



Nature and society facing the Anthropocene  
challenges and perspectives  
for landscape ecology

## SHORT COURSE

WEDNESDAY JULY 3<sup>rd</sup> 2019

Università degli Studi di Milano-Bicocca

### **GIS with single oblique (historical) photographs: introduction to the WSL Monoplotting Tool**

#### Course presentation

In recent years we developed at WSL a tool for georeferencing ordinary, single oblique photographs so as to allow using them as georeferenced maps. The basic requirements that have to be fed into the system are the digital version of the historical picture, the DEM of the depicted landscape, and the real-world coordinates of a suitable number of control points unambiguously recognizable on the picture.

The tool consists of a user-friendly and self-explanatory interface enabling a simultaneous visualization of different photographs and related maps, orthophotos or other cartographic support of the corresponding landscape. The camera calibration routine, including the reconstruction of the original snapshot point, is semi-automatic and computer assisted while the drawing and measurement of different features (polygons, lines, heights etc.) can be directly performed on the oblique photographs. Export–import routines allow the data exchange (e.g., shapefiles) with conventional geographic information systems.

Once calibrated, the system returns an error estimation for each calculated points on the oblique photograph.

The course focus on the monoplotting tool developed by WSL's research group, instructing the participants to the usage of the software through the practice of concrete examples.

More info on the WSL Monoplotting tool at [www.wsl.ch/monoplotting](http://www.wsl.ch/monoplotting)

#### Time

To be confirmed

#### Number of participants

Minimum 10, maximum 40

#### Cost per participant

€ 30.00

#### Info & Contacts

For **specific information regarding the contents of the course** please contact Claudio Bozzini [Claudio.bozzini@wsl.ch](mailto:Claudio.bozzini@wsl.ch)

For **information regarding the course registration** please contact Luisa Bacchetta [luisa.bacchetta@unimib.it](mailto:luisa.bacchetta@unimib.it)



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## Detail of organizer(s)

### Responsible

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