



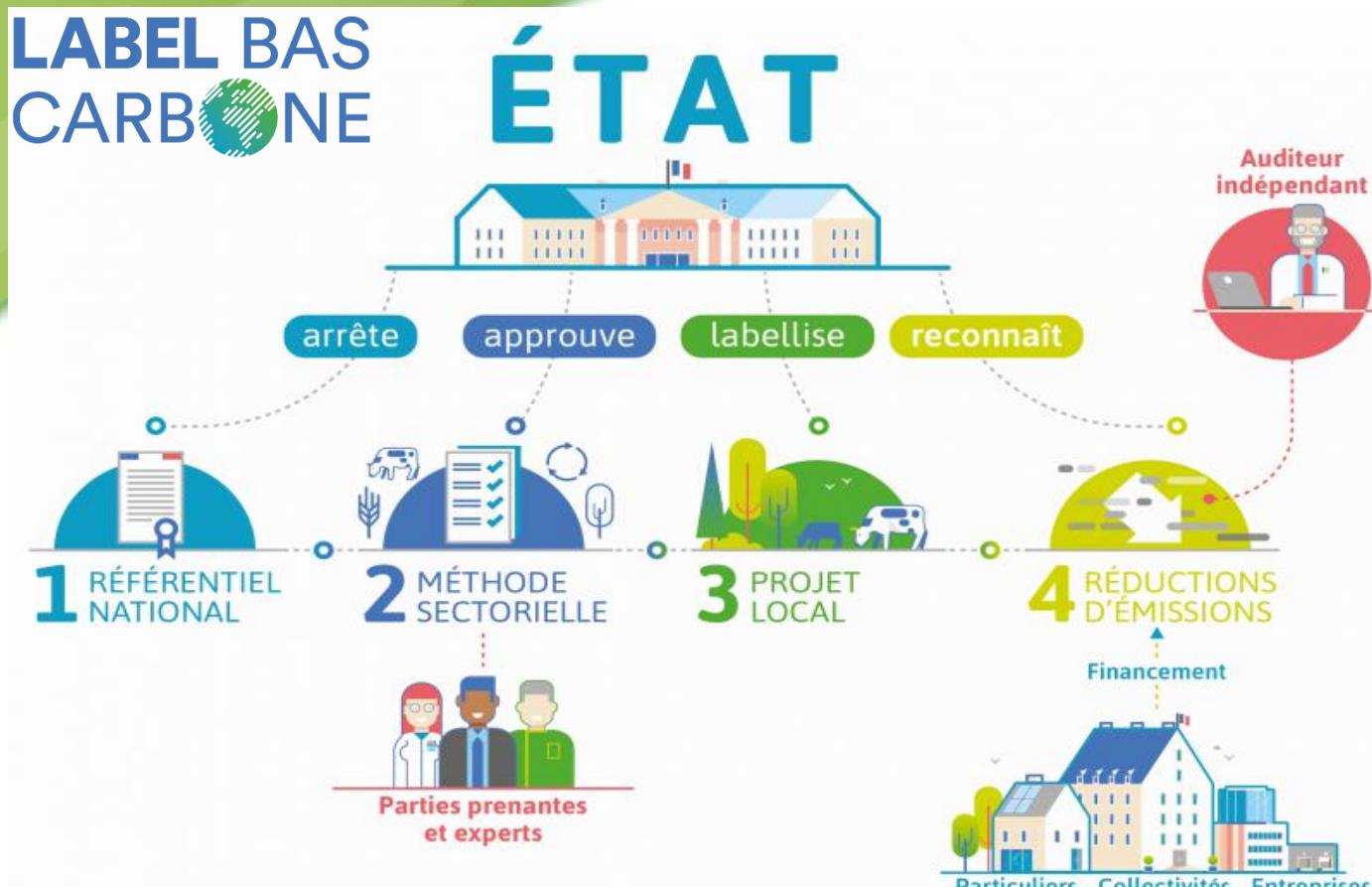
# **The label Bas-Carbone, the french standard for carbon offset projects certification**

31/03/2022

Centre national de la propriété forestière



# The label Bas-Carbone (*low-carbon standard*)



2019 création mickaelmerley.com

SG/DICOM/DGEC/19189 - Décembre 2019

→ Certify the CO<sub>2</sub> sequestration of forest projects. For all entities which are willing to offset their CO<sub>2</sub> emissions: private firms, administrations, public bodies, citizens...

