Head: Prof. Dr. K.W. Axhausen
Title: Swissloop: Planning Design
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Brief description:

Design of the lines and the stations. Here one would have to consider how best to go around the digital terrain model, the vegetation and use maps to find the best route. Planning of the transport network. Accessibility of the system - business and residential location. Include parking studies, traffic modelling and land approval process. Developing realistic implementation strategies.

Project:

Swissloop (https://swissloop.ch/), the idea of the so-called Hyperloop was unveiled by SpaceX founder Elon Musk back in 2013. It proposes a novel high-speed ground system allowing you to travel from Zürich to Berlin in 40 minutes. As neither SpaceX nor Tesla is developing a commercial Hyperloop themselves, they announced an open competition, gearing towards university students to design and construct the best Hyperloop pod. To support this competition SpaceX is constructing a one-mile test track, where the university teams are able to test their human scale pods. Our team is looking for students to conduct a feasibility analysis of the system under the Institute of Transport Planning and Systems (IVT) at ETH Zurich. Close coordination with the Swissloop Engineering team is expected.

Topic: Planning Design
ECTS: 24 credits
Course of study: D-BAUG, D-USYS, D-MTEC, Geography (University)