Inventory and characterization of forest roads

Public administrations directly manage a road network on forest land that in many cases is longer than the general road network itself.
Wood transport is a key factor in the value chain of wood mobilization.
There is therefore a need for reliable knowledge of this network, so that resources can be optimised and rationalised in terms of maintenance and improvement, that is to say, the rationalisation of the processes of inventory, planning, programming and control of the work on these tracks must be emphasised.

The lack of digital cartography with sufficient quality in rural areas is a constant in most territories. Together with a certain delay in the application of technologies in the sectors that operate in this area, they make these areas a priority objective on which to concentrate this type of effort.
This cartography allows to plan more effectively the operations related to the harvesting and transport of wood, from the forest to the industry.

Since 2009, Cesefor has directed and developed the project co-financed by the Regional Government of Castilla y León and the Ministry of Industry and Trade.
Within the framework of this project, more than 50,000 km of rural roads have been inventoried and more than 33,000 equipments have been collected, forming a continuous network connected to the road network with extensive qualitative information on forest areas.
The information has been collected by GPS, attaching the necessary qualitative information in each case.
Specific cartography has been distributed to environmental agents, fire extinguishing media dependent on the Junta de Castilla y León and the digital information is available at the Junta de Castilla y León.
A specific navigator has also been developed for rural roads, since due to the special characteristics of this network it is necessary to know the existing restrictions, either by type of vehicle or state of the tracks.

DéTAILS

ORIGINE DU BOIS
Forêt

TYPE DE BOIS
Grume

TYPE DE BOIS CONCERNé
Any wood from forests

IMPACT SUR L'ENVIRONNEMENT ET LA BIODIVERSITé
Positive: reduction on fuel consumption

EFFET SUR LE REVENU
Reduction on transportation costs

POTENTIEL D'EXPLOITATION
--

HUB
--

IMPACT éCONOMIQUE
Reduction on transportation costs

CONNAISSANCES SPéCIFIQUES REQUISES
GIS and database management

POTENTIEL DE MOBILISATION
-

POTENTIEL DE DURABILITé - VALEUR
--

FACILITé D'IMPLéMENTATION
Medium

FACILITé D'IMPLéMENTATION - ÉVALUATION
--

PRéREQUIS CLéS
Good work planning and suitable personal needed

TYPE D'éVéNEMENT Où CETTE ICPE A éTé PRéSENTéE
--

EFFET SUR L'EMPLOI
None

COûTS D'IMPLéMENTATION (EURO - €)
--

PLUS DE DéTAILS

DéFI CONCERNé

--

DOMAINE

Récolte, infrastructure, logistique

TYPE DE SOLUTION

Modélisation, DSS, simulation, optimisation

MOTS-CLéS

--

SOLUTION DIGITALE

Oui

INNOVATION

Non

PAYS D'ORIGINE

Espagne

ECHELLE D'APPLICATION

Régionale/subnationale

DéBUT ET FIN D'ANNéE

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INFORMATIONS DE CONTACT

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RAPPORTEUR

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

http://www.cesefor.com

SITE WEB DU PROJET

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RéFéRENCE DU PROJET

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RESSOURCES

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PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood

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Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY