



# Digitalization in the Poplar sector



POPLAR WEEK. Carracedelo, León. Spain. 14, 15, 16 June 2021



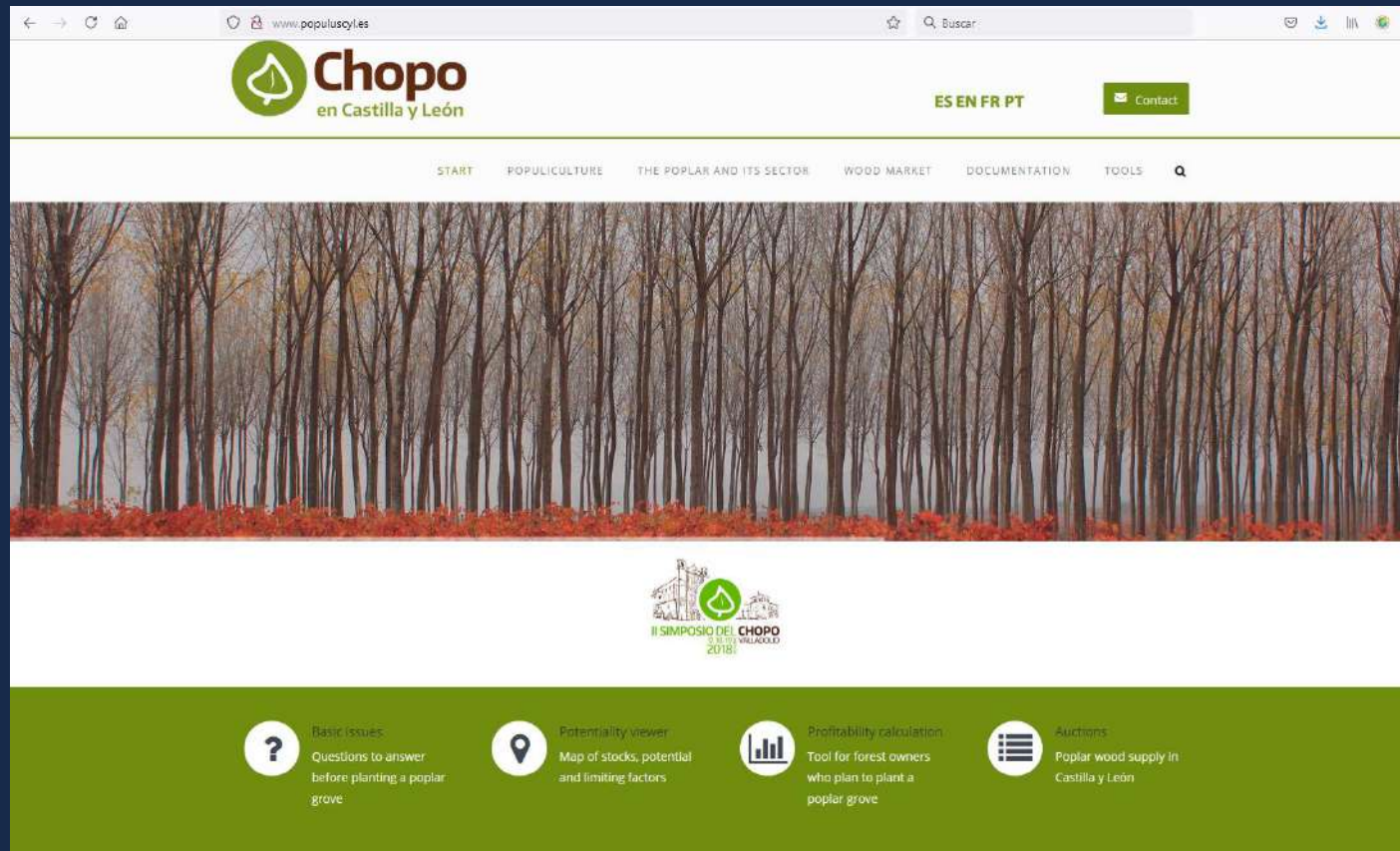
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 862681.

