



AperTO - Archivio Istituzionale Open Access dell'Università di Torino

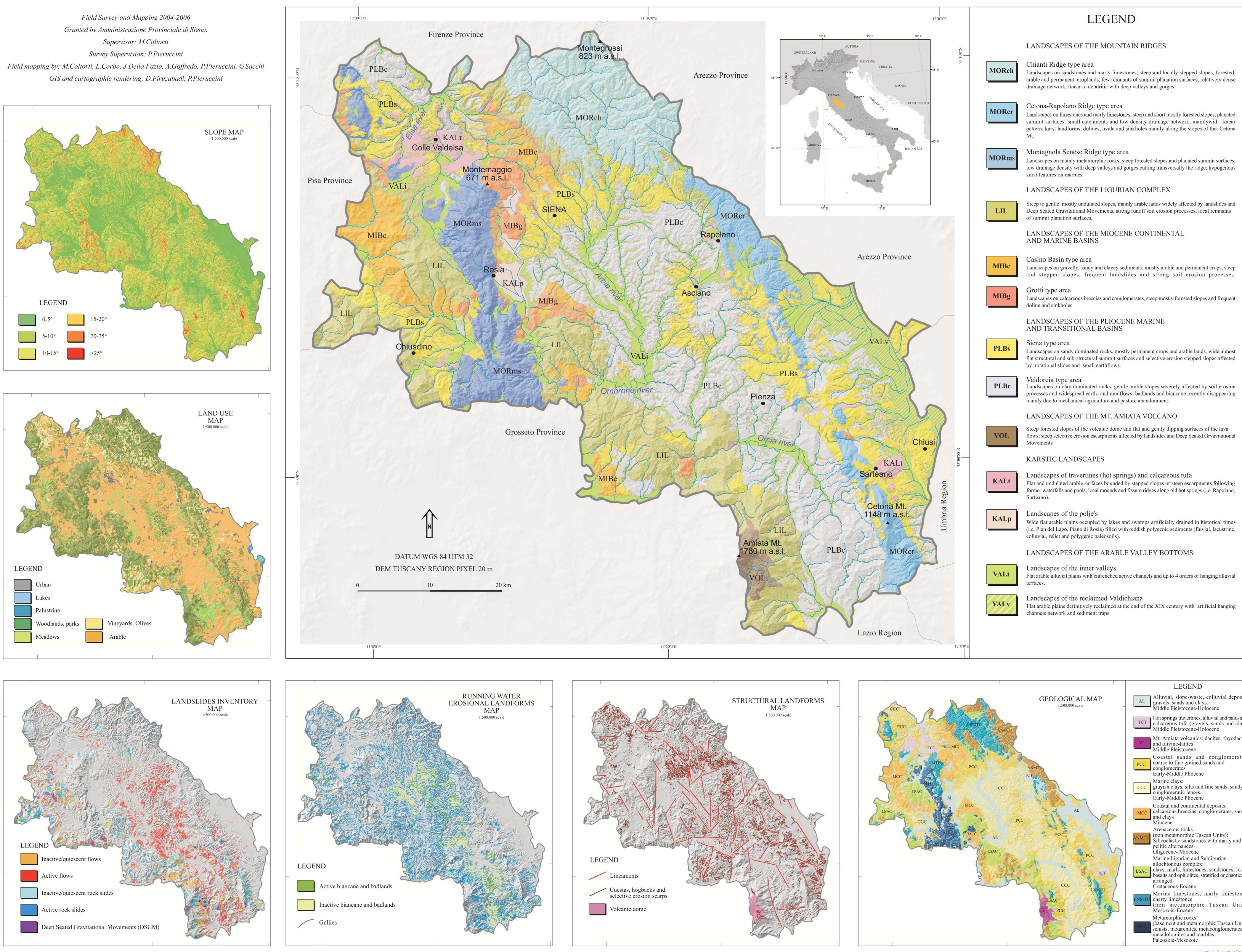
# Geomorphological map and land units at 1:200,000 scale of the Siena province (Southern Tuscany, Italy)

