



Association Report 2023

May 2024

ecorisQ.

International association for natural hazard risk management
www.ecorisq.org

Our goal

To promote sustainable, where possible nature-based protection against natural hazard risks by bringing together science and practice for the development and dissemination of transparent tools for natural hazard and risk analyses.

Our activities

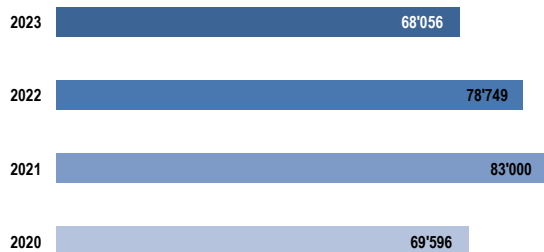
- creating and governing an international network for natural hazard risk management experts
- facilitating exchange of knowledge and dissemination of innovative transparent tools
- initiating and supporting research and development projects in fields relevant for the association
- standardising methodologies and assisting in respective international debates

Our Q

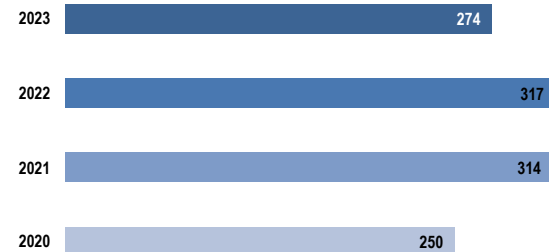
- Quality – we aim for standards of high professionalism
- Quantified – we work on the basis of facts and sound scientific knowledge
- Quartermaster – we provide and explain inventive tools
- Quaternary – we cover short and long time scales, but also small and large areas

Key information

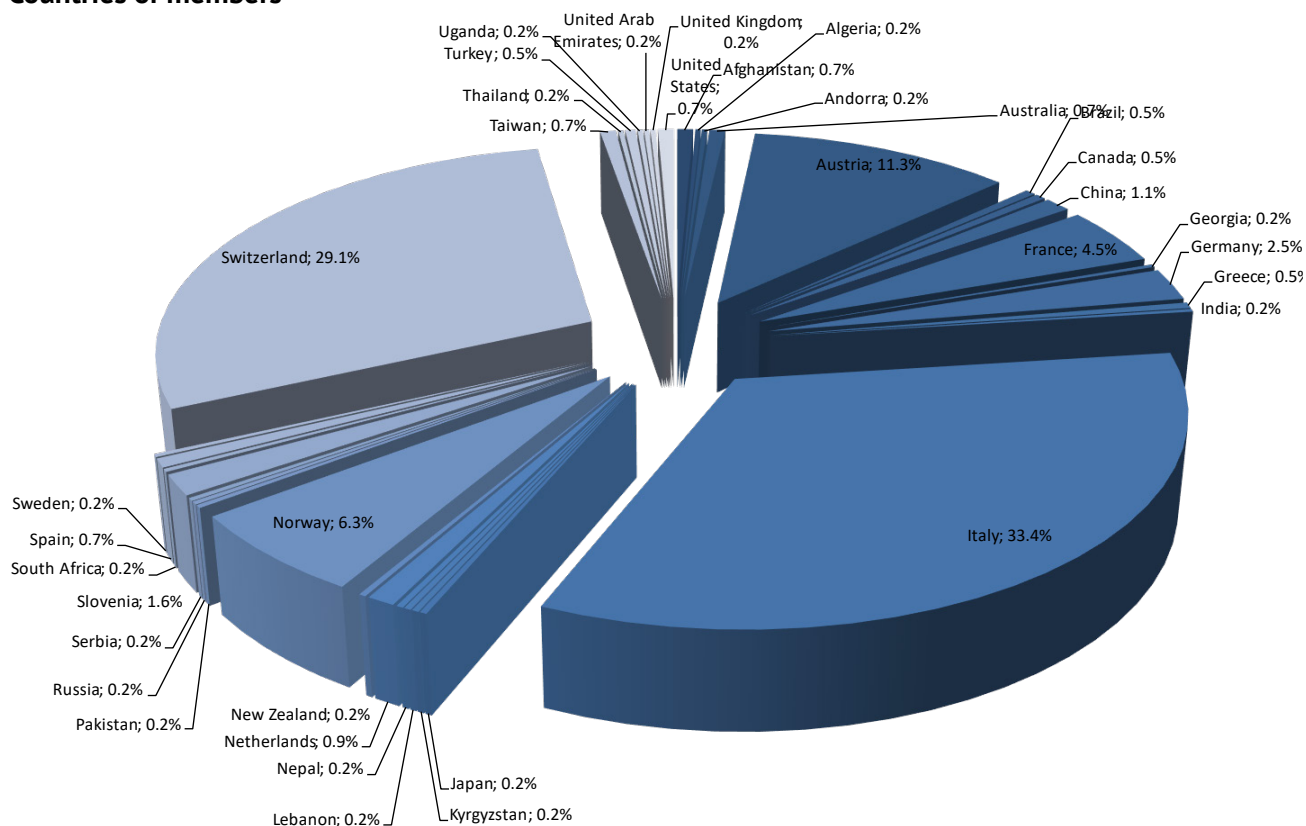
Revenue (CHF)



