



SWITCH

Annual report
2022

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➤ **Peter Kofmel**
Chairman of the Foundation Council



➤ **Tom Kleiber**
Managing Director

Photo: Guy Jost, www.guyjost.ch

An extra boost of services

SWITCH actively continued its transformation in the 2022 reporting year. At the same time, customers benefited from many new products.

SWITCH continued to support the transformation in 2022. In doing so, the Foundation pursues three objectives: to better use the potential of its employees, to allocate responsibilities more explicitly and to strengthen the dynamic development of the organisation. These developments help us to better align our actions with the needs of our communities and customers so that we can come together to create a coherent range of services with added value.

In addition to transformation, the 2022 reporting year was also characterised by a number of innovations. The following three highlights, which we will take a closer look at, have one thing in common: they strengthen the security of Switzerland as a location for education, research and innovation. Firstly, the

Foundation has announced a new cloud platform that will benefit the university community from the second half of 2023. Secondly, it has launched the DNS resilience programme, a five-year funding programme to improve the security of all Internet users. And thirdly, the community benefits from the expertise of the new Security Operations Centre, which SWITCH is setting up to protect universities from cyber threats.

A cloud for universities

In recent months and years, many discussions have taken place with our education, research and innovation community about the design of storage and computing infrastructures. This enables SWITCH to develop a cloud service tailored to their specific needs. SWITCH Cloud meets your specific requirements for flexibility, security and performance and is fully controlled by SWITCH. The introduction of the new service is planned for the second half of 2023.

The cloud solution is the ideal addition to existing services, especially for applications with particularly sensitive data. SWITCH is working with Phoenix Systems AG as part of a strategic partnership to implement the SWITCH cloud and operate the data centres.

More protection against fake websites

The aim of the DNS resilience programme is for SWITCH registrars to secure 60% of all .ch domain names with DNSSEC by the end of 2026, and to introduce other recognised security standards. By the end of 2022, SWITCH had already increased its DNSSEC share from 6 to 45 per cent.

The Internet was originally designed without a focus on security. Standards that safeguard its integrity and confidentiality were not developed until after the fact. DNSSEC is a proven security standard for a secure Internet. It prevents an Internet connection from being redirected to a fake website or another Internet service using fake DNS responses.

Security Operations Centre

With the Security Operations Centre (SOC) for the university community, SWITCH is making another important contribution to the Switzerland's security as a location for education and research. The role of an SOC is to actively protect organisations against cyber threats. To this end, the Security Operations Centre analyses up-to-date information on the threat situation and log data of its customers. Many universities are unable to operate their own SOCs for various reasons. SWITCH's Security Operations Centre closes this gap. The SOC got off to a successful start in 2022 and is being expanded on an ongoing basis.

Outlook for 2023

SWITCH will continue to drive forward digitalisation in the education and research landscape in 2023. Many of the current issues require cross-institutional solutions. Examples include end-to-end digital identities and inter-institutional administrative processes without media interruptions. Working closely with the various stakeholders, SWITCH wants to help ensure that digital transformation leads to improvements in efficiency and synergies, and to support educational policy aims such as transparency, mobility and harmonisation.

We are delighted to see the added value that SWITCH has been able to create for its users. This outstanding achievement was only made possible by everyone involved working together on such a solid basis. That's why we don't just want to thank our employees for their hard work. We would also like to thank our customers, partners, universities and the Foundation Council for their support and collaboration.



Peter Kofmel

Chair of the Foundation Council



Tom Kleiber

Managing Director

Governing bodies

Representations on the Foundation Council (December 2022)

	Delegates	Last name	First name	See key	
Independent president	1	Kofmel	Peter	2 + 4	
Swiss Confederation	5				
Federal Department of Economic Affairs, Education and Research, SERI and UC		Toneatto	Maurizio		
Delegate of the ETH Board	Dr	Verscheure	Olivier		
ETH Zurich	Dr	Brandao	Rui	4	
EPFL	Dr	Morel	Philippe		
ETH research institutes		Peterhans	Ronny	1	
Cantons with a university	1 each				
Canton of Basel	Dr	Brüwer	Michael		
Canton of Bern		Schönmann	Daniel		
Canton of Fribourg	Dr	Gachet	Alexandre	3 + 4	
Canton of Geneva	Dr	Jacot-Descombes	Alain		
Canton of Lucerne	Dr	Pauleweit	Karin		
Canton of Neuchâtel		Clément	Thierry	1	
Canton of St. Gallen		Rutz	Alex		
Canton of Ticino		Hochstrasser	Roland	1	
Canton of Vaud		Verest-Junod	Sandrine	1	
Canton of Zurich		Emch	Michael	1	
Cantonal universities	1 each				
Università della Svizzera italiana		Gay	Mario		
University of Basel	Prof.	Tschudin	Christian		
University of Bern		Brönnimann	Markus		
University of Lucerne		Antonini	Marco		
University of St. Gallen		Rotter	Harald		
University of Zurich		Sutter	Thomas	4	
University of Fribourg	Prof.	Ultes-Nitsche	Ulrich		
University of Geneva	Prof.	Geissbühler	Antoine		
University of Lausanne	Dr	Barenco	Adriano		
University of Neuchâtel	Prof.	Berkani	Abdelmalek		
Universities of Applied Sciences	9				
BFH		Mäder	Felix		
FHGR		Arpagaus	Arno		
FHNW		Weisskopf	Raymond		
HES-SO		Regamey	Michel		
HSLU		Wehinger	Armin		
OST		Höhener	Carlo	1	
SUPSI		Bregoli	Nadia		
ZFH		Schnellmann	Reto	4	
ZHdK		Schnyder	Claire	1	
Universities of Teacher Education	2				
Thurgau, as of 1 August 2022 PH Zurich	Prof.	Kohlstock	Barbara		
Grisons		Rajakaruna	Dinesh		
The Rectors’ Conference swissuniversities	1	Dr	Imobersteg	Rahel	4
Swiss National Science Foundation	1		Stampfli	Sébastien	
Innosuisse	1		Geiser	Markus	
Swiss Library Network for Education and Research	1		Frey	Jeannette	4

Key

- 1 Newly elected representative
- 2 Chairman
- 3 V Vice-Chairman
- 4 Foundation Committee Member

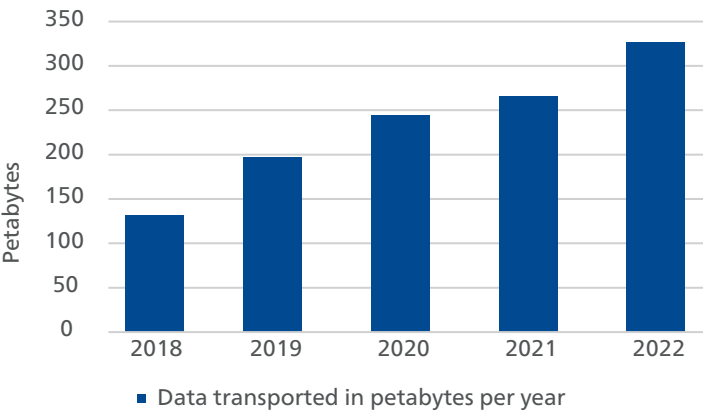
A photograph of a young woman with long blonde hair, wearing a blue and white plaid shirt, smiling and looking towards a laptop. A man is visible in the background, looking down at the laptop. The image is overlaid with a blue triangle in the top left and an orange triangle in the bottom right.

