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Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI

Transitional Cybersecurity Measures: SwissCyber Initiative

Prof. Dr. Andrei Kucharavy

Satw technology for society

Reliable Information Lab & Gen Learning Center co-director Informatics Institute, **HES-SO Valais-Wallis**



Cyber-Alps Retreat Hotel Schatzalp, Davos

20 June 2025

Goal of the Project

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Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI

Federal Department of Defence, Civil Protection and Sport DDPS National Cyber Security Centre NCSC



Hochschule für Wirtschaft

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ACTUAL

TARGET





Genesis of the Project



- Networking event on 14.09.2023 lead to the decision to extend a prior study about cybersecurity in academia to the industry
- Funding possibility in the context of the transitionnal measure of 2021-2027 Horizon package – approval in may 2024
- Elaboration of the project with SATW Cybersecurity Advisory Board, armasuisse and HES-SO Wallis/Valais



Cybersecurity R&D Landscape Dashboard

wiss Companies Opera ybersecurity Domain li	isted by Money I	kaised						
Organization Name	Money Raised (in USD)	Age	Equal or less than 8 y	rears	4405	0.71		
cronis	658.00M	22	Organization Name	_	1107	2.7bn		
ormakaba Holding	517.15M	10	Search	Q //		2.7 811		
nar	457.00M	17						
SeKev	276.64M	26						
las	135.00M	6	Organization Name		Full Descript	ion	Website	
rra Quantum	90.00M	6	Acronis	Acronis unifie	es data protection and cybersed	urity to deliver integrated	https://www.acronis.com	
ire	60.21M	13	Actoria		ber protection that solves the		https://www.actonis.com	
llion	50.00M	4		authenticity,	and security (SAPAS) challenges	of the modern digital world.		
ability	41.97M	11			deployment models that fit the			
tGuardians	33.44M	18			sionals, Acronis provides super			
EOSATIS	30.17M	14			and systems with innovative ne very, and endpoint protection n			
oonX	29.00M	8			dvanced anti-malware powered		14	unds raised by Companies operating in the Cybersecurity
YM Technologies SA	27.95M	8			nd blockchain based data auth		nis	1
ngem	23.00M	8			environment - from cloud to hy			
napaya	22.29M	8			ost. Acronis is a Swiss company			Acronis 658M
esorit	17.78M	14			wo decades of innovation, Acro 45 locations. Acronis Cyber Pro			rmakaba Holding 517M
ralytics	17.53M	13			over 150 countries and is used			Sonar 457M
leph Zero	16.30M	7			750.000			WISeKey 277M
rickMark otal of Money Raised	10.94M 2719.99	7	NYM Technologies SA		net protocols leak sensitive dat			Velas 135M
stal of Money Kalsed	2719.991	M		levels - we ar	e developing the infrastructure	to prevent this data leakage a	and	Terra Quantum 90M
				Pre-Seed	es Unknown ssistance		11.90% 8.93% 7.44%	NetGuardians 33M GEOSATIS 30M
	2019 Yes	16	15		ssistance g t t und d fering		8.33% 7.44% 6.55% 4.49% 6.57% 6.9% 6.6%	NetGuardians 33M GEOSATS 30M M Technologies 28M Anapaya 22M Treson: 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) *ibution of Companies that raised Funds within the Cybersecurity Domain
	Yea	ar 40	15 2000 1 (459) (759)	Pre-Seed Non-equity A: Series A Debt Financin Series B Post-IPO Debt Angel Angel Series C Convertible T, Convertible Funding Roun Series D Initial Coin Of Post-IPO Equi Series G	ssistance g t t ote d fering fy St (45%) Number	3 2.6 2.3 2.00 1.499 0.899% 0.899% 0.899% 0.899% 0.899% 0.899% 0.899% 0.899% 0.899% 0.899% 0.899%	8.33% 7.44% 0.55% 4.35% 8.% 9.% 9.% 9.%	GEOSATIS 30M M Technologien. 22M Anapay 22M Tresorit 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
	Yea	ar Ar	14 6	Pre-Seed Non-equity A: Series A Debt Financin Series B Post-IPO Debt Angel Series C Convertible T Funding Roun Series D Initial Coin Of Post-IPO Equi Series G	ssistance 9 t and d tering ty 98 (45%) Number • 1-10	3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	■ 33% 7.44% 6.53% 157% 157% 9% 9% 9% 9%	GEOSATIS 30M M Technologien. 22M Anapay 22M Tresorit 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
	Yea	ar 40	14 6	Pre-Seed Non-equity A: Series A Debt Financin Series B Post-IPO Debt Angel Series C Convertible T Funding Roun Series D Initial Coin Of Post-IPO Equi Series G	ssistance g t t ote d fering fy St (45%) Number	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8.33% 7.44% 6.55% 4.46% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.57% 5.5% 5.57% <td< td=""><td>GEOSATIS 30M M Technologies. Anapaya 22M Tresort 18M Scantrust 8M 0M 200M 400M 600M Sum of Money Raised (in USD) 1bution of Companies that raised Funds within the</td></td<>	GEOSATIS 30M M Technologies. Anapaya 22M Tresort 18M Scantrust 8M 0M 200M 400M 600M Sum of Money Raised (in USD) 1bution of Companies that raised Funds within the
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	Yea	ar 40	14 6	Pre-Seed Non-equity A: Series A Debt Financin Series B Post-IPO Debt Angel Series C Convertible T Funding Roun Series D Initial Coin Of Post-IPO Equi Series G	ssitance 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	vm 0 50 50 50 50 50 50 50 50 50 50 50 50 5	■ 833% 7.44% 6.55% 1.57% 1.57% 9.% 9.% 9.% 9.% 9.% 9.% 9.% 9.% 9.% 9.	GEOSATIS 30M M Technologien. 22M Anapay 22M Tresorit 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
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Number of company

