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SCIENCE-BASED INTEGRATED  
FOREST MANAGEMENT  
FOR CLIMATE MITIGATION

**INFORMA**

**SCIENCE-BASED INTEGRATED FOREST MITIGATION MANAGEMENT MADE  
OPERATIONAL FOR EUROPE**

HORIZON-CL6-2021-CLIMATE-01-09



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Programme



# EU forests' challenges and needs

- Regional practice-based **insights** are **not well documented**
- Need to consider **biogeochemical** and **forest-climate interactions** and provide **long-term economic incentives** to low carbon economy transition
- Few SFM practices are eligible to be funded under **carbon schemes**
- **MRV methodologies** and **monitoring networks** needed



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# EU forests' challenges and needs

- EU's **carbon sink** capacity is not sufficient to **offset emissions**
- Three challenges: **maintaining** carbon sinks, **increasing** sequestration capacity and **enhancing** the production of substitutive materials and energy
- **Mitigation** and **adaptation** management practices are urgently needed



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# Project objectives

## General objective

INFORMA aims to **enhance** and **share** the latest **science-based knowledge** on multi-purpose **Sustainable Forest Management (SFM)** under **climate change**



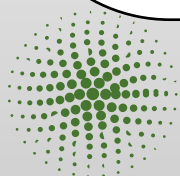
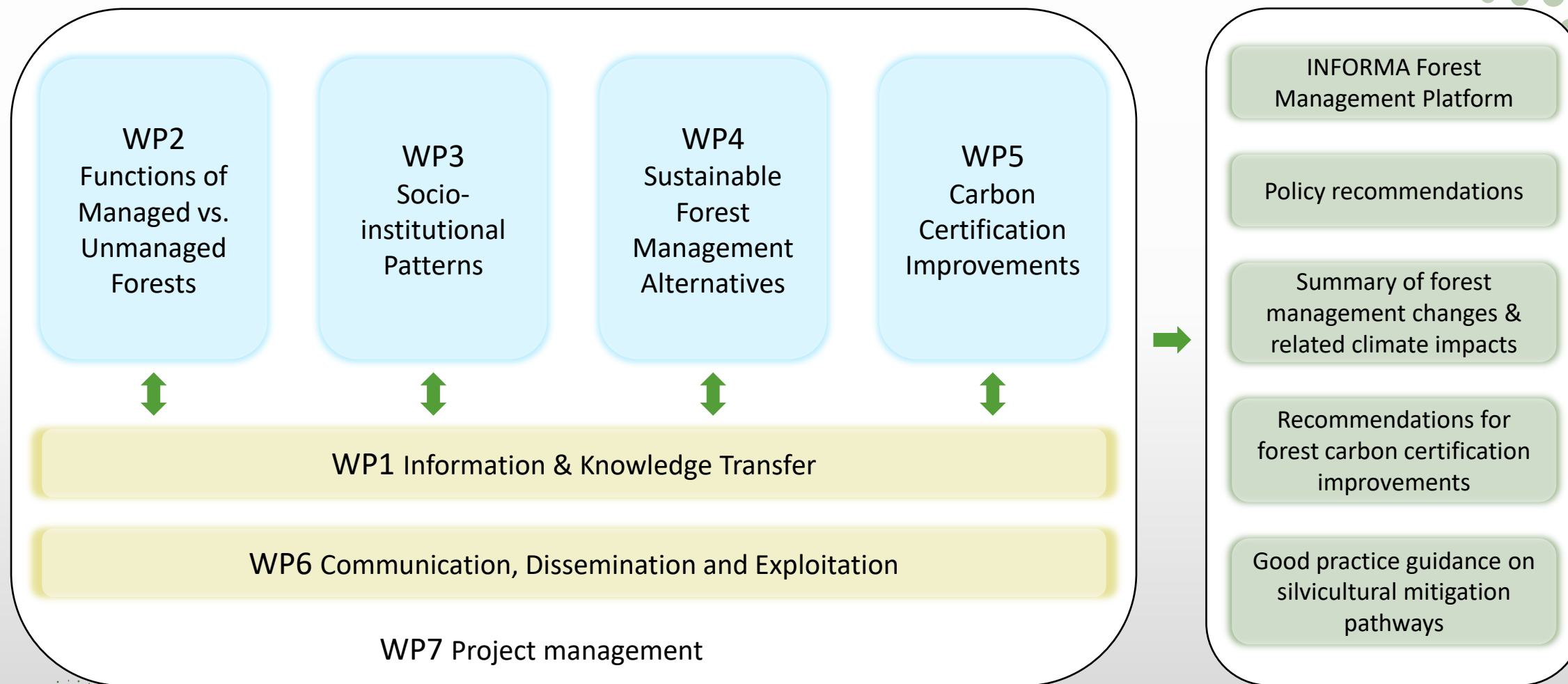
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# Work packages