SWITCH

Facts & Figures

University network

Amount of data transported over the university network in petabytes per year.



	Data transported in petabytes per year
2018	132
2019	197
2020	244
2021	266
2022	326

Data source: <https://traffic.lan.switch.ch/pub/monthly>

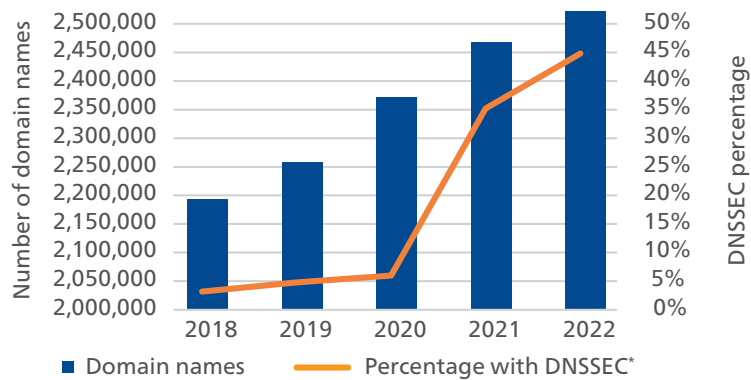
Length of university network

The university network is 3,036 km long. This is as long as the distance from Madrid to Stockholm.



.ch domain names

Development of the number of domain names and DNSSEC percentage.



	Number of domain names	Percentage with DNSSEC*
2018	2,196,049	3.2%
2019	2,259,952	4.8%
2020	2,369,674	6.0%
2021	2,467,372	35.2%
2022	2,521,444	44.8%

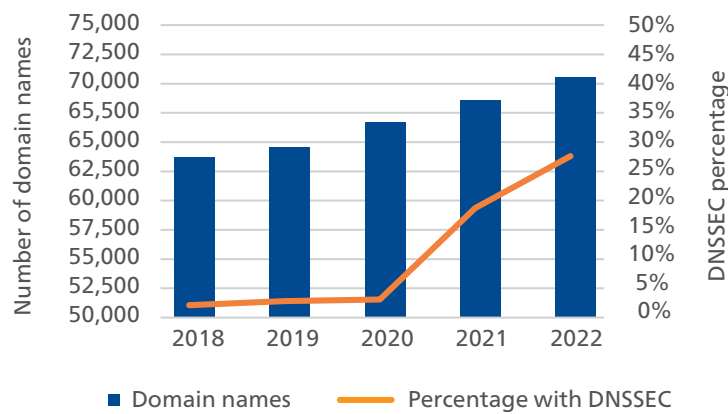
Notes

* Target for the end of 2026: 60%

Data source: <https://www.nic.ch/en/statistics/>

.li domain names

Development of the number of domain names and DNSSEC percentage.



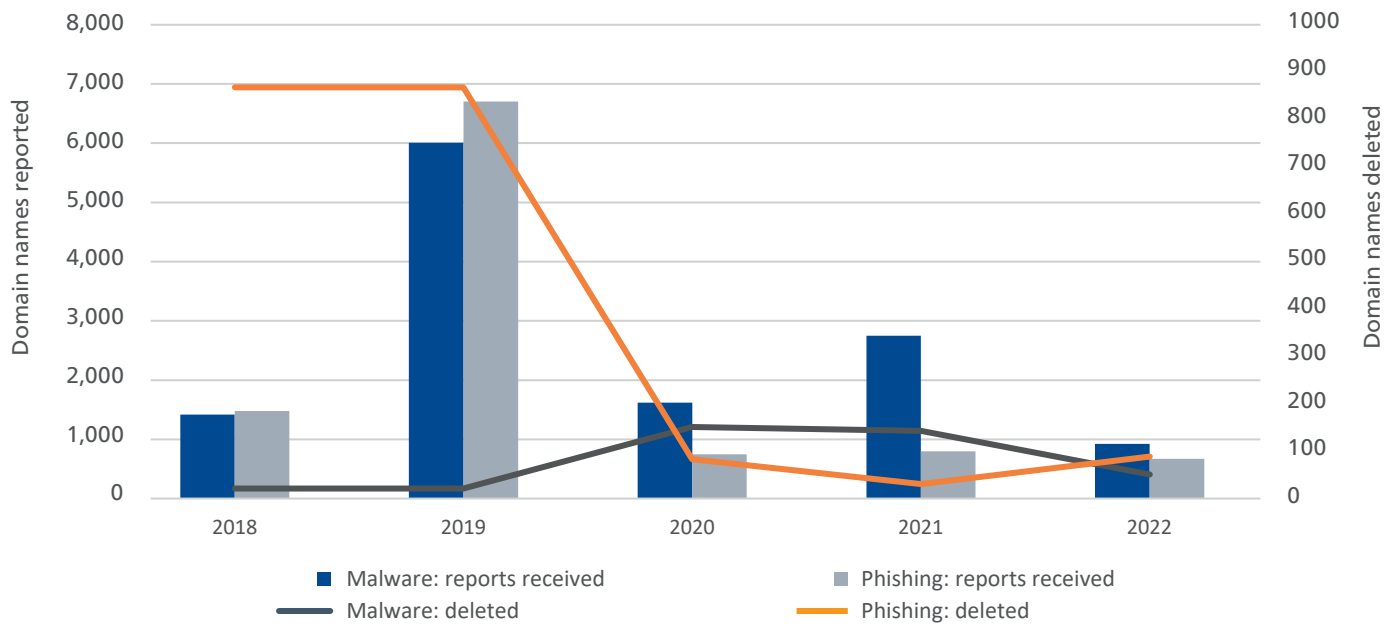
	Number of domain names	Percentage with DNSSEC
2018	63,735	2.1%
2019	64,591	2.8%
2020	66,760	3.1%
2021	68,592	18.7%
2022	70,587	27.6%

Notes

Data source: <https://www.nic.li/en/statistics>

Combating cybercrime

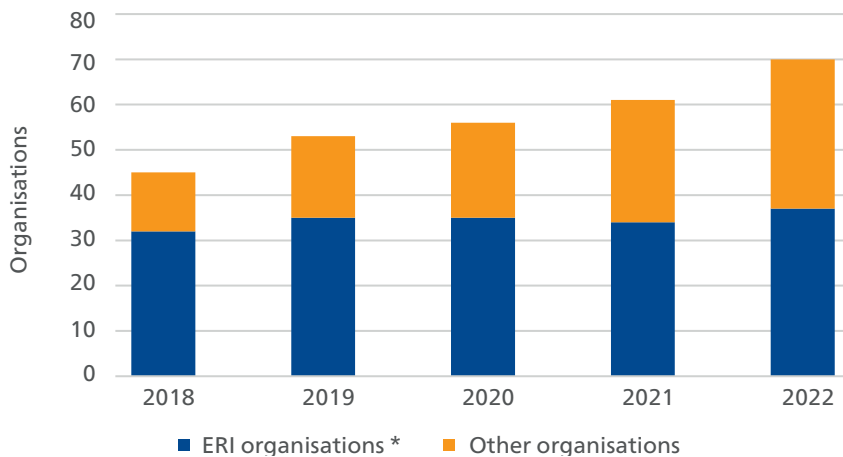
Number of reports received and .ch domain names deleted.



