

LEONI *projectreport*

Cable installation planning 11/2016



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Gotthard Base Tunnel

Maximum efficiency in cable installation

The Gotthard Base Tunnel, a railway tunnel running under the Alps, is a milestone of modern engineering. At 57 km, Switzerland's "Project of the Century" has produced the longest railway tunnel in the world, which was officially opened mid-year 2016.

LEONI's business unit Building Technologies was commissioned with a wide range of planning and consulting work for this megaproject, including the design of models for logistics networks and cable insertion, the development and procurement of specialised multi-function vehicles, and the completion of multiple fire tests and medium-voltage measurements.

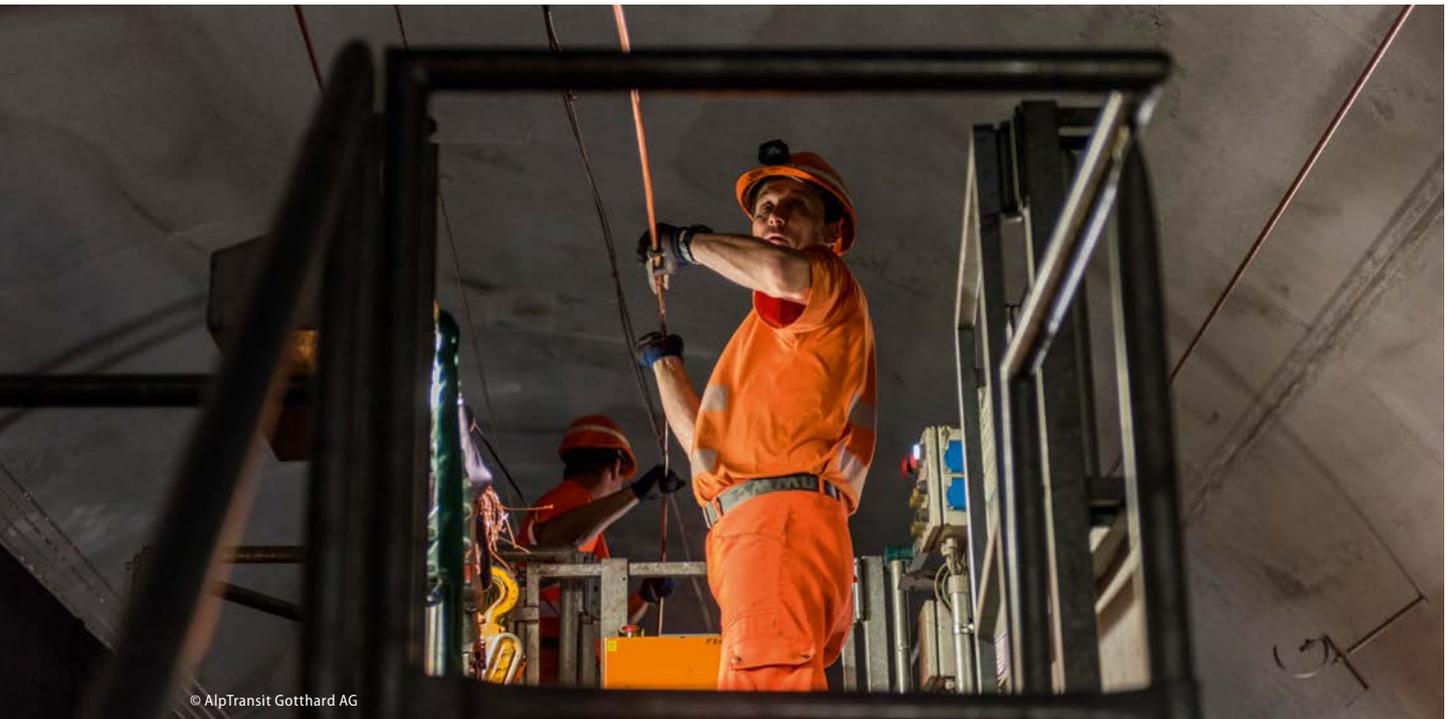
Apart from planning and consulting activities, the commission also included work directly on the tunnel itself. Accordingly, LEONI was responsible for managing the assembly of 12,000 cables and sleeves with cross-sections from 8 x 0.5 mm² to 4 x 240 mm², plus sorting by crossway, labelling and final delivery.

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LEONI also supplied the Gotthard Base Tunnel with 1,400 km of medium-voltage cable and 1,650 km of low-voltage cable. A total of about 4,000 tonnes of material in all, transported using over 200 rail wagons.

LEONI also set some new standards in areas such as planning, logistics and installation. Smart solutions such as standardised crossways, bulk assemblies, the new approaches in a project-specific routing model and the specification of the unique multi-purpose vehicles for cable insertion demonstrate the company's strengths as an innovator. With their integrated solution, the team at LEONI Studer AG have provided a masterclass in interdisciplinary project work.

This overall solution offered by LEONI's business unit Building Technologies was ultimately the reason for LEONI being awarded a contractor role for this project. Thanks to LEONI's interdisciplinary teamwork within the Group, several potential sources of external problems were avoided, with the resulting boost to efficiency also playing an appreciable role in the overall project.

Multi-function cable laying vehicle, developed in-house at LEONI

