

# Landslide velocity field measurement using aerial imagery (master thesis)

## Where?

North slope of the Hechendorfer Berg

## What?

Characterize the landslide activity using temporal series of aerial imagery/UAV and the derived DSM.

Field work: Further details will be discussed

Data analysis: python and Qgis (previous knowledge is desire)

## When?

Winter semester 2022

## Language

English

Application with curriculum vitae and motivation letter  
[barbosa@biologie.uni-muenchen.de](mailto:barbosa@biologie.uni-muenchen.de) and  
[siegert@realitymaps.de](mailto:siegert@realitymaps.de)



2009



2012



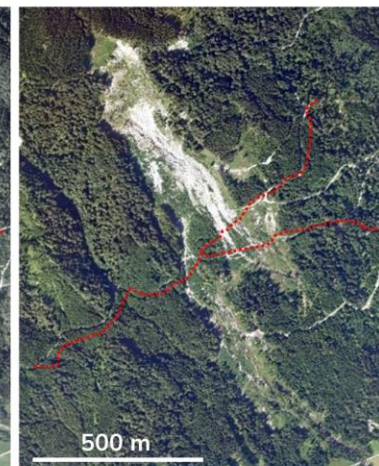
2015



2018



2020



### You can support us with:

- The characterization of the activity of the largest landslide in Germany using aerial imagery.
- The quantification of the topographic changes in the landslide area in the last ten years using temporal series of aerial imagery/UAV and the derived DSM
- The quantification of the displacement field of the landslide in the last 10 years.
- Ideas and feedback to improve our workflows.

### We offer you:

- An interesting and challenging job with great potential to contribute with your own ideas and experience and to further develop your personal skills.
- An exciting workplace in the RealityMaps headquarter (Dingolfinger Str. 9, 81673 München).
- The opportunity to collaborate with project partners at the TUM.

### You bring with you:

- Knowledge of remote sensing, photogrammetry, and basic python.
- Motivation for testing feature/area tracking algorithms and defining the most suitable one for specific applications
- Interest in understanding earth's surface processes
- Analytical and conceptual skills as well as independent work style
- Assertive communication, collaborative attitude, and creativity.