	Malware: reports received	Phishing: reports received	Malware: deleted	Phishing: deleted
2018	1,420	1,478	21	868
2019	6,008	6,703	21	868
2020	1,622	746	151	83
2021	2,749	797	143	31
2022	924	672	51	89

SWITCH DNS firewall

Development of number of organisations.



	ERI organisations*	Other organisations	Total
2018	32	13	45
2019	35	18	53
2020	35	21	56
2021	34	27	61
2022	37	33	70

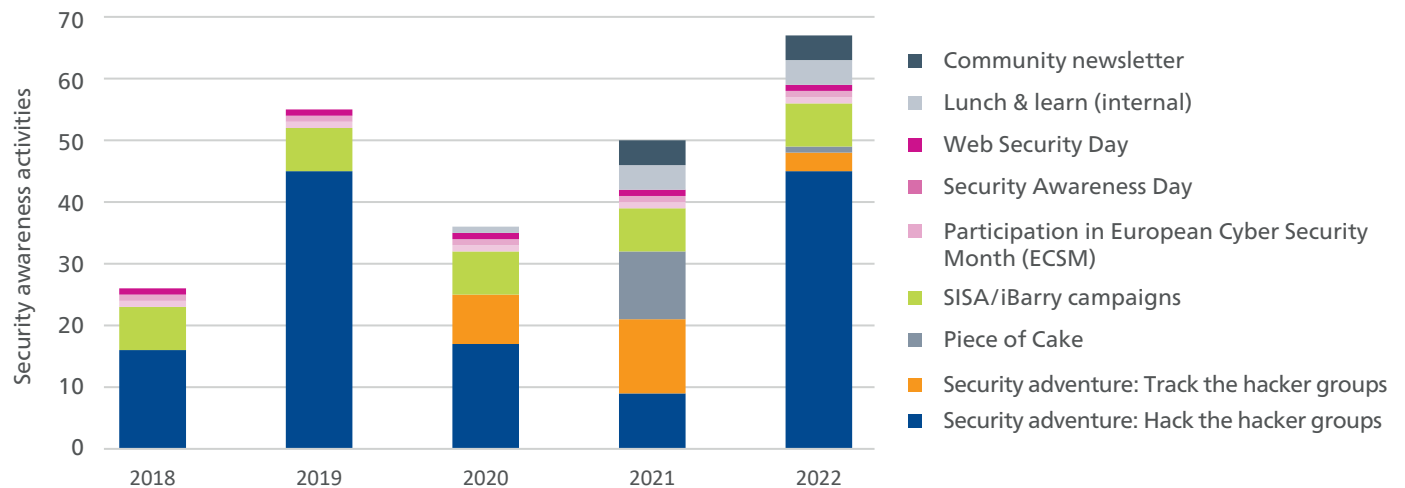
Notes

* The reduction of organisations in the ERI community (Education, Research and Innovation) in 2021 is due to the merger of HSR, NTB and FHSG into OST. We only manage these as one organisation.

The SWITCH DNS Firewall is also procured by two NRENs (National Research and Education Networks), namely JISC (UK) and Sunet (Sweden).

Security awareness

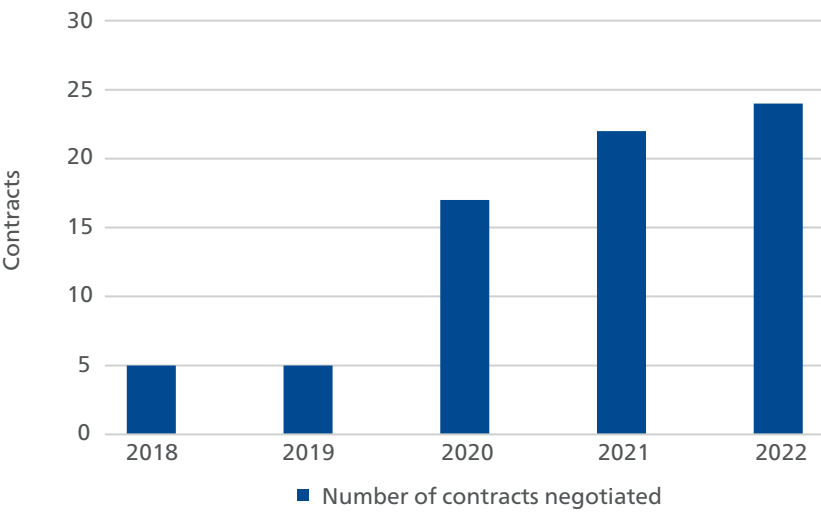
Development of trainings, events, campaigns, security adventures.



	Security adventure: Hack the hacker groups	Security adventure: Track the hacker groups	Piece of Cake	SISA/iBarry campaigns	Participation in European Cyber Security Month (ECSM)	Security Awareness Day	Web Security Day	Lunch & learn (internal)	Community newsletter
2018	16			7	1	1	1		
2019	45			7	1	1	1		
2020	17	8		7	1	1	1	1	
2021	9	12	11	7	1	1	1	4	4
2022	45	3	1	7	1	1	1	4	4

Procurement

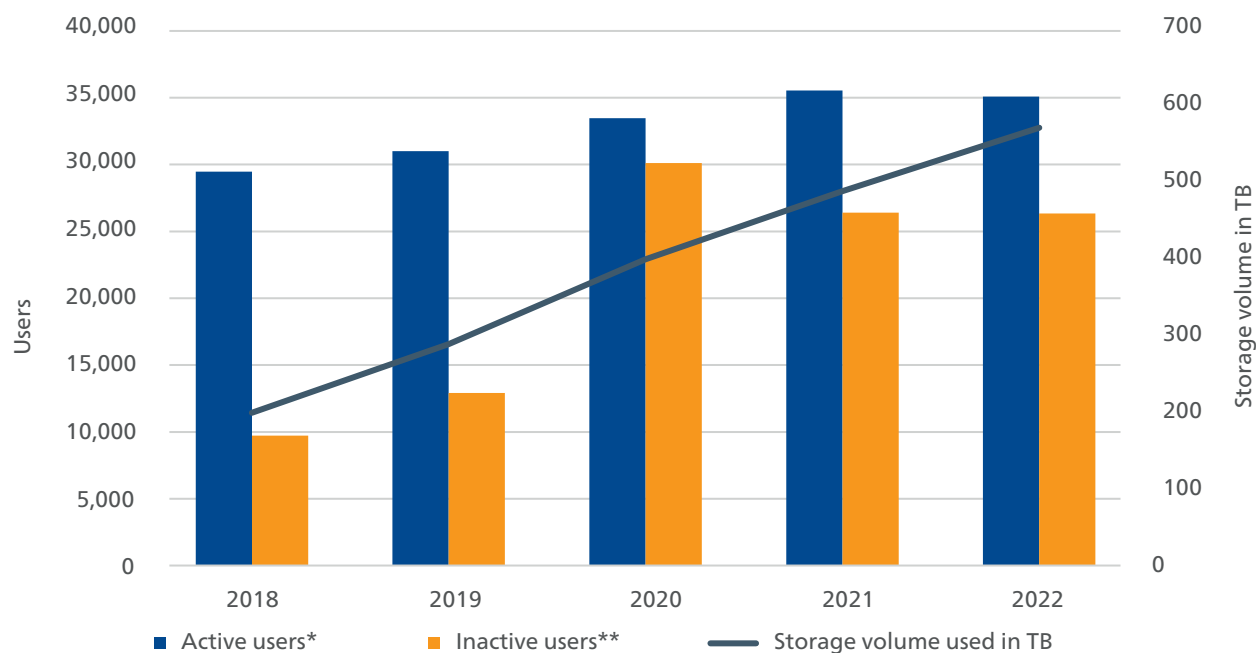
Sustainably negotiated software for universities.



