



### Project title

**Relationship between slope instability and anthropogenic conditioned environments for a more effective land management and risk mitigation**

### Proposer

Surname	Zucca
Name	Francesco

### Research Unit

Surname	Name	Institution
Giordan	Daniele	CNR-IRPI Torino

### 5. Abstract

Human activities brought about significant changes in landscape and environment. The deep influences of the human behavior on the planet was largely debated by scientific community, and a new geological epoch “Antropocene” has been defined. The impact of human activity on geo-hydrological risks is a relevant issue. Landslide activity is deeply related to landscape and environmental modifications, and can cause damage and loss of life in many cases. By the use of Multi Temporal Interferometry (MTI) techniques and Light Detection and Ranging (LiDAR) technique, should be possible analyse the relationships between human-made environment and slope instability, in different geographic and physiographic contexts. Deep seated Gravitational Slope Deformations (DsGSD) characterize high mountain regions and have impacts on human activities. Often the limited movement rate caused an underestimation of potential effects of DsGSD on human activities and increased the elements at risk. Now a new definition of the state of activity of DsGSD and their evolution is needed to define a better relationship between these natural processes and anthropogenic actions.