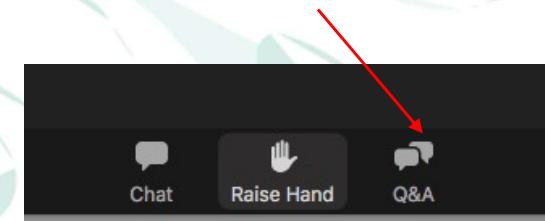
BLUE CARBON MARKET



How to use the platform

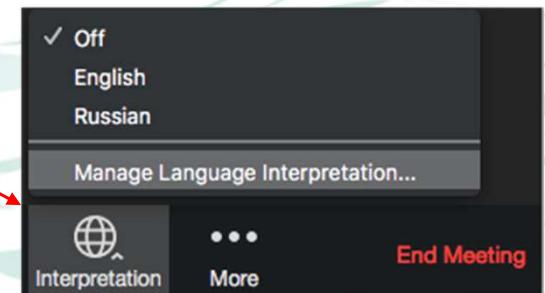
❖ PARTICIPANTS

You can ask questions through the « question box ». The moderators see them and relay them to the speakers who will answer them in the "question and answer" sessions.



❖ TRANSLATION

If you need interpretation please choose the channel below...



❖ SPEAKERS

Think that everyone can see and hear you...and that you are being recorded for future broadcasts! Please turn off your microphones when you are not speaking.

Context & objectives

Series « Blue carbon market »

The aim of this series is to answer the questions most frequently asked about this market.

What are the blue carbon ecosystems ? The blue carbon market is booming, but is it really efficient ? How does it works ? How it can be used to finance restoration project ? Investments progress ?

Context & objectives



ICO SOLUTIONS

Islands, Coasts, Oceans Solutions : Identify and share good initiatives and practices all around the world with our partners



French public institution : acquire parcels of coastline threatened by urbanisation or degraded in order to turn them into restored, developed and welcoming sites that respect the natural balance.



International NGO : promotion and assistance in the management of Mediterranean island areas by the implementation of concrete actions in the field.



Small Islands Organisation, international NGO : supports small islands of less than 150 km² towards their sustainable development and the sustainable management of their resources (water & sanitation, waste, energy, biodiversity, landscape and cultural heritage).

Organizing team



Fabrice Bernard
Moderator
Europe & International
Head-Officer
Conservatoire du littoral



Enora Tregouët
Organization / Question box
Europe & International
Project officer
Conservatoire du littoral



Félix Colas
Organization / Back Office
Europe & International
Project officer
Conservatoire du littoral



Isabella Ranieri
Interpreter

BLUE CARBON MARKET : Feedback and projects | 2nd Episode - June 22nd, 2023

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BLUE CARBON MARKET

- **June 22th (4:00 PM – UTC+2) >> 2nd Episode : Blue carbon feedback and projects**
- **Last time >> 1st Episode : Understand the blue carbon market**

Program – Episode 2

Blue carbon projects

❖ **Feedback from a certifier** – Valentin Bouvier

10'

- **Q&A** – 10'

❖ **Label Bas-Carbon** – Adeline Favrel - 10'

- **Q&A** – 10'

❖ **The Coastal Carbon Atlas**– Steven Canty and Jaxine Wolfe - 10'

- **Q&A** – 10'

❖ **The carbon market: a mystification ?** –

Marie-Christine Cormier-Salem - 10'

- **Q&A** – 10'

❖ **Round Table**

❖ **Closing**

Speaker



Adeline Favrel
Carbon Certification Project Manager



France

Speakers



Steven Canty
Research Biologist,
Marine Conservation Lab



Jaxine Wolfe
Data Manager,
Coastal Carbon Network

Speakers



Marie-Christine Cormier-Salem
Director of Research in social sciences



France

Speakers



Valentin Bouvier

Principal Portfolio & Partnerships Manager

ecoact
an atos company

France

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Retours d'expériences d'un certificateur qu'est-ce qui est nécessaire pour mettre en place un projet qui émet des crédits carbone ?

Valentin Bouvier

Principal Portfolio & Partnerships Manager at EcoAct

EcoAct in a nutshell

Who are we?

- EcoAct is present in **9 countries**: France, UK, Spain, USA, Canada, Germany, Italy, Turkey & Kenya.
- **International group** with 270+ committed and passionate employees

Expert in Climate Consulting

French consulting company, leader in low-carbon strategy

- European leader in Net-Zero strategy
- French leader in the number of Bilan Carbone® and LCA projects

Since 2005, **EcoAct has carried out more than 3,500 missions in 35 countries**, building a unique expertise in climate change mitigation, adaptation and resilience.

2005 : Creation of EcoAct, realisation of rehabilitation, environmental awareness and social reintegration projects

2008 : Registration of the **1st VCS-Social Carbon offset project**

2016 : EcoAct North America opens in New York

2018 : EcoAct Spain opens in Barcelona

2022 : EcoAct Italy opens as well as **EcoAct Germany**



2007 : First forestry projects in France and opening of an office in Brazil.

2010 : Launch of the **"Hifadhi-Livelihoods" project in Kenya**

2017 : Acquisition of **Carbon Clear** (EcoAct UK and EcoAct Turkey)

2020 : EcoAct becomes an **Atos company**

Our partners



Developer of carbon offset projects

- **Pioneer of carbon offsetting** in France ; **European leader** in voluntary carbon offsetting (**70+ million tCO2e offset since 2005 and 13 million tCO2e in 2022**)
- **Nature-Based Solutions**: a team of 30 people dedicated to developing nature and community-based projects
- Voted Best Project Developer in the World by *Environmental Finance*

EcoAct and Offsetting

Project development team

- An innovative and world award-winning project developer.
- Support 40+ carbon offsetting projects.
- 3 clusters: forestry, blue carbon and community-based.
- Supporting development of Blue Carbon projects in [India](#), [Mexico](#), [Kenya](#), [Guinea](#)



Nature- and Technology based solutions unit (NTBS)

- EcoAct BU specialized in all topics offsetting related
- Dedicated team for the development and carbon certification of projects (Project development)
- Dedicated team for the sourcing/ promotion due diligence of existing projects;



Portfolio & partnership team

- Strong expertise on projects sourcing and promotion of projects to corporate client base
- Intermediary in the acquisition of certified carbon credits with high social and environmental added value.
- Due diligence and on-site audit work conducted for each project presented to clients
- Upfront investment portfolio



Developing an offsetting project



Feasibility Study

Due Diligence

- Geopolitical context of the project
- Technical foundations of the project
- Arrangements between local communities/ local government – license to operate
- Adaptability of methodologies/ species
- Background check on partner
- Discussions on the project financials and Business plan with partner

Baseline Survey

- Preliminary calculations of the **ERs expected** from the implementation of the project
- Following the adapted **methodology** to establish the baseline scenario to compare against the project scenario
- In the context of upfront investment, this step is key to be able to present a project to a client as it will form the basis for the abatement cost of the project

Local Stakeholder Consultation

- **FPIC** (Free prior and informed consent) process to be implemented across project;
- Consulting stakeholders that form part of the project to create **buy-in** and participation;
- Should allow for local stakeholders to disclose their **grievances / questions** regarding the project
- Should also allow for the elaboration of a **Benefit Sharing Mechanism** and a participatory approach to project management and implementation

Certification/Evaluation

Standards (International/ Domestic)



Methodologies

- Each project follows a peer reviewed methodology developed in close partnerships with the standards
- International Blue Carbon Methodologies for Mangrove restoration include [VM0033](#).
- EcoAct has developed a methodology for the [conservation of Posidonia Seagrass](#) in the French mediterranean coast through our R&D team 'CLICK'
- Currently working on the development of Manrgove restoration methodologies for LBC – end goal 2024

Verification Timeline

- Writing of a Project Design Document
- Validation by third party auditor
- Validation by Standard
- Monitoring reports
- Verification Report by auditor
- Verification Report accepted by standard
- Credits generated

Upfront investment/
Offtake

Forward Purchasing

Spot purchase of
credits

Project - Semilla Azul



A community-based mangrove restoration project in the Yucatán peninsula, Mexico.