	Number of contracts negotiated
2018	5
2019	5
2020	17
2021	22
2022	24

Cloud-based storage

Development of users and SWITCHdrive storage volume.



	Active users*	Inactive users**	Total accounts**	Storage volume used in TB
2018	29,470	9,713	39,183	200
2019	31,000	12,909	43,909	290
2020	33,470	30,103	63,573	401
2021	35,543	26,391	61,934	490
2022	35,076	26,345	61,421	573

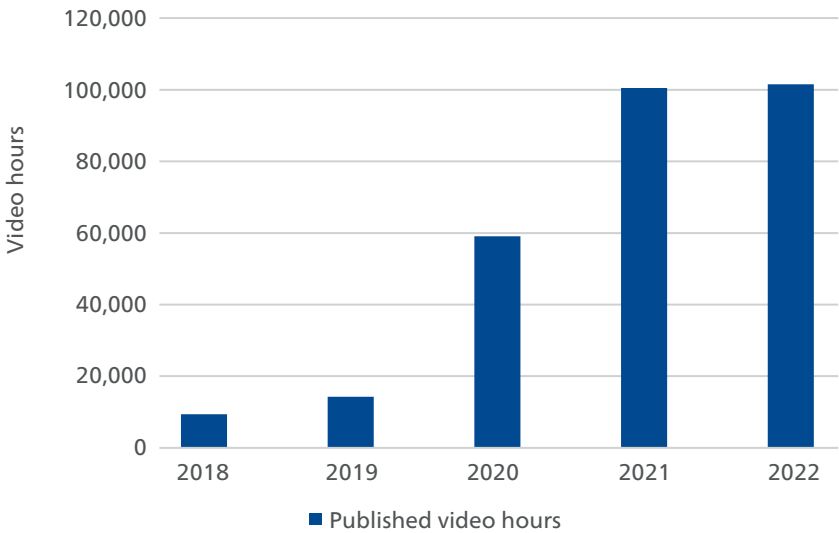
Notes

* Active: have logged into SWITCHdrive in the last three months.

** From mid-2020, accounts that have not been used for more than a year are automatically disabled and deleted after three months.

Video playback platform

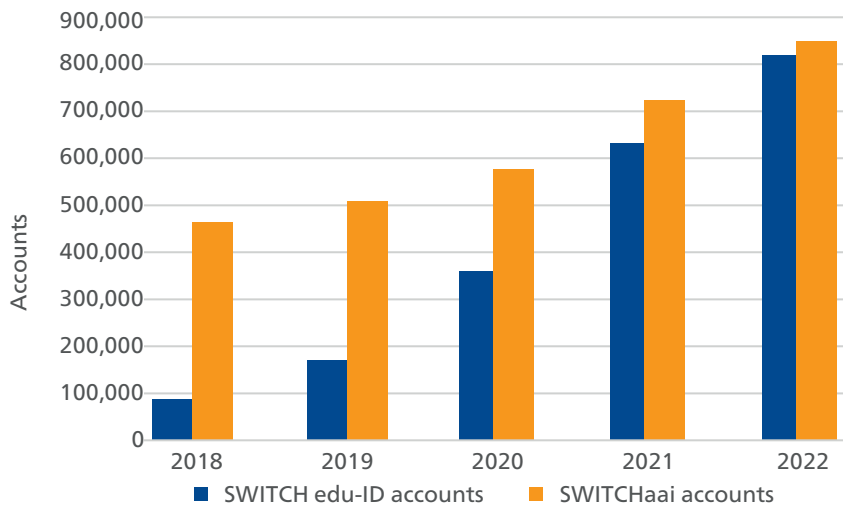
Development of published video hours on SWITCHtube.



	Published video hours
2018	9,413
2019	14,249
2020	59,100
2021	100,500
2022	101,540

Digital identities

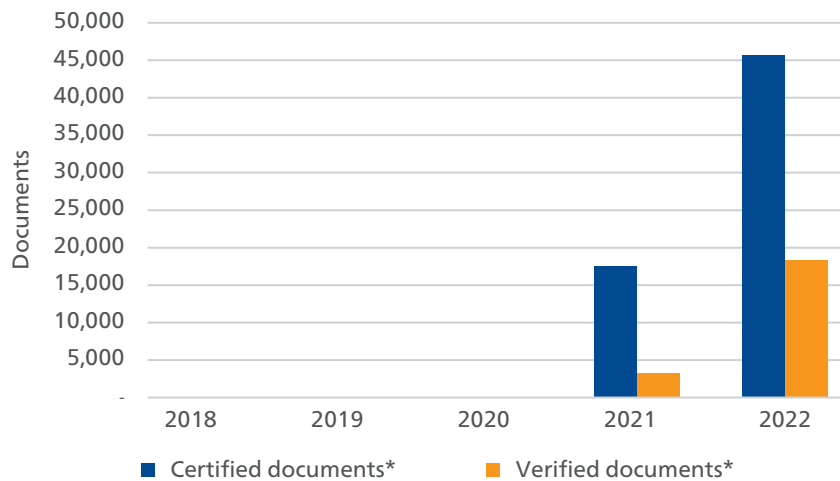
Development of SWITCH edu-ID and SWITCHaai accounts.



	SWITCH edu-ID accounts	SWITCHaai accounts
2018	87,000	464,370
2019	170,000	508,265
2020	360,000	577,352
2021	632,750	723,754
2022	820,000	849,768

Certification and verification of university diplomas

Development of certified and verified documents with SWITCHverify.



