

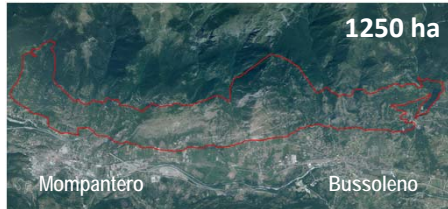


# LIFE12 NAT/IT/000818 XERO-GRAZING

## Semi-natural dry-grassland conservation and restoration in Valle Susa (NW Italy) through grazing management



### SCI IT1110030 "Valle di Susa - Orrido di Chianocco e Foresto xerothermic oases"



### A "handmade" landscape... abandoned since 1960



### A tiny Mediterranean oasis...

altitude: 470-1630 m  
 aspect: S-SW  
 mean slope: 58%  
 substrate: limestone  
 rainfall: 800 mm y<sup>-1</sup>  
 rainy days: 77/365  
 water shortage: 9 months  
 mean temperature: 11.3°C  
 mean winter temp.: 3.6°C  
 windy days: 325/365

**Flora**  
 Piedmont: 3510  
 SCI IT1110030: ~500 (14%)



### .....an extraordinary biodiversity...



- ✓ habitat 6210\* Seminatural dry grasslands and shrubland facies on calcareous substrates (*Festuco-Brometalia*)  
\*important orchid sites
- ✓ habitat 6240\* Sub-Pannonic steppic grasslands
- ✓ 23 species of orchids
- ✓ Steno- and Eurimediterranean species and endemisms

### .... threatened by:

- ✓ absence of agricultural activities & livestock farming
- ✓ shrub encroachment (e.g. *Prunus spinosa*)
- ✓ afforestation (e.g. *Quercus pubescens*)
- ✓ wild fires
- ✓ land use changes

## OBJECTIVES

Establishing a long-term conservative management in areas where there is little productive interest but high natural value



- ✓ implement a grassland management on 80 ha of public land based on sheep grazing
- ✓ restore shrub and tree-encroached grasslands by mechanical clearing and cutting
- ✓ involve local authorities and stakeholders in managing high value areas
- ✓ increase the awareness on the use of natural resources by promoting educational activities

## ACTIONS

### Preparatory actions

- A1. Conservation status assessment for the 6210\* habitat
- A2. Analysis of past to present management
- A3. Guide-lines for the habitat conservation and restoration
- A4. Technical actions for the habitat conservation and restoration
- A5. Establishment of a monitoring network for the habitat



- ✓ 261 vegetation surveys (network of 189 permanent transects to be repeated every year)
- ✓ 352 ha (30% of SCI surface) covered by two priority habitats 6210\* (53%) and 6240\* (47%)
- ✓ 40 species rare, protected, or included in Red Lists
- ✓ 70% of grasslands encroached by shrubs or trees
- ✓ 360 ha (30% of SCI) covered by terraces and cultivated in the past centuries
- ✓ only 37 ha (3% of SCI) cultivated at present!

### Concrete conservation actions

- C1. Restoration of parts of the habitat
- C2. Arrangement of grazing equipment for conservative management
- C3. Buying of domestic animals for the conservative management
- C4. Restoration of the access to grazed areas
- C5. Application of grazing management guide-lines



- ✓ mechanical clearing and cutting on 20 ha of grasslands encroached by shrubs and trees
- ✓ restoration of trails to assure access to grazing areas



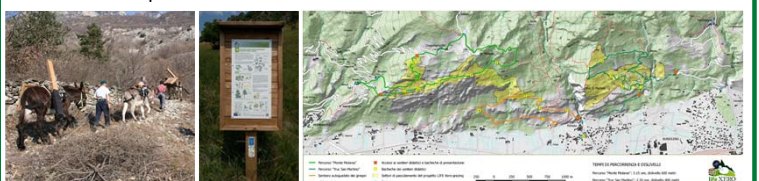
- ✓ permanent let-down fences (wildlife friendly), underground water pipes, and waterers arranged on the grazing area

- ✓ "service flock" of 150 sheep bought by the coordinating beneficiary
- ✓ grazing implemented on 80 ha of public lands + 20 ha of private lands granted by owners (thanks to dissemination actions!)



### Public awareness and dissemination actions

- E1. Notice boards and information panels
- E2. Conferences and seminars
- E3. Publication of the project
- E4. Website of the project
- E5. Activities of public awareness and dissemination



- ✓ 2 educational trails on xerothermic grasslands designed and arranged
- ✓ meetings, workshop, conferences, and educational activities

### Monitoring of the impact of the project

- D1. Monitoring of action effects on the vegetation
- D2. Monitoring of action effects on orchids and Stenomediterranean rare species
- D3. Monitoring of action effects on socio-economic aspects and ecosystem services