



# LIFE TEIXERES PROJECT SUMMARIZES 30 YEARS OF TAXUS BACCATA CONSERVATION IN VALENCIA: THE IMPORTANCE OF THE SEEDS.

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LIFE TEIXERES  
LIFE20 NAT/ES/001128 | 2021-2026



4th Mediterranean Plant  
Conservation Week

VALÈNCIA | 23-27 OCTOBER | 2023





# INTRODUCTION



The LIFE Teixeres project is a LIFE Nature project, which main objective is to improve the general conservation status of the priority habitat 9580\*

Meditarranean

Taxus baccata woods in the Valencia Region.



# THE HABITAT

IN THE VALENCIAN REGION YEW WOODS ARE PLACED IN THE HIGHEST MEDITERRANEAN MOUNTAINS, OCCUPYING THE WETTEST RAVINES AND THE BASES OF SLOPES FACING NORTH, OFTEN ON ROCKY HABITATS. BIGGER YEW COMMUNITIES THAT HAVE PROGRESSIVELY LOST REDUCED ITS COVERAGE BY A COMBINATION OF HUMAN ACTIONS AND NATURAL DISTURBANCES.

# LOCATIONS

10 NATURA 2000 SITES

230 HA

55 PLOTS

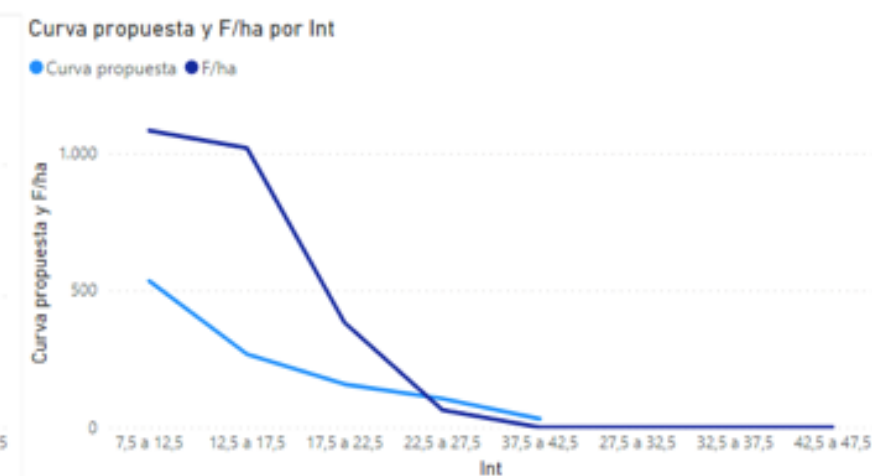
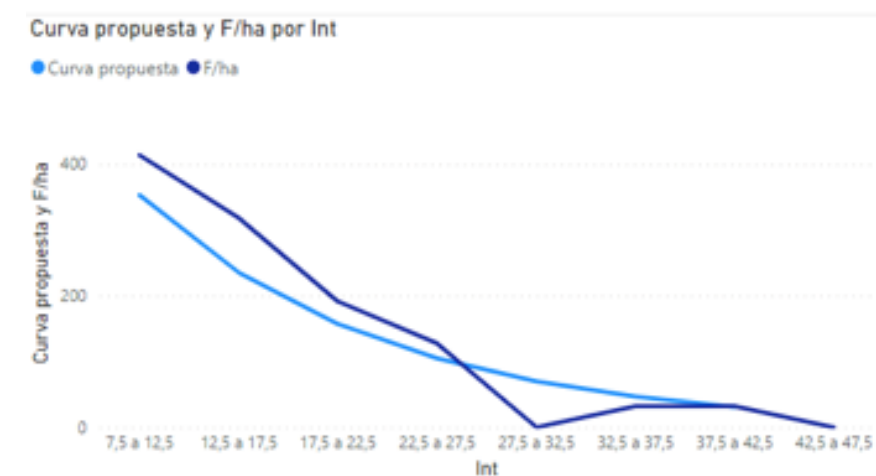
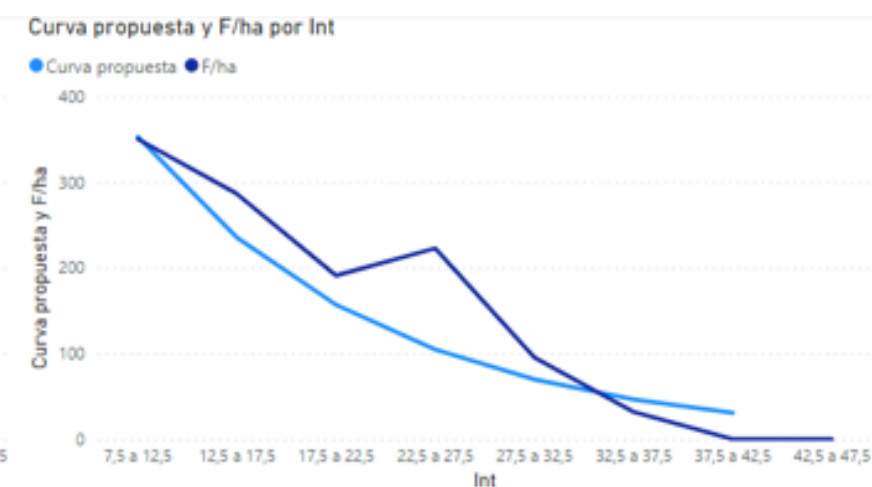
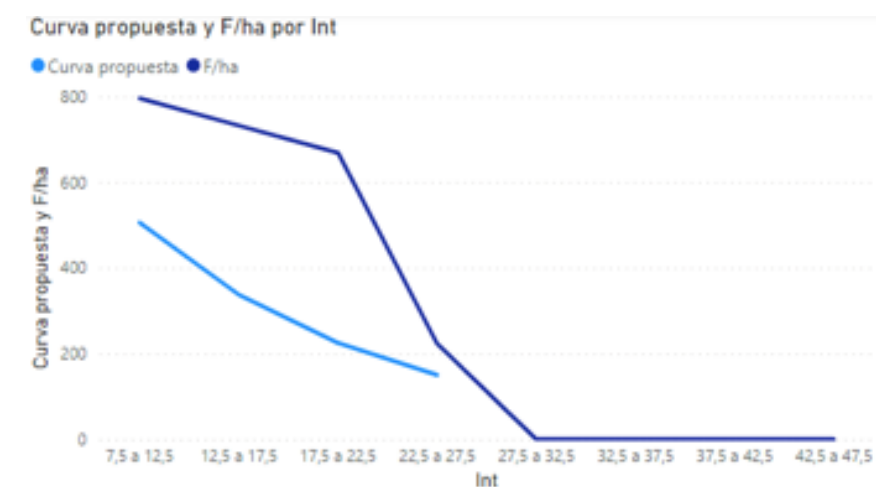
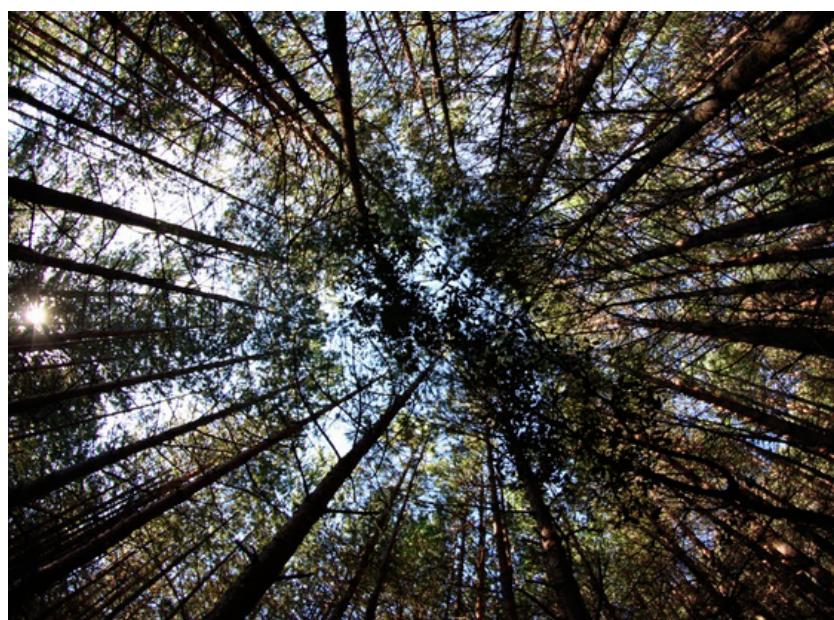




