



Forest Climate Credits System of Catalonia

Forestry projects for mitigation and adaptation to climate change (PROMACC)

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57. - CAMPRODON (alt. 950 m.). - Hermita de N^{ra}. S^{ra} del Remei
L. Roisin, fot. Barcelona

FOREST TRANSITION IN CATALONIA 1940-1970



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and **CLIMATE CHANGE**...over the last 25 years:

- the rate of CO₂ sequestration has decreased by 17%
- water flows in rivers has decreased by 30 %
- biodiversity linked to open areas has been affected by forest expansion



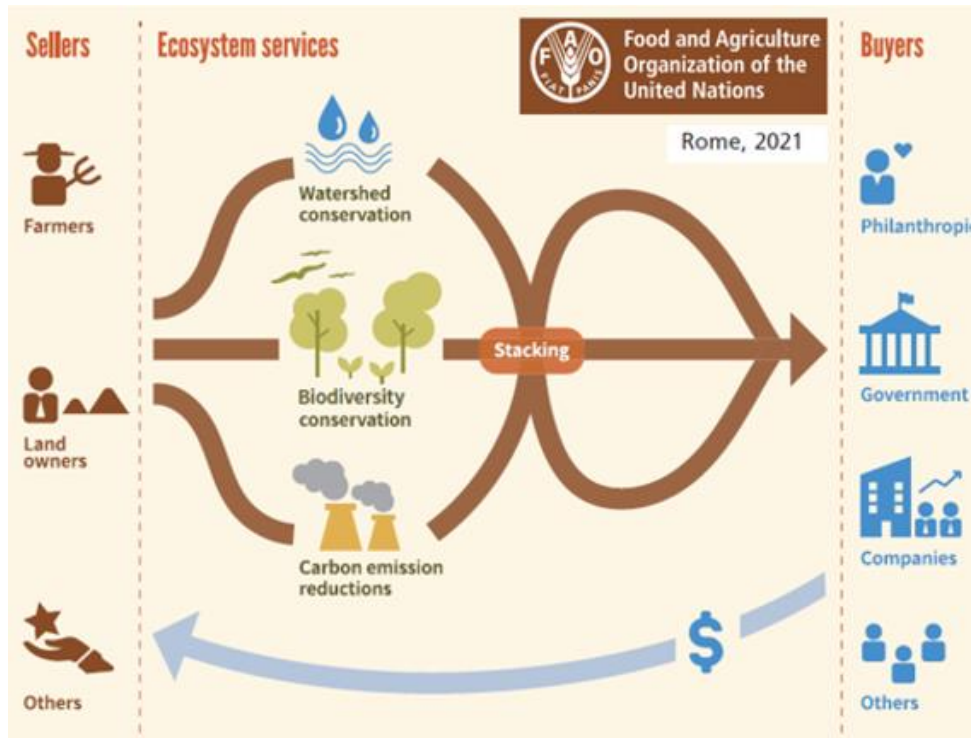


Multifunctional forest management, beyond carbon

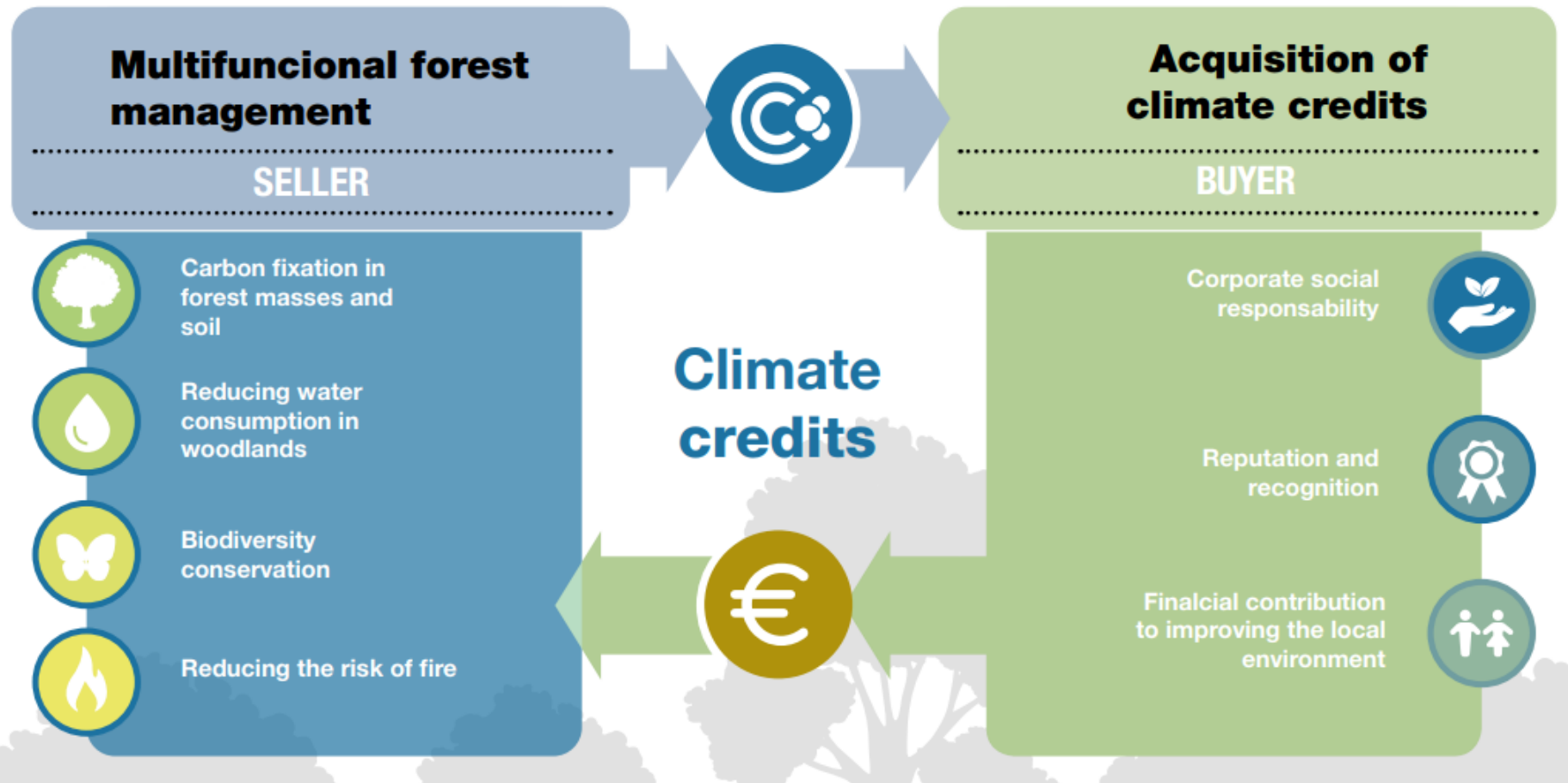
“ We defend the role of forest management in achieving landscapes that are more resilient to climate change. ”



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Forest Climate Credits System of Catalonia



CARBON

Forestry fixation in forest stands and soil

WATER

Reducing water consumption in woodlands

BIODIVERSITY

Biodiversity conservation



Strategic vision

Joint forestry management

