

## Institutional agreement within the ALCOTRA RISK – ACT Project

### Development of studies and research dedicated to rock fall aspects and related territorial protection works within the RISK-ACT project

The activities covered by this Agreement fall within the scope of **WP 3 (Creation of a network of cross-border pilot sites) of the ALCOTRA RISK-ACT project (No. 4980) "Exemplary resilience actions of cross-border territories to deal with natural risks in the mountains"**.

The main objective of the agreement is the development of **new methods of analysis of natural and reinforced earth embankments and parallel curtains of network barriers** such as passive protection works for falling boulders.

In particular, in order to achieve the objective of the agreement, the activities envisaged are the following:

- Study and methods for the design of reinforced and natural earth guards
- Assessment of material degradation on the behaviour of ground and reinforced ground guards
- Data sheet for the census of works and assessment of the conservation status of surveyed paramaxles in natural and reinforced earth
- Instructions on maintenance over time and following the impact of detected natural and reinforced earth guards
- Application of analysis methodologies of natural and reinforced earthen handrail measurements to the case studies identified
- Assessment of the dissipative capacity of parallel supports of grid-mounted barrier guards

#### AGREEMENT DURATION

18 months  
(from 01/01/2021 to 30/06/2022)

#### STAKEHOLDERS

- Regione Autonoma Valle d'Aosta
- Politecnico di Torino - DIATI

#### BUDGET

Fundings from Regione Autonoma Valle d'Aosta: **100.000 €**

#### DETAILS OF THE COLLABORATION

The specific information and knowledge that the Geological Service of Regione Autonoma Valle d'Aosta possesses will be combined with the knowledge and expertise of Politecnico di Torino in the analysis and resolution of complex problems in close collaboration within a shared interest.

Scientific manager for DIATI:  
Prof. **Daniele Peila**



Collaboration Agreement  
between Public Administrations  
ex Art. 15, L. 241/1990