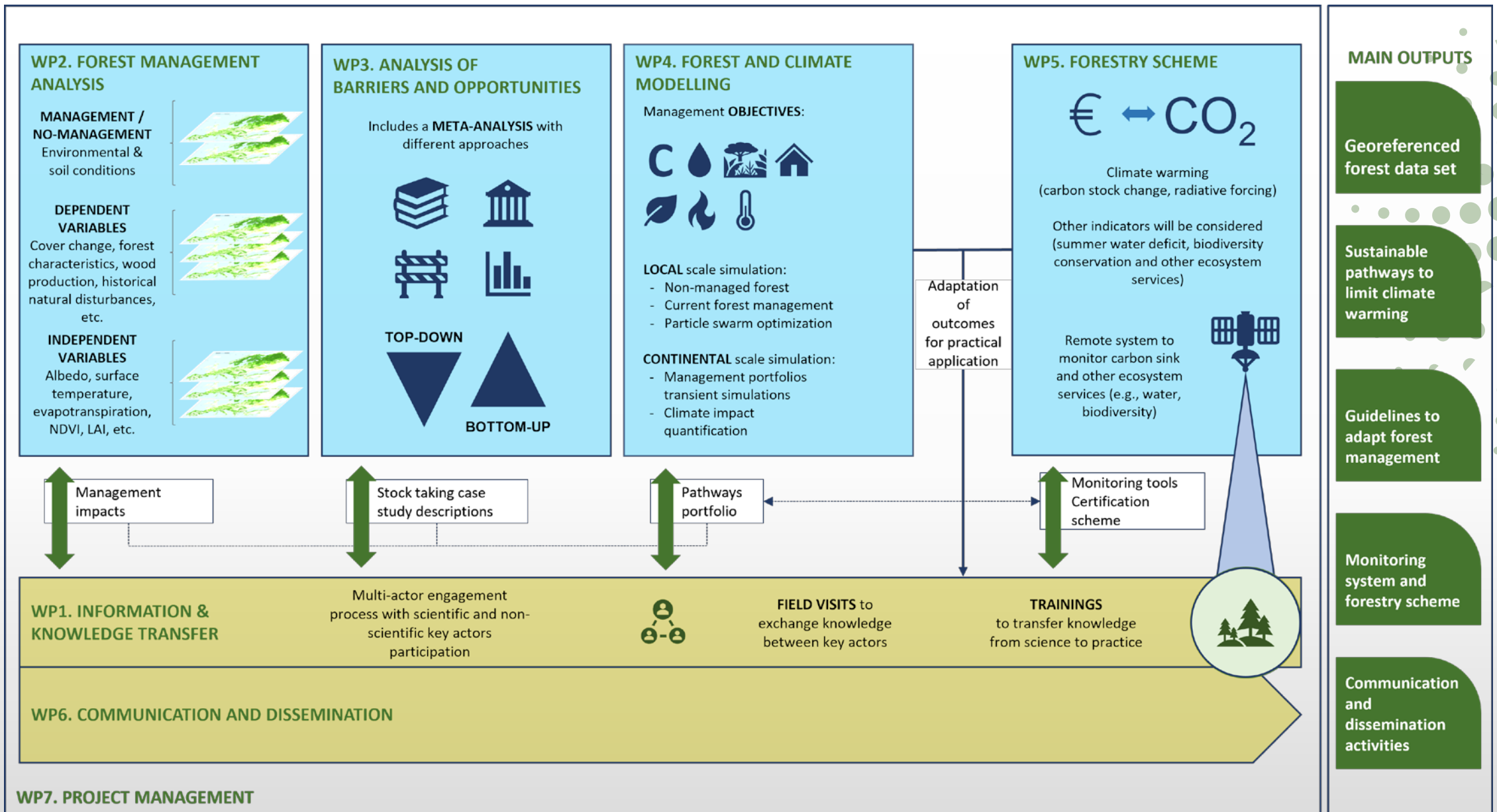


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# Case studies

INFORMA's case studies represent the five major biogeographical regions in Europe, corresponding to 96% of the EU territory and 94% of its forests



Northern Limestone Alps  
Austria, Alpine



Woods of Brabant  
Belgium, Atlantic



North Karelia  
Finland, Boreal



Râșca Forest District  
Romania, Continental



Segre-Rialb Basin  
Spain, Mediterranean



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# SDGs supported by INFORMA



**Subgoal 13.2** 'Integrate climate change measures into national policies, strategies and planning'

- INFORMA short-term impact: 5 EU countries establish an integrated policy/strategy/plan to increase forest climate mitigation and adaptation
- INFORMA long-term impact: 10 EU countries



**Subgoal 15.a** 'Mobilize and significantly increase financial resources from all sources to conserve and sustainably use biodiversity and ecosystems'

- INFORMA long-term impact: Supported carbon schemes will enable expenditure on conservation and sustainable use of biodiversity and ecosystems in 100,000 ha



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# Outcomes and impacts

Quantitative significance  
of the project

Persons **informed** and **trained** in forest  
management practices

150 persons

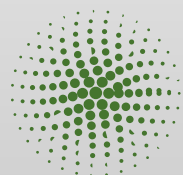
**Outcome**

**Improved knowledge on  
sustainable pathways** for forestry  
and the forest- based sector

+ 2 training sites  
+ 30-50 persons

**Impact**

Advanced understanding to  
