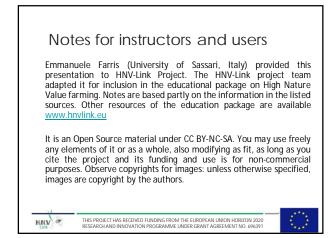


Dept. of Sciences for Nature and Environmen Resources University of Sassari (Sardinia – Italy) *emfa@uniss.it*



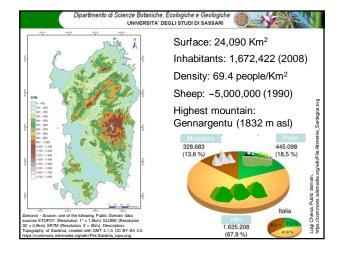


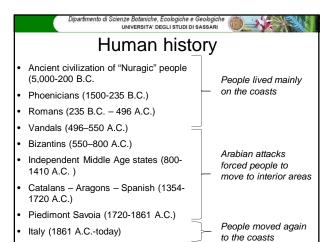
- o Pasture types
- Case-study: Abandonment of the hilly-montane sheep pastures and wooded pastures
- o Management, Conservation and Restoration

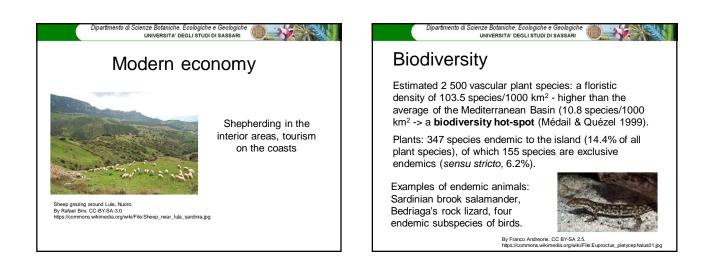
Sardinia

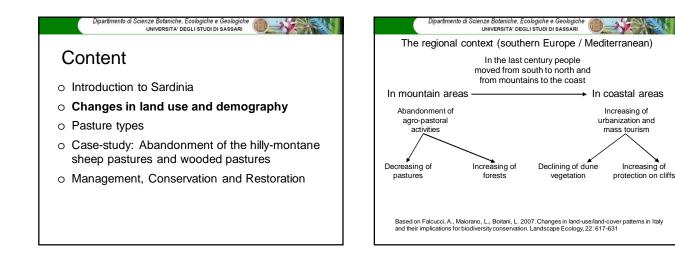
the second largest island in the entire Mediterranean sea
central part of the western Mediterranean Basin.











1.

Content

- o Introduction to Sardinia
- o Changes in land use and demography
- Pasture types
- Case-study: Abandonment of the hilly-montane sheep pastures and wooded pastures

nze Botaniche, Ecologiche e Geologiche UNIVERSITA' DEGLI STUDI DI SASSARI

Management, Conservation and Restoration

partimento di Scienze Botaniche, Ecologiche e Geologiche UNIVERSITA' DEGLI STUDI DI SASSARI

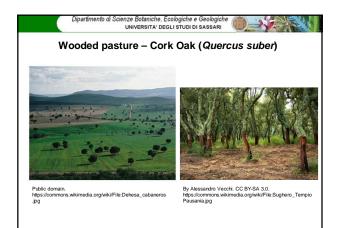
Pasture types in the Mediterranean:

- · Grazed woodlands
- Dehesas
- Wooded pastures
- Open pastures
- Coastal pastures



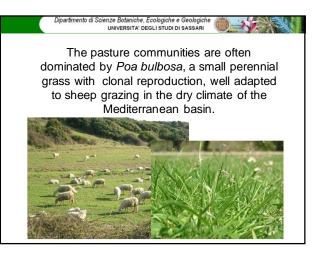
















o di Scienze Botaniche, Ecologiche e Geologiche UNIVERSITA' DEGLI STUDI DI SASSARI

Content

- o Introduction to Sardinia
- o Changes in land use and demography
- o Pasture types
- Case-study: Abandonment of the hillymontane sheep pastures and wooded pastures
- o Management, Conservation and Restoration

mento di Scienze Botaniche, Ecologiche e Geologiche UNIVERSITA' DEGLI STUDI DI SASSARI

Abandonment

Severe negative effects on biodiversity and landscapes due to abandonment of traditional/extensive production systems - High Nature Value farming systems - in certain areas of particular conservation value (Peco et al. 2005; 2006).

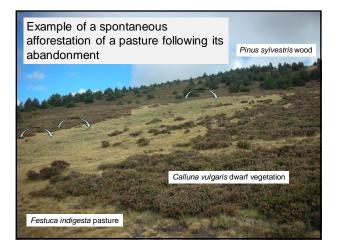
28 out of 198 (14%) listed habitat types of the EU Habitat Directive (European Commission, 1992) - threatened due to the cessation of traditional low-intensity agricultural practices (Ostermann, 1998).

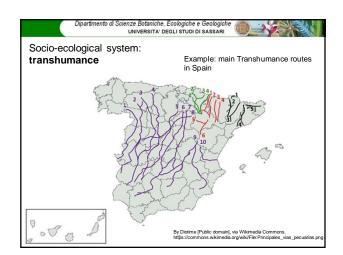
nento di Scienze Botaniche, Ecologiche e Geologiche UNIVERSITA' DEGLI STUDI DI SASSARI

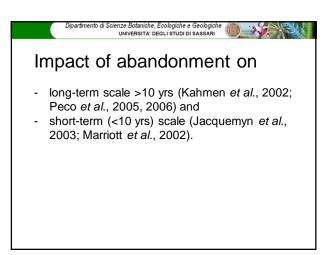
 Western Mediterranean plant communities are adapted to the continuous treading and fertilization of sheep stock

1

- Composed of small-sized therophytes, geophytes, and hemicriptophytes, included in the phytosociological class of *Poetea bulbosae*
- Are characterized by high species richness
- Recognized as a major habitat for biodiversity conservation within the EU,
- Designated as 6220*- Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea* in the EU Habitat Directive 43/92/EEC.