Identification of the main Forest Ecosystem Services (ES) to be provided



Resilient landscapes

Forestry operational project

PROMACC

(Forestry projects for mitigation and adaptation to climate change)



FCC System of Catalonia: principles

Climate Smart Forestry (CSF) “should enable both forests and society to transform, adapt to and mitigate climate induced changes”

Nabuurs G-J *et al* (2018)
Kauppi P *et al* (2018)
Verkerk PJ *et al* (2020)
Bowditch *et al* (2020)

Integrative forest Management (IFM), valuing at the same level the co-benefits of SFM and integrate biodiversity conservation criteria

Mitigation

from the forests to the whole value chain (**bioeconomy**)



Adaptation

Linked to **biodiversity** (composition, genetic, functional,...) and to **CC-induced disturbances**

Social dimension of forestry

Involvement of stakeholders from local communities to global forest **Governance**

Provision of **Ecosystem Services** at various scales and for changing demands

1 Climate Credit = 1 ha Resilient Landscape





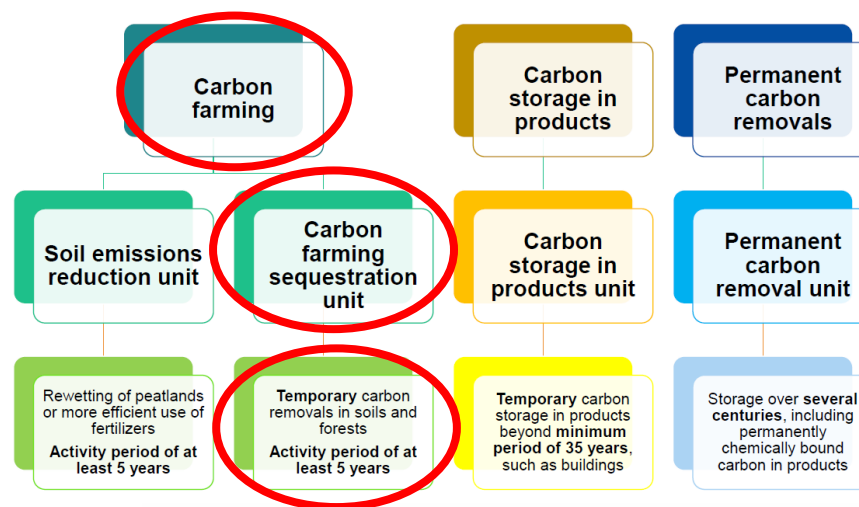
FCC System of Catalonia: QU.A.L.ITY criteria