# **Three methodologies redacted by the CNPF**

## **Methodology « afforestation »**

- Agricultural land (whatever the land: grassland, croplands, orchards, vineyards...)
- Abandoned overrun lands in the process of natural colonisation

## **Methodology « reforestation of destroyed or impacted forests »**

- Destroyed by storms
- Destroyed by forest fires
- Impacted by intensive diebacks

## **Methodology « conversion of coppice to high stands »**

# Criteria of the label Bas-Carbone

- **Additionality**: demonstrate that the project wouldn't have been achieved without the carbon encouragement
- **Monitoring of the CO<sub>2</sub> sequestration**
- **Verification (audit)** by an independent third party in order to generate carbon credits
- **Traceability** of carbon
- **Permanence** of emission sequestrations: how does the standard guarantee the permanence of the carbon stored? Eventual storms, fires, diebacks, other risks...
- **Social and environmental co-benefits**: take into account biodiversity, water preservation, soils protection, social aspects (local employment...)

# Methodologies characteristics

Item	Afforestation	Reforestation	Conversion of coppice to high stands
<b>Duration</b>	30 years	30 years	30 years
<b>Carbon credit</b>	<i>Ex ante</i>	<i>Ex ante</i>	<i>Ex ante</i>
<b>Credit generation</b>	Year 5	Year 5	Year 0
<b>Verification (audit)</b>	Documentary + field audit (density verification of living plants per hectare)	Documentary + field audit (density verification of living plants per hectare)	Documentary
<b>Carbon discount (= buffer)</b>	Lack of economical analysis: - 20 % General and unverifiable risks (storms, diebacks, health attacks): - 10 % Fire risk: 0%, - 5 %, - 10 % o - 15 % Non demonstration of fertility class: - 10 %		





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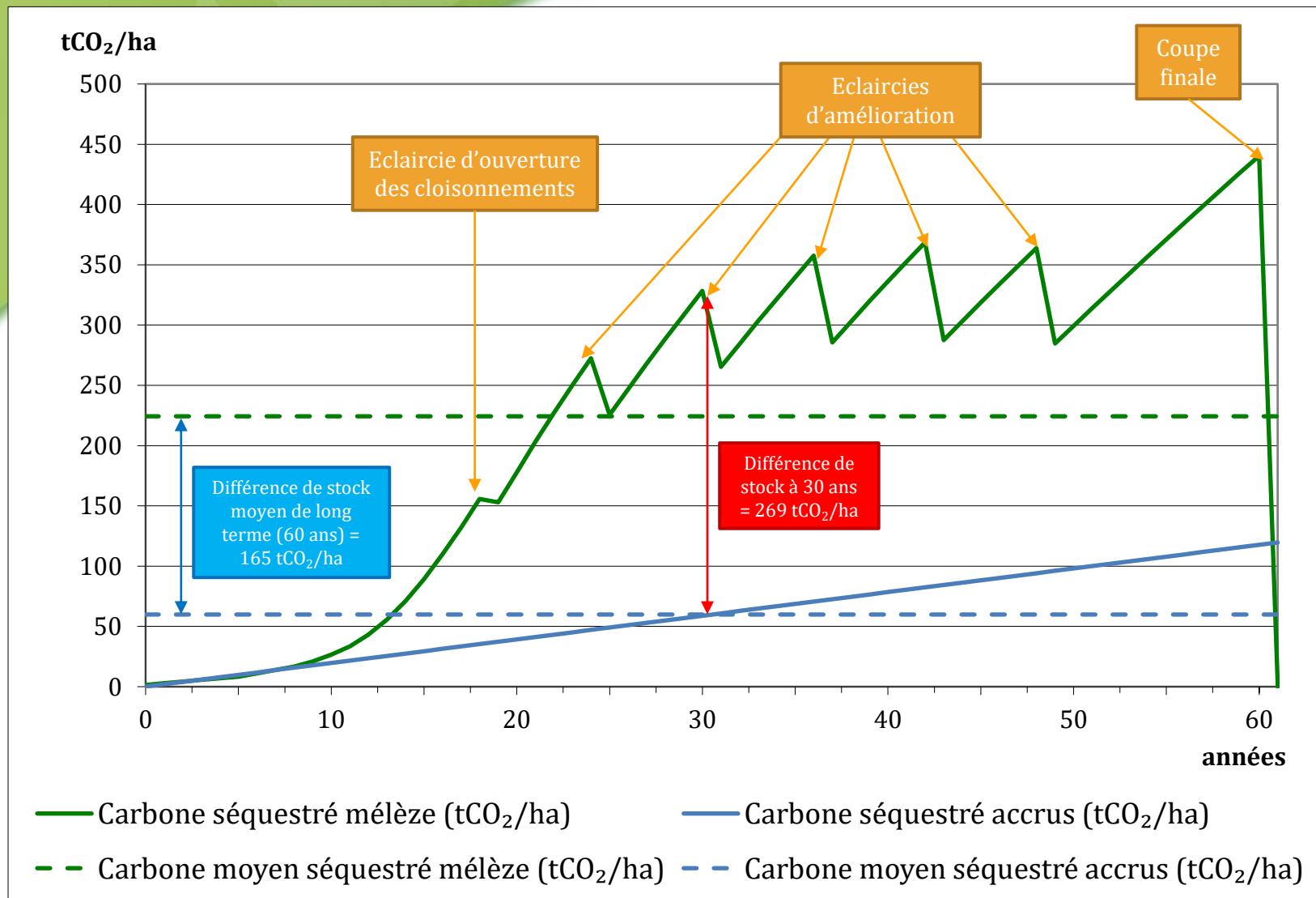
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**LABEL BAS  
CARBONE**

