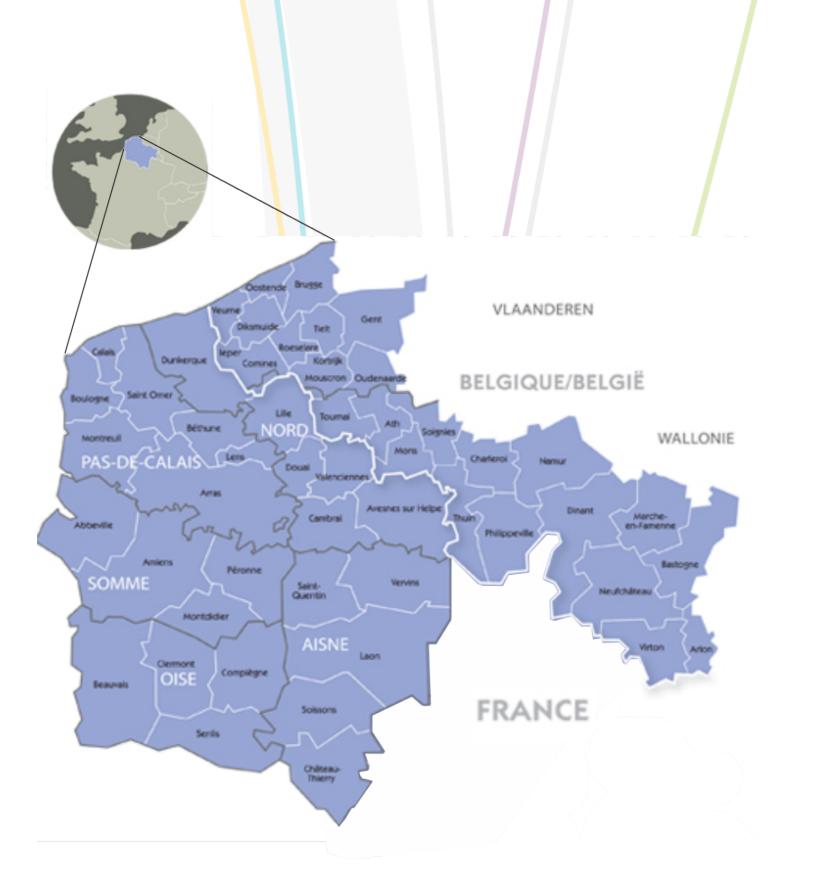


AVEC LE SOUTIEN DU FONDS EUROPÉEN DE DÉVELOPPEMENT RÉGIONAL



The RISSC Project

Towards a better management of cavity-related ground movements in Wallonia and Hauts-de-France Regions







Two regions, similar geologic context and industrial history

Similar underground objects (quarries, mines, karst, cavities) that are responsible for exposure to ground movement risks

The RISSC Project aims to help stakeholders to a better and more coordinate risk management on both territories.

How can it achieve its goal?

Through three technical work actions



information, ...).

Cross-border webportal mapping the known cavities

on both territories (work in progress)











A cross-border cooperation











MUNS

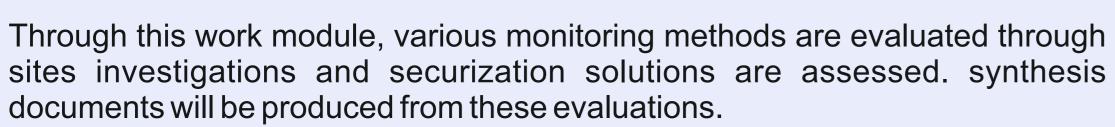
maîtriser le risque

pour un développement durable



SPW

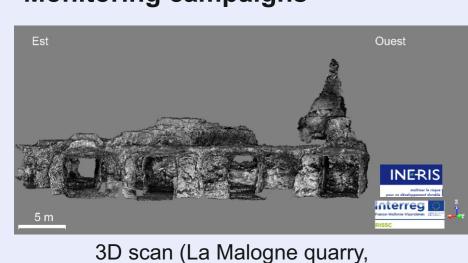




Monitoring methods evaluation

Test sites are being monitored with different methods:

- Monitoring campaigns





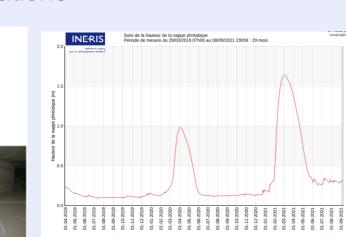
Photogrammetry model of a pilar (La Malogne quarry, Mons, BE)

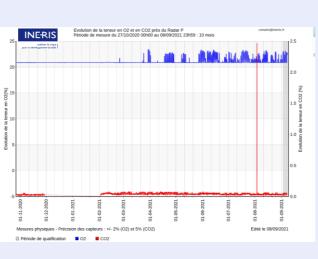
Permanent monitoring

Different types of measurement: Geotechnical, acoustic, groundwater-level, temperature, CO₂, O₂ concentrations









Water-level and CO₂, O₂ monitoring in the Hellemmes quarry (FR) - e-cenaris platform