The project area is located within the "*Reserva de la Biosfera Los Petenes*", which holds unique, endemic mangrove ecosystems such as the Petén.



Biodiversity hotspot,
including 473 species of
flora and 434 of fauna.¹



High economic value, such as
for the development of
ecotourism.

Aims to restore 5,000
hectares of degraded
mangroves.



and remove more than
4,000,000 tCO₂e from
the atmosphere.

- 1,200 Ejidos concerned - "communal" approach
- Community-based (heavy involvement of local communities in planting)
- Direct benefits through employment/ indirect benefits through additional livelihood creation and BSM;

Key Takeaways – Semilla Azul

Complex land rights

- Complex communal approach to land tenure
- Ejidos - Parcel based-territories that were awarded by the government to local communities;
- Key agreements must be signed by proponents / Ejidos/ Resiliencia Azul
- Context may differ from project to project, understanding of beneficiaries is key to understanding carbon rights

Technical

- So far only **one project** has been registered under the new **VM00033** methodology under VCS – Lack of precedence and technical
- One of the largest Mangrove restoration to date
- Relatively new project types means that some aspects will require heavy questions on behalf of standards – which may at times be outside of the

Community engagement

- **Benefit Sharing mechanisms** linked to the land and Carbon rights discussed with local beneficiaries;
- Iterative process with Ejido communities to revise the ways in which monetary benefits from the project are re-invested;
- **Mangroves take time to grow, it's important to keep communities engaged despite this.** Also important for investors to have a strong vision of value added of project.

Trends for investors

1. Increased demand to fund projects on **ex-ante basis** to secure competitive price and increase commitment/ accountability in project (50% of Market price on average);
2. Interest in innovative and new monitoring technologies (GIS/ remote sensing);
3. Demand for increased transparency on the **breakdown of project budget and costs**;
4. High quality and strong direct and indirect co-benefits linked to blue carbon projects - a demand that goes beyond carbon and requires strong BSM / Stakeholder considerations
5. Guarantees on project budgets and solid projection on ERs + **Risk management**



Our Approach

1. Elaborating robust **business plans** according to internal template through iterative process with on the ground partners to set a fixed budget for the project;
2. **Adapt** to specific client requests for innovative monitoring solutions + possibility to rely on in-house experts
3. Open dialog with investors on **budget breakdown** once in advanced conversations
4. **Local Stakeholder consultations** conducted in feasibility stage of project to ensure buy-in from project beneficiaries + integrate **Benefit sharing Mechanism** within business plan
5. Strong requirements for Baseline Studies in the feasibility stage to have reliable carbon projections / Comprehensive project **Due Diligence** prior to client presentation.



Some Challenges...



Uncertainty / some lack of visibility on standards timelines and processes.
Some delays can be observed with regards to issuance of credits



Uncertainty in upfront investment opportunities will always be present at some level – Ex-ante credits, however robust will always be estimates



Legal and regulatory context of certain countries – application of article 6.4 of the Paris agreement



Blue Carbon Projects are still relatively expensive compared to some technologies – barrier for some investors, however demand remains high



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Part I

Question & Answers



Standard carbone : l'exemple du Label Bas-Carbone



Adeline Favrel
Carbon Certification Project Manager



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L'Institut de l'économie pour le climat



#NotreMission

L'Institut de l'économie pour le climat est une association d'intérêt général, à but non lucratif, fondée en 2015 par la Caisse des Dépôts et l'Agence Française de Développement.

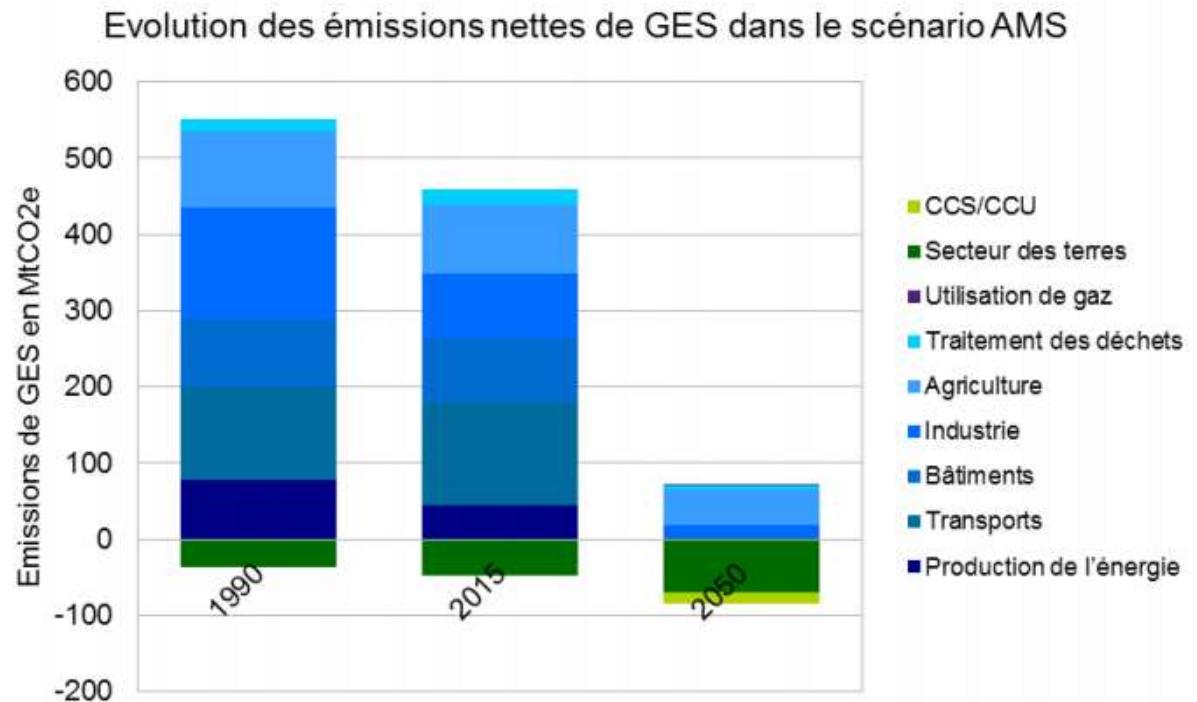
L'Institut de l'Economie pour le Climat (I4CE – Institute for Climate Economics) est un institut de recherche à but non lucratif qui contribue par ses analyses au débat sur les politiques publiques d'atténuation et d'adaptation au changement climatique.