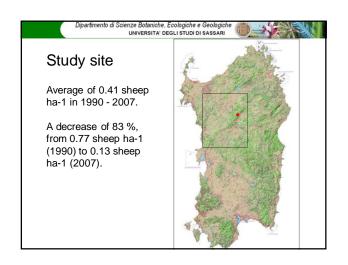


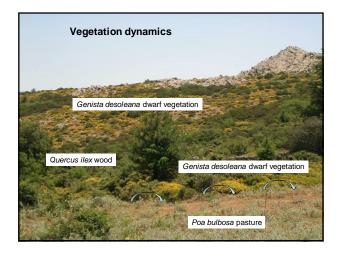


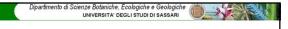




3) composition of microbial community





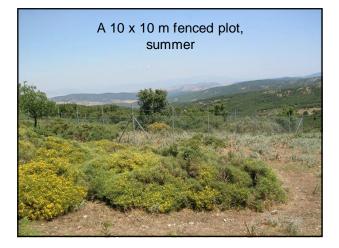


Experiment

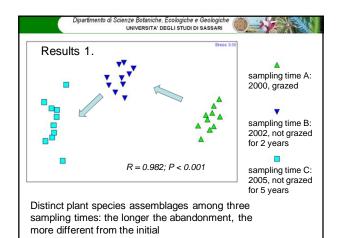
- in July 2000, grazing excluded

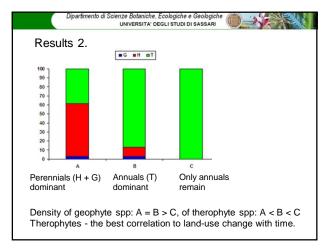
- during 2000 – 2005, 10 fenced 10 x 10 m randomly located permanent plots grazed on average by 0.23 sheep ha-1 Monitoring:

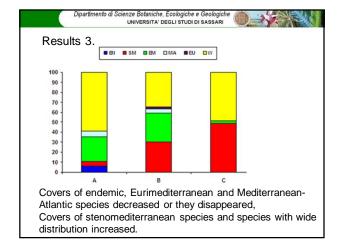
- June 2000, before the fencing (sampling time A),
- June 2002 (sampling time B),
- July 2005 (sampling time C).

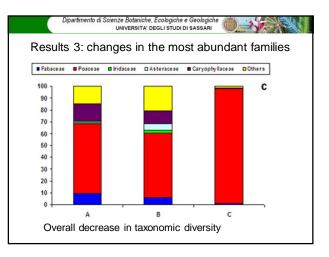


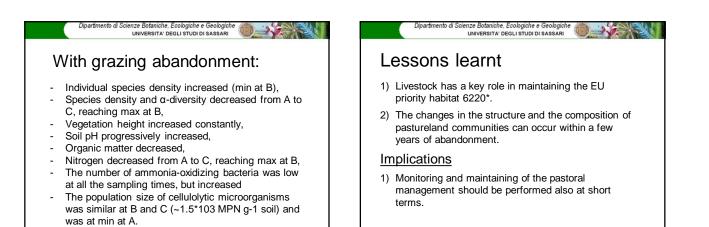




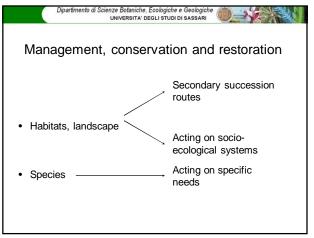


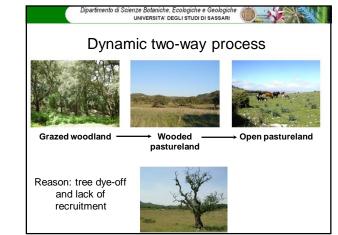


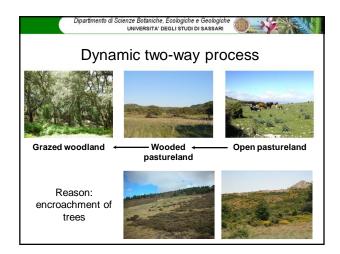


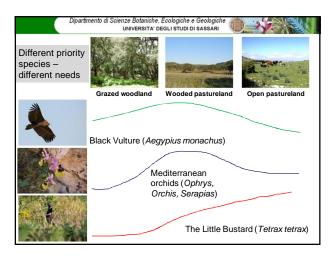


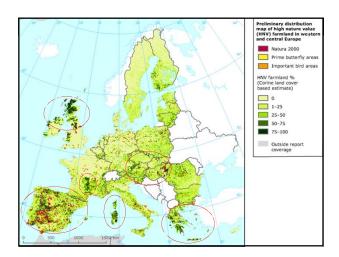


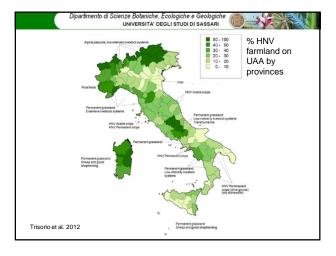














species richness and abundance overall but... results vary between taxa, spatial-temporal scales, land uses, landforms, and climate.

•

•

There is no "one-size-fits-all" conservation approach; ٠ conservation policies should strive to increase awareness of the heterogeneity and the potential trade-offs after abandonment.

Plieninger, T. et al. (2014) PLOS; https://doi.org/10.1371/journal.pone.0098355