Regional regulation
Government Agreement 2023



Scope of certification
Article 1 and 2 CRCF Regulation



CRITERIA FOR A ROBUST EU CERTIFICATION SYSTEM

The EU certification framework can **only be used to certify carbon removals that meet the following QU.A.L.ITY criteria:**





FCC System of Catalonia: QU.A.L.I.TY criteria

Quantification

- Calculation of net benefit
- Monitoring
- Baseline

Additionality

- Additionality tests in case of activity-specific baseline

Liability

- Monitoring rules
- Liability mechanisms

Sustainability

- Minimum sustainability requirements
- Monitoring and reporting of co-benefits



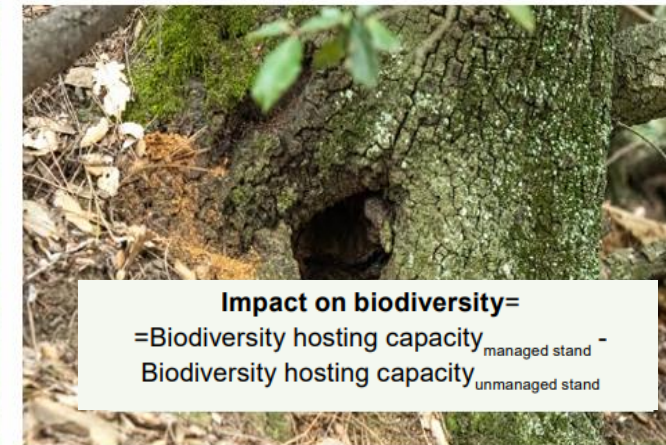


QU.A.L.I.TY criteria: Quantification & Sustainability

METHODOLOGY FOR CALCULATING THE IMPACT OF FOREST MANAGEMENT ON ECOSYSTEM SERVICES: CARBON, WATER AND BIODIVERSITY



generate co-benefits



Quantification & Liability & Addicionality & Sustainability

SFM

We calculate the impact for the **15 years immediately** after treatment

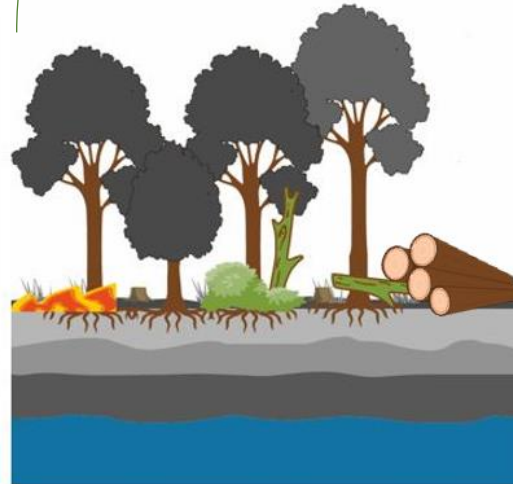
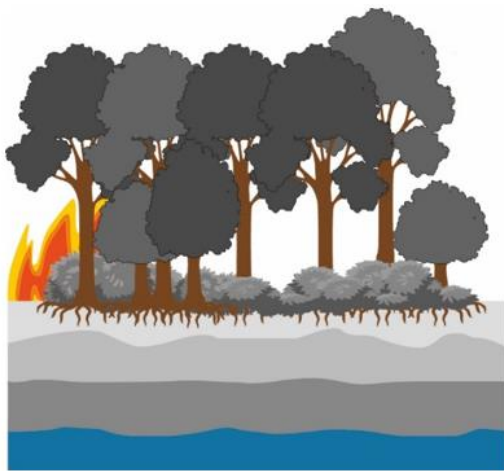
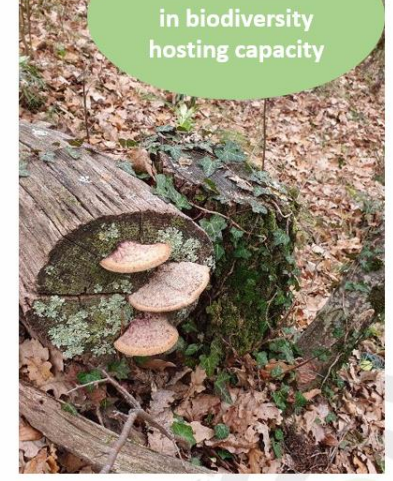
tCO₂ sequestered
& tCO₂ avoided