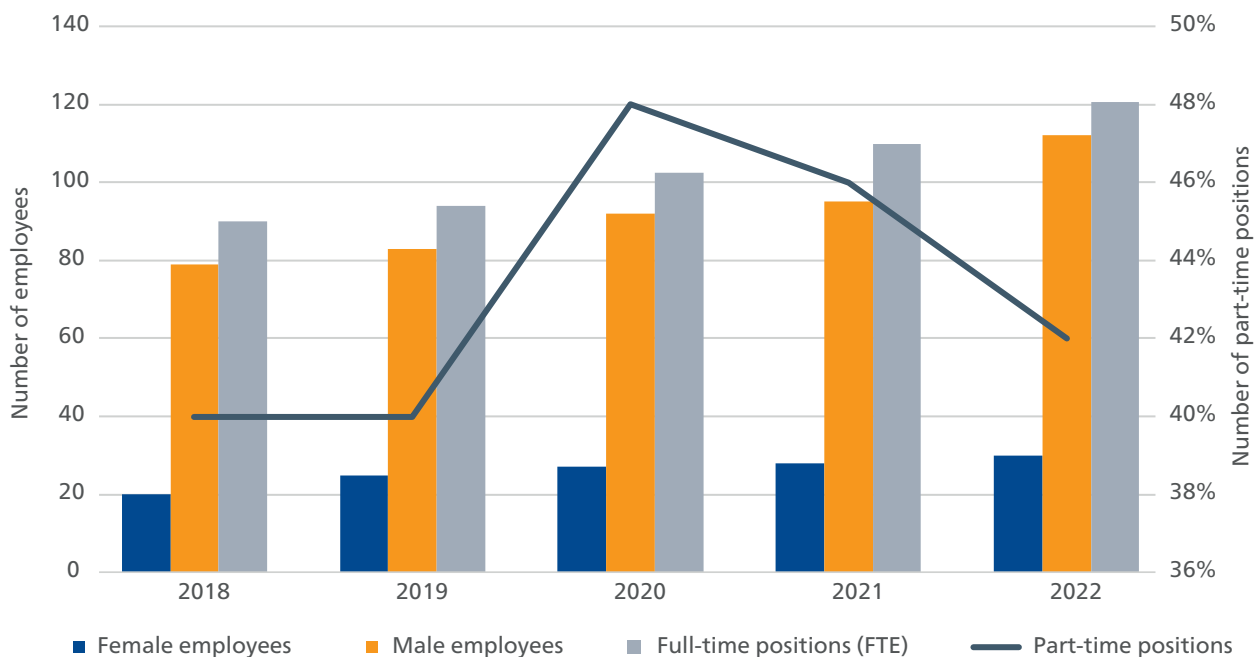
	Certified documents*	Verified documents*
2018	-	-
2019	-	-
2020	-	-
2021	17,566	3,314
2022	45,695	18,372

Notes

* Documents can be: diplomas, certificates, specialised degrees etc.

Employees

Development of staff structure.



	Employees*	Full-time positions	Proportion of women	Proportion of men	Part-time positions	Equal pay**
2018	99	90	20%	80%	40%	-
2019	108	94	23%	77%	40%	-
2020	119	103	23%	77%	48%	-
2021	123	110	23%	77%	46%	1.3%***
2022	142	121	21%	79%	42%	-

Notes

* 2022: In addition, there are four apprentices in the fields of systems engineering and application development as well as eight trainees and one intern.

** Equal pay between women and men is ensured when women and men receive the same pay for the same work and for work of equal value. Source: <https://www.ebg.admin.ch/ebg/en/home/services/logib-triage.html>

*** The equal pay study was first compiled in 2021. The result remains valid for several years. The equal pay rate at SWITCH is 1.3%. Interpretation of the findings: Taking staff and job-related aspects into account, women at SWITCH earn 1.3% less. The remaining difference in pay, which cannot be explained either by differences in personal qualifications or by job-related aspects, is not significantly far from zero in statistical terms. This means that, statistically, and based on the standard analysis model, there is no verified unexplained difference in pay between women and men in the strict sense.

International cooperations

The international networking of SWITCH with the most important organisations worldwide.

	World	Europe	USA	UK	Switzerland	Germany	Austria	Netherlands
Security								
APWG	•							
FIRST	•							
enisa		•						
GÉANT		•						
DNS-OARC	•							
C - CERT Verbund						•		
CERT.at							•	
EUROPOL		•						
TF-CSIRT		•						
TEAM Cymru	•							
Trust & Identity								
REFEDS	•							
Shibboleth	•							
SIRTFI	•							
GÉANT		•						
eduGAIN		•						
Network								
IEEE	•							
IETF	•							
GÉANT		•						
RIPE NCC								•
Infrastructure & Data Services								
Digital Infrastructure		•						
FIWARE	•							
GOFAIR		•						
GÉANT		•						
openstack	•							
HELIX		•						
e-IRG		•						
ORC	•							
Community Management & Solutions								
zki						•		
Internet 2			•					
DFN						•		
eduserv				•				
Cloud Forum by Cornell University			•					
The Lighthouse						•		
Digital Infrastructure		•						
Arge Software						•		
GÉANT		•						
SURF NET								•
EDUCAUSE			•					
SLB								•
Other								
ICANN			•					
CENTR		•						
Domain pulse					•	•	•	



SWITCH

Annual financial report

SWITCH Foundation, Bern

Transformation and turbulent stock exchange shaped the 2022 financial year

The transformation process will align the organisation even more strongly aligned with customer needs and market requirements. The increase in staff and projects required for this resulted in a negative operating result.

Income statement

Revenues increased by 8.2% compared to the previous year, with the revenues of universities increasing by 4.2%. Revenues of organisations related to universities increased by as much as 8.1%. SWITCH is also providing an additional service to the client OFCOM as a result of an amendment to the Ordinance on Internet Domains. This prompted an increase in revenues from domain names. The increase in net revenues vis-à-vis third parties also played a part. This is mainly due to the expansion of cybersecurity services for organisations that operate critical infrastructures. Overall, net revenues vis-à-vis third parties increased by 25.2%.

Expenses increased by 15.1% compared to the previous year, primarily due to the growth of the licensing business, additional operative and strategic projects and the increased headcount. This meant that personnel expenses rose by 8.4% compared to the previous year. The higher depreciation compared to the previous year is largely attributable to the higher rate of investment.

The turbulent stock exchange environment led to a net financial assets performance that was particularly negative at -13.9% (previous year: 8.0%). At CHF -1.9 million, the financial result is

negative for the first time in years, despite the partial reversal of the exchange rate fluctuation reserve in the amount of CHF 11.2 million. As at 31/12/2022, the exchange rate fluctuation reserve still totals CHF 2.7 million (previous year: CHF 13.9 million).

The 2022 financial year closed with an annual profit of CHF -5.9 million, which is significantly less than the previous year (CHF 0.4 million).

