

This project will analyse what has been done in other countries on the field of risk related to terrorist attacks with explosives to civil buildings in order to identify methodologies and results of these studies to be implemented in a national and European prevention programme. To mitigate blast effects and increase safety it is necessary to consider all effects related to an explosion with a multi disciplinary approach by studying all the different aspects of a construction from structural and non-structural elements, internal and external layout, material used to all mechanical and electrical plants. It is therefore needed the simultaneous and coordinated effort of a number of highly specialized subjects such as engineers, and explosive experts to study the risk and countermeasures needed for structures as well as experts to evaluate the correlated NBC risk.

The aim of the project is to identify all risks related to an explosion and provide a number of practical measures to be implemented in existing building or implemented in the design phase to maximize the level of protection for people.

The project has the objective to start a process which has as final point the construction of buildings and infrastructures that can better withstand an explosion following a terrorist attack or even an accident.