support **adaptation** and **resilience**



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# Training the Trainers in Spain

## Training locations so far

- The Quercus pubescens site in the Girona province with FORADVISE
- The Pinus halepensis site in the Tarragona province 👉 **See blog post**

## Next up:

- The Pinus nigra site in the Lleida province with HOLISOILS in October 2025

Bringing science closer to forest professionals for better carbon capture and fire prevention

2025-05-27



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Link: <http://bit.ly/4jrzUBJ>



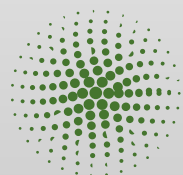
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# Tapping forest potential in carbon schemes

- **Carbon projects largely overlook the role of forestry**, presenting specific challenges and barriers and risks of over- and under-crediting
- **150+ participants** at the European Carbon Summit 2025 were addressed
- One and the only 'forest-focused' session
- 👉 **Blog post and a video recording**

## Exploring Forestry's Role in Carbon Credits at the European Carbon Farming Summit 2025

2025-03-14



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Link: <https://bit.ly/41Wa17M>



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# Outcomes and impacts

Quantitative significance  
of the project

The application of **5 SFM plans** based  
on the guidelines avoid the emission of

30 t CO<sub>2</sub> eq.

Outcome

Better understanding of how forest  
**management impacts carbon  
sequestration** in comparison to  
non-managed forests



60 t CO<sub>2</sub> eq.

