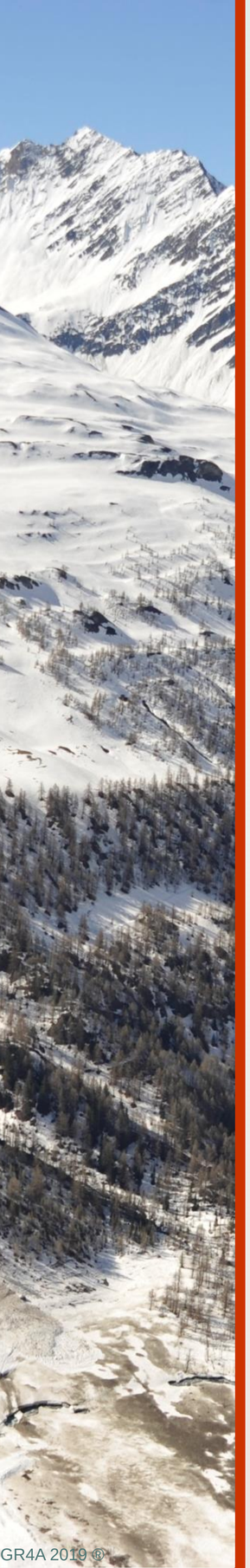


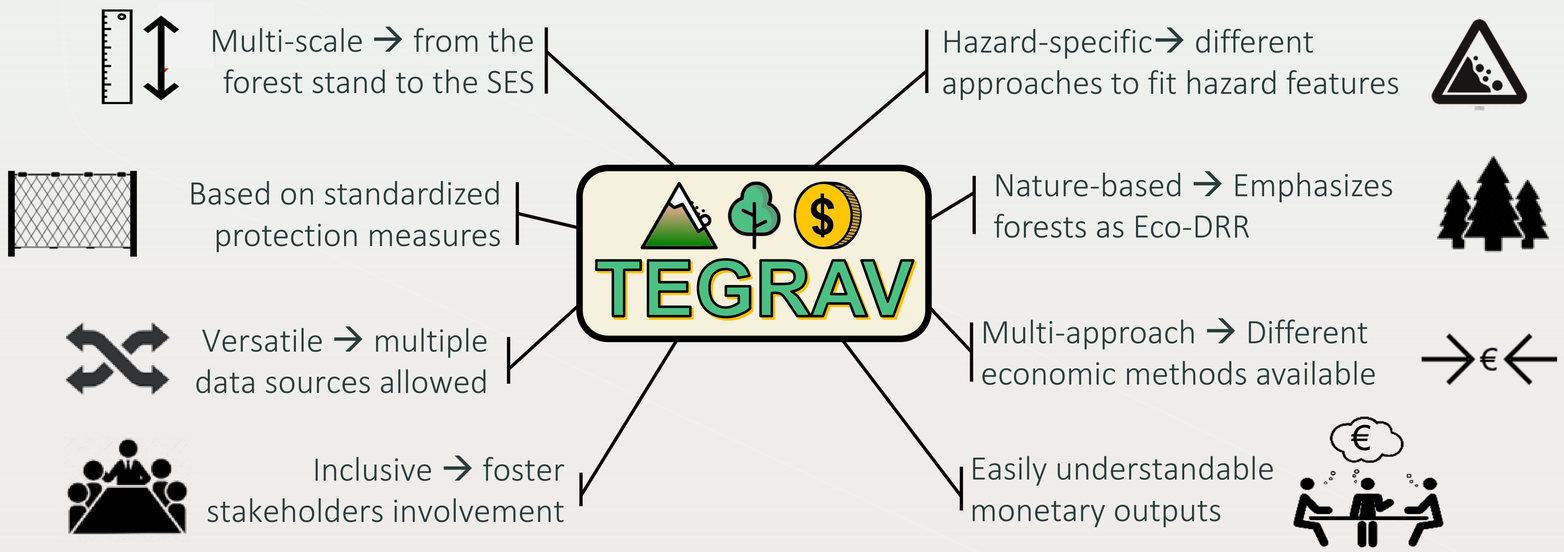
Investigating the role of alpine forests as Eco-DRR against gravitational hazards: *a socio-economic analysis*

GREEN RISK 4 ALPS

The TEGRAV (TEchnical, GReen and AVoidance measures) tool is an economic model assessing the most cost-effective and socially acceptable risk mitigation measures. It is being tested in 6 alpine case studies threatened by landslides, rockfall and/or avalanches, comparing the implementation of grey infrastructures, avoidance measures and/or Eco-DRR.

The main Eco-DRR considered are protection forests, valued with different economic methods:

- Discrete Choice for crowded areas with high touristic frequentation;
- Avoided Damages for economic hubs and/or main transport routes at risk;
- Replacement Cost for areas in standard risk conditions and low protection demand.



WORKFLOW

1. Analysis of hazards to model risks and locate exposed assets
2. Development of risk scenarios and related grey, green or avoidance mitigation measures
3. Assessment of cost, benefits and effectiveness of the measures (TEGRAV tool)
4. Results prioritisation with stakeholders to test their policy acceptance.

Interreg Alpine Space

European Regional Development Fund

EUROPEAN UNION

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GR4A 2019 ®