



CrowdSlide

a mobile web application for building a database of gravitational mass movements using volunteer field reports

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The Idea



- **Landslides & rockfalls** are a serious **hazard** to population in **alpine areas**
- However, **unless affecting infrastructure**, many remain undetected or undocumented, especially in **remote areas**

The Idea



[Tscheppaschlucht, Austria]



[Felbertauernstraße, Austria]

- **Landslides & rockfalls** are a serious **hazard** to population in **alpine areas**
- However, **unless affecting infrastructure**, many remain undetected or undocumented, especially in **remote areas**



[Mel de la Niva, Switzerland]
GIF not working in PDF, sorry

A most **complete database** of events is important to understand **which areas** they affect and **how dangerous** they are



Everyone can help by reporting events!

MASS MOVEMENTS

The Idea



[www.pinterest.com]

The Idea

- People are out in the mountains all the time
- They carry a smartphone


→ They can become spotters and **join CrowdSlide !**




[www.pinterest.com]


The vision ...

CrowdSlide



Welcome spotter!
Report your observations
and become part of CrowdSlide

Take picture



3 images selected


When did it happen?


Just now 2019-07-12 13:37:00 UTC


Where did it happen?

My location N 48.2087, E 16.3773


Submit report


Report slide


Map


My CrowdSlide


CrowdSlide



Nearby events

Social media feed

TRAN Thompson Nicola @TranBC_TN · 6. Feb. 2018
Successful blast of the rockfall along #Hwy12, cleanup and rock scaling 9km North of Lytton in process. Expect delays longer than 30 minutes. #Rockfall #Lytton





0:08 2.982 Aufrufe


1

12

23

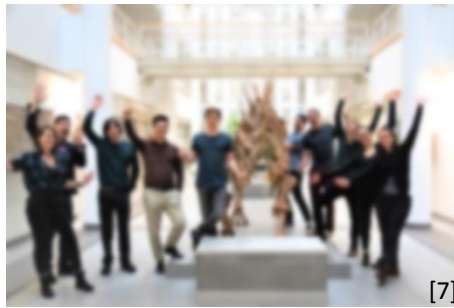
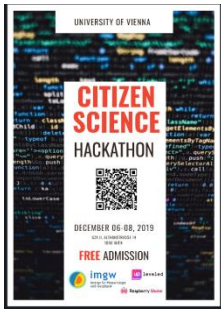
Report slide

Map

My CrowdSlide

... a mobile web application for reporting observations in the field and community building

A prototype app was developed during the **2019 Citizen Science Hackathon @ Meteorology & Geophysics ...**



[7]



[8]



CrowdSlide

Web Application

- Mobile & Desktop compatible
- Enthusiasts can become spotters
- Report mass movements they spot out in the field
- Contribute to and build up scientific database

Many thanks to **Karl Horky** from <https://upleveled.io/>



CrowdSlide

A **live prototype app** is available online

If you wish to try/test it please send us an E-Mail:

crowdslide@gmail.com

... or contact one of the authors



CrowdSlide

Feedback is most welcomed at this stage!

- As a researcher ...**
- ... do you think such an app could create valuable data?
 - ... what features would you think are important?
 - ... which data/information would you like to have?
 - ... how do you think we can train users?
 - ... do you know of similar efforts elsewhere?
 - ... would you like to collaborate on this?



Please contact us! crowdslide@gmail.com