Impact

Better understanding and  
enhancement of **mitigation  
potential** based on sustainable  
management of **natural resources**



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# INFORMA Forest Management Platform

- A **new, large database** specifically designed to answer management-related questions for European forests
- To help guide **policy-making, forest managers and scientists**
- A scientific publication – **forthcoming in 2025**
- For more information, keep eye on the **INFORMA website**

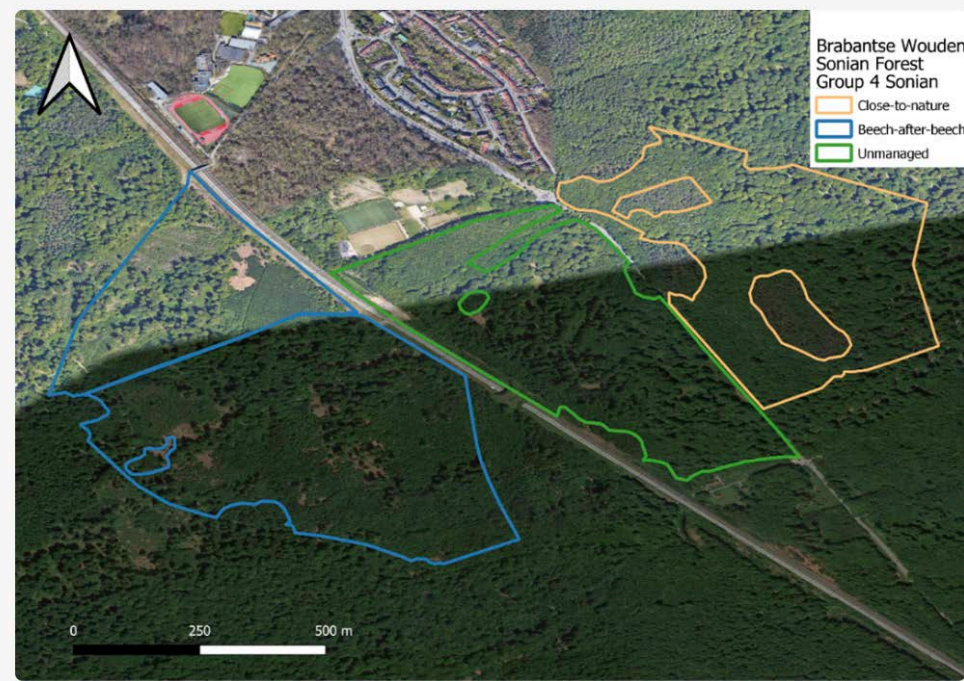


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Managing your forest or not? Find out with the INFORMA Forest Management Platform

2023-03-15



Link: <https://bit.ly/43LJGJk>



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# Outcomes and impacts

Quantitative significance  
of the project

Generation of publications based in  
new data available for its analysis

10-15  
publications

50 publications

Outcome

Impact

- Pathways to achieve the **Paris Agreement**
- Forest managers **adapting to SFM** practices
- Increased forest-based **carbon removals** through forest management practices



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# 8 published scientific publications

- + Forest fire size amplifies postfire land surface warming
- + Overcoming drought: life traits driving tree strategies to confront drought stress
- + Simulating bark beetle outbreak dynamics and their influence on carbon balance estimates with ORCHIDEE r7791
- + The role of cultural ecosystem services in sustainable management – a case study in forests managed by private forest districts in Romania (language: Romanian)
- + The challenges of ecological restoration in a changing biosphere (language: Catalan)
- + Patterns of forest species association in a broadleaf forest in Romania
- + Improving Sustainable Forest Management of *Pinus halepensis* Mill. mid-aged stands in a context of rural abandonment, climate change and wildfires
- + Tropical cyclones facilitate recovery of forest leaf area from dry spells in East Asia



