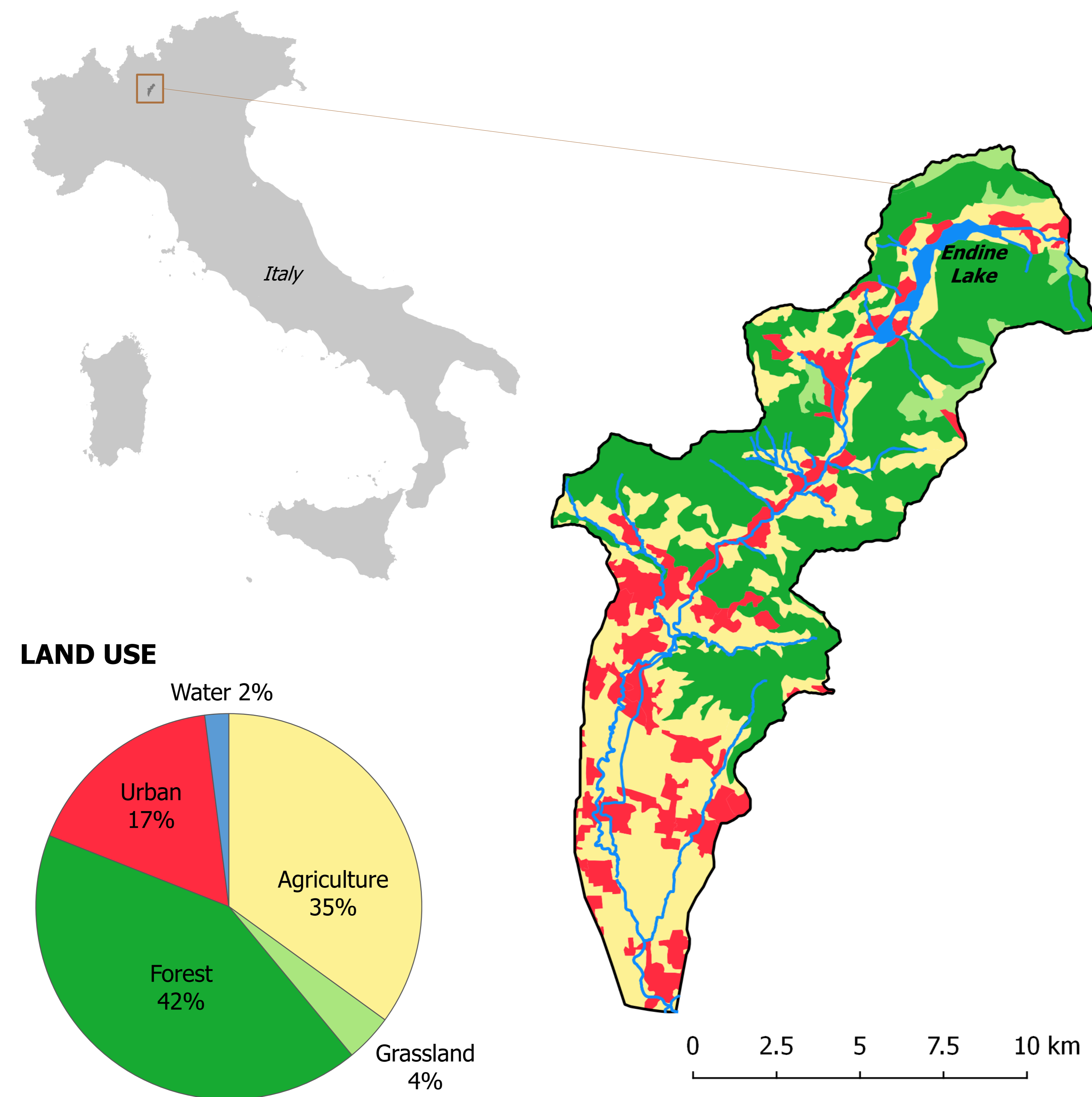


UMIL STUDY SITE: CHERIO RIVER BASIN

Federica Monaco, Chiara Mazzocchi, Daniele Masseroni, Claudio Gandolfi, Guido Sali

LOCATION & LANDUSE



GENERAL INFORMATION & PROBLEMS

- Catchment area: 153 km²
- Elevation range: 1380 – 142 m a.s.l.
- Continental climate with annual precipitation around 840 mm
- Agriculture is the dominant land use in the plain area
- Dense network of canals with irrigation and drainage purpose
- Increasing occurrence of severe droughts and extreme rainfall events, leading to floods in both urban and agricultural areas
- Endine Lake and streams downwards suffer from water pollution of urban (P, bacteria), riverside vegetation and agricultural origin (N) → navigation and swimming warnings, poor chemical and ecological status, natural habitats deterioration



▷ Water pollution



Overflows, floods and natural bank erosion ◁



▷ Droughts and low water levels, especially in the summer period

EXISTING NATURAL/SMALL RETENTION MEASURES



▷ Flood retention basins and water storage reservoirs (eventually coupled with remediation systems)

Stabilisation of natural banks, creation and development of riparian buffers ◁



▷ Re-meandering

Agronomic solutions (e.g. cover crops, here *Vicia Villosa*) ◁



STAKEHOLDERS

Participation already confirmed via support letters



Regione Lombardia

▷ Regional government - DG Territory and Civil protection, Soil Protection Unit



▷ Local Reclamation Board operating in the case study area

Local farmers and their associations, supra-regional, regional and local agencies in the field of water management, soil protection and agricultural policies are encouraged to share their experience