

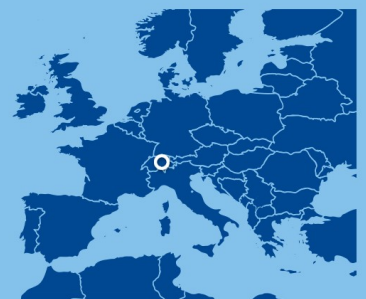
# Construction of Enclosure Schwamendingen / Renovation of Schöneich Tunnel



Residents currently living in Schwamendingen are exposed to excessive levels of noise and exhaust fumes, because one of the busiest roads, the N01/40, runs straight through this residential district. Around 120,000 vehicles travel on this road every day. As part of a comprehensive noise reduction programme, the Federal Department for Environment, Transport, Energy & Communication (DETEC) is building a structure to enclose the Schöneich section of this national road, with the support of the Swiss Federal Roads Office (FEDRO) and the City of Zurich. The tunnel bordering the roadway will be renovated at the same time.

## Construction of Enclosure Schwamendingen

The enclosure will be built as a new tunnel continuing from the existing Schöneich tunnel up to the Aubrugg junction, in accordance with FEDRO's current standards. There is already a small electromechanical control centre near the Schöneich portal. This will be developed into a new control centre as part of the enclosure. A second control centre will be built at the Aubrugg motorway junction (Aubrugg control centre).





### Client

Federal Department for Environment, Transport, Energy and Communication (DETEC)

### Main contractor

Swiss Federal Roads Office (FEDRO)

### Duration of the contract

March 2018 - approx. end of 2024

Length of the enclosure: 930 m

Length of Schöneich Tunnel: 770 m



### Development / Renovation of the Schöneich Tunnel

The renovation work includes replacing all the existing lighting installations. This will also involve fitting LED lamps in the lighting strips of the tunnel passage. The entire cable system for the lighting will be replaced and adapted to run off a newly developed infrastructure. Furthermore, all local control systems in every section will be connected to the network node computer in the new Aubrugg control centre. The planning has to take into account that it should only be possible to operate the lighting via the visualisation on the system controller. The building work will be subject to challenging conditions, as it will take place on closed-off roads, in control centres and during night-time closures.

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