

# 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.

## DETALLES

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### ORIGEN DE LA MADERA

Bosque

### TIPO DE MADERA

Madera en rollo

### POTENCIAL DE MOVILIZACIÓN

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### POTENCIAL DE SOSTENIBILIDAD - VALOR

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### TIPO DE MADERA AFECTADA

Any wood from forests

### FACILIDAD DE APLICACIÓN

Medium

### IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD

Positive: reduction on fuel consumption

### FACILIDAD DE IMPLEMENTACIÓN - EVALUACIÓN

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### EFFECTO SOBRE LOS INGRESOS

Reduction on transportation costs

### PREREQUISITOS CLAVE

Good work planning and suitable personal needed

### POTENCIAL DE EXPLOTACIÓN

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### TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS

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### HUB

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### EFFECTO SOBRE EL EMPLEO

None

### IMPACTO ECONÓMICO

Reduction on transportation costs

### COSTES DE IMPLEMENTACIÓN (EURO - €)

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### CONOCIMIENTOS ESPECÍFICOS NECESARIOS

GIS and database management

## MÁS DETALLES

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### RETO ABORDADO

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### PALABRAS CLAVE

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### PAÍS DE ORIGEN

España

### DOMINIO

Aprovechamiento, infraestructura, logística

### SOLUCIÓN DIGITAL

Sí

### ESCALA DE APLICACIÓN

Regional/sub-nacional

### TIPO DE SOLUCIÓN

Modelización, DSS, simulación, optimización

### INNOVACIÓN

No

### AÑO DE INICIO Y FIN

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## DATOS DE CONTACTO

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### PROPIETARIO O AUTOR

### REPORTADOR

Francisco.gallego@cesefor.com

## REFERENCES AND RESOURCES

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### SITIO WEB PRINCIPAL

<http://www.cesefor.com>

### SITIO WEB DEL PROYECTO

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### REFERENCIA DEL PROYECTO

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### RECURSOS

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PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood

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Link to Rosewood 4.0



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