Afforestation of a grassland with poplar (Rhône)

CNPF  
8

# A rigorous quantification of additional carbon





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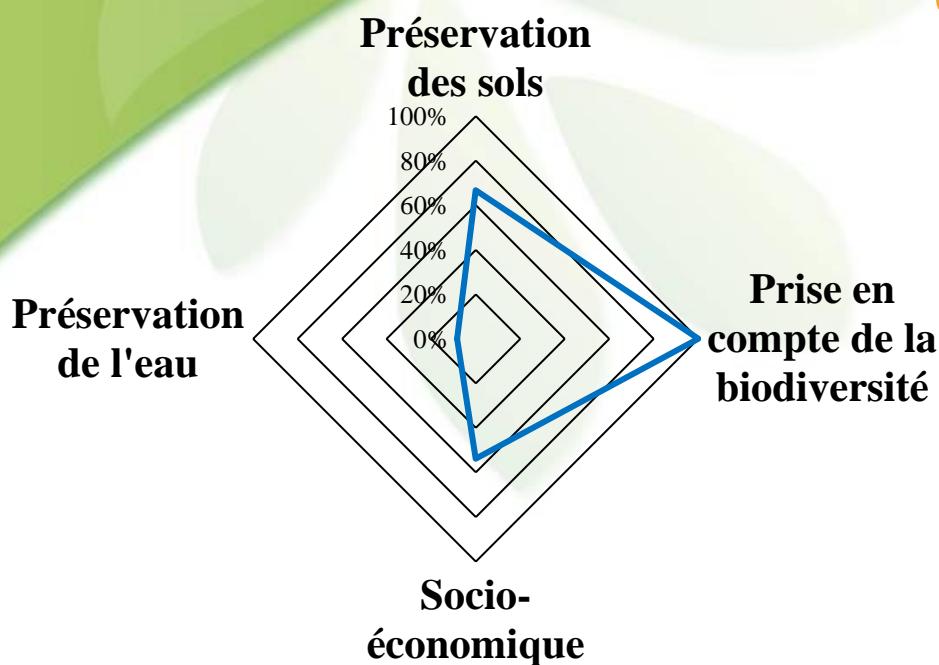


**LABEL BAS  
CARBONE**

Thinned chestnut coppice one year later (Haute-Vienne)

**CNPF**  
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# Estimation of the « co-benefits »



- Example of a certified project :
  - **Socio-economical (54 %)** : local employment, experimental project, PEFC certification
  - **Soils protection (67 %)** : soft soil preparation before plantation
  - **Biodiversity (100 %)** : mix of 10 species with 7 native species, preservation of edges with broadleaves
  - **Eau (8 %)** : reforestation with conifers set back from the edge of the river



# A fourth methodology... soon ! (1/2)



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Silviculture of Aleppo pines in Mediterranean forests (Hérault)