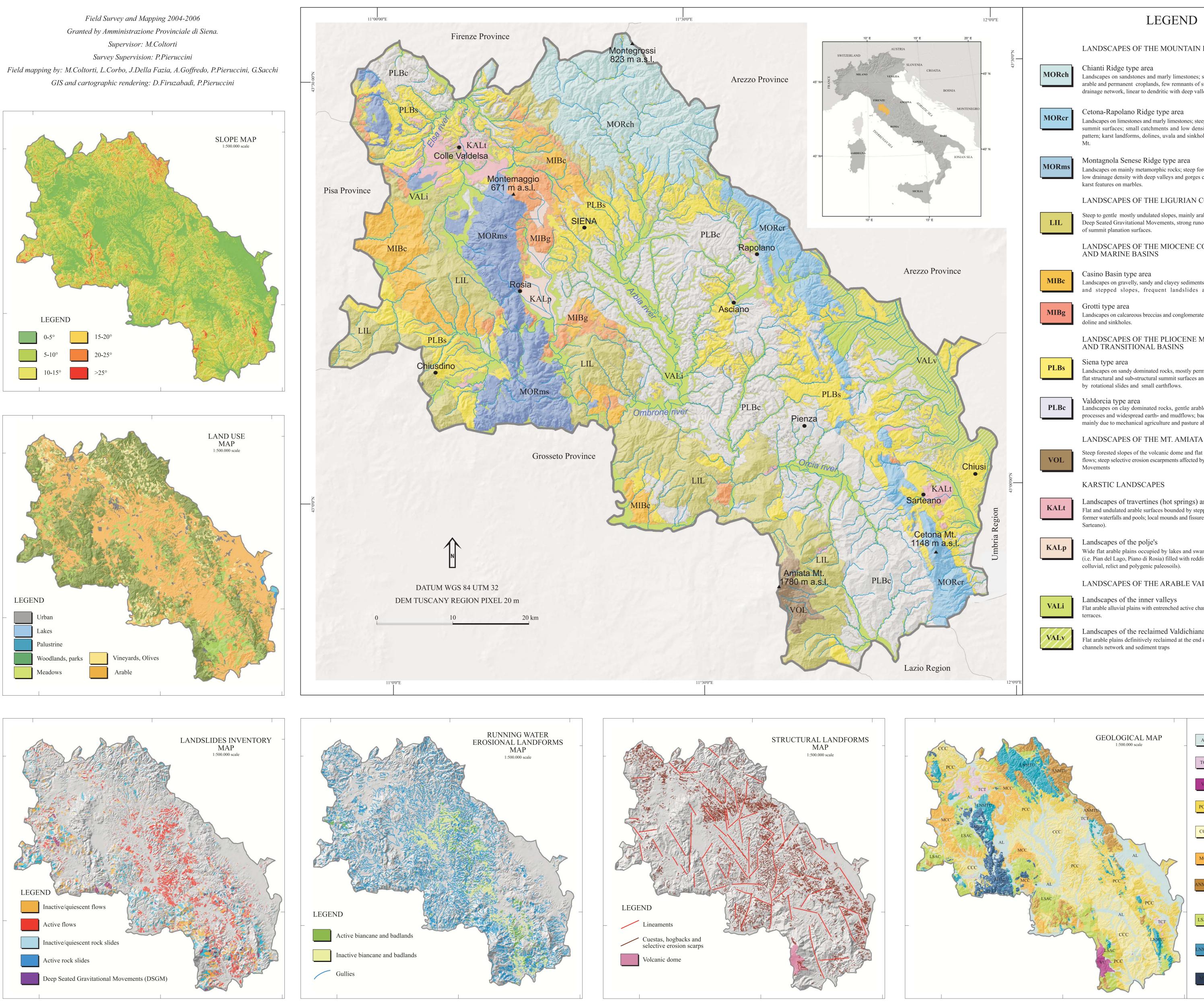
# This is the author's manuscript Original Citation: Availability: This version is available http://hdl.handle.net/2318/1661898 since 2018-03-11T22:47:04Z Published version: DOI:10.4113/jom.2011.1193 Terms of use: Open Access Anyone can freely access the full text of works made available as "Open Access". Works made available under a Creative Commons license can be used according to the terms and conditions of said license. Use of all other works requires consent of the right holder (author or publisher) if not exempted from copyright protection by the applicable law.

