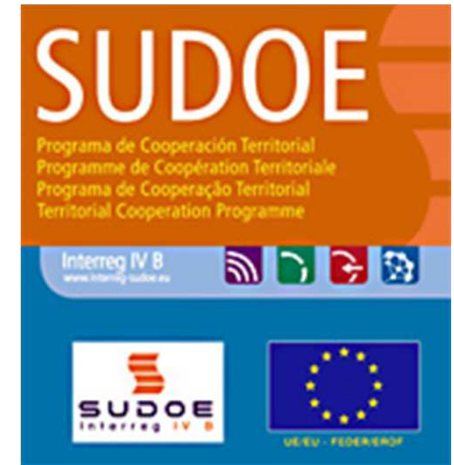


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garapenerako Eusko
Jaurkitzaren Korporazioa

Corporación del Gobierno
Vasco para el desarrollo
del medio rural y marino

Wood mobilization in Basque Country. Wood in forests: inventory and risks. Forrisk project.



Workshop on Forest Innovation, 20th May 2014, Brussels

Alejandro Cantero Amiano (HAZI)

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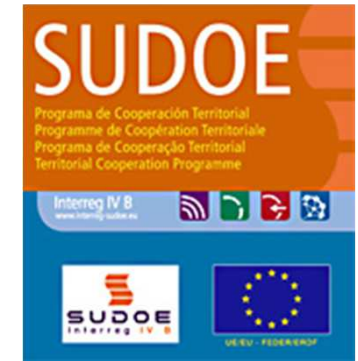
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**EUSKO JAURLARITZA
GOBIERNO VASCO**

EKONOMIAREN GARAPEN
ETA LEHIAKORTASUN SAILA

DEPARTAMENTO DE DESARROLLO
ECONÓMICO Y COMPETITIVIDAD



Who are we?

HAZI is a public Foundation, property of Basque Government. We are about 200 workers.

It was created in 2012 as a fusion of three public enterprises: IKT (agrarian studies and projects), Itsasmendikoi (agrarian training) and Kalitatea (food safety and quality).

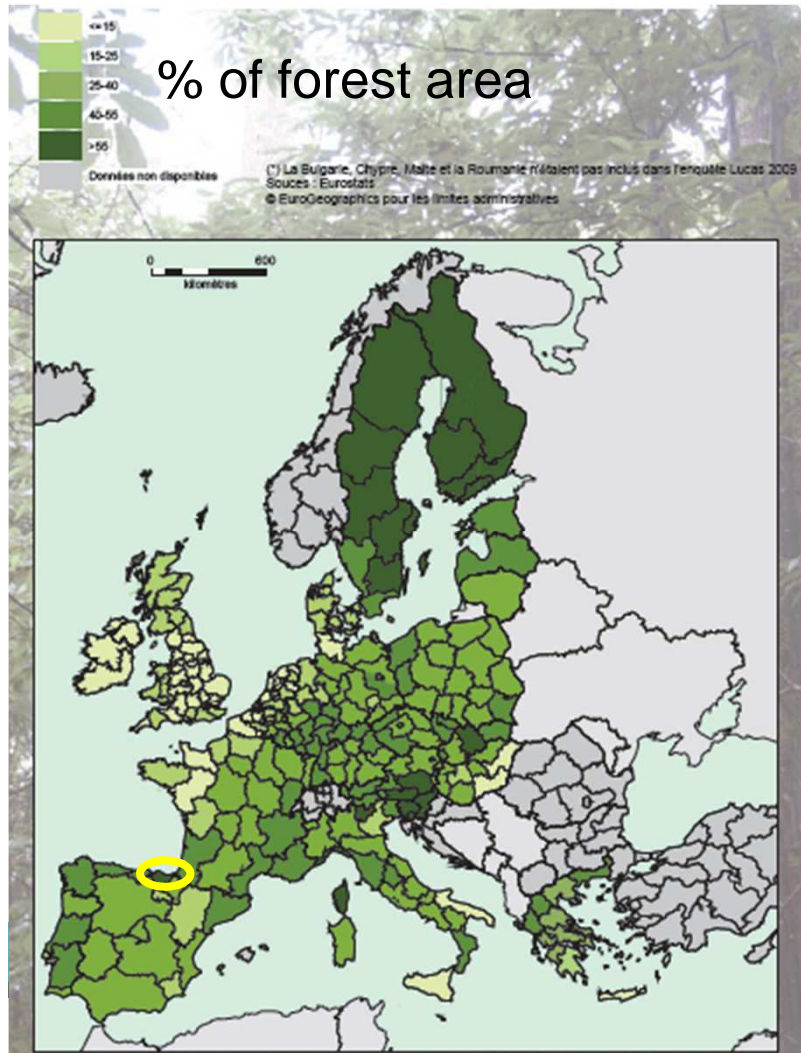
Our Forest Area is now developing several UE projects, in a variety of scopes such as Life+ or Interreg.

