

## Geology

### Tunnel Markovec

**Project type**

Geologic-geotechnical model

**Location**

Koper, Slovenia

**Year(s)**

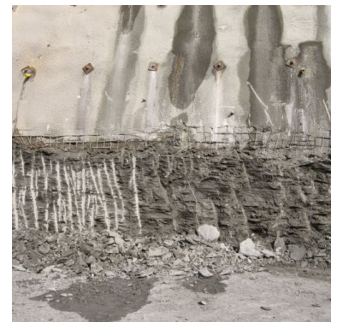
2005

**Services**

Review of existing documents,  
site investigation program,  
geological and geotechnical model  
for tender design

**Investor**

DARS d.d.



Markovec Tunnel is a double-tube, 2.3km long motorway tunnel that will connect Koper and Izola. The tunnel will pass below Mount Marco (Markovec) that forms the North-facing coast of the Golf of Koper. The overburden reaches its maximum at 130m below agricultural lands, but remains between 15m and 30m where the tunnel underpasses residential areas on the coastal slopes. The geological studies included the evaluation of aerial photos, the performance of surface mapping, geotechnical outcrop logging, boreholes, borehole and laboratory testing and geotechnical rock mass classification. Particular conditions to be considered for design and construction considerations include the potential for surface settlements along low-overburden alignment sections, the potential for swelling rock mass and the proneness of marl rocks to slaking.