

cross forest project:

CROSS Harmonization &
HPC modelization of FOREST Datasets

Agreement No INEA/CEF/ICT/A2017/1566738



cross forest

OBJECTIVE

The aim of Cross-Forest is to combine Forest Inventory Datasets, Forestry maps and observational Big Data and to create and integrate models supporting forest management and forest protection.

As a general summary, Cross-Forest aims to develop Digital Service Infrastructures - DSI - services oriented towards forest fires control through precise information on combustible materials, forestry maps and propagation models that need HPC resources to run properly and forestry evolution models on Country-Level. The foundations of those services will be forestry and GIS datasets that come from Portugal and Spain.

In order to fulfill the aforementioned goals, Cross-Forest will produce a common shared model of forest data across Academia and Public Administrations from Portugal and Spain. Cross-Forest will also provide a public endpoint exposing Forest Data according to the produced model. In this regards, the published data and the foundation model will constitute one of the main outcomes of Cross-Forest project.

Period: 30 months (01/09/2018 to 28/02/2021)

4 PARTNERS + 2 AFFILIATED ENTITIES

2 COUNTRIES: Portugal & Spain

2 PILOTS

1 HPC FACILITY

WORKPLAN
3 technical activities
3 Cross-cutting

6 MILESTONES

20 DELIVERABLES

ACTIVITIES

Activity 1 HPC Facilities	Activity 4 Evaluation of Results. Impact, Exploitation and Sustainability
Activity 2 Data gathering and processing. Data publication	Activity 5 Project Dissemination
Activity 3 Pilots and practical scenarios	Activity 6 Project Management

PILOTS

Pilot Name: CAMBrIc – CALIDAD de la Madera en Bosques mixtos

Subject: Forest modelization. Wood Quality. Final products.

Location: Whole Spain

Approach: Simulation of different management scenarios

Simulation of different management scenarios. Cross-Forest will create models to forecast wood quality in mixed forests on higher surfaces than the municipality level by using the National Forest Inventory and observational Big Data.

Pilot Name: FRAME - Forest fiRes Advanced ModElization

Subject: Forest Fires.

Location: First Iteration, Portuguese-Spanish Border. Final iteration, all Iberian Surface.

Approach: Forest fires prevention and control through HPC modelization. Consequences mitigation

Forest fires prevention and control through HPC modelization. Fires propagation and their effects will be addressed at a first scenario. Cross-Forest will provide high quality information on severity prediction, possible evolution and useful recommendation on post-events measures.

PARTNERS



<https://crossforest.eu/>

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