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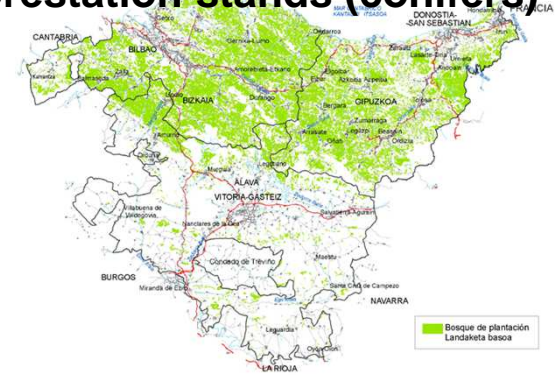
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Where are we from?

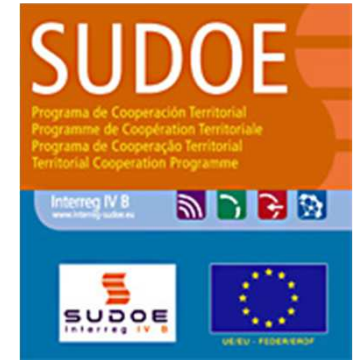


Forestation stands (conifers)



Natural forest (broadleaves)





What do we need?

- To know forest resources. Periodic Inventory
- To know forestry sector needs. Mobilization capacity
- To know forest risks. Forrisk project





What is “mobilization”?

Wood mobilization depends on some factors:

- Price
- New markets
- New uses
- Accessibility
- Forestry technology
- Property structure...

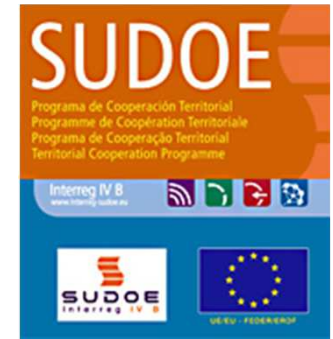


MOVAPRO Aquitaine
Mobiliser en **VA**lorisant pour
motiver les **PRO**ducteurs

Une méthodologie à venir pour valider de nouveaux chantiers pour :
Mobiliser, Valoriser mieux et Produire plus
sur l'ensemble des territoires aquitains

Richard EMEYRIAT, Henri HUSSON





Which tools have we got?

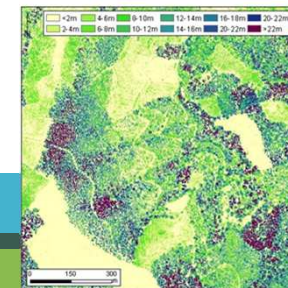
General tendencies: National Forest Inventory (NFI). Last «Basque» NFI in 2012, with 4.000 permanent plots, included in the 4th Spanish NFI (2008-2018?)