## CURRENT MAIN THREATS

- 1.- Very small , dispersed and fragmented habitat spots.
- 2.- Low seed productivity and seedling recruitment.
- 3.- Herbivory and trampling of both, domestic and wild ruminants.
- 4.- Climate change.
- 5.- Wildfires.

# FORESTRY TREATMENTS FOR COMPETITION REDUCTION





LIFE  
TEIXERES











Híbrid





# FIRMS

Fire Information for Resource Management System

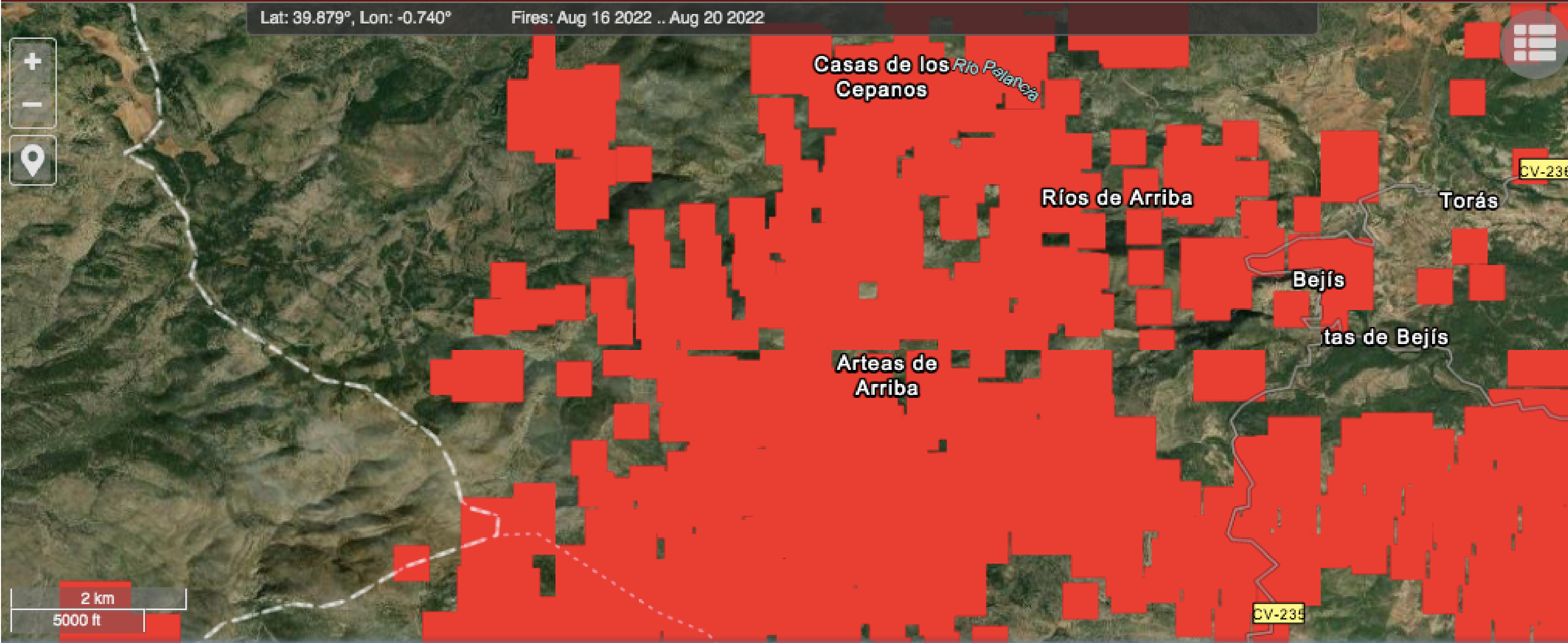
Announcements

Feedback



Lat: 39.879°, Lon: -0.740°

Fires: Aug 16 2022 .. Aug 20 2022



AGOSTO 2022

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

AUG 20 2022

5 days





Imatge



Peña Escabia, Bejís

Capas

Busca capa o grup de capes

- Any 2000 prov. valencia
- Any 2005 prov. Castelló
- Any 2005 prov. Alacant
- Any 2004 prov. València
- Any 2003 prov. Castelló
- Any 2002 prov. València i Alacant
- Any 2000 prov. València (Est)
- Any 1997 prov. Castelló (Sud)
- Any 1996 prov. Castelló (Nord)
- Any 1956
- + Ortofotos IRG
- Satèl·lit
  - Sentinel-2
  - 2022

