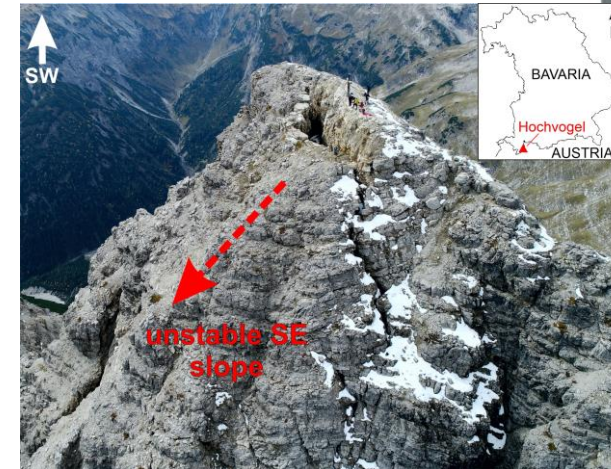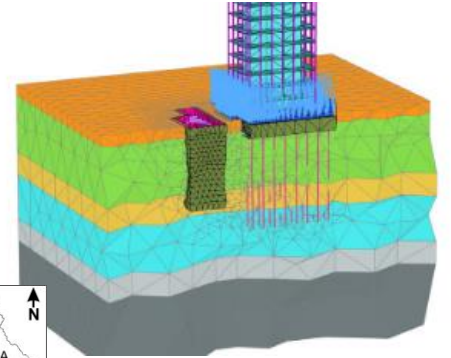# Modelling slope instability and anchor stress distribution in high alpine rock slopes with PLAXIS 3D (1 MSc)

Language: German and English possible

On two high-alpine sites we want to gain experience in modelling with the software PLAXIS 3D. At the Kitzsteinhorn, the summit station of the cable car ist fixed to the permafrost flank. At the Hochvogel, a complex major rock slope instability is approaching failure.

➢ How much stress do the anchor generate in the permafrost rock?
➢ How does it change over the season and und different normal stresses and temperature conditions?
➢ Can we model 3D deformations at the Hochvogel?

→ Work with the new software, setting up models, sensitivity analysis, interpreting results

Kontakt: johannes.leinauer@tum.de, maike.offer@tum.de