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GEOTECHNICAL ENGINEERING

The section of C.E.R.I.S.I. dedicated to Geotechnical Engineering, in the national and international laboratory of excellence, is provided with all the equipment for standard testings, physical and mechanical soil characterization, but also with sophisticated equipment to perform tests under cyclic loading on large specimens, fundamental to characterize the mechanical response of the lands under seismic conditions.

The C.E.R.I.S.I. also has a vibrating table accompanied by a shearstack (a container that replicates the deformations of soil deposits when they are crossed by the seismic waves), currently the largest in Europe, for the execution of tests on scale models of works and geotechnical systems.

The activity of the laboratory of Geotechnical Engineering is closely related to the realization of works of civil engineering and land protection.

Therefore the main stakeholders of the structure are mainly companies and public administrations involved in the design and construction of major works. The experiences on potential orders using advanced equipment, once systematized, will be made available to the international scientific community.