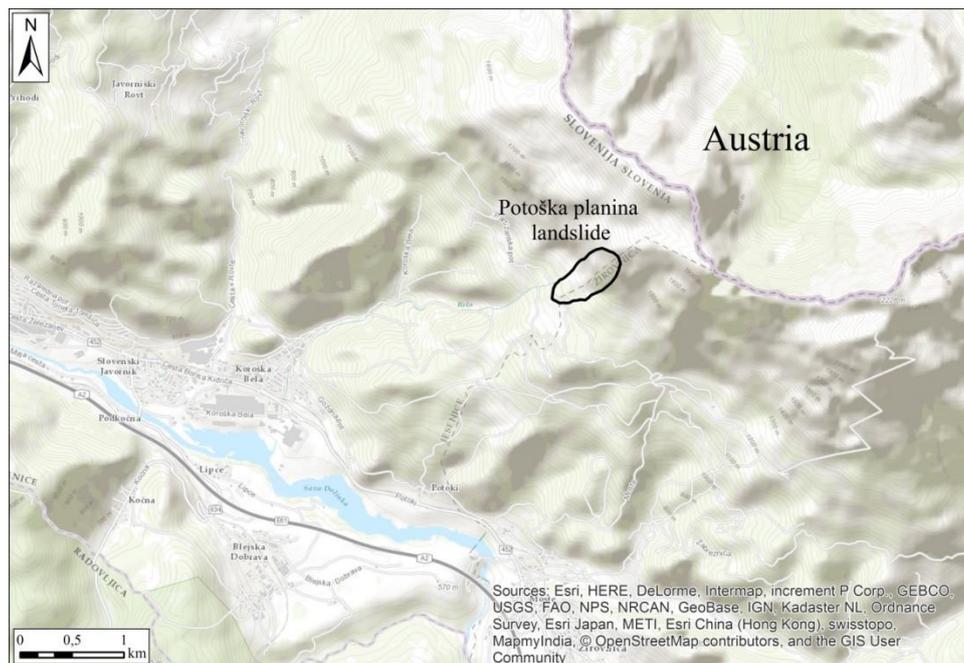


## Field study tour #2 – Potoška planina landslide

Potoška planina landslide is situated in the NW Slovenia, in the Karavanke mountain ridge, near the town Jesenice (Fig. 1). During the field trip we will observe surface features, different types of slope mass movements and real-time monitoring techniques.



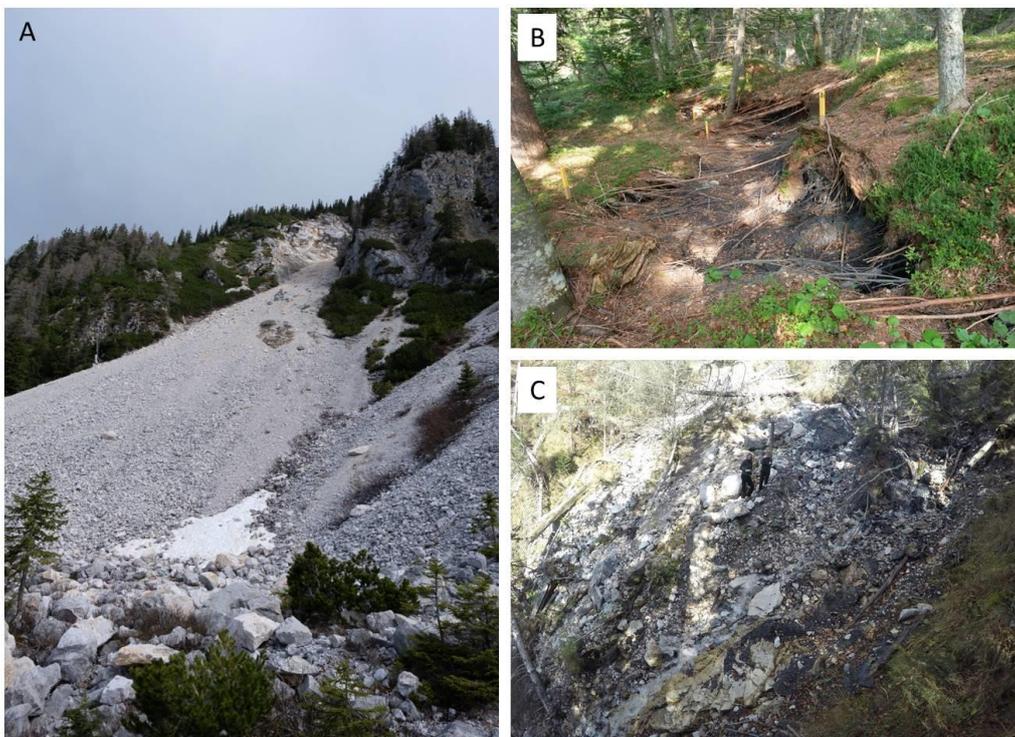
*Fig. 1 Location of the Potoška planina landslide*

The broader area of the Potoška planina landslide is known to have experienced severe debris-flow events in the recent geological past. The most recent of these events occurred in the 18th century and caused the partial or total destruction of more than 40 buildings and cultivated areas in a village down-slope (Koroška Bela) located in the area of the alluvial fan. Presently, some 2,200 inhabitants live in the area of the alluvial fan of past debris flows.



*Fig.2 A view from the top of the Potoška planina landslide looking directly down the slide to the underlying village of Koroška Bela*

During the field trip we will observe rockslides and runoff of talus material in the upper part (Fig. 3A), to deep-seated slow-motion slide in the middle part (Fig. 3B) and active slope mass movements at the toe of the landslide (Fig. 3C), which is considered to be the most active part of the landslide. The sliding mass in this part is composed of tectonically deformed and weathered clastic rocks covered with a large amount of talus material, which is unstable and prone to landslides.



*Fig. 3 Potoška planina landslide is subjected to different slope mass movements*

Along the way we will also see the new established monitoring system which serves for real-time monitoring of the surface patterns at the toe of the landslides (Fig. 4). Monitoring system provides images that are transmitted in real-time through network for transmission and enable immediate notification of landslide activity and landslide behaviour.



*Fig. 4:Real-time monitoring*

Previous studies on the Potoška planina landslide (<http://link.springer.com/article/10.1007/s10346-016-0759-6>), using UAV photogrammetry and tachymetric measurements, showed a steadily downslope movement of the entire area with localised surges superficial slips.

The Potoška planina landslide has the ongoing status of an International Programme on Landslides (IPL) project “Study of the slow moving landslide at Potoška planina (Karavanke Mountains, NW Slovenia)” (IPL -188).