

1 DATA ACQUISITION



- Geostructural and geomechanical survey
- Multisensor aerial photogrammetric surveys (RGB-IRT)



2 LABORATORY ANALYSIS



ROCKS

- Uniaxial compressive strength
- Triaxial test
- Brazilian test
- Flexural strength test
- Tilt Test
- Point Load Test

SOILS

- Direct shear test
- Oedometer test
- Proctor test
- Grain size analysis
- Atterberg limits

3 HYDROGEOLOGICAL CHARACTERIZATION



- Groundwater monitoring
- Assessment of groundwater resources
- Contaminant transport modeling in aquifers



4 DATA PROCESSING



- Kinematic analysis
- 3D modeling
- Thermographic analysis and mapping
- Rockfall trajectory analysis
- Safety factor evaluation