Nos travaux couvrent trois transitions – énergie, agriculture, forêt – et six défis économiques : investissement, financement public, financement du développement, réglementation financière, tarification carbone et certification carbone.

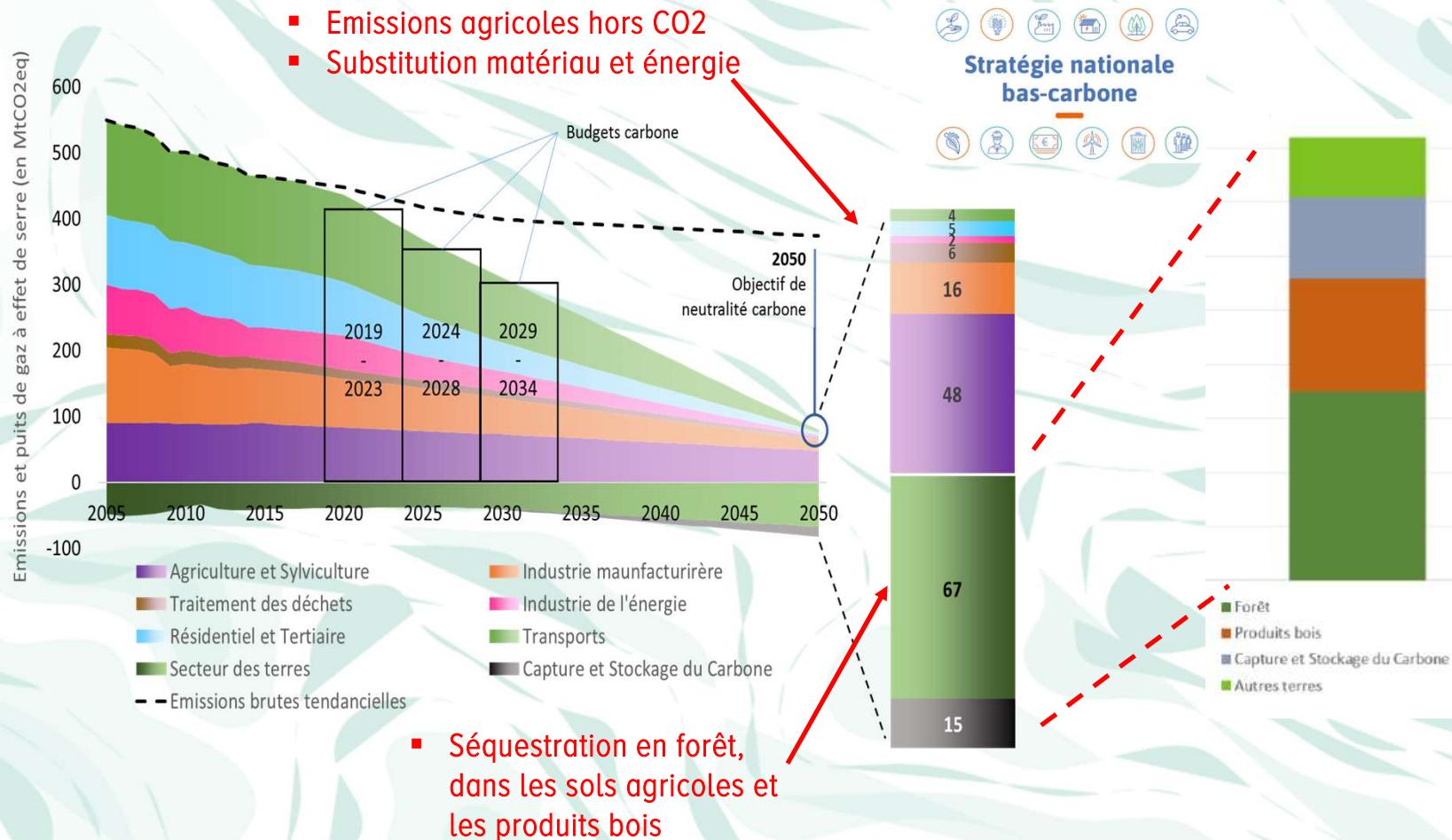
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Un objectif mondial, européen et national : la neutralité carbone à l'horizon 2050

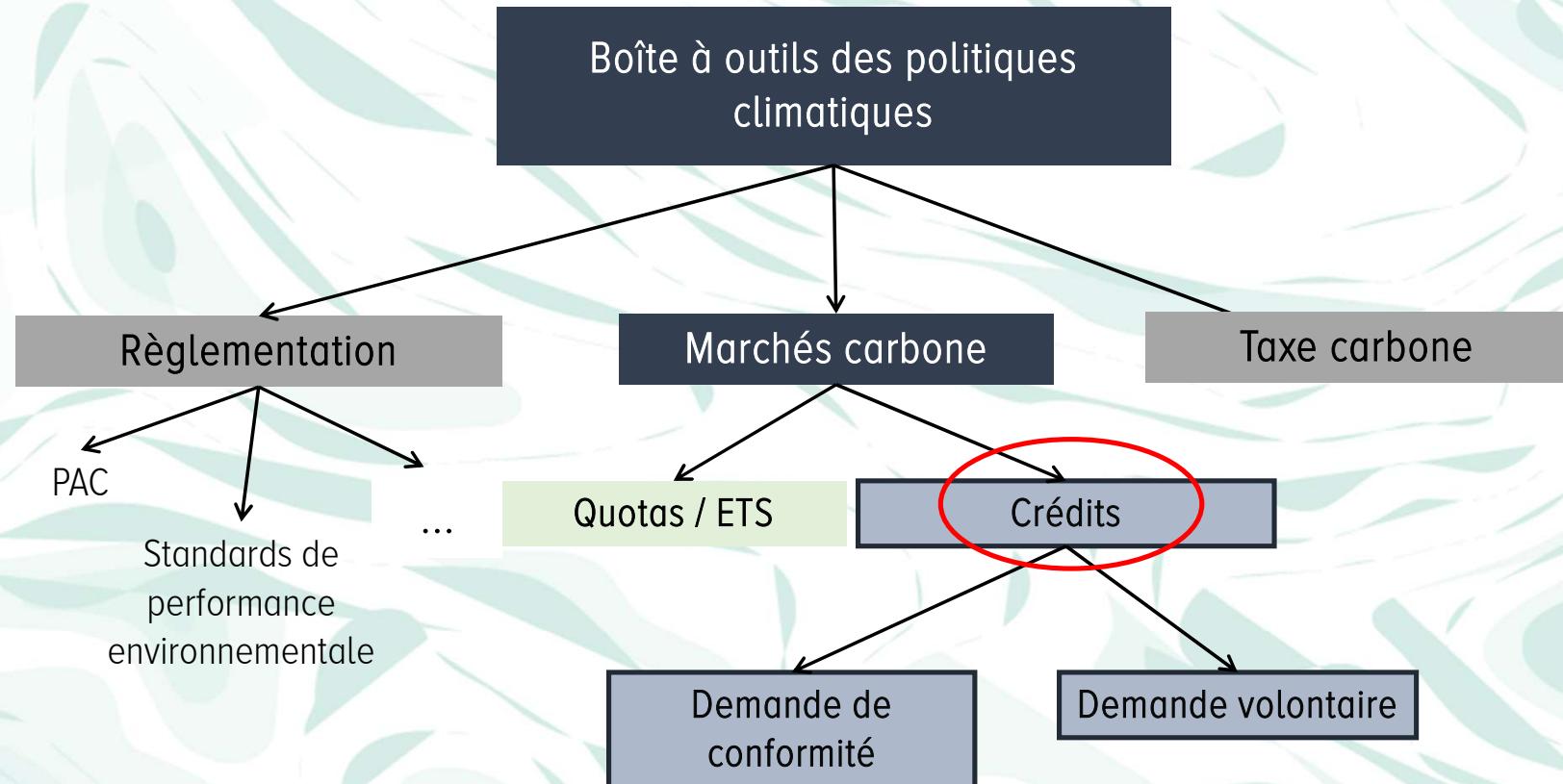
- Accord de Paris, 2015
 - Viser la neutralité carbone à partir de la seconde moitié du siècle.
- Loi européenne sur le climat, 2021
 - Les émissions devraient diminuer d'au moins 55% en 2030 (par rapport à 1990)
 - Atteindre un équilibre entre émissions et absorptions au plus tard en 2050
 - Emissions négatives après 2050
- En France : objectif de neutralité en 2050
 - SNBC 2018-2019