Two Lidar flights: 2008 and 2012

Forest PEFC certification

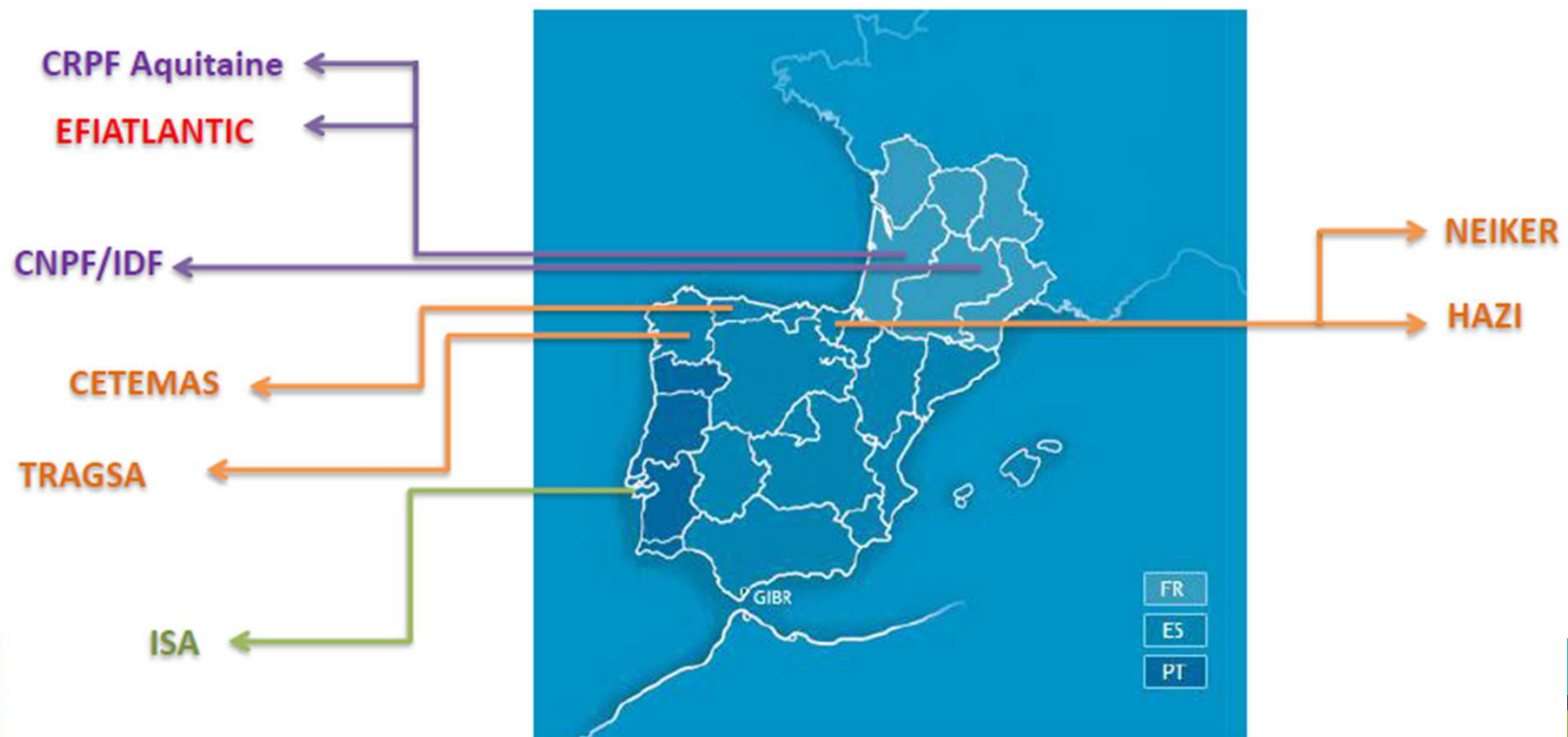


Modelos Digitales del Terreno
LIDAR



Forrisk project

Interreg Sudoe IVB project 2013-2014, promoted by EFIAtlantic and with 9 partners



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Our Forrisk project results based on Lidar/NFI

- Fire model risk: shrub density and height
- Wind damage risk: height-diameter model
- Mobilization: accessibility and volume model



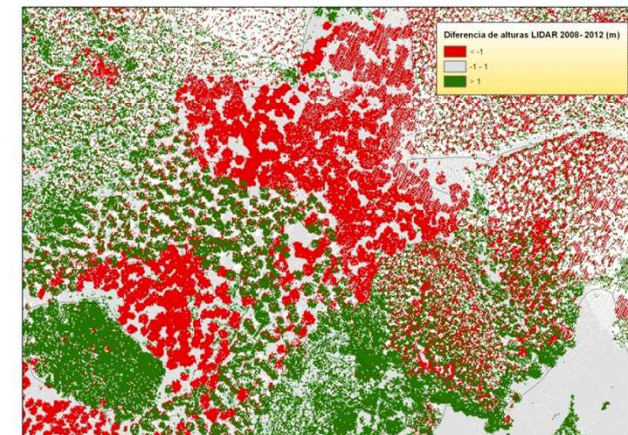
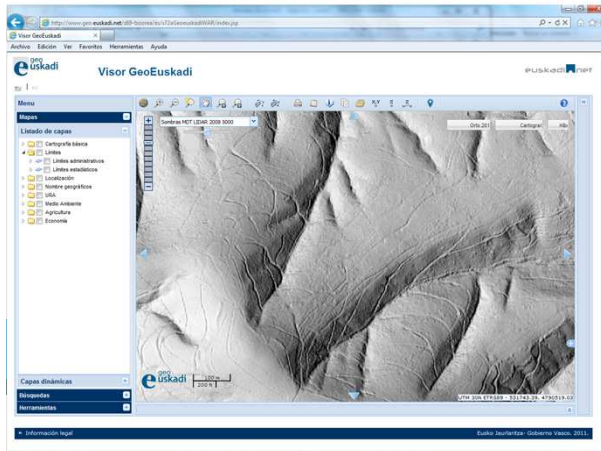
Which are some new tools to improve?

GIS visors

Biomass/products equations

Laser 3D

Wood quality measurement tools (NDM)





Some Conclusions:

1. The Basque Country is an example of an active forestry sector with good information on forests, innovative and where research centers collaborate ... like many European regions.
2. In an scenario of increasing forest risks, the first target should be an active management of the forest stands. Profitability is synonym of wood mobilization, prevention and active risk management.
3. Rising sawnwood, industrial and fuelwood demands offer opportunities for the future wood mobilization, even in forest plantation contexts. European forests, species and products variety could achieve synergies between regions. **Possibility for a research project?**