• Long-term:

- Automatically updated
- Persisting after the project end
- Actionable:
 - Able to inform strategic decisions
 - Sufficient to evaluate measures effects
- R&D occurring in:
 - Private companies
 - Public organizations

Swice Companies Operating in the



Cybersecurity R&D Landscape ACTUAL / TARGET

ACTUAL Analysis

- ⇒Comprehensive overview of the current state of cybersecurity R&D in Switzerland
 - Public and private

\Rightarrow Approaches:

- Data Mining
- Large-Scale cybersecurity community consultation
 - => survey

TARGET Analysis

- ⇒Understand of the cybersecurity R&D needs
 - Discover current R&D blind spots
 - Support evidence-based policy
 - Maintain competitivenes in the global cybersecurity landscape
- \Rightarrow Approaches:
 - Data Mining
 - Targeted experts interviews



Cybersecurity R&D Landscape Recommendations & Dissemination

wiss Companies Oper Cybersecurity Domain	listed by Money	Raised	Startup	Nu				
Organization Name	Money Raised (in USD)	Age	Equal or less than 8 y	/ears		0 51		ACTUAL
Acronis	658.00M	22	Organization Name	_	1107	2.7bn		ACIUAL
dormakaba Holding	517,15M	10	Search	Q 1				
Sonar	457.00M	17						
WISeKey	276.64M	26						
Velas	135.00M	6	Organization Name		Full Descript	ion	Website	
Terra Quantum	90.00M	6	Acronis	· · · · · · · · · · · · · · · · · · ·				•
Wire	60.21M	13	Acronis			urity to deliver integrated, afety, accessibility, privacy,	https://www.acronis.com	TARGET
Nillion	50.00M	4				of the modern digital world.		
Flyability	41.97M	11				demands of service providers		
NetGuardians	33.44M	18				or cyber protection for data,		
GEOSATIS	30.17M	14		applications, and s	ystems with innovative ne	xt-generation antivirus, backu	p.	
MoonX	29.00M	8				nanagement solutions powere	d	unds raised by Companies operating in the Cybersecu
NYM Technologies SA	27.95M	8				by cutting-edge machine entication technologies, Acron		and braised by companies operating in the cyberseed
Tangem	23.00M	8				entication technologies, Acron brid to on premises - at a	115	·
Anapaya	22.29M	8			cronis is a Swiss company,			Acronis 658M
Tresorit	17.78M	14			cades of innovation. Acro			
						tect solution is available in 26	i	rmakaba Holding 517M
Teralytics	17.53M 16.30M	13		languages in over	150 countries and is used	by 16,000 service providers to		Sonar 457M
Aleph Zero	16.30M 10.94M	7						WISeKey 277M
BrickMark Total of Money Raised	10.94M 2719.99		NYM Technologies SA			a at both network and applicat to prevent this data leakage a		Velas 135M
fotal of Molley Kalsed	2/13.33	m		levels – we are dev	eloping the intrastructure	to prevent this data leakage a	ind	Terra Quantum 90M
20 20 20 215		16	15	Venture - Series Uni Pre-Seed Non-equity Assistar Series A Debt Financing Series P			11.90% 8.93% 7.44% 6.55% 4.46%	NetGuardians 33M GEOSATIS 30M M Technologies 28M Anapay 22M
	2010 Ye	16	15	Pre-Seed Non-equity Assistar Series A	ice		0.03% 7.44% 5.5% 4.4% 5.7% 9% 9%	GEOSATIS 30M
