FEATURE OF TEC	CHNICAL SERVICE	PONTE SAN GIORGIO QUAY - Design issues and their resolution	
Subject	Executive design for the consolidation of the Levante quay for deepening the seabed - Ponte San Giorgio.	The Ponte San Giorgio quay is located at the eastern front of the port of Genoa and a necessary to make the quay stable compatibly with the lowering of the seabed from stack of modestly sized boulders and already in the 90s a columnar treatment of jet is rods with steel strands were installed. The project in question involves the construction involves th	has m a t gr
Carried out by	SGAI Srl di E. Forlani & C.	columnar treatments with jet grouting. This solution will make it possible to reduce	e th
Client	INJECTOSOND for PORTS of GENOA	making the rear part similar to a rock mass capable of resisting the thrust of the g	rou,
Service length	2021	rocks. The analysis consists first of all in a global rebalancing of the system in	ord
Value of works	€ 9'409'000,00	calculation of the deformation behavior of the model as a function of its geometric out by retracing the various stages of execution of the work and determining the	, ph e. st
Categories value	V.02€1'675'337,89S.05€7'733,662,11	execution, together with its degree of overall stability. Upon completion of the intervention, the quay pavement will be rebuilt for a width of	of a
	Study area	Current quay Design quay	
	Genova Onenie		/





a length of 300 m. This project includes the consolidation works a depth of 11 to 14 m. The quay wall is currently made up of a couting was carried out at the base of the foundation boulder and ation of the embankment at the side of the existing quay through e horizontal thrust of the embankment close to the existing wall, and behind it. The analyzes were carried out with the Plaxis 2D ms according to various constitutive models relating to soils and er to reconstruct the initial stress state and subsequently in the hysical and mechanical peculiarities. The calculation was carried tate of deformation and stress of the structure in each stage of

pproximately 16.00 m.