



Association Report 2019 & 2020

June 2021

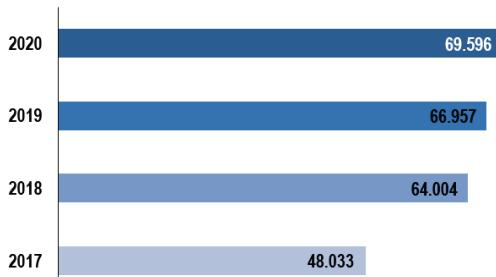
ecorisQ.

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

Key information

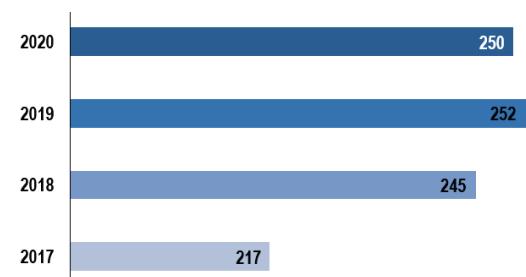
Revenue

(CHF)

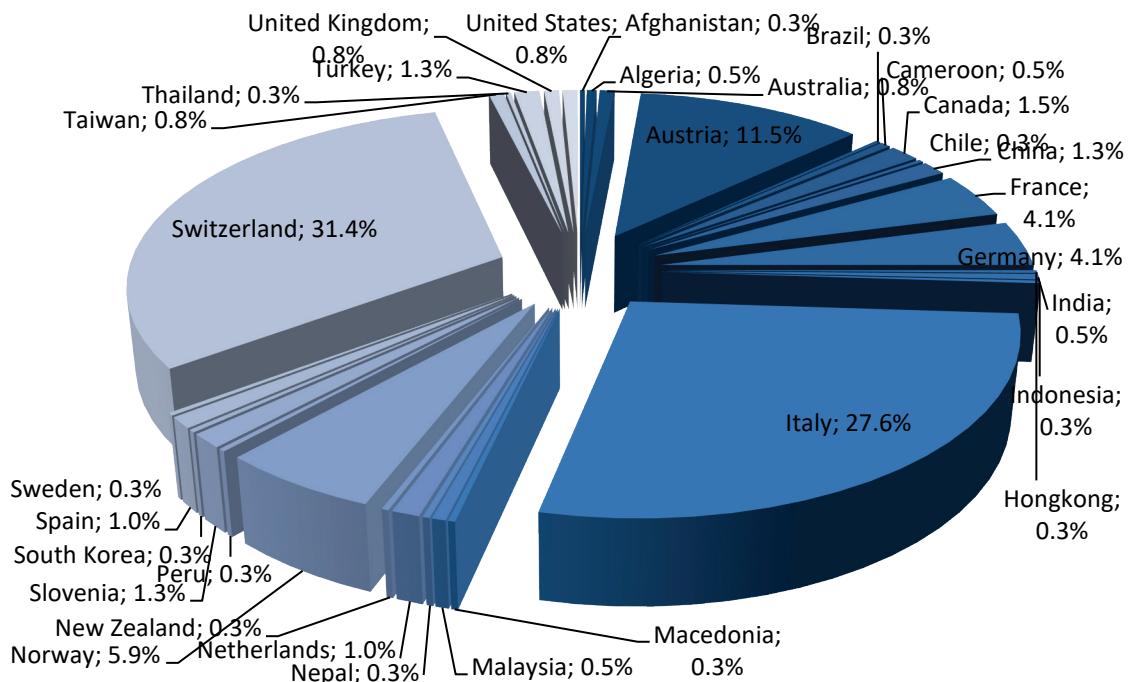


Nr. of members / member organisations

(-)



Countries of members



Member types

	<u>2020</u>	<u>(2019)</u>
Private sector	59%	(58%)
Universities / schools	22%	(22%)
Research institutes	3%	(5%)
Administration	10%	(10%)
Other (non-professionals, NGO, ...)	6%	(5%)

Budget (in CHF)	Result 2018	Result 2019	Result 2020	Planning 2021
Association affairs: General Assembly	16'985	4'344	0	5'500
Association affairs: Travel & representation costs	2'176	5'953	2'696	5'000
Association affairs: Registr. / memb. fees / Sponsoring	645	231	3'468	3'500
Association affairs: Hardware/Software	0	2'595	0	0
Association affairs: Copy/printing costs	0	0	0	0
External mandate: Association administration	12'829	7'757	6'997	12'500
External mandate: PR & communication	1'284	0	0	5'000
External mandate: Training courses	3'387	0	2'000	3'000
External mandate: Translation manual	0	0	0	0
External mandate: R&D projects	16'598	17'109	35'852	35'000
External mandate: Website development	3'536	0	4'672	4'500
External mandate: Website hosting	662	1'585	192	200
Bank charges	113	117	120	150
Other	7	0	0	0
Total expenses	58'221	39'694	55'998	74'350
Membership contributions	51'336	62'137	68'309	65'000
Projects	0	0	0	0
Meeting registrations	4'997	3'331	0	0
Funding/subsidies/donations	0	0	0	0
Training courses	7'670	1'489	0	4'500
Sponsoring (refund of Interpraevent 2020)	0	0	1'287	0
Total income	64'004	66'957	69'596	69'500
Total expenses	58'221	39'694	55'998	74'350
Total income	64'004	66'957	69'596	69'500
Reserve preceding year	37'800	43'583	70'846	84'444
Net result	43'583	70'846	84'444	79'594

