

Mediterranean wood-pastures for people and nature: 🕕

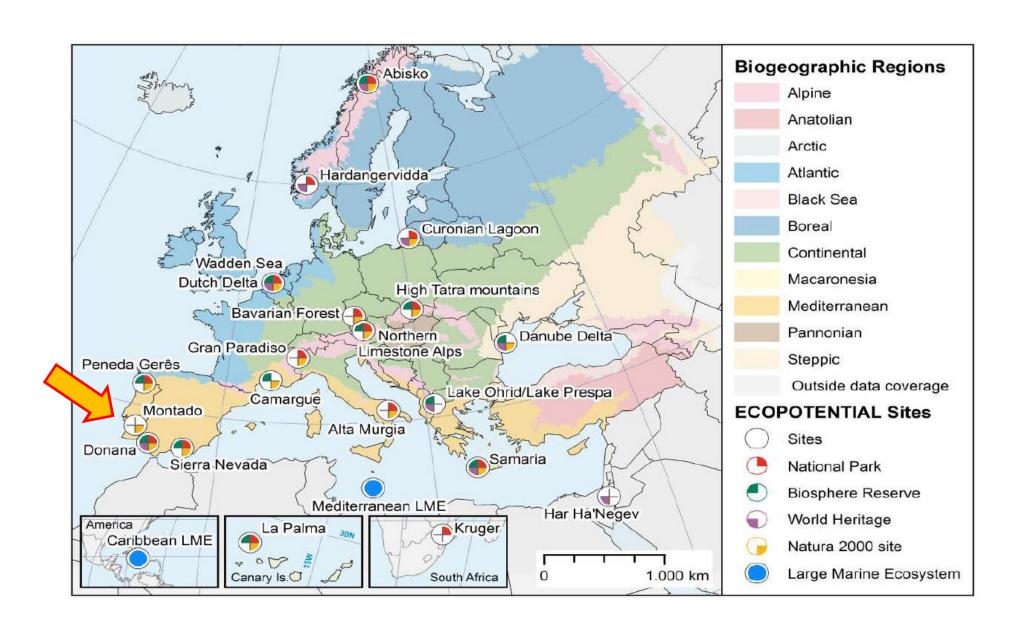


Montado in Alentejo Natura 2000 sites





programme under grant agreement No 641762

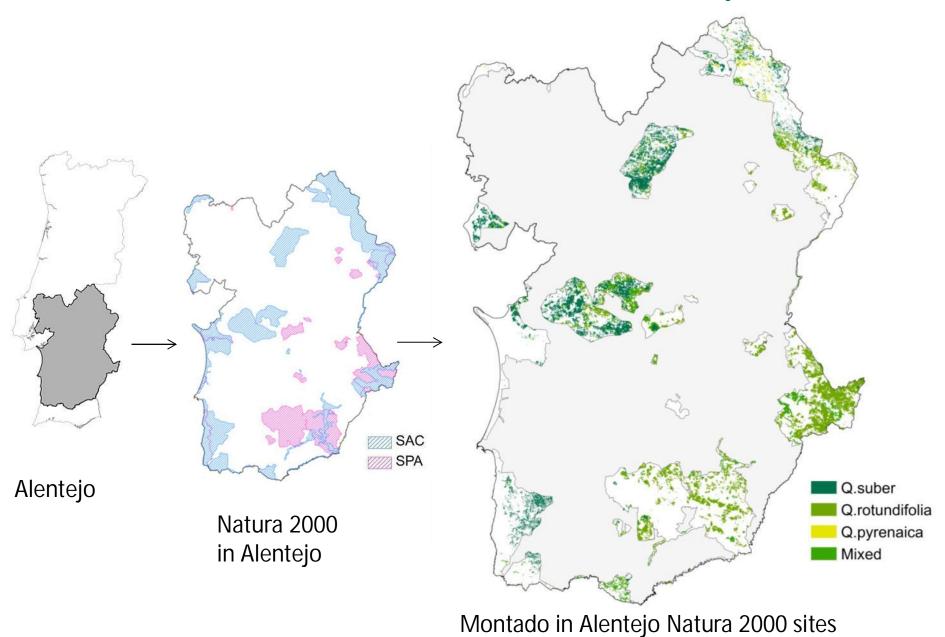


Montado is a HNV Mediterranean wood-pasture system

Listed under the EU Habitats Directive: Dehesas with evergreen Quercus spp

A characteristic landscape of the south-western quadrant of the Iberian peninsula in which crops, pasture land or Meso-Mediterranean arborescent matorral, in juxtaposition or rotation, are shaded by a fairly closed to very open canopy of native evergreen oaks (Quercus suber, Quercus ilex, Quercus rotundifolia, Quercus coccifera). It is an important habitat of raptors, including the threatened Iberian endemic eagle Aquila adalberti, of the crane Grus grus, of large insects and their predators and of the endangered felid Lynx pardinus. (Habitat 6310)





