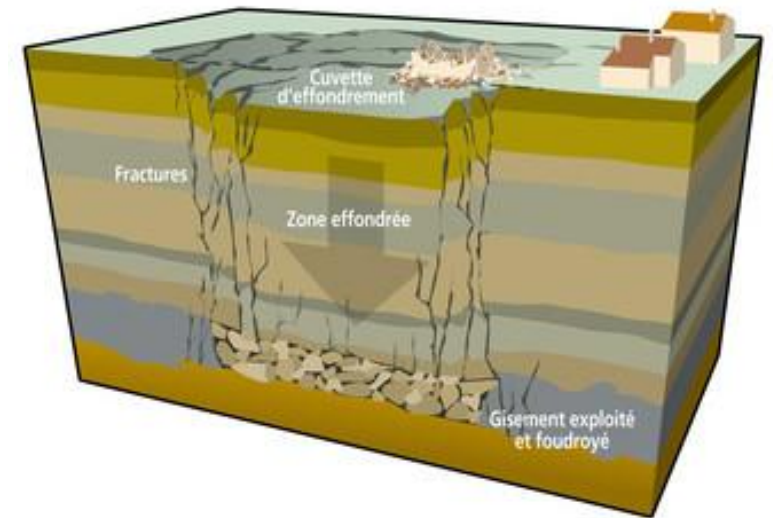


Contact point for this idea: Olivier DECK - Université de Lorraine - Olivier.Deck@univ-lorraine.fr

[Ground movement and risk assesment]

UPSCALING - MINING

- Objective: Development an innovative methodology to assess ground movements and risk for undermined cities.
 - **Original idea:** take into account **uncertainties** about both hazard and vulnerability
- Expected synergies and complementarities: cases studies from mining companies are expected to develop and validate the methodology.
- Outcomes: Development of a friendly user software
- Market & Business opportunities:
Opportunities during mining operations and post-mining risk assessment
- Partners already identified:
GeoRessources, INERIS
- Wanted additional partners :
Mining companies for cases studies

