

# LandAware workshop 2022

**3-5 October, 2022, Zürich/Birmensdorf, Switzerland**

**Workshop program (preliminary status 15 September 2022):**

**Monday 3 October 2022, 08:45-12:30**

*Intro, panel discussion, invited presentations*

Start	End	What
08:45	08:50	<b>Welcome address</b> by Manfred Stähli (WSL, Switzerland)
08:50	09:00	<b>LandAware network</b> by Michele Calvello (UNISA, Italy)
09:00	10:45	<b>Presentations on LEWS</b>
	(15')	How to deal with shorth summer convective rainfalls and big storms by Graziella Devoli (NVE, Norway)
	(15')	Assessment of rainfall-induced landslides hazard at regional scale – BGS experience through the natural hazards partnership by Nikhil Nedumpallile Vasu (BGS, UK)
	(15')	Development of Data-Driven LEW Thresholds for Slow Moving Landslides in Western Canada by Richard Carter (BGC Consulting, Canada)
	(15')	Landslide forecasting: an Italian experience along the national railway infrastructure by Silvia Peruccacci (CNR-IRPI, Italy)
	(15')	LHASA Rio: a local LEWS based on NASA's global landslide hazard assessment model by Felipe Mandarino (City of Rio, Brazil)
	(15')	Landslide Early Warning System: Some technical remarks from Japan by Hiroaki Nakaya (NILIM, Japan)
	(15')	Local LEWS in Indonesia By Andy Subiyantoro (Indonesia)
10:45	11:15	<b>Coffee break</b>
11:15	12:30	<b>PANEL: Warnings for natural hazards</b> Moderated by Stefano Luigi Gariano (CNR, Italy)
		<u>Invited organizations and panelists</u>
		<ul style="list-style-type: none"> <li>• UCL warning research center (UK): Carina Fernley</li> <li>• International Federation of Red Cross and Red Crescent Societies IFRC: Elisabeth Stephens – to be confirmed</li> <li>• MeteoAlarm: Rainer Kaltenberger</li> <li>• Japan Meteorological Agency: Yano Atsuhisa</li> </ul>

**Monday 3 October 2022, 12:30-14:00**

*LUNCH*

**Monday 3 October 2022, 14:00-17:00**

*Activities of Working Groups*

Start	End	What
14:00	15:30	<b>LandAware WGs (part 1)</b> chaired by Luca Piciullo (NGI, Norway)
	(30')	WG1: Glossary and catalog of LEWS (Graziella Devoli, NVE, and Hiroaki Nakaya, NILI)
	(10')	WG2: Communication-Networking (Stefano Gariano, CNR)
	(15')	WG3: Communication with stakeholders (Katy Freeborough, BGS; and Joanne Robbins, Met Office)
	(20')	WG4: Single slide fact-sheets, online educational resources (Michele Calvello, Uni Salerno)
	(15')	WG5: Innovations in LEWS (Manfred Stähli, WSL)
15:30	15:45	<b>Coffee break</b>
15:45	17:00	<b>LandAware WGs (part 2)</b> chaired by Stefano Luigi Gariano (CNR, Italy)
	(15')	WG6: LEWS data (Dalia Kirschbaum, NASA)
	(15')	WG7: Operational LEWS (Graziella Devoli, NVE)
	(15')	WG8: IoT-based monitoring and warning (Luca Piciullo, NGI)
	(30')	Final discussion
17:00		<b>Closure of first workshop day</b>

**Monday 3 October 2022, evening**

*Individual program (self-organized by participants)*

**Tuesday 4 October 2022, all day**

*Excursion to Napf-region (Emmental)*

Start	End	What
07:45		<b>Departure from Hotel Neufeld (Zürich Goldbrunnenplatz)</b>
07:50		<b>Departure from WSL Birmensdorf (Main entrance)</b>
09:15	09:45	Arrival at Wasen i E. (Field site), Coffee and croissants
09:45	10:45	<b>Presentation of in-situ soil moisture measurements for LEWS</b> Three groups à ~15 persons (a) Intro to the topic and site [Manfred Stähli, WSL]; (b) measurement set-up and operation [Armin Dachauer, WSL; Tobias Halter, ETHZ/WSL], (c) findings/results from 4 years of measurement [Adrian Wicki, WSL/Federal Office of the Environment]
10:45	11:15	Transfer to Restaurant Lüderenalp (Bärnsicht)
11:15	12:00	<b>Intro to the upcoming Swiss National LEWS</b> Background; organizational embedding; planning and development of the new LEWS; major challenges; time line; anticipated products [Hugo Raetzo, Adrian Wicki, Alexandre Loye, Federal Office of the Environment FOEN]
12:00	14:00	Lunch and walk with opportunity for informal discussions
14:00	14:40	<b>Presentations:</b> Pilot-Study Napf for Swiss National LEWS (Tobias Halter, ETHZ/WSL; Adrian Wicki, FOEN)
14:40	15:30	Examples of local LEWS in Switzerland (M. Carrel, S. Stähely, Geoprevent)
16:00	18:00	Departure and travel back to Zürich-Uitikon [workshop dinner location]



