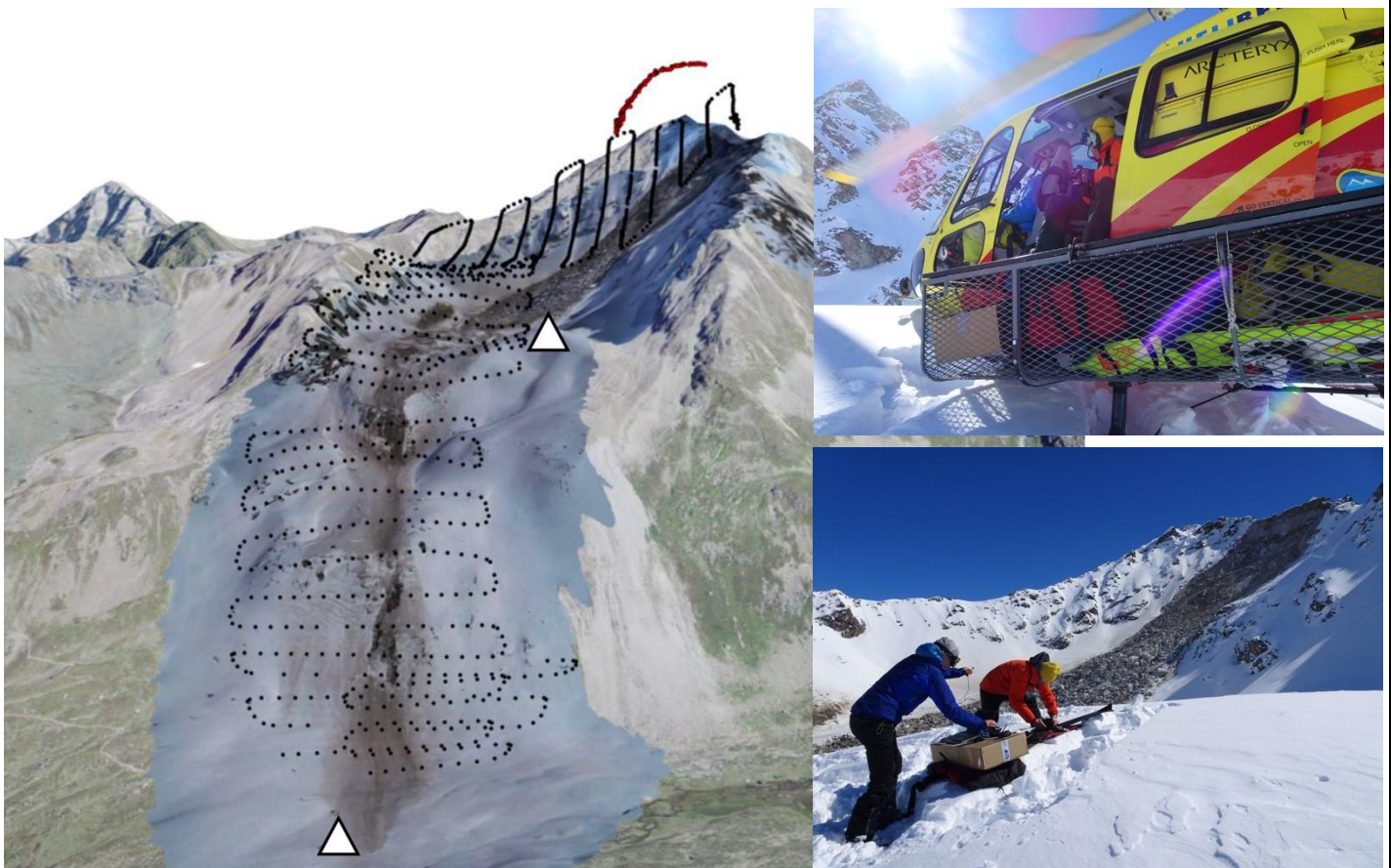


Efficient geodata acquisition in alpine terrain with optical Remote Sensing



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Abstract:

Remote sensing has advanced rapidly in the past years. Today many different sensors are available based on platforms such as drones (UAS), airplanes, helicopters and satellites and software packages are available to handle the huge amount of acquired data. This enables the acquisition of accurate and timely geodata in regions which are otherwise inaccessible. At the WSL Institute for Snow and Avalanche Research SLF we apply such technology since several years in high alpine terrain. In this talk I will give an overview on recent applications ranging from snow depth mapping over rockfall experiment surveying to specific damage event documentation, surveying of avalanche mitigation measures and avalanche detection. I will give an insight into specific challenges of the alpine environment we experience for drone missions and discuss the limitations of the applied methods.

School of
Surveying
Te Kura Kairāri

12:00 noon, Thursday, 15 August 2019

**L1 Lecture Theatre
School of Surveying
310 Castle Street**