La Stratégie Nationale Bas Carbone : atteinte une neutralité carbone physique à l'horizon 2050



La compensation carbone : un des outils des politiques climatiques



La certification carbone: au centre des marchés de conformité et des marchés volontaires



Une multitude de labels existants de qualités différentes

umweltbundesamt[®]
ENVIRONMENT AGENCY AUSTRIA

HOW ARE EXISTING SYSTEMS CERTIFYING THESE ACTIVITIES?



A l'origine : créer un cadre de certification en France pour faciliter le financement des actions 'climat'

1) Un besoin d'incitations pour déclencher des réductions des émissions ou amélioration de la séquestration carbone dans les secteurs agricoles et forestiers



2) Des entreprises souhaitant financer des projets bas carbone locaux et certifiés

3) Un besoin d'apporter des garanties sur l'impact environnemental des projets



4) De nombreux labels carbone à l'international mais un manque de cadre de certification carbone identifié sur le terrain en France ...

Le Label Bas Carbone : un label national issu d'une démarche bottom-up

1) L'impulsion des Clubs de recherche-action



2) Le projet VOCAL – volet forestier

Financeurs



Porteurs de projet



Comité de pilotage



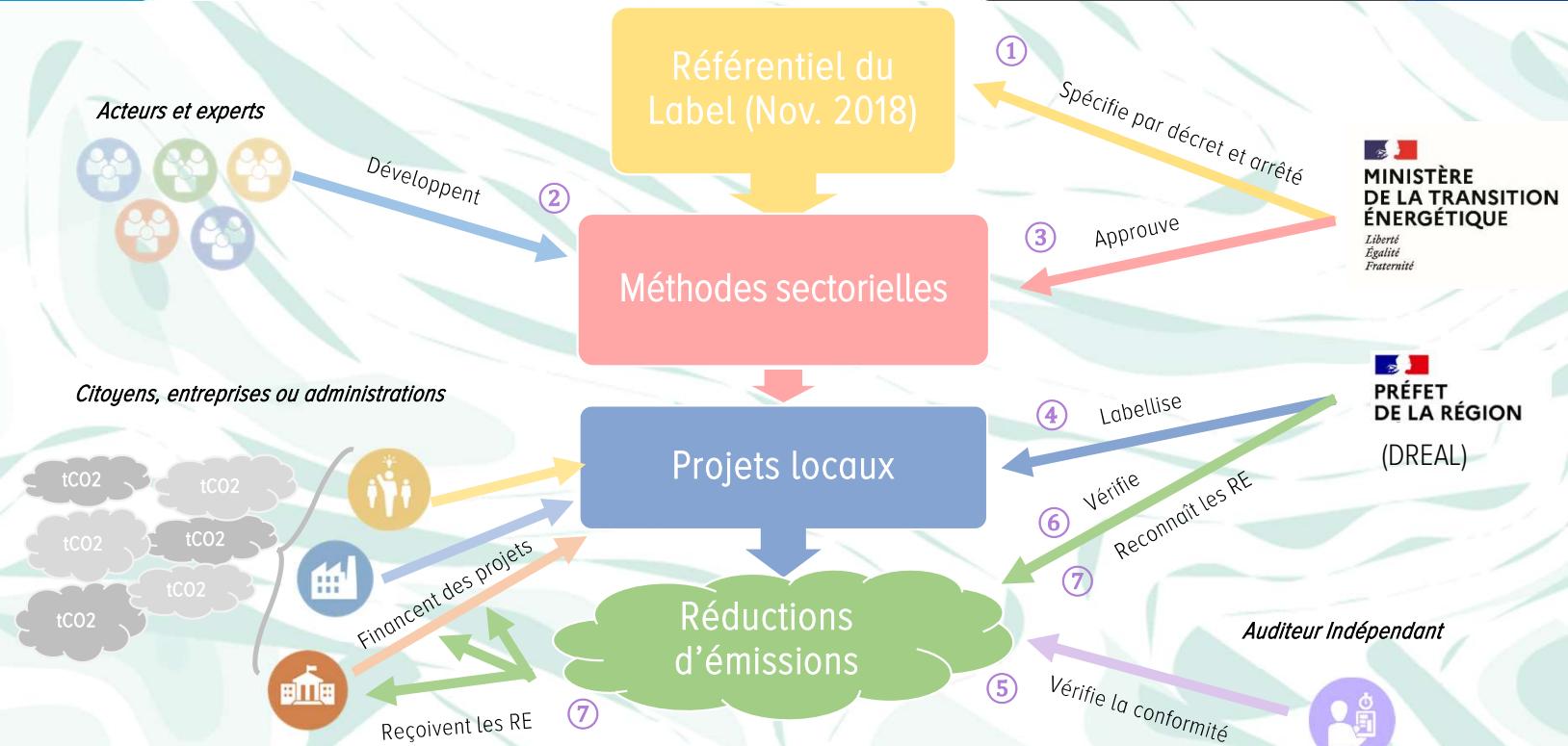
Label Bas Carbone : outil piloté par le Ministère de la Transition Energétique