18:00	Workshop dinner at Bistro Spilhöfler (Uitikon)
	Afterwards: Individual return by public transport to Hotels in Zurich

**Wednesday 5 October 2022, 9:15-12:15**

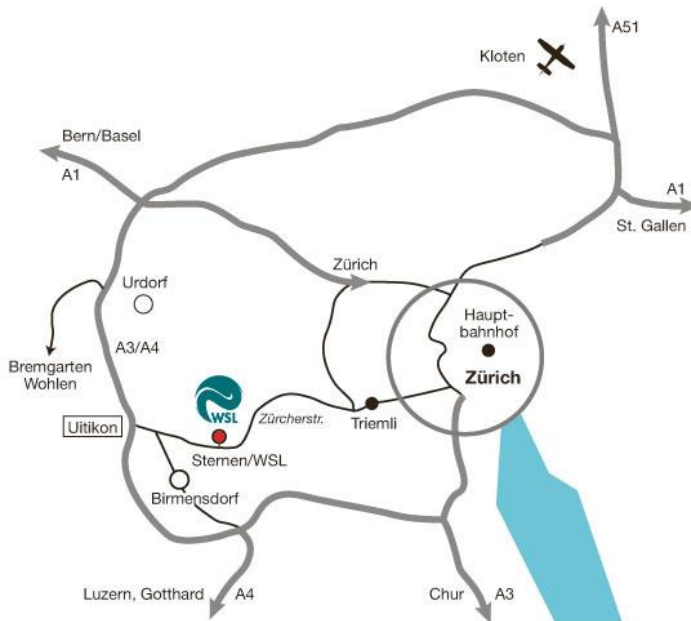
*Opening invited lecture, LEWS issues and future of LandAware*

Start	End	What
09:15	09:45	<b>Opening invited lecture by early career scientist</b> Incomplete landslide inventory data: When is it a problem and what can we do with it? by Lisa Luna (University of Potsdam, Germany)
09:45	10:45	<b>Open discussion: Critical issues, challenges, and problems in daily operations</b> Moderated by Graziella Devoli (NVE) and Katy Freeborough (BGS)  Interactive session
10:45	11:00	<b>Coffee break</b>
11:00	12:00	<b>Open discussion: Outlook: LandAware 2023+</b> Moderated by Michele Calvello (Uni Salerno)  Future milestones, way forward, organizational issues, feedback from the participants
12:00	12:15	<b>Closure</b> by Manfred Stähli (WSL, Switzerland)
12:30		(optional) Lunch at WSL restaurant

## Workshop location:

Swiss Federal Research Institute WSL, Zürcherstrasse 111, 8903 Birmensdorf (~2 km outside Zürich)

How to get there: <https://www.wsl.ch/en/about-wsl/events/details/landaware-workshop-2022.html#tabellement1-tab1>



## Bus-Transfer from Zurich downtown to WSL Birmensdorf (Monday and Wednesday):

Yellow **post-bus No. 350** from **Zürich, Bahnhof Wiedikon** (direction to Berikon-Widen) departure **hh:18 am.** or **hh:48 am** with stops at Zürich Goldbrunnenplatz (Hotel Neufeld) and Zürich, Triemli, arriving in **Birmensdorf, Sternen/WSL** at hh:32 am. or hh:02 am.

## Workshop registration:

**Binding registration for on-site participation:** by **15 August, 2022** at <https://www.wsl.ch/en/about-wsl/events/details/landaware-workshop-2022.html>

Workshop participation, excursion and workshop lunches are free of charge.

Travel to Switzerland and to the conference site, accommodation and workshop dinner will be at the expense of the participants.

**Registration for online participation:** by 22 September (for receiving the corresponding link to the online session, as well as for additional workshop material/info)

## Accommodation:

All participants will be asked to make their own hotel reservation. [List of recommended hotels](#)

## Questions / contact

Updated info related to the workshop will be published at <https://www.wsl.ch/en/about-wsl/events/details/landaware-workshop-2022.html>

Do you have specific questions or suggestions to the organizers? Please contact [landaware.workshop@wsl.ch](mailto:landaware.workshop@wsl.ch)

## Further info on LandAware

News, blogs and info on working groups and membership can be found at [www.landaware.org](http://www.landaware.org)