Activities 2019/2020

The C-year

There is no need to re-iterate that 2020 has been an unusual year. Our seventh general assembly parallel to the 5th International Conference on Soil, Bio- and Eco-Engineering in Bern was cancelled, just like all planned training courses on Rockyfor3D and SOSlope. Fortunately, we can look back on a successfully organised general assembly (including a technical symposium, training courses and excursion) at the University of Milano in June 2019 with the support from the University of Pavia.

Training courses

We organized two training courses at the University of Milano in June 2019 (one on SOSlope and one on Rockyfor3D), as well as at the U.S. Geological Survey in Menlo Park, California in December 2019. During the latter course, we presented an updated version of SOSlope. Using case studies, we illustrated the use of the software for modeling shallow landslide hazards and for quantitative evaluation of soil bio-engineering measures.

Tool development

In 2019 and 2020, we made all existing ecorisQ tools available for Windows 64 and 32 bit, Mac and Linux. Furthermore, we continued improving existing ecorisQ tools and developed new tools. More specifically, this included:

- Improvement of SOSlope (cf. <https://www.ecorisq.org/news-of-the-network/77-changelog-soslope>)
- Development of SlideForce, an ecorisQ tool for the simulation of the runout of shallow landslides and resulting hillslope debris flows. The basis for this model has been elaborated within a scientific project financed by the Swiss federal office for the environment FOEN and carried out by the Bern University of Applied Sciences – HAFL. The project report can be downloaded [from our website](#).

- Development of SlideforMap – the future ecorisQ tool for spatial assessment of shallow landslide disposition, taking into account the effect of vegetation for the regional scale.
- Development of BankForNet – a one-dimensional, probabilistic, online tool that simulates hydraulic streambank erosion that can be expected in relation to the channel morphology, bank material, vegetation roots and the discharge scenario. BankForNet is available for all ecorisQ members via the tools menu on www.ecorisq.org (after login)
- Development of BankForMap - a spatially-explicit tool for assessing bank erosion at catchment scale

Communication and representation

Communication with the members, mainly concerning questions on the tools, traditionally represented a major activity. Most of those questions arrive by email or by telephone, whereas the forum on the website does not seem to serve its purpose. For the longer term, we will have to decide to either try to revive the forum or to continue without it. Representation of the association at other gatherings and conferences was, mainly due to COVID-19, very much reduced.

Future activities

In June 2021, the b̄eta version SlideForce was made available online via the ecorisQ website. In the next step, a thorough testing phase needs to be initiated to make sure, that the model functions correctly. The basis of the model was developed in Matlab, but the currently available ecorisQ tool was developed in C++ and during this «conversion» some new algorithms had to be developed. These need in-depth testing before we launch the official version, which can then be used in the practice. We are keen to receive feedback on the performance of the model from practitioners once the official first version is out. For now, we recommend using the model only for assessing the runout perimeter and reach probabilities using the number of passages (<N.asc>; see image below).



In parallel, we will finalise the first version of SlideForMap and aim for a first release in 2021. The long thought extension of the rockfall trajectory model Rockyfor3D which allows integrating a specific modelling tool for rockfall dams will be initiated in 2022. Another activity planned for 2022 is the release of BankForMap, as well as the Root Bundle Modell (RBM++; a user-friendly tool with an intuitive graphical user interface that allows to visualise and calculate the root reinforcement of nine tree-species, depending on the tree diameter and distance to the tree stem). We are also planning the revision of FINT (the tool for detecting single trees from high-resolution vegetation height models), based on the findings of a 3-year applied research project, which will be finalised in the summer of 2021.

Last but not least, at the 5th International Conference on Soil, Bio- and Eco-Engineering in Bern we started reinforcing our dissemination activities by documenting and publishing expert interviews on video. Our objective here is to invest more resources in video based communication on the ecorisQ tools and activities.

Our goal

To promote sustainable 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 an international network for natural hazard risk management experts
- stimulating exchange of knowledge and dissemination of innovative transparent tools
- initiating and participating in research, technology or development projects
- 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

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Title:
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The web version of this report is available at:
www.ecorisq.org/ecorisq-reports