Balance sheet

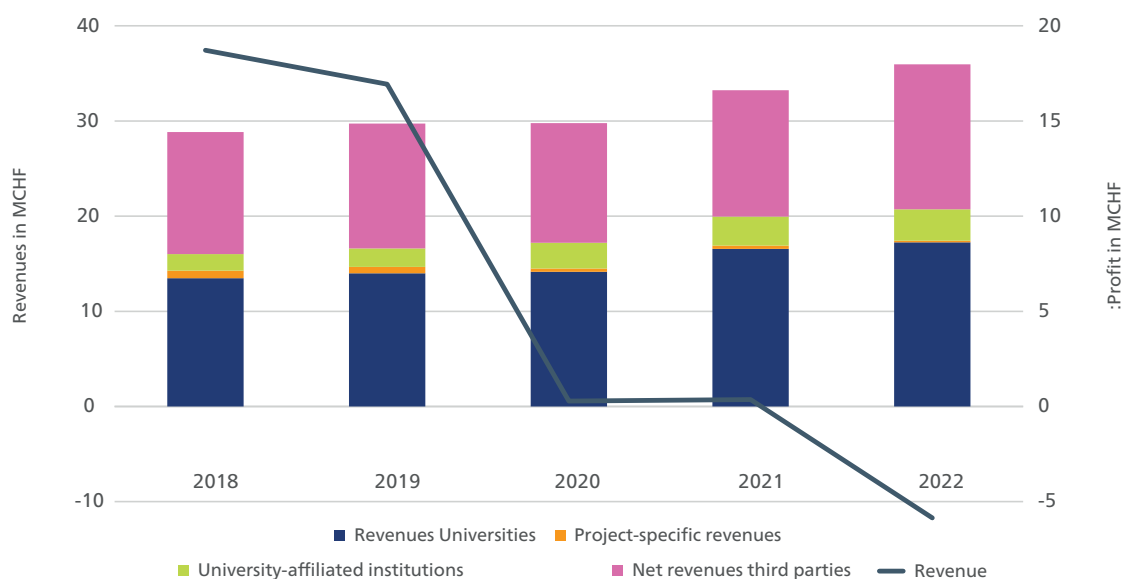
Even with a lower equity ratio of 76.1% compared to the previous year (86.9%), SWITCH is financially well equipped to tap into new potential for success. In the 2022 financial year, the holding acquired in Phoenix Systems AG (33.78%) is particularly noteworthy. This is the first time the holding is being recognised in the balance sheet.

Headcount

The average number of full-time positions during the year, excluding interns and students, was 120.56 (previous year: 109.83).

Risk assessment

Risk management is a key element of management and affects all areas of SWITCH. It is a central part of business planning. The office monitors the risks in the individual areas and discusses them with the Foundation Committee and the Foundation Council on a regular basis. SWITCH carries out a risk assessment on an annual basis.



Development of revenues and income from 2018 to 2022.

Balance sheet

Assets as at 31 December

in CHF k	Notes	2022	%	2021	%
Current assets					
Cash and cash equivalents	1	2,612		1,526	
Securities held on a short-term basis at market price	2	77,322		84,086	
Receivables from services		804		588	
Other short-term receivables		580		610	
Accrued income		3,575		4,050	
Total current assets		84,893	81.4	90,860	92.7
Fixed assets					
Holding in group companies	5	11,606		20	
Assets under construction					
Tangible assets	3	7,811		6,964	
Intangible assets	4	0		164	
Total fixed assets		19,417	18.6	7,148	7.3
Total assets		104,310	100.0	98,008	100.0

Liabilities as at 31 December

in CHF k	Notes	2022	%	2021	%
Debt capital					
Liabilities from services		1,747		1,629	
Other short-term liabilities	6	4,184		3,894	
Passive Rechnungsabgrenzungen	8	7,537		7,293	
Other short-term interest-bearing liabilities	7	11,500		0	
Deferred income	7	7,537		7,293	
Short-term debt capital		24,968	23.9	12,816	13.1
Total long-term debt capital		0	0.0	0	0.0
Total debt capital		24,968	23.9	12,816	13.1
Equity					
Foundation capital		10,000		10,000	
Free reserves		15,100		14,800	
Earmarked capital		60,000		60,000	
Profit/loss carried forward		92		30	
Annual profit		-5,850		362	
Total equity		79,342	76.1	85,192	86.9
Total liabilities		104,310	100.0	98,008	100.0

Income statement

in CHF k	Notes	2022	%	2021	%
Revenues					
Contributions from Swiss universities	10	17,243		16,556	
Project-specific contributions		174		347	
Contributions from university-affiliated institutions		3,301		3,053	
Revenues from miscellaneous third parties		2,085		1,665	
Revenues from domain names	11	13,148		11,605	
Total revenues		35,951	100.0	33,226	100.0
Expenses					
Expenses for services	12	-9,582		-8,173	
Personnel expenses	13	-21,609		-19,929	
Other operating expenses	14	-5,865		-4,400	
Depreciation		-2,844		-2,171	
Total expenses		-39,900	-111.0	-34,673	-104.4
Earnings before interest and taxes (EBIT)		-3,949	-11.0	-1,447	-4.4
Financial revenues	15	11,952		2,095	
Financial expenses	15	-13,868		-295	
Operating result		-5,865	-16,3	353	1,1
Non-operating revenues		15		9	
Non-operating profit		15	0,0	9	0,0
Annual profit		-5,850	-16,3	362	1,1

Cash flow statement

in CHF k	2022	2021
Cash flow from business activities		
Annual profit	-5,850	362
Depreciation of tangible assets	2,680	2,084
Depreciation of intangible assets	164	87
Increase (-)/decrease (+) Result from securities Investments in holdings	1,764	-2,052
<i>Increase (-)/decrease (+) in financial assets</i>		
<i>Increase (-)/decrease (+) in receivables from services</i>	-216	-215
<i>Increase (-)/decrease (+) in other short-term receivables</i>	30	197
<i>Increase (-)/decrease (+) in accrued income</i>	475	-1,142
<i>Increase (+)/decrease (-) in liabilities from services</i>	118	-156
<i>Increase (+)/decrease (-) in other short-term liabilities</i>	290	-884
<i>Increase (+)/decrease (-) in deferred income</i>	244	565
Cash flow from business activities	-301	-1,154
Cash flow from investment activities		
Investments in financial assets	-11,586	0
Divestments from financial assets	-12,000	-287
Investments in property, plant and equipment under construction	17,000	3,500
Investments in tangible assets	-3,527	-3,716
Investments in intangible assets	0	-94
Cash flow from investment activities	-10'113	-597
Cash flow from financing activities		
<i>Incurrence (+)/repayment (-) of long-term financial liabilities</i>	11,500	0
Cash flow from financing activities	11,500	0
Net change in cash and cash equivalents	1,086	-1,751
Cash and cash equivalents as at 1 January	1,526	3,277
Cash and cash equivalents as at 31 December	2,612	1,526
Change in cash and cash equivalents	1,086	-1,751

Equity statement

as at 31 December

in CHF k	Foundation capital	Free reserves	Earmarked capital	Profit/loss carried forward	Annual profit	Total equity
Equity as at 31/12/2020	10,000	14,500	60,000	48	282	84,830
Allocation of 2020 profit to profit reserves	0	0	0	282	-282	0
Free reserves	0	300	0	-300	0	0
Earmarked capital	0	0			0	0
Profit	0	0	0	0	362	362
Equity as at 31/12/2021	10,000	14,800	60,000	30	362	85,192
Allocation of 2021 profit to profit reserves	0	0	0	362	-362	0
Free reserves	0	300	0	-300	0	0
Earmarked capital	0	0	0	0	0	0
Profit	0	0	0	0	-5,850	-5,850
Equity as at 31/12/2022	10,000	15,100	60,000	92	-5,850	79,342

Annex

Accounting principles

This annual financial report has been prepared in accordance with the provisions of Swiss law, in particular in accordance with the articles on commercial bookkeeping and accounting (Art. 957 to 962 of the Swiss Code of Obligations).

The following principles were applied in the annual financial report:

- Completeness of the annual financial report
- Clarity and materiality of the information
- Prudence
- Continuation of business activities
- Consistency in presentation and valuation
- Inadmissibility of offsetting assets and liabilities as well as expenses and revenues

Rounding effects

Due to rounding made to the nearest CHF 1,000, there may be slight deviations in the amounts shown.

