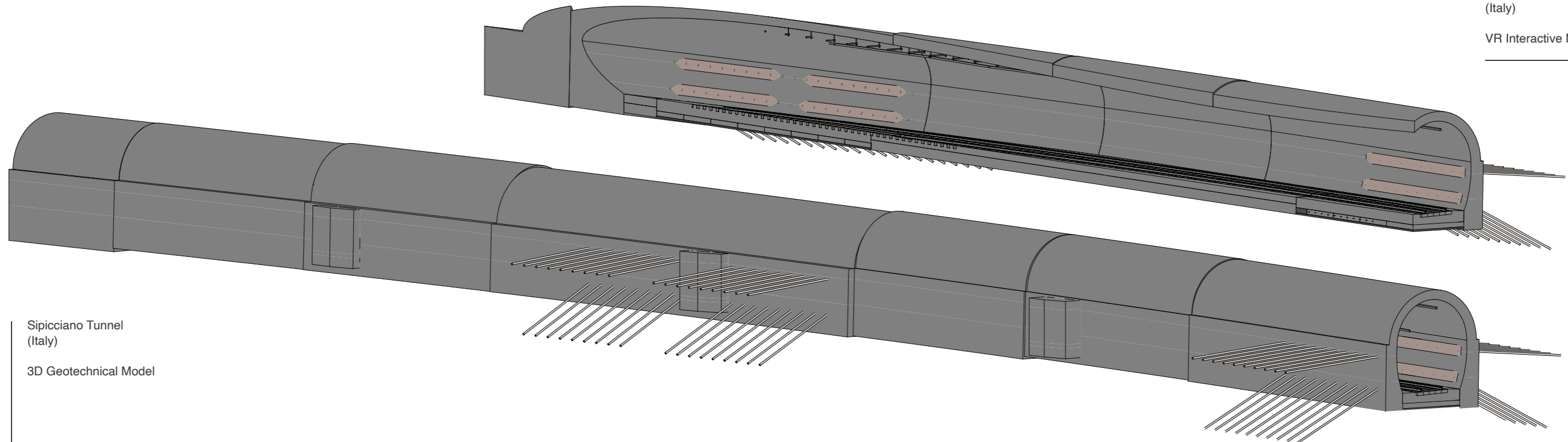
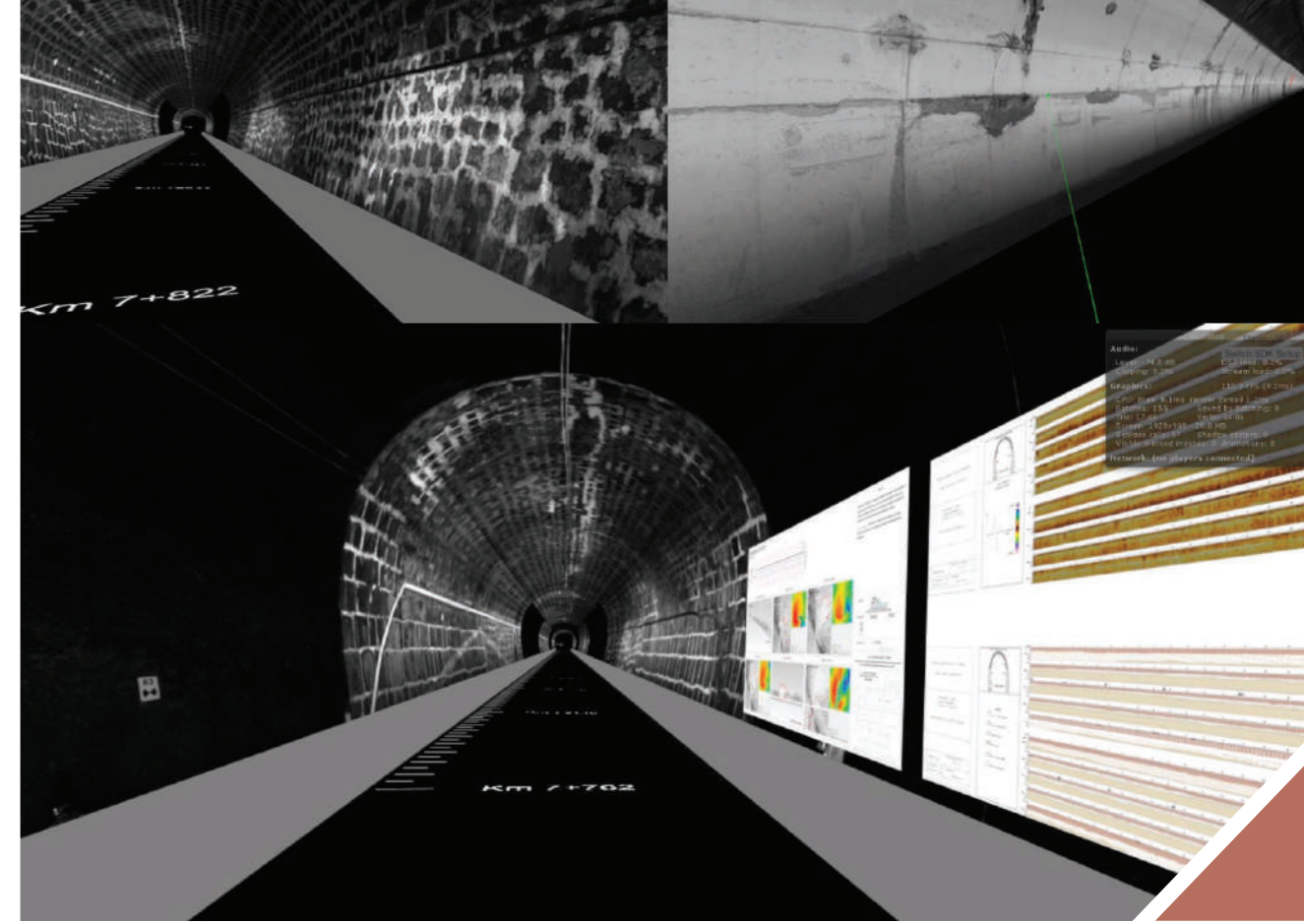