S'inscrit dans le cadre de la SNBC
et de l'objectif de neutralité
carbone

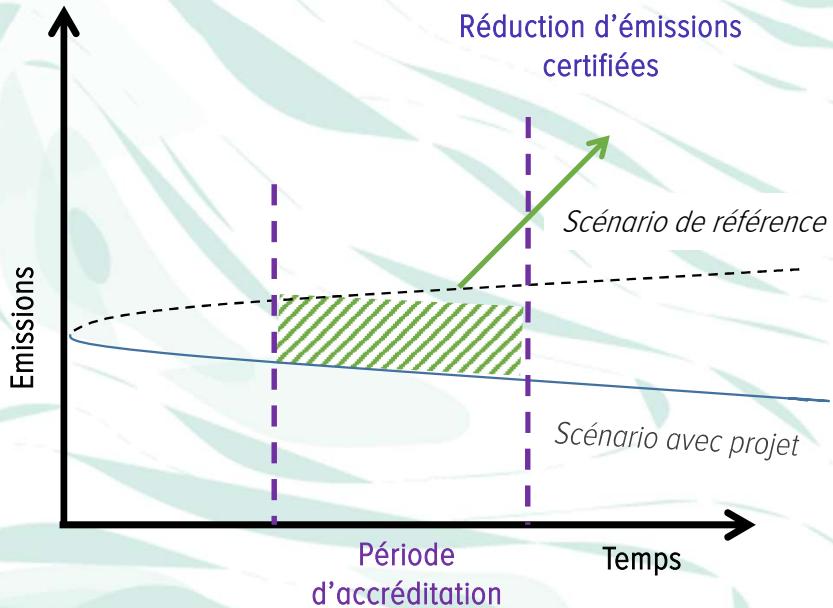
- Certifier la qualité et l'impact des projets
- Aider à flécher des financements vers ces projets
- Déclencher de nouvelles actions (additionnelles) pour réduire les émissions et séquestrer du carbone

Fonctionnement du Label



- ❖ Le financement de projets est ouvert à tout type de financeurs (public ou privé, local ou étranger) mais les projets doivent impérativement être mis en place en France.

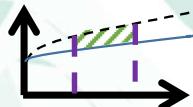
Qu'est-ce qu'un projet bas carbone ?



- Scénario de référence : sans introduction de nouvelles pratiques; suit la tendance; respecte a minima la réglementation.
- Scénario de projet : avec introduction de nouvelles pratiques (boisement, optimisation de la fertilisation azotée, plantation de haies, etc.)

- Besoin de certification pour apporter des garanties sur la qualité des projets et leur impact sur le climat

Les critères de qualité pour permettre le financement carbone



- l'additionalité : démontrer que le projet n'aurait pas pu se faire sans l'incitation carbone
- le suivi des émissions et de la séquestration
- la vérification par un tiers pour pouvoir prétendre à des réductions d'émissions
- la traçabilité des réductions d'émissions avec mise en place d'un registre permettant d'éviter le risque de double compte
- la permanence des réductions d'émissions ou la gestion du risque de non permanence
- L'évitement des impacts négatifs et la valorisation des impacts positifs du projet sur les autres enjeux (biodiversité, eau, sols, volet socio-économique...)

Les méthodes approuvées et en développement

13 méthodes approuvées :



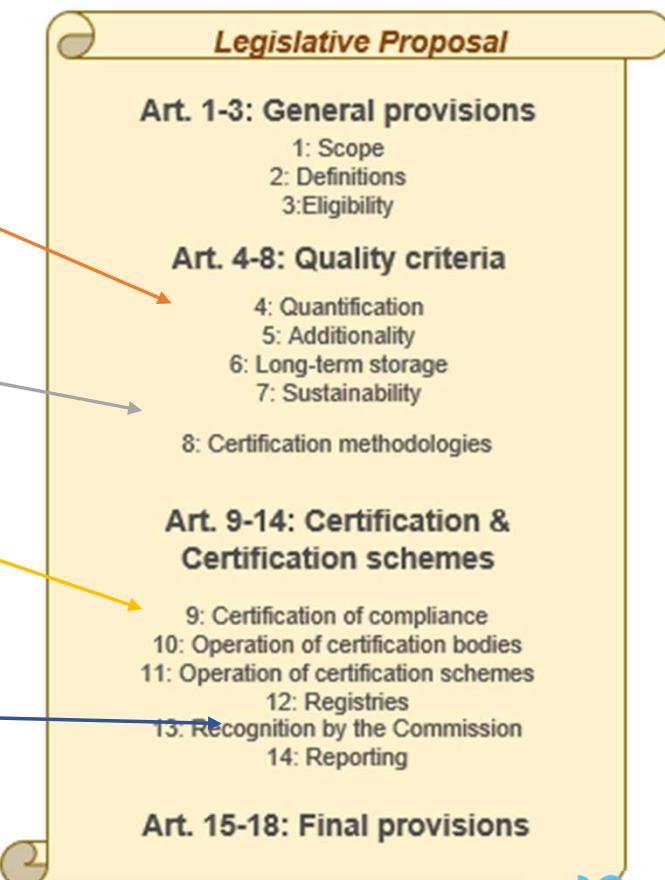
- 3 méthodes forestières : Boisement, reconstitution de peuplements forestiers dégradés et balivage (conversion de taillis en futaies sur souche).
- 6 méthodes agricoles : Carbon Agri (polyculture-élevage bovin), Haies (gestion durable dont plantation de haies), Plantation de vergers, Grandes Cultures, Gestion des intrants, Amélioration de l'alimentation des bovins
- 2 méthodes bâtiment : Rénovation des bâtiments et utilisation de matériaux biosourcés
- 1 méthode transport : Tiers-lieux (réductions des déplacements des télétravailleurs salariés en zone peu denses)
- 1 méthode marine : préservation des herbiers de posidonie

10 méthodes en développement :

IN PROGRESS

- 10 Méthodes en développement : Agriculture: élevage porcin, viticulture, agroforesterie, ... Forêt: sylviculture à couvert continu, enrichissement ...

Le cadre de certification carbone européen: des objectifs à la proposition légale



Les critères « QUALITY » du cadre de certification européen



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

- Principaux critères communs à la plupart des grands standards de certification issus des lignes directrices internationales comme la CNUCC ou ICROA etc.

Conclusion

- De nombreux standards carbone existants et en développement
- 4 méthodes carbone bleue parmi les principaux standards
- En France : le Label Bas-Carbone répond aux principales exigences de qualité et a développé une méthode de carbone bleue : la méthode Herbier de Posidonie.
- Au niveau européen: proposition pour un cadre de certification des absorptions carbone. Pas de méthodes de carbone bleue à CT.