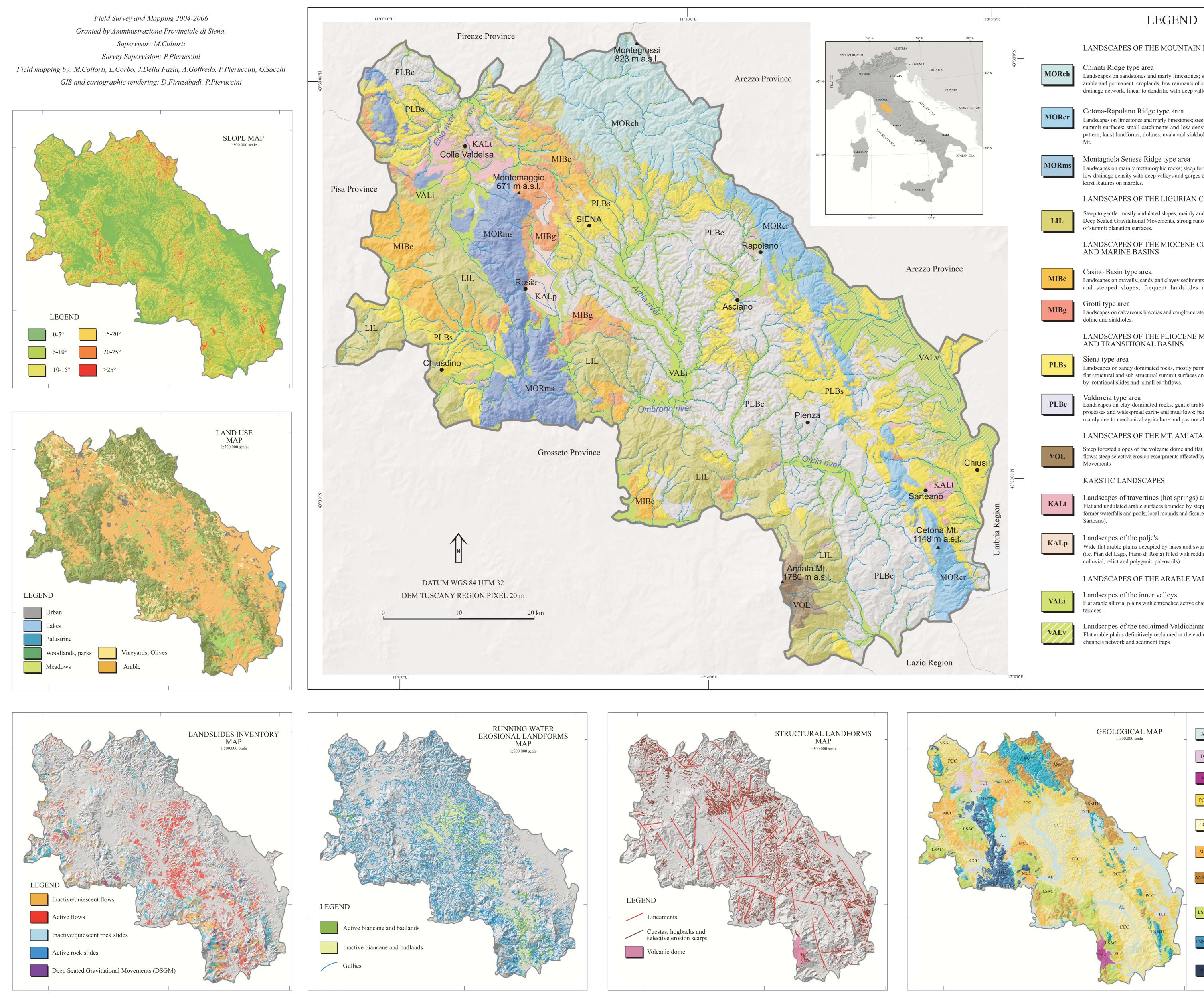
(Article begins on next page)



Field Survey and Mapping 2004-2006 Granted by Amministrazione Provinciale di Siena. Supervisor: M.Coltorti Survey Supervision: P.Pieruccini







# **GEOMORPHOLOGICAL MAP AND LAND UNITS AT 1:200.000 SCALE OF THE SIENA PROVINCE (SOUTHERN TUSCANY, ITALY)**

MAURO COLTORTI, DARIO FIRUZABADI', PIERLUIGI PIERUCCINI

Dipartimento di Scienze della Terra, Università di Siena - Via Laterina 8 53100 SIENA Italy

## LEGEND Alluvial, slope-waste, colluvial deposits: gravels, sands and clays. Middle Pleistocene-Holocene TCT Hot springs travertines, alluvial and palustrine calcareous tufa (gravels, sands and clays) Middle Pleistocene-Holocene It. Amiata volcanics: dacites, rhyodacites and olivine-latites Middle Pleistocene Coastal sands and conglomerates: PCC coarse to fine grained sands and conglomerates Early-Middle Pliocene \_ Marine clays: CCC grayish clays, silts and fine sands, sandy or conglomeratic lenses. Early-Middle Pliocene Coastal and continental deposits: MCC calcareous breccias, conglomerates, sands and clays Miocene Arenaceous rocks (non metamorphic Tuscan Units): Silicoclastic sandstones with marly and pelitic alternances. Oligocene- Miocene Marine Ligurian and Subligurian allochtonous complex: SAC clays, marls, limestones, sandstones, local basalts and ophiolites, stratified or chaotically arranged. Cretaceous-Eocene Marine limestones, marly limestones, cherty limestones (non metamorphic Tuscan Units) Mesozoic-Eocene Metamorphic rocks (basement and metamorphic Tuscan Units): schists, metarenites, metaconglomerates, netadolomites and marbles. Paleozoic-Mesozoic Contact: Pierluigi Pieruccini pieruccini@unisi.it