Nr. of members / member organisations (-)



Countries of members



Member types

| | 2023 | 2022 | 2021 | 2020 |
|-------------------------------------|------|------|------|------|
| Private sector | 64% | 63% | 60% | 59% |
| Universities / schools | 18% | 22% | 24% | 22% |
| Research institutes | 3% | 2% | 4% | 3% |
| Administration | 8% | 8% | 8% | 10% |
| Other (non-professionals, NGO, ...) | 6% | 5% | 4% | 6% |

Budget (in CHF)

Result 2021 Result 2022 Result 2023 Planning 2024

| | | | | |
|--|--------|--------|--------|--------|
| Association affairs: General Assembly | 23'263 | 20'682 | 6'155 | 5'000 |
| Association affairs: Travel & representation costs | 2'858 | 8'600 | 9'575 | 5'000 |
| Association affairs: Registration / memberships | 6'112 | 788 | 6'388 | 7'000 |
| Association affairs: Hardware/Software | 0 | 0 | 0 | 0 |
| Association affairs: Copy/printing costs | 0 | 0 | 0 | 0 |
| External mandate: Association administration | 12'908 | 10'424 | 6'040 | 10'000 |
| External mandate: PR & communication | 10'504 | 4'128 | 2'345 | 4'000 |
| External mandate: Training courses | 0 | 9'689 | 0 | 2'500 |
| External mandate: Translation manual | 0 | 8772 | 0 | 5'000 |
| External mandate: R&D projects | 25'713 | 27'747 | 41'789 | 40'000 |
| External mandate: Website development | 5'988 | 689 | 0 | 1'000 |
| External mandate: Website hosting | 1'067 | 0 | 638 | 1'000 |
| Bank charges | 130 | 126 | 111 | 130 |

Total expenses **88'543** **91'645** **73'042** **80'630**

| | | | | |
|-----------------------------|--------|--------|--------|--------|
| Membership contributions | 69'394 | 67'704 | 67'403 | 70'000 |
| Projects | 0 | 0 | 0 | 0 |
| Meeting registrations | 15'327 | 3'369 | 653 | 0 |
| Funding/subsidies/donations | 0 | 0 | 0 | 0 |
| Training courses | 750 | 7'676 | 0 | 2'000 |
| Sponsoring | 0 | 0 | 0 | 0 |

Total income **85'471** **78'749** **68'056** **72'000**

| | | | | |
|------------------------|--------|--------|--------|--------|
| Total expenses | 88'543 | 91'645 | 73'042 | 80'630 |
| Total income | 85'471 | 78'749 | 68'056 | 72'000 |
| Reserve preceding year | 84'444 | 81'372 | 68'476 | 63'490 |

Net result **81'372** **68'476** **63'490** **54'860**

Activities 2023

Tool development

In 2023, the research team BFH-HAFL finalised quite some work that provides the scientific basis for RockFreq - a tool that supports defining rockfall volume release scenarios for a given rock face, based on structural geological observations and measurement of deposited volumes on the underlying talus slope. As such, we are now developing the internet version of RockFreq, which will be freely online available for all.

Secondly, we released a beta of RockavELA - an energy line based spatially explicit runout model for rock mass falls.

Furthermore, as in 2022, the work on SlideforMAP, (for spatially explicit assessment of the disposition of shallow landslides) and BankforMAP (for spatially explicit bank erosion assessment) continued.

Lastly, the improvements of RockforNET, the official Swiss rockfall protection analysis tool, (currently only accessible via https://www.ecorisq.org/rockfornet/RFN_expert.php; only in German for the moment) were implemented and is now being tested by protection forest practitioners in Switzerland.

The counterpart of RockforNET for landslide protection forest analysis is SlideforNET. This tool exists since more than tens years and has been completely redeveloped since 2021. We released the new version in October 2023.

General assembly, symposium, and excursion

On the 2nd of May 2023, we organised the 9th general assembly in Bolzano, Italy. Members were invited to participate at a technical symposium on rockfall and hydro-geomorphological hazards in the morning followed by the general assembly. After lunch, we organised an excursion in the surroundings of Bolzano and visited the rock mass fall of January 2021 that destroyed Hotel Eberle as well as recently constructed protective works against large wood and boulders in the Talferbach, north of Bolzano (depicted on the photo to the right).