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Part II

Question & Answers



The Coastal Carbon Atlas



Smithsonian
Environmental Research Center

United States

Steven Canty
Research Biologist,
Marine Conservation Lab



Jaxine Wolfe
Data Manager,
Coastal Carbon Network

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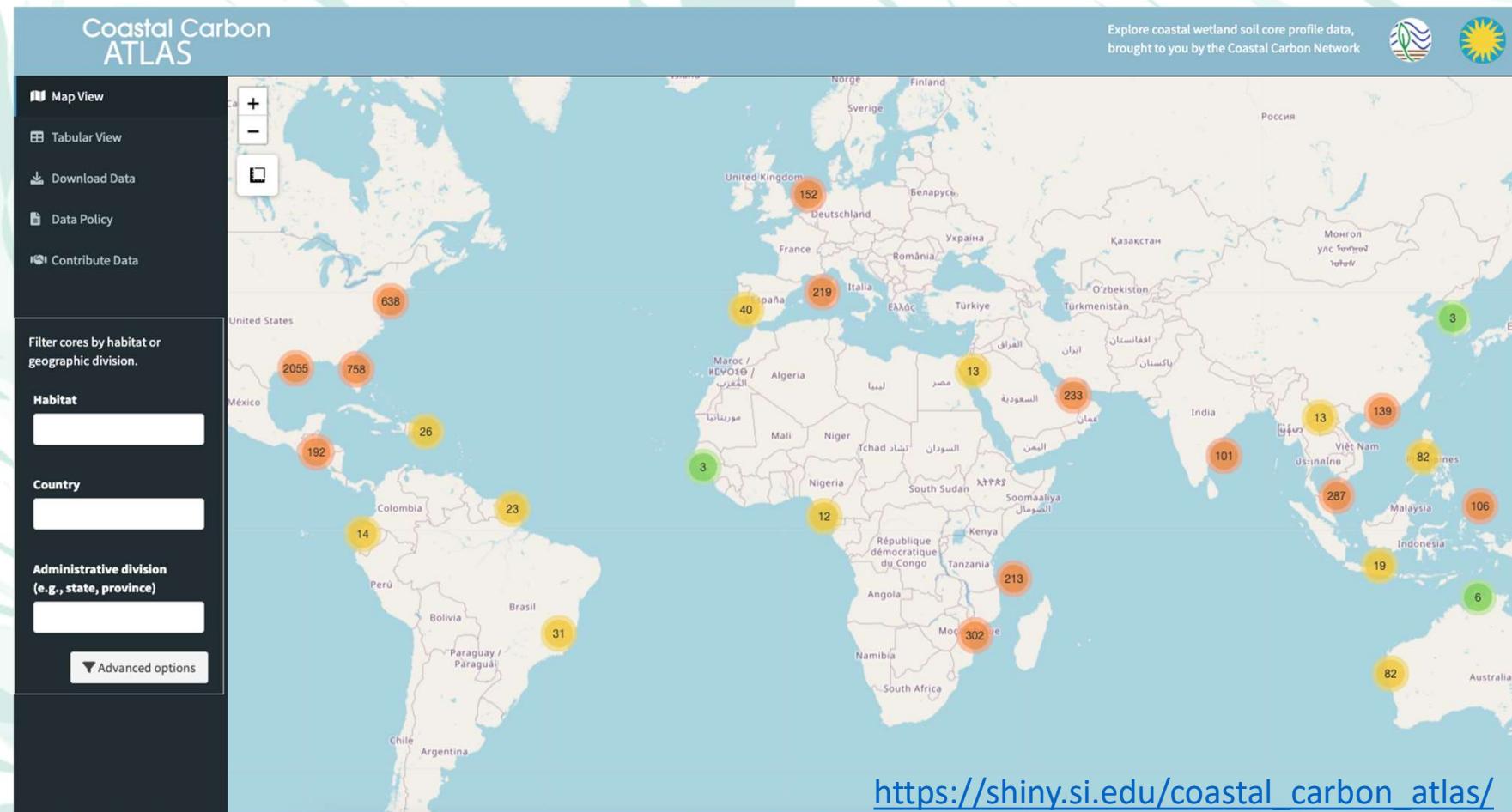


The Coastal Carbon Atlas

- High quality blue carbon principles and guidance
- What is needed to determine the feasibility of a blue carbon project? Estimates of:
 - Carbon stocks
 - Accretion rates
 - Permanency



The Coastal Carbon Atlas

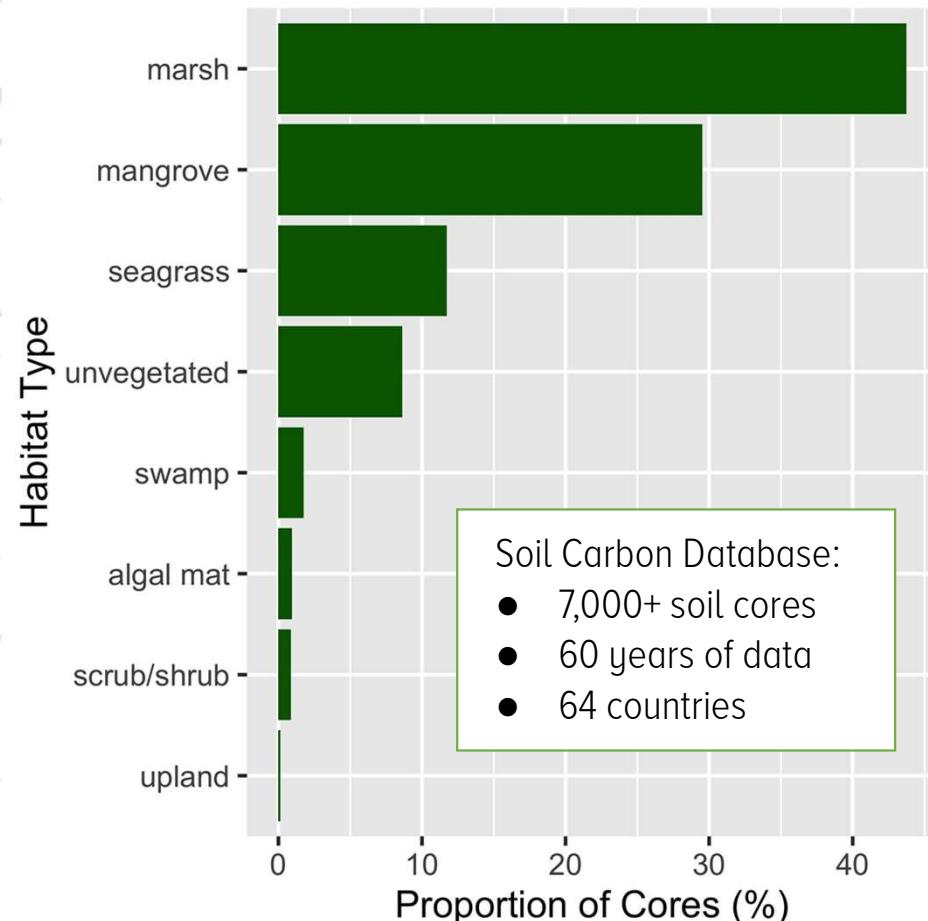


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The Coastal Carbon Network

- The CCN is a global convener of coastal carbon data
- Archiving original data promotes transparency and scalability
- Synthesis products are curated to meet end-user needs
- Hosting platforms and tools are developed to serve and communicate data



The Coastal Carbon

Coastal Carbon ATLAS

Explore coastal wetland soil core profile data,
brought to you by the Coastal Carbon Network



