

SenSE4Metro

Sensor-based Security and Emergency management system for underground Metro system during disaster events

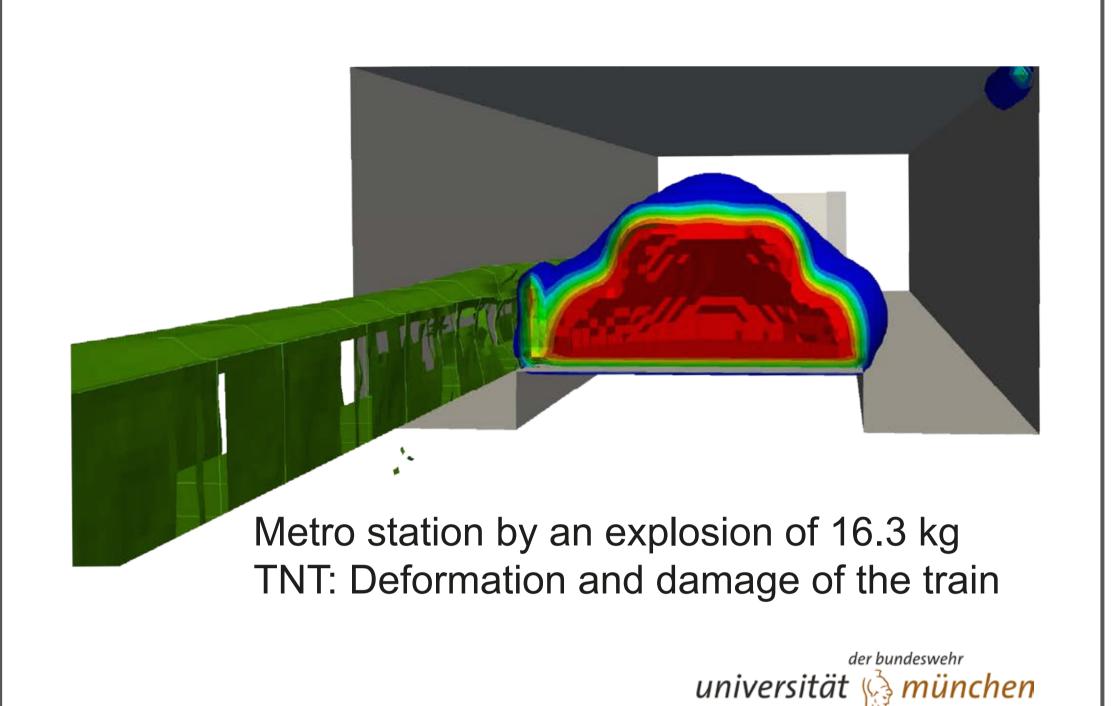
OBJECTIVES

To improve the security of persons in urban underground trains and underground stations in emergency situations and catastrophes, resulting from:

- terrorist attacks on underground trains and train stations
- natural disasters such as earthquakes and flooding

