

# Slovenia

**Name:** Slovenian Society for Underground Structures

**Type of structure:** Non-profit association

**Number of members:** 84 (+23 Young Members)



**SLOVENSKO DRUŠTVO ZA  
PODZEMNE GRADNJE**  
SLOVENIAN SOCIETY FOR  
UNDERGROUND STRUCTURES

## 2016 ACTIVITIES

### Main activities:

- Organization of the 11th Tunneling and Underground Structures conference (SLO)
- Participation at WTC 2016; organizing WS - Information modelling in tunneling

### WGs

- Participation in WG15, WG17, WG19;
- Co-founding member state with Steering board members in WG22

### YMG:

- Steering board member

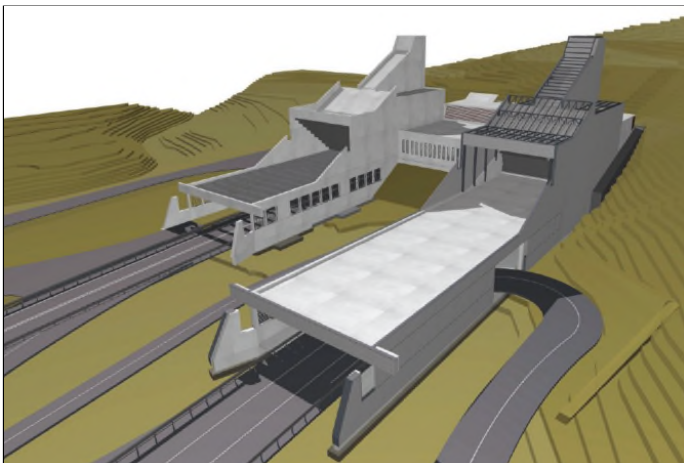
### Publications:

- Acta Geotechnica Slovenica;
- Rmz, Materials And Geoenvironment

## TUNNELS – UNDERGROUND WORKS

### Karavanke Tunnel

Building permit design for upgrading the existing single bidirectional transalpine base tunnel with a second tube to form a twin highway tunnel tube system. Total tunnel length is 8km with more than 1000m of overburden. The tunnel passes through very heterogeneous rock material from permian, carboniferous to triassic formations, squeezing ground and difficult hydrogeological conditions.



### Tunnel Golovec

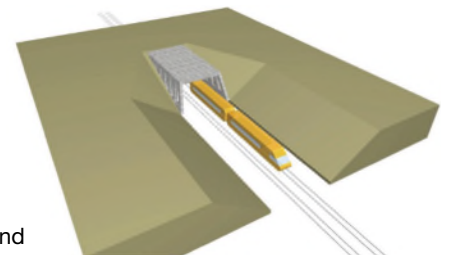
Preliminary and detail design, preparation of tender documents for the rehabilitation of the twin tube – three lane highway tunnel with a total length of 1160m. The works



include the removal of the carriageway and implementation of a drainage layer in order to collect the excess groundwater and prevent further flooding of the carriageway and tunnel inner lining.

### Tunnel Štrihovec

Preliminary design of an 810m long single tube-twin track railway tunnel. Excavation of the tunnel will take place in layers of siltstones with fine-grained sandstone and marl. Due to unstable slopes, the design foresees excavation under a Corinthian slab with portal structures on piles



### Tunnel Log

The tunnel of 105m represents the shortest tunnel on the Slovenian highway network. Beside its length the main characteristic of the



tunnel is a central pillar which is required due to small axial distances of the tubes. On both sides the tunnel ends with very esthetic portal structures that extend the structure length up to 199m.

## FUTURE ACTIVITIES

- 11<sup>th</sup> International Conference on Tunnel Construction and Underground Structures (23 November 2017, Ljubljana, Slovenia)
- Participation at WTC 2017 in Bergen
- Training course in 2018