

CROSS Harmonization & HPC modelization of FOREST Datasets



CROSS-FOREST

The aim of Cross-Forest is to publish Forest Inventory Datasets and Forestry maps from Portugal and Spain in Linked Open Data (LOD) format, and to combine them to create and integrate models supporting forest management and forest protection.

Cross-Forest is developing a common platform for open forest data, and a cross-border data model (ontology) shared between Portugal and Spain, for the publication of forest inventories, maps and other forest databases in Linked Open Data format (LOD). Cross-Forest will provide a public endpoint exposing Forest Data, according to the produced model. The main goal is focused on keeping forest information always available and updated, to make exploitation easier for all stakeholders involved in forest management and research.

Two use cases are being developed:

CAMBRIC - to estimate the evolution of forests and wood quality, under different management scenarios

FRAME - to predict forest fires behavior and spreading through precise information on combustible materials, forestry maps and propagation models.

High Performance Computing (HPC) resources are employed due to the amount of data generated and managed, and to the complexity of the models.

Results so far show the usefulness and versatility provided by LOD technology, as It allows users to freely access and manage updated data to develop tools adapted to their needs and purposes. Publishing data as LOD allows Public Administrations to easily fulfil their requirements of transparency and publicity, optimize resources and keep a statistic control of the use of public data.

DETALJER

VEDENS URSPRUNG

Skog

TRÄTYP

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TYP AV TRÄ

Mediterranean forests in Spain and Portugal

PÅVERKAN PÅ MILJÖ & BIOLOGISK MÅNGFALD

Very high as it will help to protect forests from fires for its best management.

EKONOMISK EFFEKT

No data

KOMMERSIELL POTENTIAL

The results obtained so far demonstrate the usefulness and versatility provided by LOD technology, as it allows users to freely access and manage up-to-date data to develop tools adapted to their needs and purposes.

LOD technology allows for the modular and interconnected construction of an open, public and quality information infrastructure available to the sector. The

MOBILISERINGSPOTENTIAL

Medium, this tool provides the best information for an appropriate management to avoid forest fires and also for the best management, therefore, it will improve the mobilization potential when CrossForest is used for this purpose

HÅLLBARHETS POTENTIAL - VÄRDE

Mycket positiv

ENKEL IMPLEMENTERING

"Consuming open data" is not easy, so it is necessary to create intermediate links and multidisciplinary teams to bring new technologies closer to users, in order to design adapted solutions.

ENKEL IMPLEMENTERING - UTVÄRDERING

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NYCKEL FÖRUTSÄTTNINGAR

The technology is already developed, the requirements are similar to those necessary for the use of any other similar software.

TYP AV EVENEMANG DÄR DENNA BPI HAR PRESENTERATS

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continuity of this type of publication allows public administrations to meet their transparency obligations, optimise resources and keep statistical control of the use made of the information.

NAV

Sydvästra centrumet

EKONOMISK PåVERKAN

High, as the information facilitates the management and forecasting of forestry work to be carried out.

SPECIFIKA KUNSKAPSBEHOV

Medium, some knowledge of mapping and forestry tools is necessary.

EFFEKT ANTAL ANSTÄLLDA

The project does not have a direct effect on employment, but it opens up opportunities for entrepreneurs and companies, as the information published allows any user with the appropriate profile to launch queries and develop adapted tools.

KOSTNADER FÖR IMPLEMENTERING (EURO - €)

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MER INFORMATION

UTMANING SOM ADRESSERAS

1. Förbättra skogens motståndskraft och anpassning till klimatförändringar

DOMÄN

Inventering, värdering, övervakning
Skogsförvaltning, skogskjötsel, ekosystemtjänster
Skogsskador, risker, katastrofberedskap

TYPE AV LÖSNING

Data plattformar, data hubbs, open data

NYCKELORD

forest models; High Performance Computing (HPC); Ja
Linked Open Data (LOD); ontology

DIGITAL LÖSNING

INNOVASION

Ja

UPPHOVSLAND

Portugal

POTENTIAL

Gränsöverskridande/transnationell

START OCH SLUTÅR

2018 - 2021

KONTAKT INFORMASION

ÄGARE ELLER FÖRFATTARE

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RAPPORTÖR

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REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

<https://crossforest.eu/>

PROJEKTETS HEMSIDA

<https://crossforest.eu/>

PROJEKTFERENS

Cross-Forest is co-financed by the European Union's Innovation and Networks Executive Agency (INEA), through the Connecting Europe Facility (CEF) 2014-

RESURSER

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LOGO FÖR BEST PRACTICE



LOGO, HUVUDORGANISATION

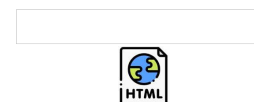


PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FÖR INLÄGG

7 jun 2021



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