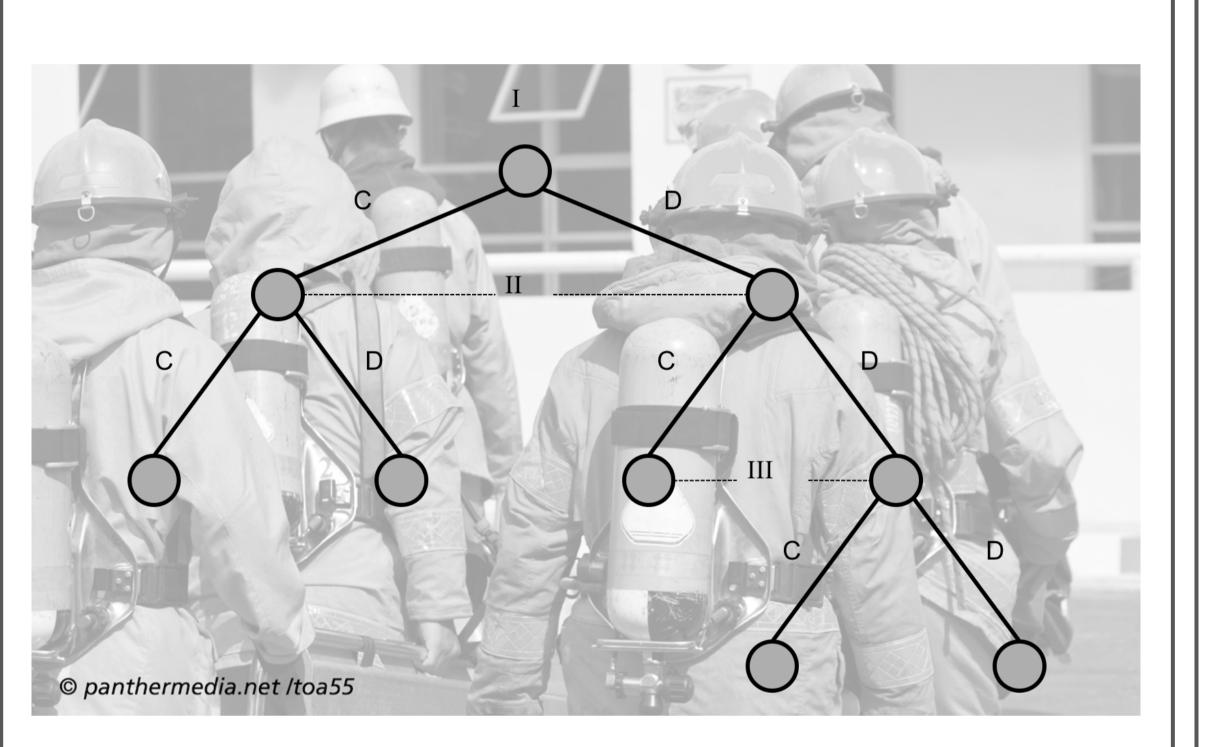
VULNERABILITY ANALYSIS

Vulnerability studies of real-life underground infrastructure and numerical analysis of these structures under extreme loads inform design solutions for reducing the vulnerability and increasing the security of persons in underground structures.



EXPERIMENTAL EXAMINATION

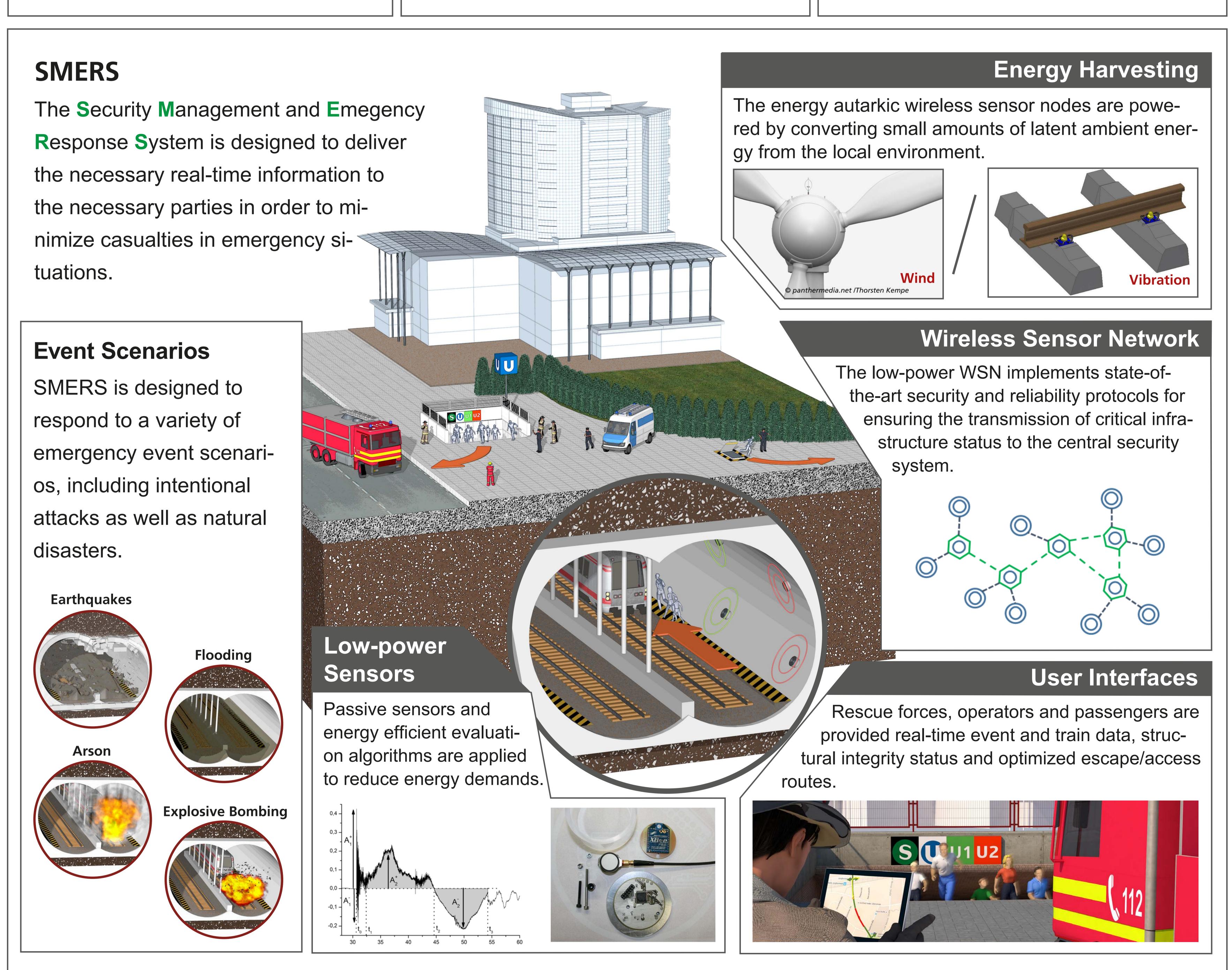
Laboratory-based behavioral games involving rescue forces and civilian groups assess the traits of altruism, cooperation and coordination in order to evaluate and improve rescue protocols and measures.



STUDIES OF SOCIAL BEHAVIOR

The cross-cultural evaluation of social behavior during past emergency events is used to develop better eventspecific communications strategies before and during extreme events.





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