

## **n-hess-2023-53-author\_response-version2**

December 4, 2023

A preliminary and still further to be developed prototype of an early warning system against landslides was transferred from the academic team of Inform@Risk to the risk management agency of Medellín (DAGR) at the end of 2022. DAGRD operated and reviewed the system in the year of 2023. In November 2023 DAGRD informed the academic team that they cannot further operate and develop the system as they cannot legally accept the monitoring instruments of the system as a donation. The consequence is that the final functions of the monitoring system (the development of warning thresholds and subsequently the alert dissemination) cannot be further advanced and the whole warning system remains not functional.

### Outlook:

The research team is currently looking for another academic operator in Colombia. There is also the hope that a less strict interpretation of donation laws is held by the next municipal administration which starts on January 1<sup>st</sup> 2024.

This important development needs to be reflected in the paper as it illustrates the special challenges a living lab can encounter when the results of the research are transferred from the academic into the municipal realm. These experiences can be very helpful for other living labs.

Besides that, additional images references have been added as requested by n-hess.

### Changes:

Line 30 to 45: abstract is rewritten to reflect the described development

Line 105: better wording of affordability issue

Line 196: source of aerial background for figure 3c was added

Line 213 to 224: end of chapter "Methodology and Process" has been augmented to reflect recent developments

Line 225: source of cartography for figure 5 was added

Line 520 to 521: end of section "3.3.2 Warning Dissemination Channels" has been augmented to reflect recent developments

Line 610, 633, 701 to 708, 742 to 745: section "4 Living Lab Experiences and Conclusions" has been augmented to reflect recent developments

Line 812, 813: the end of section "5 Final Statement" has been changed to reflect recent developments

Line 831: source of aerial background for figure A3 was added

Line 878: one source was added under "References"