Map View

Tabular View

Download Data

Data Policy

Contribute Data

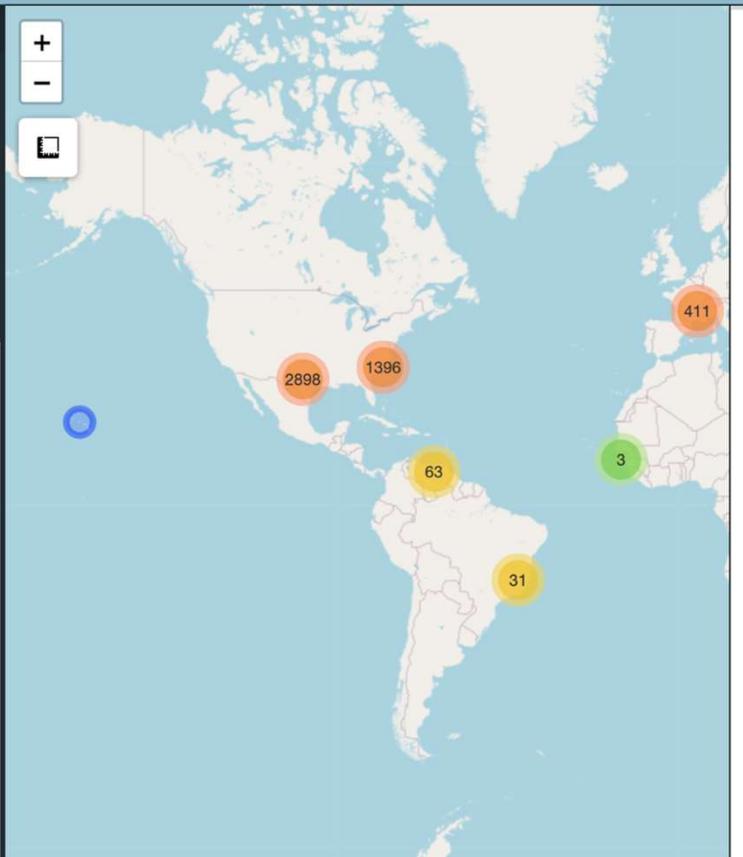
Filter cores by habitat or
geographic division.

Habitat

Country

Administrative division
(e.g., state, province)

Advanced options



Advanced Options

Set data type and quality tier

Carbon Stocks

- C2 - Carbon stock data complete, not confirmed to be a complete profile
- C1 - Carbon stock data complete, confirmed to be a complete profile

Age Depth Data

- B2 - Dating information present, but not complete
- B1 - Dating information present and complete

Elevation Data

- A3 - Elevation data present but of low quality, dating info present
- A2 - Elevation data is high quality, but dating info present but incomplete
- A1 - Elevation data is high quality, and dating info is complete

Specify measurement type

Select only cores with specific carbon stock and age depth measurements.

Carbon Stock Attributes

Age Depth Attributes

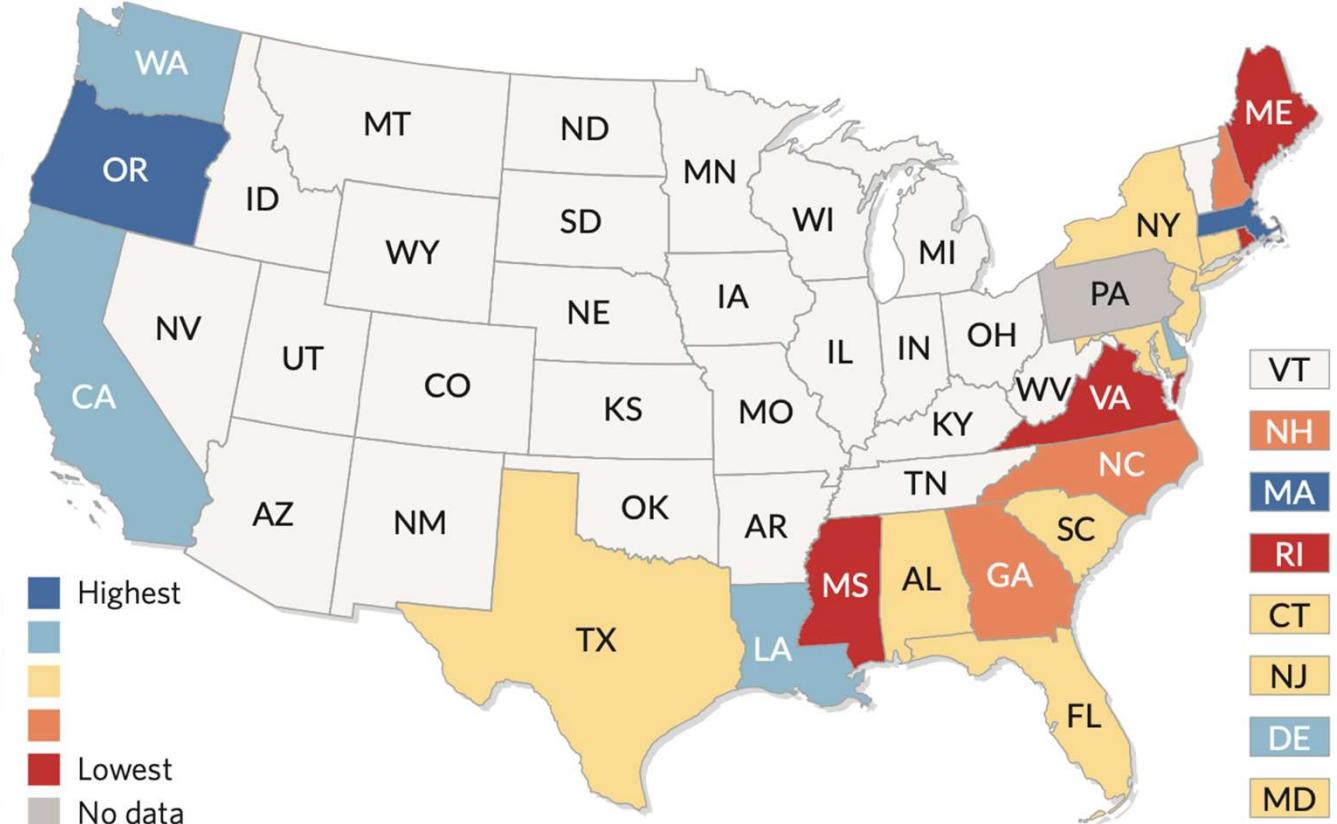
A platform for
blue carbon data
exploration,
query, and
download

Leveraging Data

Creating statistics and assessments
to identify the strengths and
deficiencies in available data

Data metrics: quantity, quality, spatial and habitat representativeness

Provide baseline insight and inform the feasibility of blue carbon projects and assessments