Link: <https://bit.ly/3HjOqyg>



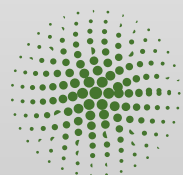
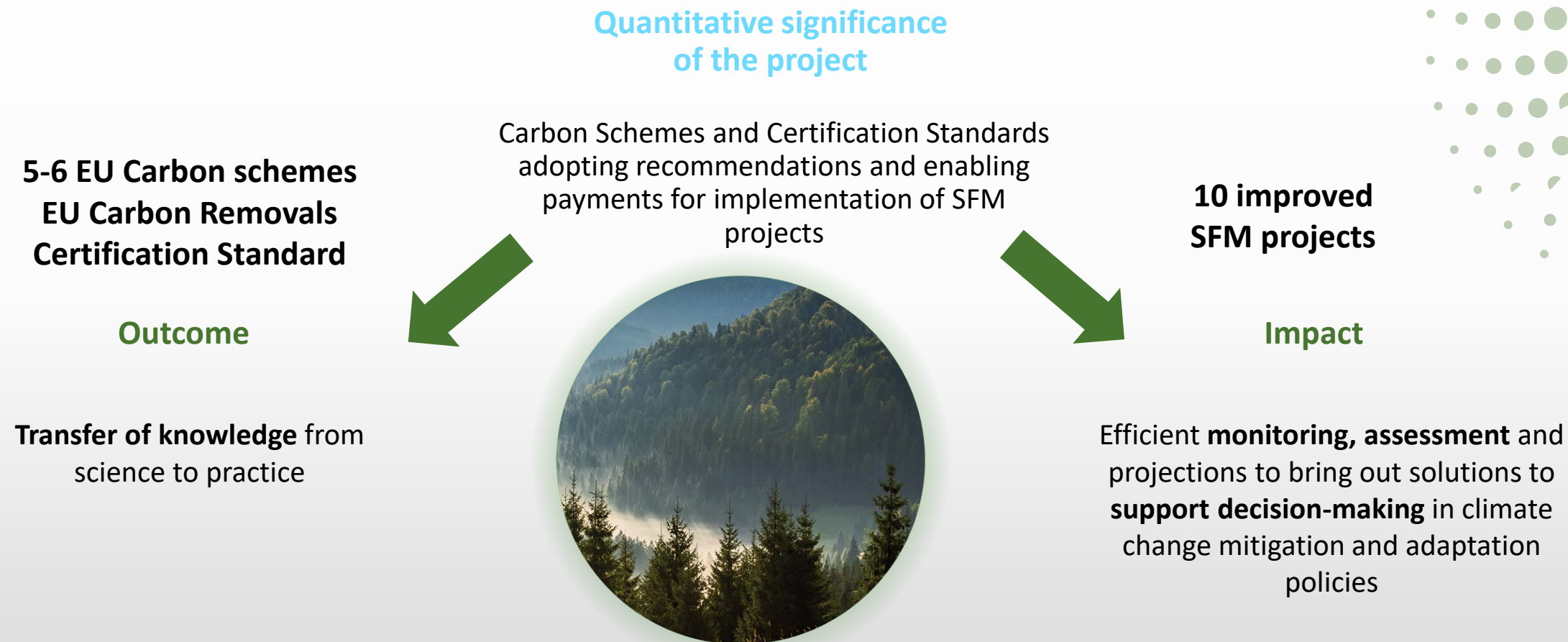
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# Outcomes and impacts



