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## Geodatabases and landslide hazard evaluation

## in the Valle d'Aosta Region (NW-Italy)

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For a best landslide risk assessment of the Valle d'Aosta Region (NW-Italy) Region, a new landslide inventory has been completed, combining field and remote-sensing surveys and historical data analysis. As a first step in defining hazard-prone areas, multitemporal aerial photointerpretations have been conducted over the Region for geomorphological mapping of landslide-related features at 1:10,000 in scale.

Data have been compared to the up to date geostructural and lithological information from the regional geological mapping project. More detailed local field studies have been conducted in selected localities for identifying processes and factors related to major present-day natural instability phenomena. Historical data from regional and local archives has been collected to provide information on the temporal occurrence of hazardous phenomena. Data collection has been organized in a GIS in order to fulfill the rising demand for protection from natural disaster in highly built-up areas.