Montado is a traditional socio-ecological system



- Cork and livestock (pastures) are key provisioning services
- Water and soil processes (water and nutrient cycling, control of soil erosion) are important for the delivery of ecosystem services



- Valued as cultural heritage
- The multifunctional use promotes habitat diversity and species diversity at local and landscape scales



- Large distribution area and spatial continuity, also important for biodiversity
- Human intervention (grazers, shrub control) necessary to maintain structural features but can become a threat if poorly managed

Montado is declining and depends on sustainable management of soil, grazing and ecosystem structure

- Destructive soil management practices
- Excessive grazing (CAP subsidies)
- Changes in rainfall patterns



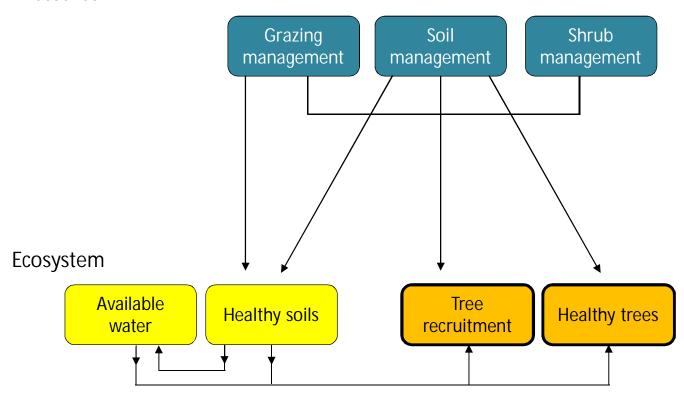
- Higher incidence of pests and diseases
- Abandonment followed by shrub encroachment
- Higher risk of fire



- Increased tree mortality
- Low tree recruitment
- Transition to shrubland



Pressures









Mediterranean wood-pastures for people and nature: Montado in Alentejo Natura 2000 sites

Pressures Drought & Grazing Soil Shrub Diseases Fire waterlogging management management management Ecosystem Available Tree Habitat Healthy soils Healthy trees recruitment water structure