research & development

The Research & Development (R&D) Department defines the company's identity as a centre of innovation and has become a benchmark for the international technical-scientific community for digital transformation, sustainability and automation of analysis and management of existing infrastructures and territory. The team is made up of specialists from various social, technical and scientific fields, such as computer scientists, sociologists, mathematicians, engineers and geologists, as well as established collaborations with universities and partners in Italy and around the world. The strategic plan of the Research & Development Department's mission is to strike a balance between People, Profit and Planet, through the social benefit of infrastructure and territory. Innovation, multi-disciplines, computerisation and sustainability are the driving forces behind every internal and external process towards this goal.

Identification and management of infrastructure priorities and risk in a participatory, digital and automated environment. The mission consists of: Industrialisation of on-site activities and manual processes with state-of-the-art technology and artificial intelligence to automate technical and engineering expertise into algorithms, especially for diagnostics and the monitoring of bridges, tunnels and slopes. The digital transformation of inspection and asset management data with centralised computerisation, particularly for tunnels and hydrogeological instability mapping. Certified sustainability of technologies and processes developed in R&D with regard to the state of the art.



Sipicciano Tunnel
(Italy)

VR Interactive Model

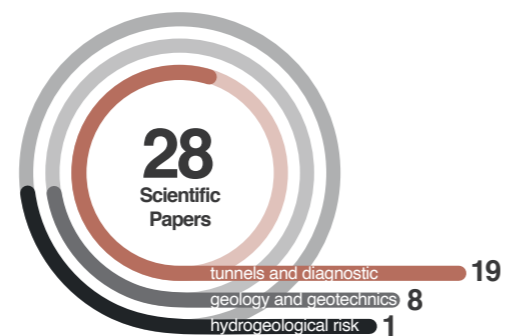
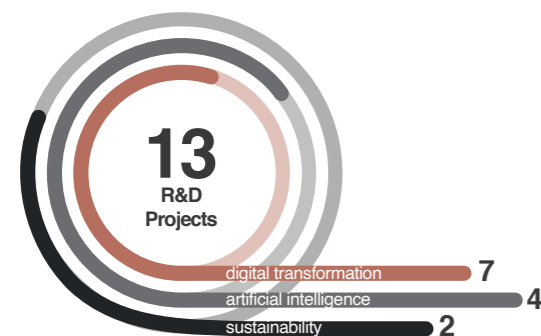
Sipicciano Tunnel
(Italy)
3D Geotechnical Model

solutions for the planet, contribution to the public

The Research & Development (R&D) Department has become a benchmark for the international technical-scientific community on the topics of digital transformation, sustainability and automation of analysis and management of existing infrastructures and territory. This is made possible by a series of established collaborations with Universities and Partners in Italy and around the world that represent excellence in the topics covered; the strong link with industry and the direct application of services/products; their active presence in technical tables, commissions and working groups on technical, managerial, environmental and social subjects; the many publications in prestigious Journals and Conferences; national and international recognition in the main events for professional categories.



Street Bridge
NY District
(USA)





We aim to be sustainability leaders in our Research & Development by anticipating, supporting and implementing global trends in analysis and certification. R&D services and products, as well as the entire supply chain involved, undergo continuous analysis and verification of ESG parameters, environmental goals (European Taxonomy) and UN Sustainable Development Goals (SDGs). We have reduced the impact of emissions, pollutants and resource use in the inspection, operation and maintenance of existing infrastructure between 5 and 10 times. We developed the first methodology for quantitative climate change risk analysis for infrastructure assets.

MIRETS
Slopes App
ETS Property