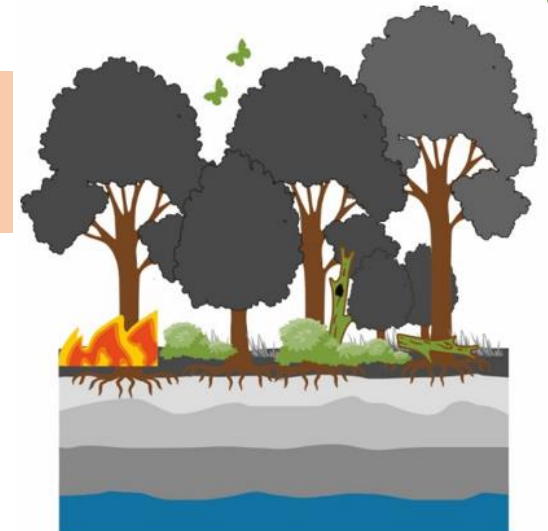
m³ of water
exported



% increment
in biodiversity
hosting capacity



Monitoring
period



5 yrs

10 yrs

15 yrs



QU.A.L.ITY criteria: Additionality



DOSSIER DE
PREMSA

ADF
INICIATIVE
ECONOMICA



PROMACC – Local forestry projects and impact on FES



Serra de Collserola.



AFG Les Arenes.



Conca Segre-Rialb.



Serres de Miralles-Ancosa.

PROMACC CODE	NAME	PROMOTERS	CC n	IMPACT OF 1 CLIMATE CREDIT		
				t CO2	m3 water	%Bio
01_2022	Serra de Collserola	Forest4 SCCL; BOSCAT	40	36	2098	29
02_2022	AFG Les Arenes	AP de Castellar del Vallès, Gallifa i Sant Llorenç Savall	45	22	2035	44
03_2022	Vall de Lord	Associació Forestal de la Vall de Lord	107	34	2555	16
04_2022	Conca Segre-Rialb	Associació de la propietat forestal Segre-Rialb	80	26	1192	18
05_2022	Serres Miralles-Ancosa	AP forestals Serra Miralles-Orpinell	34	16	789	57
06_2022	Vall de la Muga	Fundació Pioneers of Our Time	58	88	2857	26
08_2022	Zona volcànica de la Garrotxa	Parc Natural de la Zona Volcànica de la Garrotxa	42	93	1384	6
01_2023	Gavarres	AP Boscos de Celrà i AG Forestal de les Gavarres	35	10	2448	6





PROMACC – Local forestry projects – Price of Climate Credit



PROMACC CODE	NAME	PRICE OF 1 CLIMATE CREDIT			
		€	€/tCo2	€/m3H2O	€/ %Bio
01_2022	Serra de Collserola	3337	95,6	1,6	118,8
02_2022	AFG Les Arenes	2792	45,4	1,4	63,5
03_2022	Vall de Lord	4103	99,9	1,3	210,2
04_2022	Conca Segre-Rialb	3206	123,3	2,7	181,8
05_2022	Serres Miralles-Ancosa	3487	217,4	4,4	61,2
06_2022	Vall de la Muga	4429	50,5	1,6	170,4





PROMACC – Local forestry projects – Credits sold



Codi	Nom	Cclim generats	Pressupost €	CClim comprats	Finançament €
01_2022	Serra de Collserola	40	133475,49	32	106689,72
02_2022	AFG Les Arenes	45	126846,35	45	126846,35
05_2022	Serres Miralles-Ancosa	34	119264,96	6	20000,00
06_2022	Vall de la Muga	58	256003,23	7	31003,85
Total	2021-2023	177	635590,03	90	284539,92





Voluntary compensation, CSR initiatives, ODS

The PROMACCs are prepared to enter **the environmental financing circuits**, facilitating companies and institutions to **invest in forest & nature-based solutions**, within the framework of **CO₂ voluntary compensation, ESG reporting & other corporate social responsibility initiatives**.

The System offers:

- **ISSUANCE OF A CERTIFICATE**
- **GENERAL AND SPECIFIC COMMUNICATION**
- **IDENTIFICATION IN THE OFFICIAL REGISTER**
- **CLOSE LINK WITH THE TERRITORY**



<http://creditsclimaticsforestals.cat>



**Climate
Credits**

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