- tejos\_puntos.kml
- Los\_tajos\_101023.kml
- Any 1956

Consultes

Dibuixeu

Anàlisi



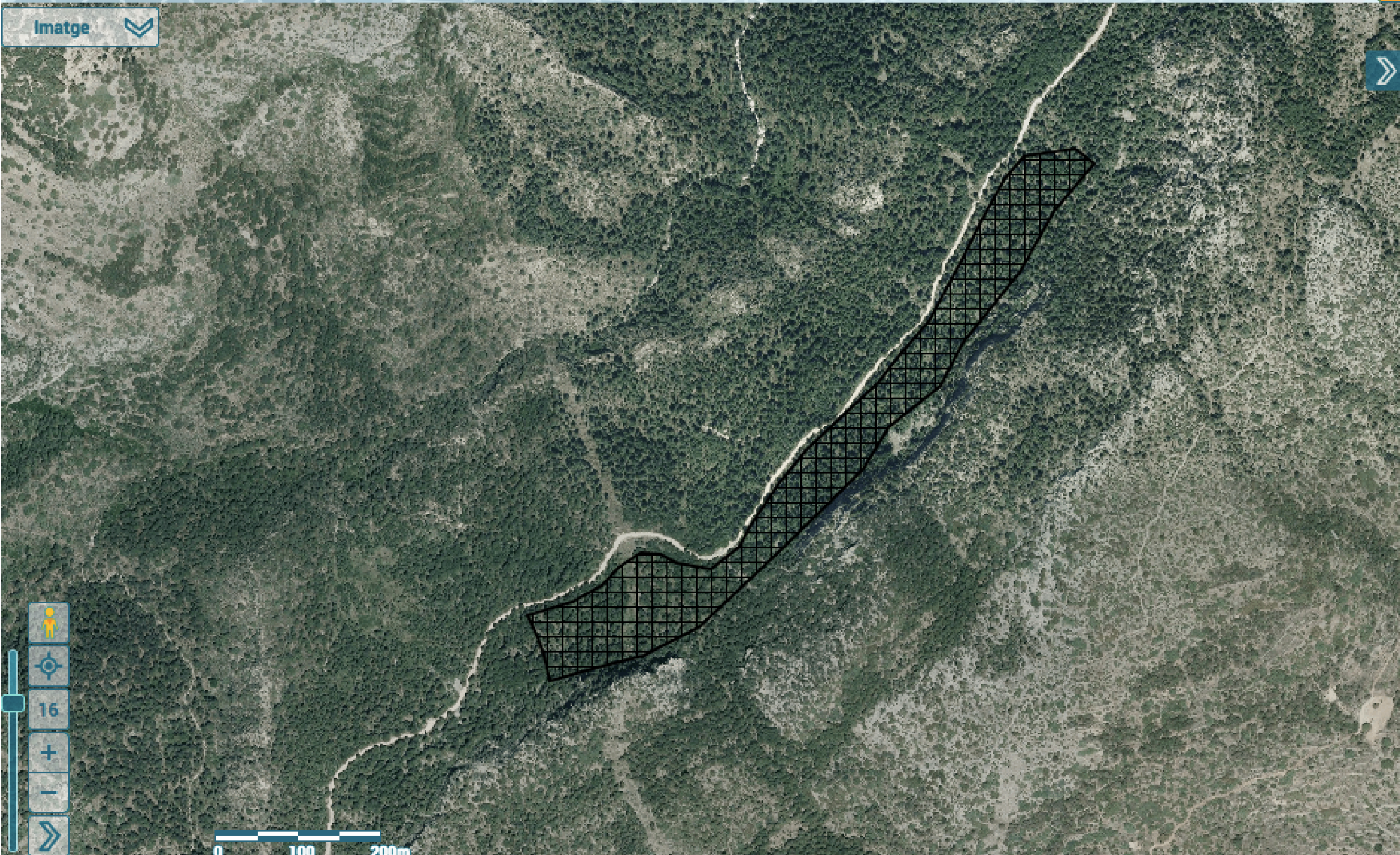
0 100 200m

Escala aprox.: 1/9000

Coord. UTM (ETRS89,Fus 30) 691.961,91 m, 4.421.739,96 m



imatge



Peña Escabia, Bejís

Capas

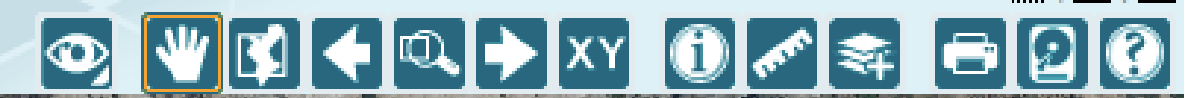
Busca capa o grup de capes

- + Cartografia de referència
- Ortofotos i Imatges
  - Ortofotos RGB
    - Any 2023 (orto ràpida)
    - Any 2022
    - Any 2021
    - Any 2020
    - Any 2019
    - Any 2018
    - Any 2017
    - Any 2015 prov. València i Castelló
    - Any 2014 prov. d'Alacant
    - Any 2012

- tejos\_puntos.kml
- Los\_tajos\_101023.kml
- Any 2022

- Consultes
- Dibuixeu
- Anàlisi





Imatge



Peña Escabia, Bejís

Capes

Busca capa o grup de capes

- + Cartografia de referència
- Ortofotos i Imatges
  - Ortofotos RGB
    - Any 2023 (orto ràpida)
    - Any 2022
    - Any 2021
    - Any 2020
    - Any 2019
    - Any 2018
    - Any 2017
    - Any 2015 prov. València i Castelló
    - Any 2014 prov. d'Alacant
    - Any 2012

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- ▶ Anàlisi



Escala aprox.: 1/9000 Coord. UTM (ETRS89,Fus 30) 691.961,91 m, 4.421.739,96 m

# SEED PRODUCING ORCHARDS



## QUASI IN SITU CONSERVATION

Orchards of yew collections representing the regional genetic diversity for the different regions of the project area will be carried on. They will be created in key spots in all Natura 2000 sites, where soil-climatic conditions are similar to the natural habitat, so they can fulfill their function as seed dispersal cores.

# SEED PRODUCING ORCHARDS



**Promote natural dispersal  
and natural recruitment**



# VEGETATIVE PROPAGATION



# PUBLIC PARTICIPATION



# SEED COLLECTION



# GERMPLASM COLLECTION, CURATION AND STORAGE



# PLANT PRODUCTION

## Germination protocol

| % germination  | Test duration (days) | Germination start (days) | Last germination                  | T50 (days) |
|--|----------------------|--------------------------|-----------------------------------|------------|
| 74   | 630                  | 20                       | 210                               | 30         |
| Pretreatments  |                      |                          | Cultivation substrate             |            |
| 1. Imbibition in water with a softener 0,01% during 24 h<br>2. Acid scarification in 2:1 Water and 98% H <sub>2</sub> SO <sub>4</sub> solution<br>3. 60 days warm stratification at 30 °C.<br>4. 120 days Cold stratification 0° C , 85% substrate humidity, important: fungus development should be controlled. |                      |                          | Black turf coconut fiber mixture. |            |



VALENCIA (SPAIN) | 23-27 OCTOBER | 2023  
*Plant Conservation and Ecosystem Restoration  
in the Mediterranean*



## 4th Mediterranean Plant Conservation Week

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# THANK YOU

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