CESEFOR FOUNDATION. 15TH JUNE 2021. SWE HUB



# Potentiality and profitability analysis tools for poplar plantations in Castile and León

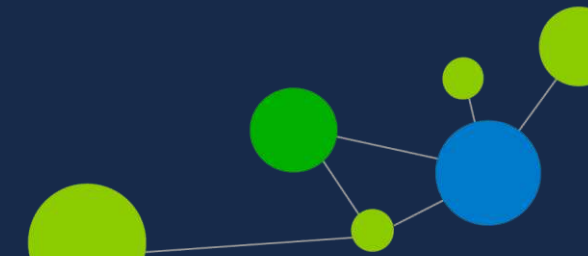
The poplar portal – [www.populuscyl.es](http://www.populuscyl.es)



Poplar week  
SWE hub. 15th June 2021

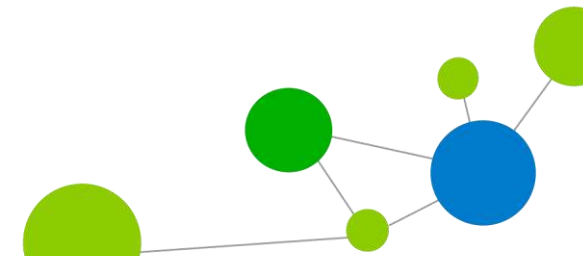


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# POPLAR IN CASTILLA Y LEÓN

- **3 Main species:** *Populus nigra*, *Populus alba* and *Populus tremula*
- **First European region** in production of poplar wood
- Poplar surface:
  - 44,000 ha (60% of Spain)
  - 3% of the regional tree forest area
  - more than 20% of the annual wood cuttings
  - more than 40% of the income from wood sales



# PROFITABILITY CALCULATOR

- The profitability of a poplar plantation depends on many factors (plantation, clone, land, cultural works, water availability, location...)
- The calculator gives an estimate of the benefits using an average of the sale prices
- Request 4 parameters from the user
- Results: table + recommendations

## Annual average economic data per hectare

Income ha / year (€)	Expenses ha / year (€)	Benefit / ha / year (€)	Total profit (€)
714.04	315.54	398.50	12,751.96

With financing at 3%

Surface \*  Ha

Approximate plantable area (Ha):

Quality \*

Good

Half

Bad

Is it necessary to de-stump? \*

YES

NOT

Is deep root planting possible? \*

YES

NOT

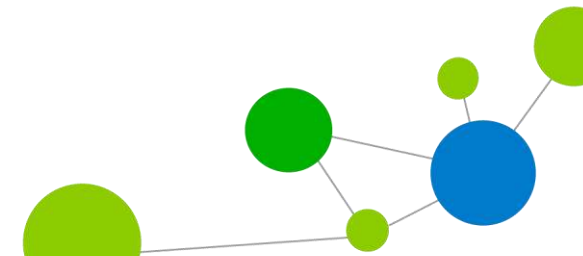
To carry out a successful deep root planting, the availability of the water table must be checked at a depth of less than 4 meters in the summer period. This is difficult unless a pit is made or a well is available. It is convenient to carry out several pits in different areas of the farm for larger or not very homogeneous plots. If the farm is located in an alluvial zone and there are good quality poplar groves planted with deep roots in the surroundings, the availability of a water table in the plot is very likely.

How deep? \*

Between 1.5 and 2.5 meters \*

Between 2.5 and 4 meters \*

**CALCULATE**



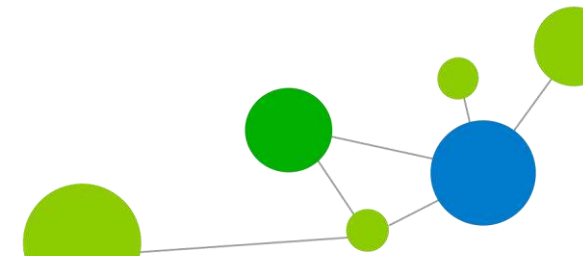
# USER STATISTICS

## PORTAL

- Start date: November 2016
- Total visits: 177,760
- Visits per day: 106

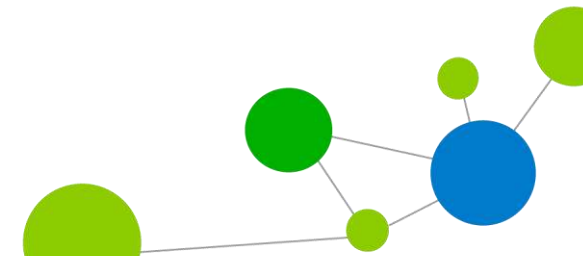
## PROFITABILITY CALCULATOR

- Total calculations: 6,400
- Calculations per day: 3,8



# MAP VIEWER - POTENTIALITY

- Potentially suitable land for planting
- Alluvial Soil Layer
- Existing plantations
- River network
- Limiting factors:
  - Altitude > 1100 m
  - Slope > 5%
- Additional info:
  - Protected areas
  - Fluvial reserves





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[www.rosewood-network.eu](http://www.rosewood-network.eu)

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CESEFOR FOUNDATION/15TH JUNE 2021  
CARRACEDELO, LEÓN. SPAIN

