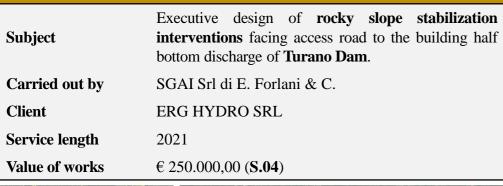
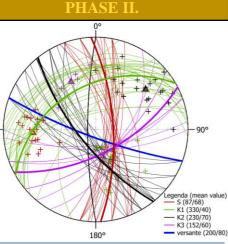
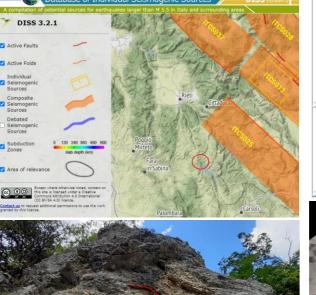
FEATURE OF TECHNICAL SERVICE

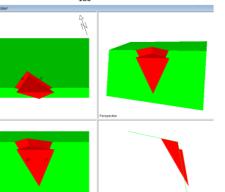


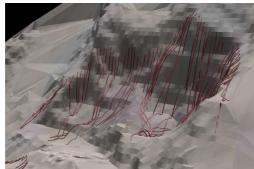
















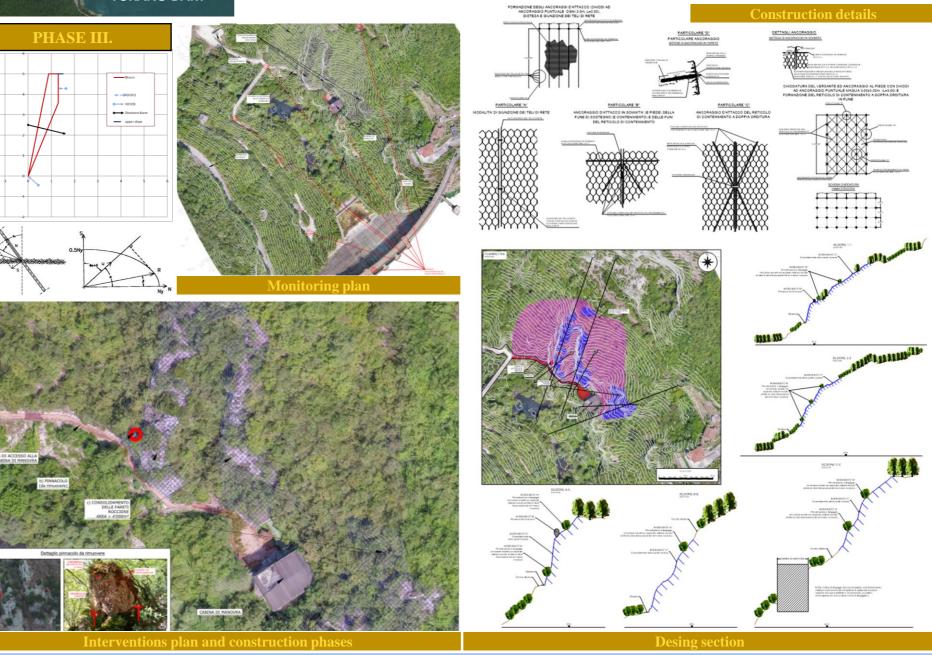
IETHODOLOGICAL APPROACH

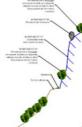
bank downstream of Turano Dam.

I Phase - Fact-finding part: collection of available data integrated with surveys, on-site and laboratory investigations, to create an exhaustive context for subsequent activities of risk evaluation and intervention design (geological, geomorphological, hydrogeological, hydrological and seismic framework and geomechanical survey of interest area).

II Phase - processing and interpretation data: from the survey is possible to reach the point cloud up to the reference ground model, from the geomechanical surveys the characterization of rock mass in terms of subsequent use for homogeneous areas (parametrization of the rock mass in interest area, geometric analysis and kinematics on rock walls, stability checks of rock slopes, rockfall trajectories analysis with fall simulations). III Phase - risk estimation and mitigation course: stability checks, rockfall trajectories analysis as basic data for the estimate. The risk is interpreted as a combination of the probability of adverse event occurrence (danger),

with the damage that it can cause. The designed consolidation system consists of: passive steel anchors, a row of nails to be fixed to the foot to provide support for the fragile rock material resting on the ductile material, a grid of steel ropes; double twisted wire mesh. The intervention will be carried out after having preliminarily scoured the entire slope by removing the unstable blocks and the vegetation with root system developed in the cracking of the rock mass. The safety operations will therefore be: exploration and rock removal activities, then the removal of the pinnacle and finally the consolidation of the rock walls. Periodic monitoring of the consolidation works is arranged to verify the efficiency of the work itself over time.









Risk analysis for rockfall and rocky slopes stability above access road and maneuvering cabin located on the right