	2010 Ye		15 2000 1430(192)(192)	Pre-Seed Non-equity Assistar Series A Debt Financing Series B Past-IPO Debt Angel Series C Convertible Note Private Equity Corporate Round Finding Round Series D Initial Coin Offering Post-IPO Equity Series G	ce Number	3 2.6 2.3 1.4 1.4 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	8.33% 7.44% 6.55% 5.7% 6% 9% 6 6	GEOSATIS 30M M Technologies. 28M Anapaya 22M Treport 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
				Pre-Seed Non-equity Assistan Series A Debt Financing Series B Post-IPO Debt Angel Series C Convertible Note Private Equity Corporate Round Series D Initial Coin Offering Nost-IPO Equity	ce Number	3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	■ 203% 7.44% ● 55% 4.40% 57% 9% № ■ ■	GEOSATIS 30M M Technologies. 28M Anapaya 22M Treport 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
		40		Pre-Seed Non-equity Assistar Series A Debt Financing Series B Past-IPO Debt Angel Series C Convertible Note Private Equity Corporate Round Finding Round Series D Initial Coin Offering Post-IPO Equity Series G	se 5%) Number ● 1-10 ● 11-50	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 233% 7 245% 5 55% 4 24% 5 75% 6 % 9 % 9 %	GEOSATIS 30M M Technologies. 28M Anapaya 22M Trecorit 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
		40 86 (8%) —		Pre-Seed Non-equity Assistar Series A Debt Financing Series B Past-IPO Debt Angel Series C Convertible Note Private Equity Corporate Round Finding Round Series D Initial Coin Offering Post-IPO Equity Series G	ce 5%) Number ● 1-10	3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.03% 7.44% 5.5% 4.40% 5.7% 6.5% 5.5% 6.5% 5.5% 6.5% 5% 6.5% 6 6.5% 7% 6% 8% 6% 9% 6%	GEOSATIS 30M M Technologies. 28M Anapaya 22M Trecorit 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
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		40 86 (8%) —		Pre-Seed Non-equity Assistar Series A Debt Financing Series B Past-IPO Debt Angel Series C Convertible Note Private Equity Corporate Round Finding Round Series D Initial Coin Offering Post-IPO Equity Series G	5%) Number 0 1-10 0 Unkin 0 51-10	* of Employees	₹ 233% 7 245% 55% 426% 55% 55% 65% 65% 65% 65% 65% 6	GEOSATIS 30M M Technologies. 28M Anapaya 22M Trecorit 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
		40 86 (8%) —		Pre-Seed Non-equity Assistar Series A Debt Financing Series B Past-IPO Debt Angel Series C Convertible Note Private Equity Corporate Round Finding Round Series D Initial Coin Offering Post-IPO Equity Series G	5%) Number ● 1-10 ● 11-50 ● Unkno ● 51-10 ● 10-21 ●	a 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	₹ 233% 7 245% 55% 426% 55% 55% 65% 65% 65% 65% 65% 6	GEOSATIS 30M M Technologies. 28M Anapaya 22M Trecorit 18M Scantrust 8M OM 200M 400M 600M Sum of Money Raised (in USD) Tibution of Companies that raised Funds within the
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- Issue recommendations
 - Data-driven
 - Specific
 - Realistic
 - Actionable
- Disseminate the results
 - Public outreach
 - Targeted events