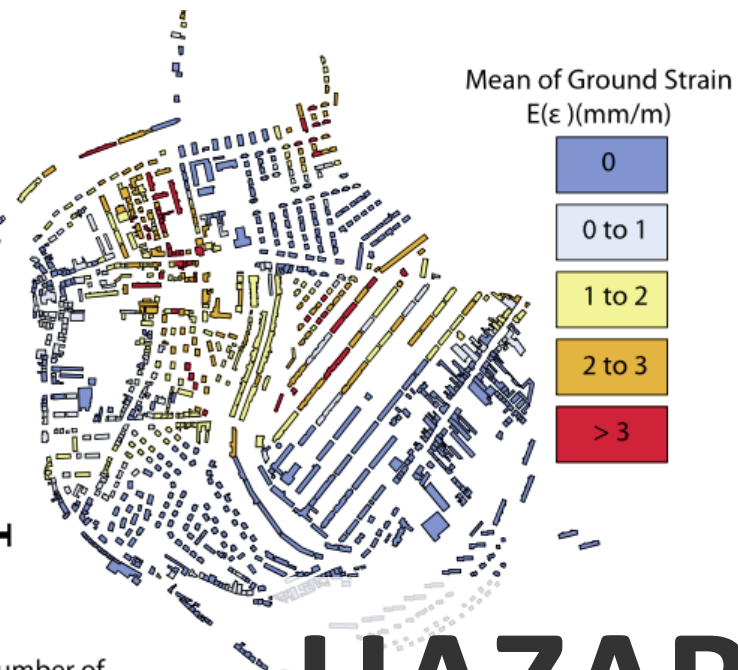
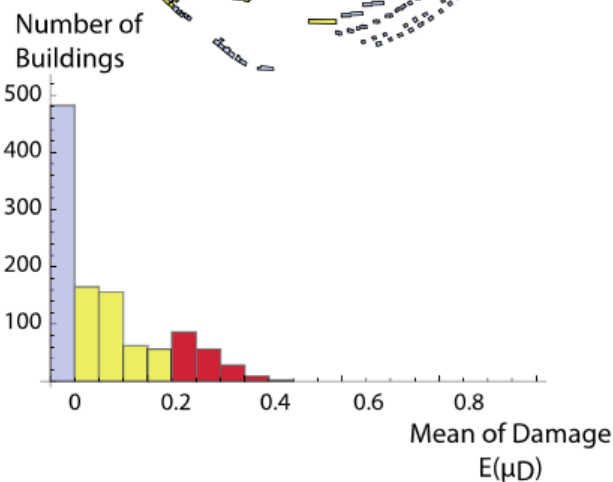
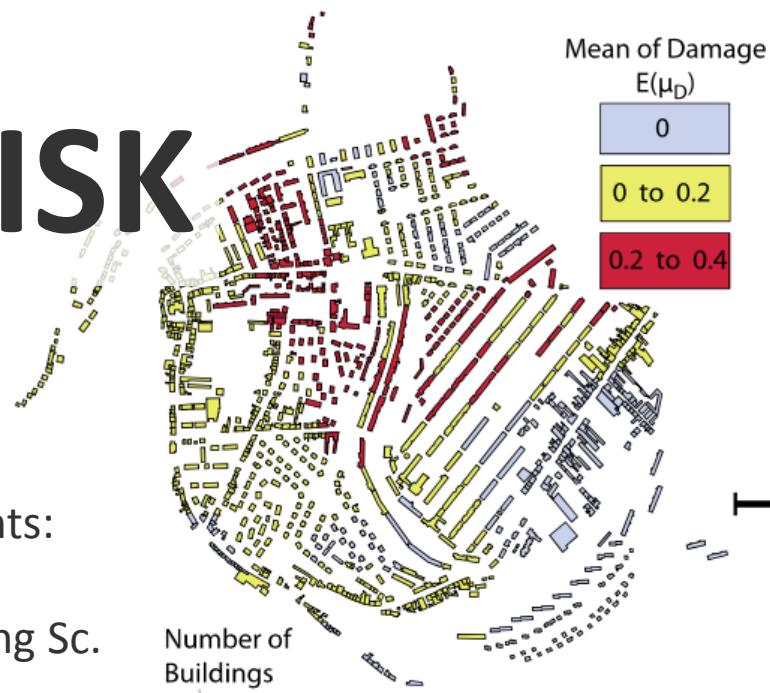




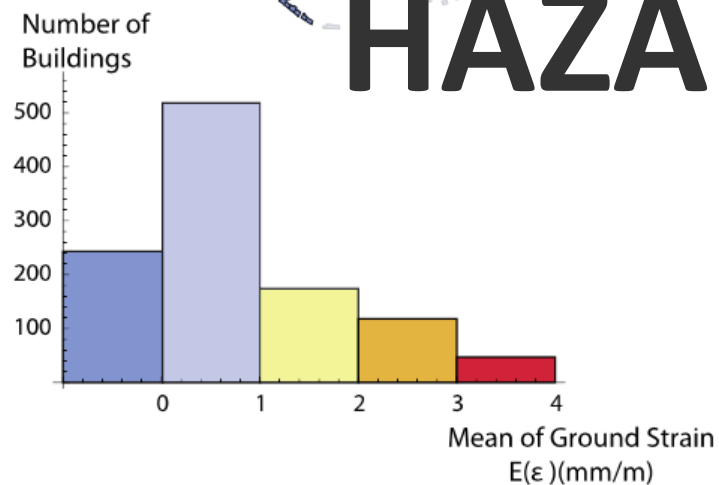
[Ground movement and risk assesment]

Operational maps and indicators of Risk and/or Hazard

RISK



HAZARD



Based on initial developments:

Int. J. of Rock Mech. & Mining Sc.
73 (2015) 42–53