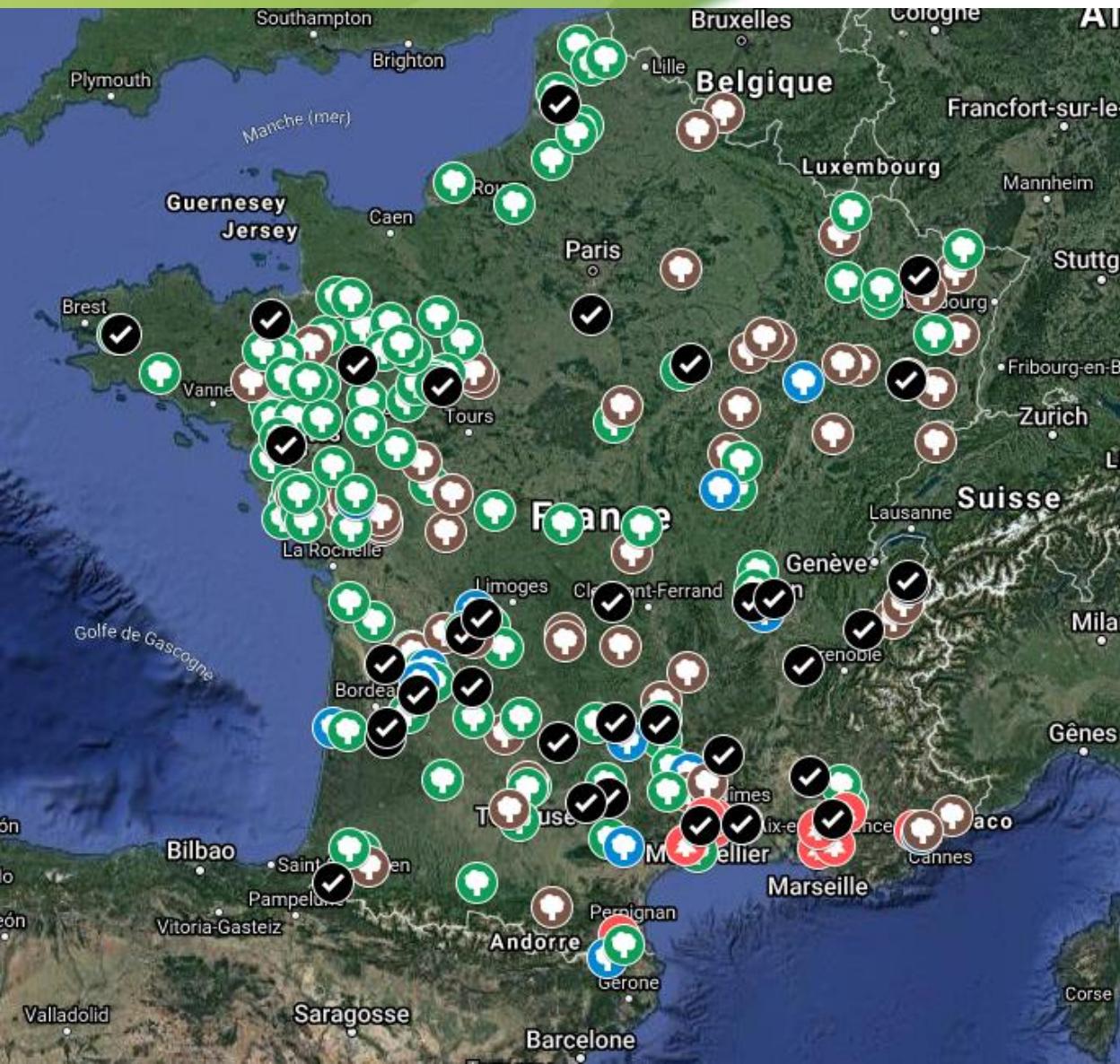
# A fourth methodology... soon ! (2/2)



Thinning of Aleppo pine forests in order to decrease the fire risk  
in the future (in 20 years)

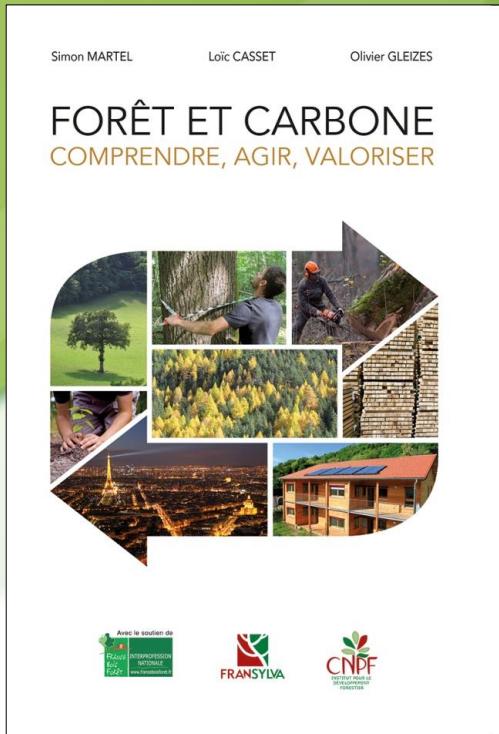


# CNPF's potential carbon offset projects



4 main types of carbon offset projects:

- **Green:** afforestation
- **Brown:** Reforestation of impacted forests (storms, fires, intensive diebacks)
- **Blue:** conversion of coppice to high stands
- **Red:** silviculture of Aleppo pine forests
- **Dark:** yet completed, certified and financed project



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