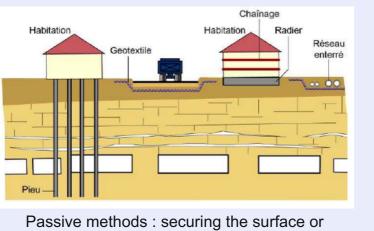
Solutions analysis

Radar and microphone as

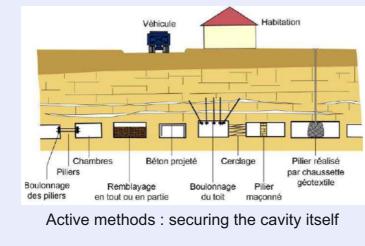
permanent monitoring devices in the

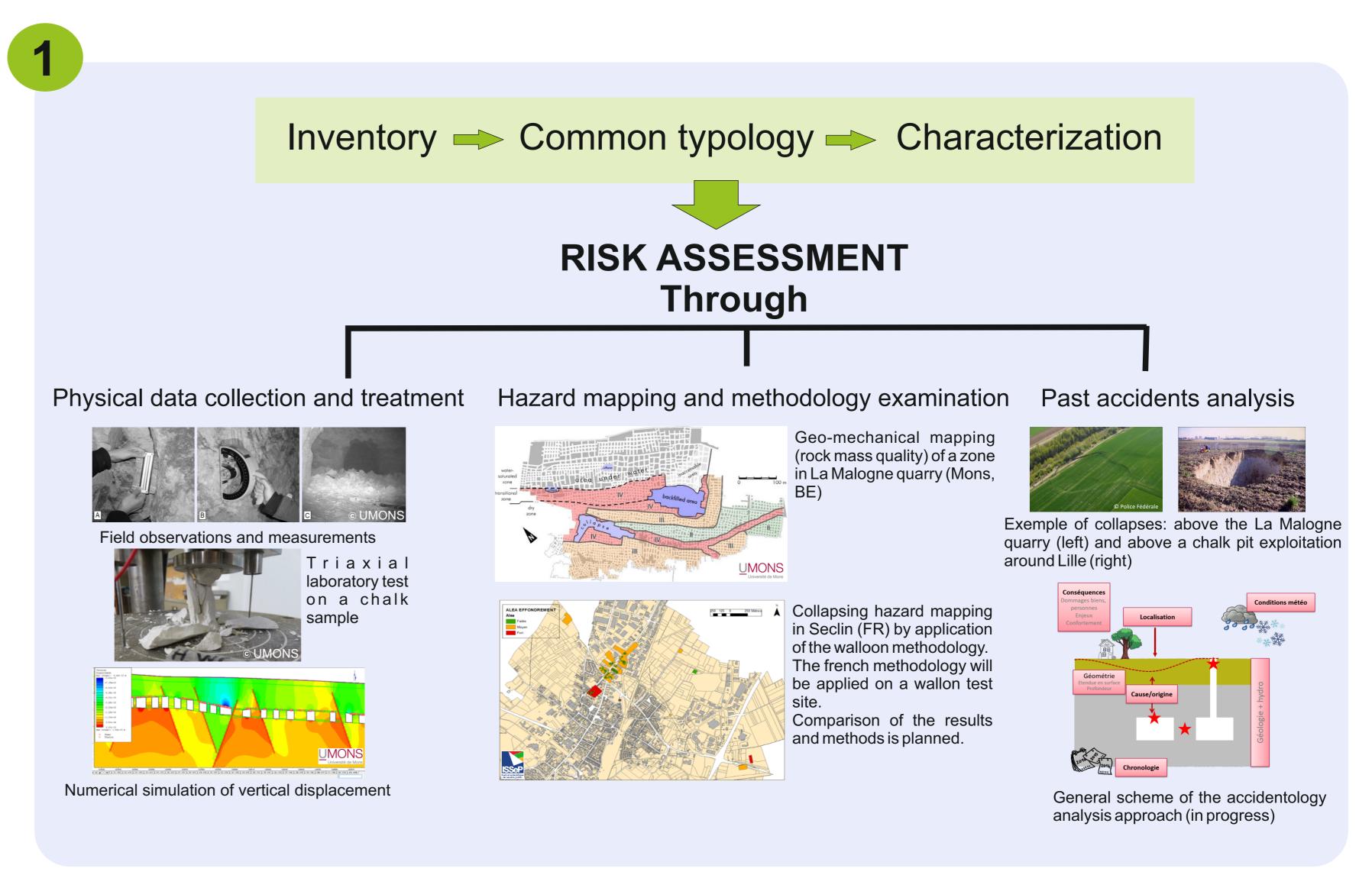
Hellemmes quarry (FR)

Various securization methods can be used in the different contexts of the two studied regions



subsurface infrastructures









The main objective of this action is to create an effective cross-border interaction between public services,

local authorities and actors, experts and population. Through the lessons learned from the various technical

works driven by the RISSC project, useful tools ought to be created (geo-portal, methodology guides, practical

Those tools will support the work of all the stakeholders implied in the cavity risk management. The latter will be



Best practice guides, information brochure, etc. will be edited as support tools for stakeholders (work in progress)