Bergsturz with more than 1 million m³ from the north face of Piz Scerscen in Switzerland on 14 April 2024 (photo: SAC Bernina).





Chris Phillips and excursion organizer Silvia Simoni discussing flood and large wood management in Bolzano.

Communication

We were actively present as a sponsor at the sixth World Landslide Forum in Firenze (Italy) from 14 until 17 November 2023. The Forum was entitled Landslide Science for Sustainable Development and contributes to the Sendai Framework for Disaster Risk Reduction. The sixth World Landslide Forum took place on the sixtieth anniversary of the Vajont landslide, the largest landslide disaster in Italy, which caused more than 1900 deadly victims. The ecorisQ booth served as a meeting place, both for members and non-members, for good exchanges on the goals and tools of the association.



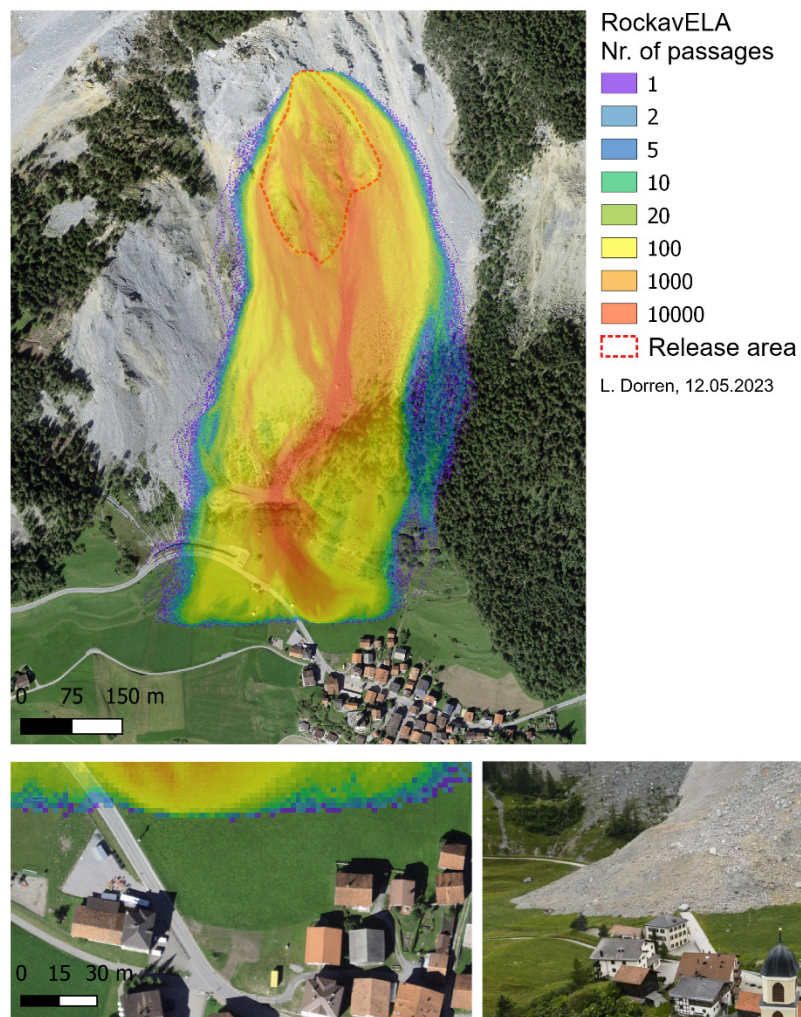
Future activities

We plan to organise our General Assembly and a training day on the ecorisQ rockfall and landslide hazard assessment tools in the same week as the Interpraevent conference in Vienna in June 2024, where we will also be actively present as sponsor of the conference. The general assembly in Vienna will be kicked off by a presentation of our board member Chris Phillips, who will look back on his 45 years of 'bioengineering' research on landslides and vegetation.

The first (bèta) versions of SlideforMAP and BankforMAP were released in March 2024. In addition, also the first version of RockFreq, a free online tool for estimating rockfall release frequencies and volumes, based on observations in and below a rock cliff, will be released in 2024.

In collaboration with INRAE and BFH-HAFL, we will continue the work on the rock mass fall runout modelling tool RockavELA. A successful application of RockavELA could be shown in Brienz/Brinzauls (CH). The image on the next page shows the runout of the Brienz/Brinzauls rock mass fall modelled with RockavELA on the 12 May 2023. The photo at the bottom right of that image shows the deposits of the big rock mass fall event of 16 June 2023.

Again, the planned extension of the rockfall trajectory model Rockyfor3D with a separate module that include a 2D modelling tool for rockfall dams will be postponed another year due to lacking time resources. It remains on the ToDo list!



Lastly, we will continue the development, update and harmonisation of the manuals of the ecorisQ tools, which did not progress as much as we hoped in 2023.

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Title:
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