Advisory Board









HSLU Hochschule Luzern

Satw technology for society



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

Swiss Confederation

Federal Department of Defence, Civil Protection and Sport DDPS National Cyber Security Centre NCSC



Imil

UNIL | Université de Lausanne



Project Organization

Scientific Lead, ACTUAL/TARGET **Recommendations**









Dimitri Percia David Associate professor UAS



Andrei Kucharavy Assistant professor UAS

Dissemination & Outreach





Dashboard Development











CYD Campus Contribution SwissCyber Initiative

20.06.2025 Vladimir Pfister, Cyber-Defence Campus

2023 : Mapping the Swiss Cybersecurity Academia Landscape





2023 : Academic Research Landscape

- CYD Campus open access study based on a survey
- Highlighting gaps in cybersecurity academic research



Resources per Domain and University Appendix E: Resources per Domain and University Table 3: Resources invested for each university and research domain (empty cells correspond to a value of zero). FFL OST Assurance, Audit, and Cert. 5.2 12.0 28.0 1.5 Cryptology 1.2 6.0 18.0 Data Security and Privacy 6.0 1.5 1.8 4 Education and Training Human Aspects 1.2 4 Identity Management 2 Incident Handling/Forensics 1.2 5.0 2<u>5.0</u> Network and Distr. Systems 1.5 0.6 42.8 9 1.2 Security Mgmt and Govern 1.2 1 Security Measurements 18.0 33.5 7.2 Software and Hardware Sec Steganography etc. 0 Theoretical Foundations 2.0 6.0 7.0 10.0 1.2 0.6 Trust Mgmt. and Account 11.6 50.0 134.5 20.4 5.4 7.0 4.2 4.0 3.9 24.2 8.8 12.2 297.3 **Total Resources** # Domains 2 4 2 1 2 2 3 2 4 8 6 2 2

Burkhart, M., Meier, R., & Tellenbach, B. (2023, September). Cybersecurity research landscape in Switzerland. https://doi.org/10.13140/RG.2.2.27275.60962

2025 : Mapping the Swiss Cybersecurity Industry Landscape





Collaboration between Government and Academic Actors



2025 : Mapping the Swiss Cybersecurity Industry Landscape



CYD Campus Contribution

- Human ressources
- Office at EPFL Innovation Park
- Data source access
- Computing Power



2025 : Interest of the CYD Campus

- Extend prior research findings to the industrial R&D
- Monitore & Map the Swiss cybersecurity market
- Create a **directory** of companies classified by cybersecurity domain





Data Used for the Study

Crunchbase

- Biggest financial database for private companies/start-up
- Many useful metrics available (e.g., field, funding, number of employee, etc.)

Pitchbook

- US database part of Morningstar since 2016
- Used to complete Crunchbase (e.g., multiple company taxonomies, accounting data for large companies)

Other

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- Patent (SWISSREG)
- Commercial register (Zefix)



Schweizerische Eidgenossenschaft

Confédération suisse

Confederazione Svizzera

Central Business Name Index

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cb







Data Used for the Study

Survey

- Experts' opinion on the current state of cybersecurity in Switzerland
- Experts' opinion on the **future** of cyber-threats, security and technologies
- Quantitative (likert scale) and qualitative (open-ended questions)
- Qualitative data will be processed with LLM and provide unbiased unexpected information





Help shape the future of cybersecurity in Switzerland!

The SwissCyber Initiative is a national project funded by the Swiss State Secretariat for Education, Research and Innovation (SERI). It is led by <u>HES-SO Valais-Wallis</u>, in partnership with the Swiss Academy of Engineering Sciences (SATW) and the <u>Cyber-Defence Campus</u>.

This survey seeks to identify the strengths, challenges, future opportunities, and threats in the Swiss cybersecurity ecosystem. We are inviting cybersecurity experts, industry stakeholders, and investors to share their perspectives to help guide research, policy, and innovation.







CY



SwissCyber Initiative

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Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI

Federal Department of Defence, Civil Protection and Sport DDPS National Cyber Security Centre NCSC



Hochschule für Wirtschaft

Σ







ACTUAL

TARGET





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Gen Learning Center:

https://tinyurl.com/hevs-gen-learning





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