Valuation principles

Tangible and intangible assets

The tangible and intangible assets are recognised at acquisition cost, less the operationally required depreciation. Depreciation is calculated on a linear basis from the acquisition value. Please refer to the following table for the useful life.

Securities held on a short-term basis at market price

Securities are valued at their market value as at 31 December in the current year.

Securities held on a short-term basis are valued at the closing rate on the balance sheet date. Fluctuation reserves exist to take fluctuations in the share price into account. Please refer to Point 2 of the Annex for the fluctuation reserves.

Provisions

The amount of the provisions reflects the expected future cash outflows as at the balance sheet date.

Unrecognised lease liabilities

The rental agreement at Werdstrasse 2 in Zurich was concluded with a term until 30 November 2032. This corresponds to a lease liability not recognised on the balance sheet of CHF 13,781,855 (2020 = CHF 14,941,486).

Other possible unrecognised liabilities

There is a conditional liability in the maximum amount of CHF 1,448,255 (2021 = CHF 0) that relates to an acquisition.

	Useful life
Tangible assets	
Office furniture/equipment	10 years
Office machines	4 years
Hardware	
Workstations	3 years
Servers	4 years
Router infrastructure	5 years
Optical infrastructure	7 years
Fibre optics	10 years
Intangible assets	
Software	
Workstations	3 years
Servers	4 years

Notes

1. Cash and cash equivalents

The cash and cash equivalents are made up of the items cash office account and bank account. The cash flow statement demonstrates the change in cash and cash equivalents.

There is a limited deed of pledge amounting to CHF 470,734 in connection with the rental agreement for Werdstrasse 2 in Zurich.

2. Securities held on a short-term basis at market price

The Foundation Council decides on investment regulations. This defines the principles, guidelines, tasks and competencies for asset management that are to be applied over several years to ensure stability. The Foundation Council undertakes regular evaluation of the investment regulations.

Securities are valued at their market value as at 31 December in the current year.

in CHF k	Holdings 31.12.2022	Holdings 31.12.2021
Securities		
Securities	97,978	93,715
Price fluctuation reserve	-13,892	-8,467
Total	84,086	85,247

	Percentage distribution 31.12.2022	Percentage distribution 31.12.2021
Investment structure		
Liquidity	3,42%	2,49%
Bonds	38,80%	40,47%
Shares	42,35%	43,13%
Alternative investments	8,88%	7,29%
Real estate funds	6,55%	6,62%
Total	100,00%	100,00%

3. Tangible assets

in CHF k	Net holdings 01.01.2021	Acquisition value 01.01.2021	Additions	Disposals	Cumulative Depreciation 31.12.2021	Net holdings 31.12.2021
2021 tangible assets						
Office furniture/equipment	166	183	1,834	-38	-65	1,914
Office machines	64	98	151	-32	-35	182
Hardware						
- Workstations	9	60	12	0	-60	12
- Servers	1,893	5,779	1,927	-364	-4,607	2,735
Router infrastructure	538	3,687	124	-34	-3,312	465
Optical infrastructure	1,562	5,322	180	-35	-4,303	1,164
Fibre optics	511	1,025	77	-4	-606	492
Total	4,744	16,154	4,305	-507	-12,988	6,964

in CHF k	Net holdings 01.01.2022	Acquisition value 01.01.2022	Additions	Disposals	Cumulative Depreciation 31.12.2022	Net holdings 31.12.2022
2022 tangible assets						
Office furniture/equipment	1,914	1,979	137	0	-272	1,844
Office machines	182	216	0	0	-88	128
Hardware						
- Workstations	12	72	11	0	-67	16
- Servers	2,735	7,342	2,727	-268	-6,037	3,763
Router infrastructure	465	3,778	290	-40	-3,491	536
Optical infrastructure	1,164	5,467	324	-177	-4,526	1,088
Fibre optics	492	1,098	38	-37	-663	436
Total	6,964	19,951	3,527	-522	-15,145	7,811

4. Intangible assets

in CHF k	Net holdings 01.01.2021	Acquisition value 01.01.2021	Additions	Disposals	Cumulative depreciation 31.12.2021	Net holdings 31.12.2021
2021 intangible assets						
Software						
- Workstations	13	82	0	0	-79	3
- Servers	156	644	72	-176	-386	154
Total	169	726	72	-176	-465	157

in CHF k	Net holdings 01.01.2022	Acquisition value 01.01.2022	Additions	Disposals	Cumulative depreciation 31.12.2022	Net holdings 31.12.2022
2022 intangible assets						
Software						
- Workstations	3	82	0	-17	-65	0
- Servers	154	541	94	-132	-339	164
Total	157	623	94	-149	-404	164

5. Holding in group companies

	Holdings 31.12.2022	Holdings 31.12.2021
Company name, legal form and registered office		
SWITCH GmbH, Zurich		
Share in capital and voting rights	100%	100%
Phoenix Systems AG, Zurich		
Share in capital and voting rights	33,78%	0.00%

6. Other short-term liabilities

in CHF k	Holdings 31.12.2022	Holdings 31.12.2021
Other short-term liabilities		
Various creditors	377	425
Current account project-related contributions	175	351
Social security	119	406
Payments on account by domain name Registrars	3,513	2,712
Total	4,184	3,894

7. Other short-term and long-term interest-bearing liabilities

in TCHF	Holdings 31.12.2022	Holdings 31.12.2021
Other short-term and long-term interest-bearing liabilities		
Short-term loans	11,500	0
Total	11,500	0

8. Deferred income

in CHF k	Holdings 31.12.2022	Holdings 31.12.2021
Deferred income		
Annual domain name fee	5,970	5,846
Other deferred income	1,567	1,447
Total	7,537	7,293

9. Earmarked capital

in CHF k	1	Holdings 01.01.2022	Additions	Disposals	Holdings 31.12.2022
Earmarked capital					
Strategic reserve		50,000	0	0	50,000
Operational reserve		10,000	0	0	10,000
Total		60,000	0	0	60,000

1 Reserves have been formed in recent years so that future services can be built up in various subject areas.

10. Contributions from Swiss universities

The charges for services offered are set annually by the Foundation Council.

in CHF k	2022	2021
Contributions from Swiss universities		
Revenues from Swiss Federal Institutes of Technology	4,539	4,300
Revenues from universities	6,303	6,046
Revenues from universities of applied sciences	5,208	5,047
Revenues from universities of teacher education	1,193	1,163
Total	17,243	16,556

11. Revenues from domain names

Revenues according to contractual agreement with OFCOM

12. Expenses for services

in TCHF	2022	2021
Expenses for services		
Network infrastructure	-2,748	-2,764
IT expenses	-4,737	-3,753
Consulting and outsourcing expenses	-2,097	-1,656
Total	-9,582	-8,173

13. Personnel expenses

in CHF k		2022	2021
Personnel expenses			
Employees as at 31 December	2	142,00	123,00
Average FTEs (full-time equivalents)	2	120,56	109,83
Salaries		-16,970	-15,907
Social security expenses		-3,221	-3,049
Other personnel expenses	3	-1,418	-973
Total		-21,609	-19,929

2 These values do not include interns or apprentices.

3 The other personnel expenses include the costs for personnel procurement, further training, compensation for allowable expenses and subsistence expenses.

