



## **Object Oriented Risk Analysis Workshop**

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In the framework of the Riset Project (Interfaculty Network of Support to Education and Technology) an educational tool for introducing risk analysis has been developed. This workshop enables to carry a group of students (role-play game) through a step-by-step process of risk identification and quantification.

The aim is to assess risk in a characteristic alpine village regarding natural hazards (rockfall, snow avalanche, flooding...) and is oriented to affected objects such as buildings, infrastructures... The workshop contains the following steps: 1.- Planning of the study and definition of stakeholders 2.- Hazard identification 3.- Risk analysis 4.- Risk assessment 5.- Proposition of mitigation measures 6- Risk management and cost-benefit analysis. During the process, information related to past events and useful concepts are provided in order to bring up discussion and decision making. The Risk Matrix and other graphical tools allow having a visual representation of the risk level and help to prioritize counter measures. At the end of the workshop, there is the possibility to compare the results between different groups and print out a summarizing report.

This approach provides a rapid and comprehensible risk evaluation. The workshop is accessible from the internet and will be used for educational purposes at bachelor and master level as well as for external persons dealing with risk analysis.