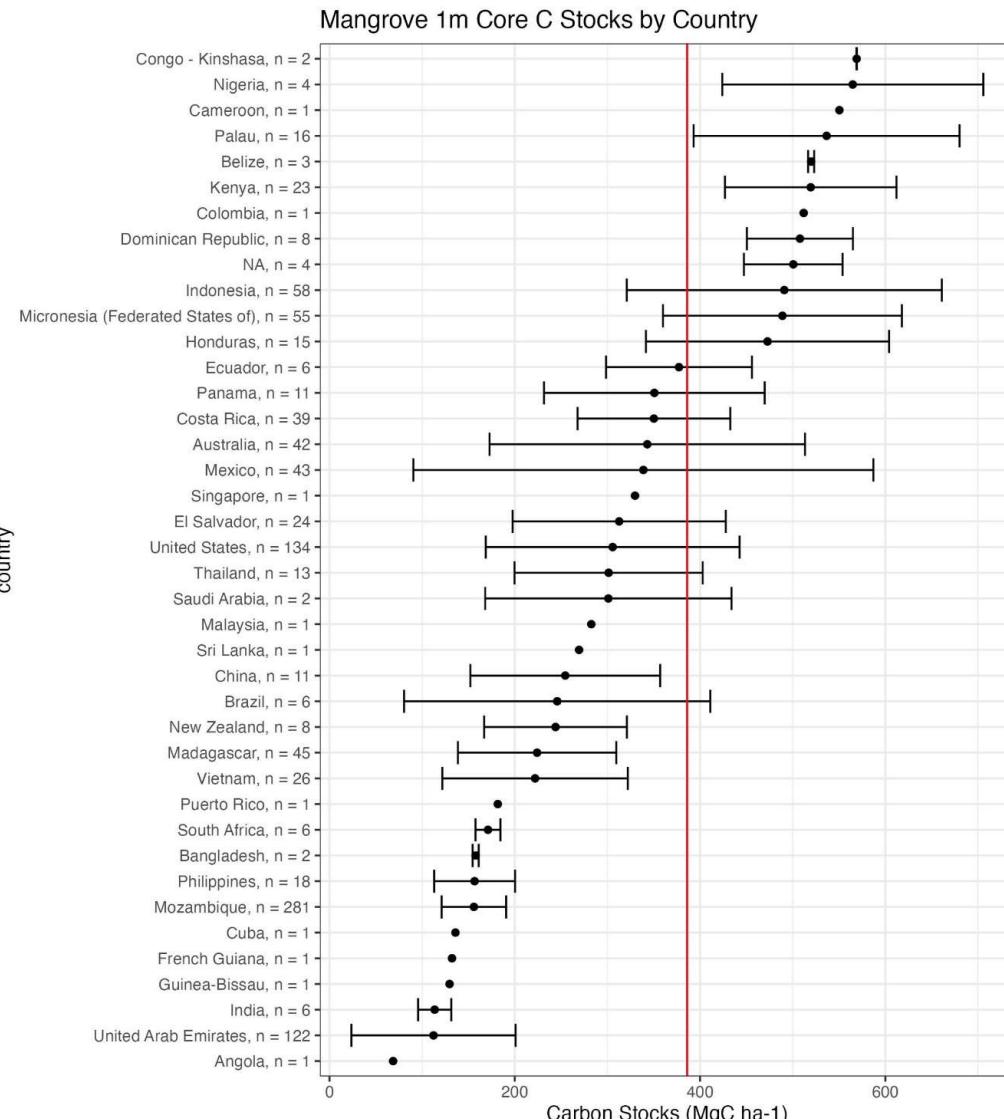


© 2022 The Pew Charitable Trusts
Adapted from the "CCRCN Blue Carbon Inventory" (Holmquist et al 2021)

Leveraging Data

Carbon stock estimates scaled from core to country-level

Stock estimates from country-specific data compared with global default values (IPCC Tier I, red line)



Conclusions

The CCN is an underutilized resource which can and should be leveraged for blue carbon projects.

Applications:

- Querying and inventorying available data
- Carbon stock assessments
- Accumulation rate estimates
- Modeling and forecasting (ex. will coastal wetlands keep up with SLR?)
- Accounting for uncertainty in estimates
- Natural Climate Solutions applications (ex. Identifying potential for restoring impounded wetlands)



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Part III

Question & Answers





**Marie-Christine
Cormier-Salem**
Director of Research
in social sciences at
the IRD



France

The carbon market: a mystification?

- A fictitious market: Who's selling? Who's buying? At what price?
- A lack of scientific, technical, ecological and political knowledge;
- Cumbersome and costly certification procedures;
- Certification bodies with their own standards;
- Little or no commitment from IPLCs;
- Divergent interests between public authorities, investors (private companies), operators (NGOs) and local users: short/long term; carbon/other values; profit/heritage; quantity/quality;
- The dazzling success of green finance, promising a bright future (CSR, decarbonization, low-carbon)... But to date, the results in terms of emissions reductions and offsets have been more than mixed (few credits/revenues generated).

Carbone Policy in Senegal

Actors and logic behind the "Plant your tree" program

Areas: Casamance (2006) and Saloum Delta (2008)

Donors: FFEM + Carbon Livelihoods Venture Fund

Operator: Senegalese NGO Océanium/ Ali Haidar

Certifying body: Esrnst & Young et associés

Participatory approach

Raising awareness among local communities

Prescription: harvesting of *Rhizophora* propagules, selected "green" sites and transplanting in rows

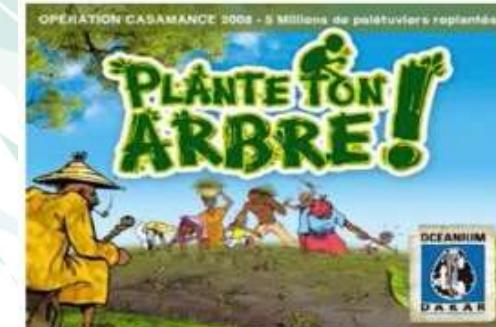
Socio-economic emulation (50-kilo bag of propagules paid 3€)

Main results

Between 2006 and 2013, 1,400 km² replanted (10% in Saloum, 90% in Casamance)

Strong involvement of stakeholders (300 villagers)

Remarkable international visibility



Conclusion

More and more critical scientific work

Biased methodologies

Deficient measurements

Unreliable scientific data to measure the capacity of mangroves to sequester carbon

Differences between reforested and replanted areas

Monospecificity of reforestation

Inappropriate site selection

Too high density for transplanting row

Lack of long-term monitoring and support

Dispossession and environmental violence

Unequal compensation for seedling harvesters

Spatial competition between reforestation and other uses

Enclosure and privatization of reforested areas

Conflicts of interest at all levels



Conclusion

Mystification of market-based regulation

- Instrumentalization of figures and measurements
- Fictitious or invisibles credits → low profitability
- Ineffective reforestation → not sustainable
- Exclusionary approaches → not fair



The limits of international instruments and agreements in the face of environmental urgency

- Tools (non-coercive) not equal to ambitions
- Better to reduce GHG emissions than to offset them
- Financing losses and damage: a political and ethical debate



Conflicting values, interests and standards of action in different contexts:

- From colonial imperialism to green and, more recently, blue imperialism
- Ongoing and renewed tensions between biodiversity governance models

Exploring alternatives to the commodification/privatization of mangroves

- projects to co-managing mangroves and qualifying mangrove-based products
- co-benefits likely to be generated



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Part IV

Question & Answers



SERIES



Round Table



SERIES



PREVIOUS | BLUE CARBON WORKSHOPS | market

Watch the **Replay from our first episode :**

Understand the Blue Carbon Market >> ICO Solutions website :

<https://ico-solutions.eu/fr/workshops/series-blue-carbon/>

Thank you for your attention! See you soon !

Contact us : icosolutions@conservatoire-du-littoral.fr

ICO Solutions Calendar : www.ico-solutions.eu



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