14. Other operating expenses

in CHF k

		2022	2021
Other operating expenses			
Premises expenses		-1,994	-1,844
Maintenance and repairs		-718	-490
Taxes/insurance		-89	-93
Administrative expenses		-2,459	-1,589
Marketing/PR		-511	-380
Financial revenues	4	0	4
Financial expenses	4	-94	-8
Total		-5,865	-4,400

4 Financial revenues and financial expenses from current accounts

15. Financial result

in CHF k

		2022	2021
Financial revenues			
Securities revenues and interest		769	631
Gains on exchange from securities		0	6,889
Change in fluctuation reserve		11,183	-5,424
Financial expenses			
Securities expenses and interest		-19	-3
Exchange loss from securities		-13,654	-47
Management of financial assets		-195	-246
Total		-1,916	1,800

SWITCH

Audit report

Bericht der Revisionsstelle

an den Stiftungsrat der SWITCH

Bern

Bericht zur Prüfung der Jahresrechnung

Prüfungsurteil

Wir haben die Jahresrechnung der SWITCH (die Stiftung) – bestehend aus der Bilanz zum 31. Dezember 2022, der Erfolgsrechnung, der Geldflussrechnung und des Eigenkapitalnachweis für das dann endende Jahr sowie dem Anhang, einschliesslich einer Zusammenfassung bedeutsamer Rechnungslegungsmethoden – geprüft.

Nach unserer Beurteilung entspricht die beigelegte Jahresrechnung dem schweizerischen Gesetz, der Stiftungsurkunde und den Reglementen.

Grundlage für das Prüfungsurteil

Wir haben unsere Abschlussprüfung in Übereinstimmung mit dem schweizerischen Gesetz und den Schweizer Standards zur Abschlussprüfung (SA-CH) durchgeführt. Unsere Verantwortlichkeiten nach diesen Vorschriften und Standards sind im Abschnitt „Verantwortlichkeiten der Revisionsstelle für die Prüfung der Jahresrechnung“ unseres Berichts weitergehend beschrieben. Wir sind von der Stiftung unabhängig in Übereinstimmung mit den schweizerischen gesetzlichen Vorschriften und den Anforderungen des Berufsstands, und wir haben unsere sonstigen beruflichen Verhaltenspflichten in Übereinstimmung mit diesen Anforderungen erfüllt.

Wir sind der Auffassung, dass die von uns erlangten Prüfungsnachweise ausreichend und geeignet sind, um als eine Grundlage für unser Prüfungsurteil zu dienen.

Sonstige Informationen

Der Stiftungsrat ist für die sonstigen Informationen verantwortlich. Die sonstigen Informationen umfassen alle im Geschäftsbericht enthaltenen Informationen, aber nicht die Jahresrechnung und unseren dazugehörigen Bericht.

Unser Prüfungsurteil zur Jahresrechnung erstreckt sich nicht auf die sonstigen Informationen, und wir bringen keinerlei Form von Prüfungsschlussfolgerung hierzu zum Ausdruck.

Im Zusammenhang mit unserer Abschlussprüfung haben wir die Verantwortlichkeit, die sonstigen Informationen zu lesen und dabei zu würdigen, ob die sonstigen Informationen wesentliche Unstimmigkeiten zur Jahresrechnung oder unseren bei der Abschlussprüfung erlangten Kenntnissen aufweisen oder anderweitig wesentlich falsch dargestellt erscheinen.

Falls wir auf Grundlage der von uns durchgeführten Arbeiten den Schluss ziehen, dass eine wesentliche falsche Darstellung dieser sonstigen Informationen vorliegt, sind wir verpflichtet, über diese Tatsache zu berichten. Wir haben in diesem Zusammenhang nichts zu berichten.

Verantwortlichkeiten des Stiftungsrates für die Jahresrechnung

Der Stiftungsrat ist verantwortlich für die Aufstellung einer Jahresrechnung in Übereinstimmung mit den gesetzlichen Vorschriften, der Stiftungsurkunde und den Reglementen und für die internen Kontrollen, die der Stiftungsrat als notwendig feststellt, um die Aufstellung einer Jahresrechnung zu ermöglichen, die frei von wesentlichen falschen Darstellungen aufgrund von dolosen Handlungen oder Irrtümern ist.

Bei der Aufstellung der Jahresrechnung ist der Stiftungsrat dafür verantwortlich, die Fähigkeit der Stiftung zur Fortführung der Geschäftstätigkeit zu beurteilen, Sachverhalte in Zusammenhang mit der Fortführung der Geschäftstätigkeit – sofern zutreffend – anzugeben sowie dafür, den Rechnungslegungsgrundsatz der Fortführung der Geschäftstätigkeit

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anzuwenden, es sei denn, der Stiftungsrat beabsichtigt, entweder die Stiftung zu liquidieren oder Geschäftstätigkeiten einzustellen, oder hat keine realistische Alternative dazu.

Verantwortlichkeiten der Revisionsstelle für die Prüfung der Jahresrechnung

Unsere Ziele sind, hinreichende Sicherheit darüber zu erlangen, ob die Jahresrechnung als Ganzes frei von wesentlichen falschen Darstellungen aufgrund von dolosen Handlungen oder Irrtümern ist, und einen Bericht abzugeben, der unser Prüfungsurteil beinhaltet. Hinreichende Sicherheit ist ein hohes Mass an Sicherheit, aber keine Garantie dafür, dass eine in Übereinstimmung mit dem schweizerischen Gesetz und den SA-CH durchgeführte Abschlussprüfung eine wesentliche falsche Darstellung, falls eine solche vorliegt, stets aufdeckt. Falsche Darstellungen können aus dolosen Handlungen oder Irrtümern resultieren und werden als wesentlich gewürdigt, wenn von ihnen einzeln oder insgesamt vernünftigerweise erwartet werden könnte, dass sie die auf der Grundlage dieser Jahresrechnung getroffenen wirtschaftlichen Entscheidungen von Nutzern beeinflussen.

Eine weitergehende Beschreibung unserer Verantwortlichkeiten für die Prüfung der Jahresrechnung befindet sich auf der Webseite von EXPERTsuisse: <http://expertsuisse.ch/wirtschaftspruefung-revisionsbericht>. Diese Beschreibung ist Bestandteil unseres Berichts.

Bericht zu sonstigen gesetzlichen und anderen rechtlichen Anforderungen

In Übereinstimmung mit Art. 83b Abs. 3 ZGB in Verbindung mit Art. 728a Abs. 1 Ziff. 3 OR und PS-CH 890 bestätigen wir, dass ein gemäss den Vorgaben des Stiftungsrates ausgestaltetes internes Kontrollsystem für die Aufstellung der Jahresrechnung existiert.

Wir empfehlen, die vorliegende Jahresrechnung zu genehmigen.

PricewaterhouseCoopers AG



Thomas Wallmer
Zugelassener Revisionsexperte
Leitender Revisor



Kerstin Baumgartner
Zugelassene Revisionsexpertin

Zürich, 1. März 2023

Beilage:

- Jahresrechnung (Bilanz, Erfolgsrechnung, Geldflussrechnung, Eigenkapitalnachweis und Anhang)



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