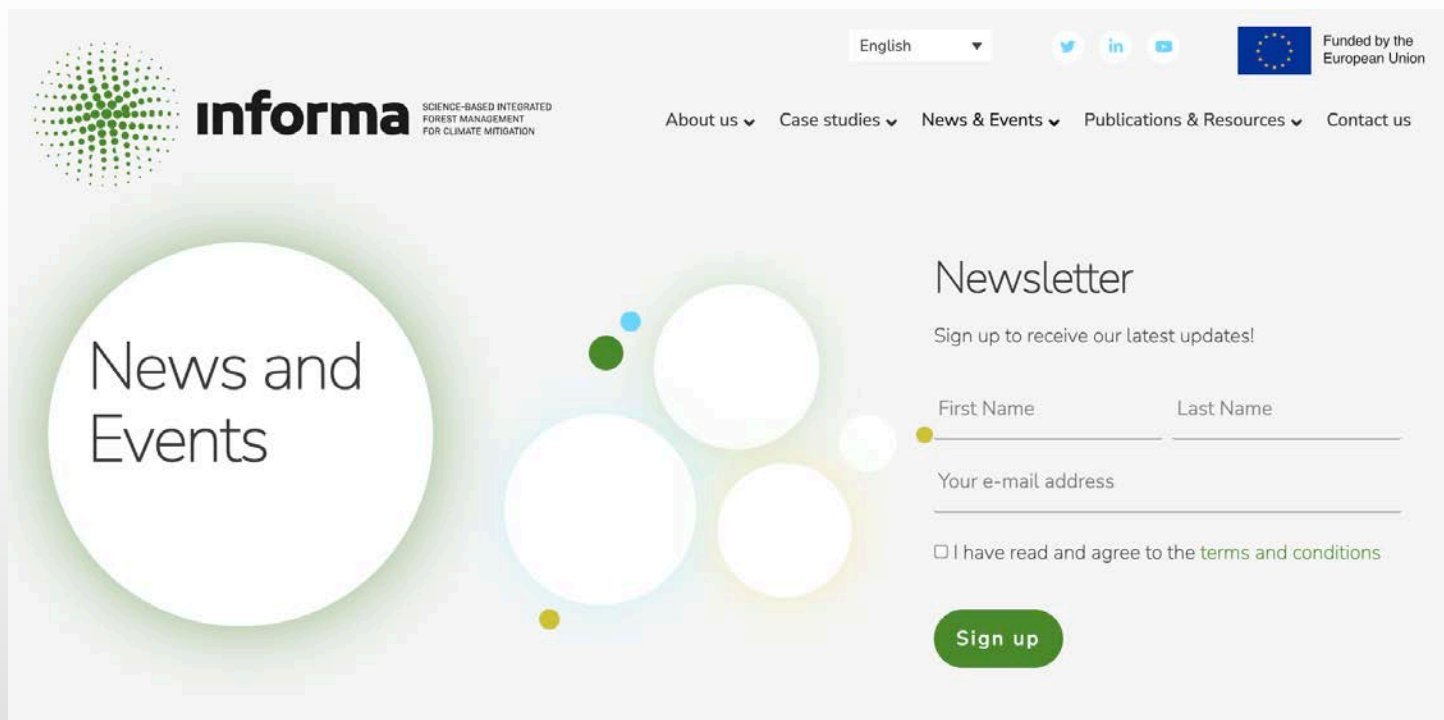
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# Sign up for our newsletter – the next issue coming up!



The screenshot shows the Informa website's newsletter sign-up page. At the top left is the Informa logo with the tagline "SCIENCE-BASED INTEGRATED FOREST MANAGEMENT FOR CLIMATE MITIGATION". To the right of the logo is a language dropdown set to "English", social media icons for Twitter, LinkedIn, and YouTube, and the European Union flag with the text "Funded by the European Union". A navigation bar contains links for "About us", "Case studies", "News & Events", "Publications & Resources", and "Contact us". The main content area features a large white circle on the left with the text "News and Events". To its right are four smaller, overlapping circles in green, blue, yellow, and white. The "Newsletter" section invites users to "Sign up to receive our latest updates!". It includes input fields for "First Name", "Last Name", and "Your e-mail address". Below these is a checkbox for "I have read and agree to the terms and conditions". A green "Sign up" button is at the bottom right of the form.

English

English

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About us Case studies News & Events Publications & Resources Contact us

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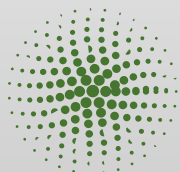
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