

San Leone (CT) Railway Station

Exploded Axonometric

assets & services solutions

The GGH department is a centre of corporate excellence in innovation, making a major contribution to the promotion of state-of-the-art design solutions, with a focus on the sustainability of the proposed processes and solutions. Considerable effort is devoted to enhancing the know-how and tools for digitisation, risk analysis, works life cycle assessment and advanced numerical modelling. The main assets analysed are pre-existing and new tunnels, underground stations, major works of art and related hydrogeological risk mitigation, and works on infrastructure as a whole.

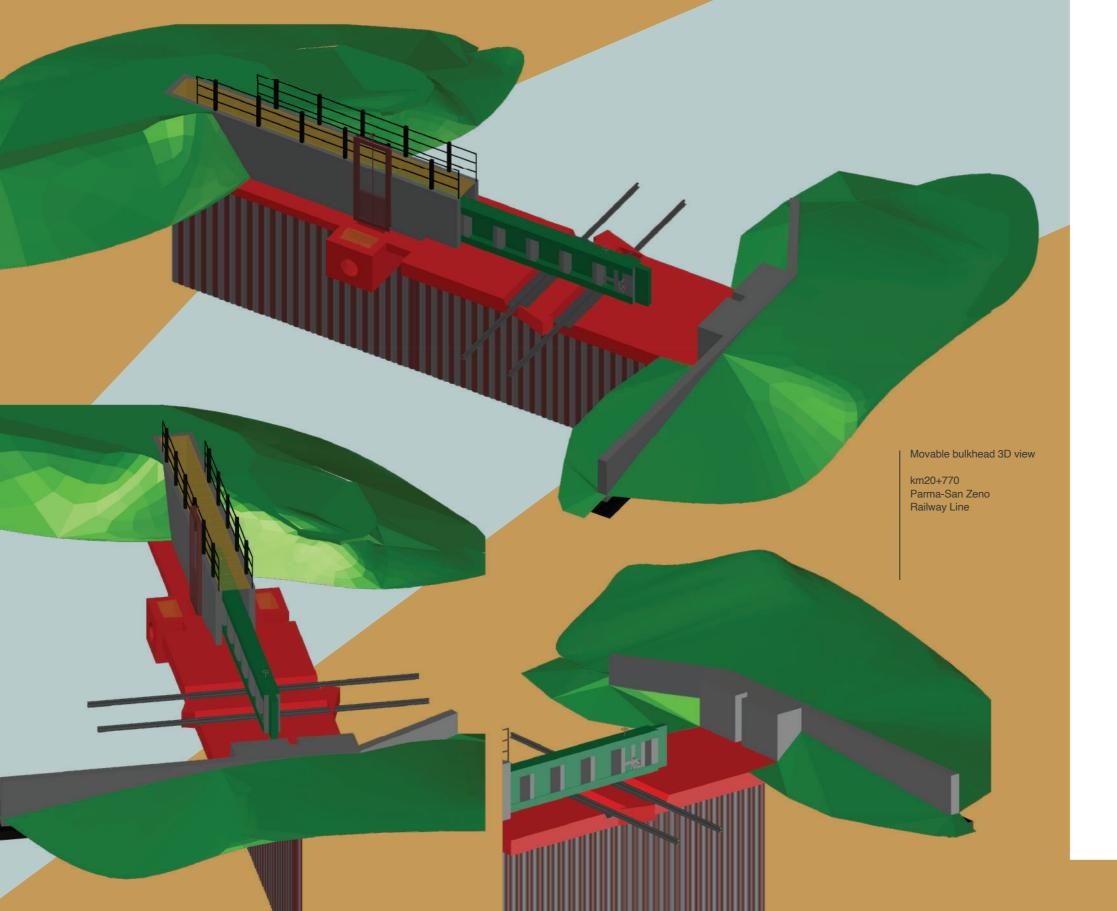


Section Railway Line Liguria (Italy)









The GGH Department carries out hydrogeological and climatic risk analysis and management with state-of-the-art technologies and processes, complemented by the company's Research & Development Department. Innovative methodologies and techniques make it possible to design solutions and management tools to manage complex multi-disciplines over time and on different scales. In the field of river flood risk management in proximity to railway lines, interventions become particularly complex and involve numerous factors of different levels and kinds, up to previously unseen design interventions, such as the design of the first moveable horizontal railway retaining wall in Italy, designed in correspondence with the right main embankment of the River Po, and the design of pier protection structures in the riverbed.