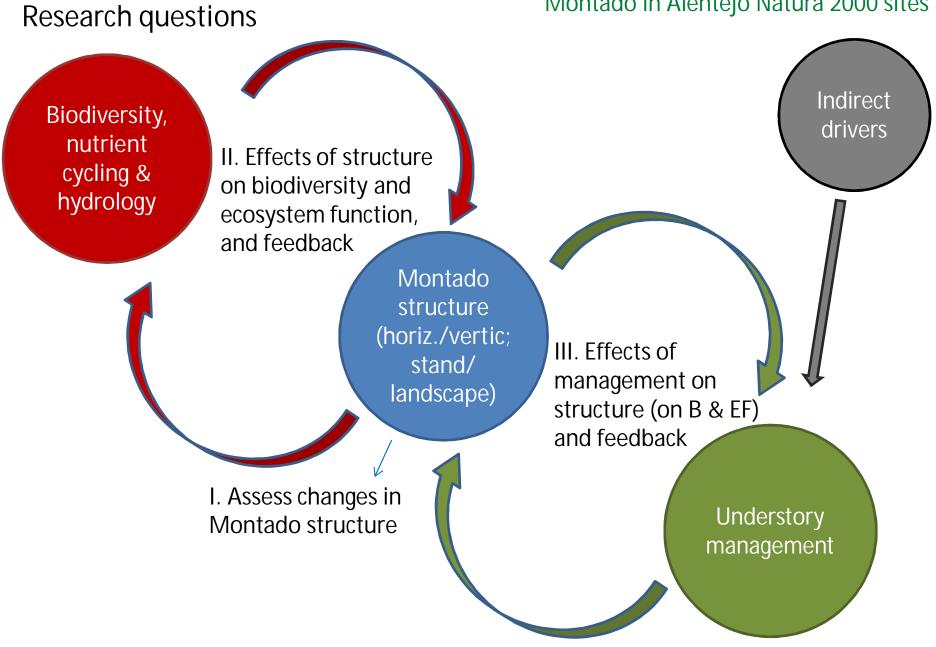


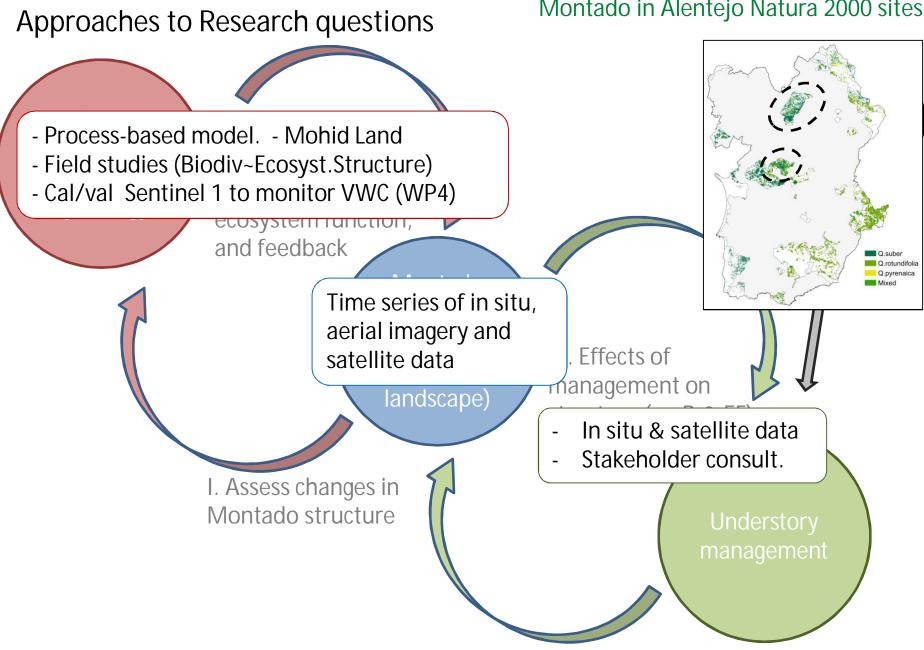




Pressures Drought & Grazing Soil Shrub Diseases Fire waterlogging management management management Ecosystem Available Tree Habitat Healthy soils Healthy trees recruitment water structure

Biodiversity and Ecosystem Services





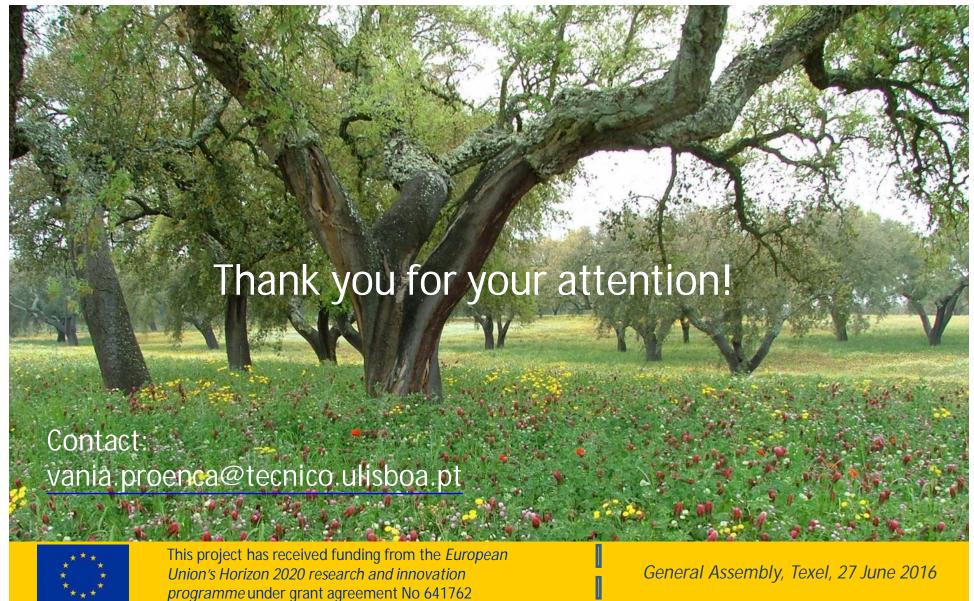


Mediterranean wood-pastures for people and nature:









Link Indicator variables to Essential Biodiversity/Climate Variables

Indicator variable	Nearest EV	Potential sources
Stand age structure, Density of adult trees	Population structure	NFI - National Forest Inventory
Tree declining symptoms	Physiological traits	Satellite RS; NFI
Tree mortality	Demographic traits	Satellite RS(Landsat); NFI
Biomass	Primary productivity	NFI; In situ datasets
Cork production	Primary productivity	NFI
Habitat structure	Habitat structure	Satellite RS; Corine; NFI
Landscape diversity index	Land cover	Satellite RS
Soil moisture	Soil moisture	Satellite RS (Sentinel 1); LUCAS db
Soil organic matter	Soil carbon	In-situ datasets; LUCAS db
Precipitation regime	Precipitation	Meteorological datasets
Fire regime	Fire regime	National Fires Dataset