

The Swiss Startup Landscape

A report on cybersecurity startups would not be complete without describing the dense network of innovative firms that have settled down here in Switzerland. Indeed, the country is becoming a leading player in cybersecurity technologies (see Swiss Cyber Map on page 7). The Swiss Cybersecurity Start-Up map has aggregated the main players of the industry into the visual below. Another great resource to get to know the posture of the Swiss startup landscape in the field of cybersecurity is the following video by Clusis Suisse:

To the video



Figure 24: Swiss Cybersecurity Start-Up Map (Swiss Cybersecurity Startup Map, 2021)

Scouting in Switzerland occurs through partnerships between the CYD Campus and public or private stakeholders. A collaborative agreement was set up with the telecoms company **Swisscom**, with the purpose of exchanging information about trends, technologies and products in the areas of cybersecurity, big data and artificial intelligence. Swisscom can tap into the CYD's extensive presence on university campuses such as ETH, EPFL and Oxford, whilst the CYD Campus itself benefits from Swisscom's strong foothold in Silicon Valley, particularly thanks to Swisscom's **Cloud Lab**.

Company	Industries	Headquarters	Total funding amount (USD)
dormakaba Holding AG	Security	Rumlang, ZH	517'153'998
Acronis	Cloud Security, Cybersecurity	Schaffhausen, SH	408'000'000
WiSeKey	AI, Blockchain, Cybersecurity	Geneva, GE	256'639'757
Wire	Mobile Apps, Security	Zug, ZG	35'450'000
NetGuardians	Cybersecurity, FinTech	Yverdon-les-bains, VD	33'437'410
GEOSATIS	Cybersecurity, Internet of Things	Le Noirmont, JU	30'168'097
MoonX	Blockchain, Financial Exchanges	Geneva, GE	29'000'000
Flyability	Drones, Robotics	Lausanne, VD	26'612'753
Tresorit	Cloud Security, Cybersecurity	Zurich, ZH	17'776'072
Teralytics	AI, Business Intelligence	Zurich, ZH	17'532'436
Tangem	Cryptocurrency, Security	Zug, ZG	15'000'000
SECUDE International	Consulting, Security	Emmetten, NW	10'700'000
Arviem	Internet of Things, Supply Chains	Baar, ZG	10'152'062
AXSionics	Fraud Detection, Network Security	Biel, BE	9'856'390
Anapaya*	Internet, Network Security	Zurich, ZH	9'382'983
WealthArc	Big Data, Cloud Computing	Zurich, ZH	8'871'145
Nym Technologies	Blockchain, Messaging, Privacy	Neuchatel, NE	8'500'000
Futurae*	Cybersecurity	Zurich, ZH	7'571'221
Scantrust	Consulting, Fraud Detection	Lausanne, VD	5'827'177
ID Quantique	Network Security, Security	Geneva, GE	5'600'000
Bacula Systems	Network Security, Software	Yverdon-les-bains, VD	5'000'000
ProtonMail	Cybersecurity, Messaging	Geneva, GE	4'796'926
High-Tech Bridge	Compliance, Cybersecurity	Geneva, GE	4'300'000
xorlab*	Cybersecurity	Zurich, ZH	3'955'139
Spitch	AI, Analytics, Biometrics	Zurich, ZH	3'375'421
pCloud	Cloud Computing, Cybersecurity	Baar, ZG	3'000'000
ROVENSO	Machinery Manufacturing, Robotics	Villaz-Saint-Pierre, FR	2'844'010
Biowatch	Internet of Things, Smart Home	Lausanne, VD	2'542'006
ComfyLight AG	Internet of Things, Security	Zurich, ZH	2'156'867
CYSEC*	Cybersecurity	Lausanne, VD	2'141'436

Figure 25: Swiss cybersecurity firms with a total funding amount of over \$2 million (Crunchbase, 2021). Startups marked with an asterisk were mentioned by startup.ch for their strong contribution to cybersecurity.

Figure 25 draws up an exhaustive list of Swiss cybersecurity startups with funding above US\$ 2'000'000. Companies marked with an asterisk (*) also appear on the Startup.ch list "*Cybersecurity: 10 Swiss startups to secure your IT infrastructure in 2021*". Other startups on the list are Decentriq, exeon, PRODAFT, PXL Vision, SHAREKEY and Tune Insight (startup.ch, 2021).

The CYD Campus is also promoting startups with its own initiatives. Indeed, Gartner highlighted the need for security and risk management leaders to evaluate providers through trials rather than simply through requests-for-proposals (RFPs). The **Cyber Startup Challenge** of the Cyber-Defence Campus is thus offering young companies the chance to pitch their ideas for a Proof of Concept executed within the Swiss Armed Forces (armasuisse, 2021b). The challenge offers a great opportunity not only to the young companies that participate, but also to the Swiss army itself, which comes out of the challenge more knowledgeable about the industry. Organised by Dr. Colin Barschel, it is now running into its second edition. This year, the Cyber-Defence Campus launched the call for the Cyber Startup Challenge on the topic of innovative solutions in the area of Information Sharing and Analysis Centers (ISAC). The call was answered by 36 startups, who presented their solutions to the jury, composed of cyber experts and representatives of the Swiss Armed Forces, together with armasuisse Science and Technology. The Zurich-based startup Decentriq was able to impress the jury with its innovative data clean rooms. The company can now implement a Proof of Concept tailored to the Swiss Armed Forces in 2022. Watch the pitch of the three finalists of the 2021 edition (Decentriq, Pandora Intelligence, Constella Intelligence) :

To the video 

An extensive collaborative network

In addition, the CYD Campus maintains regular contact with scientists at international conferences and through leading scientific publications in physics, economics and management. Thanks to its international network of partners, the CYD Campus has regular contact with American and Israeli counterparts who often seek answers to the same questions. In France, the CYD campus follows the research in Defence Economics which has recently published a fundamental paper on the role of technology and innovation in the autonomy and defence of a country. At the EU level, collaborations were held with the **European Defence Agency**, which is also pursuing a Tech Watch programme and is working on the research project PYTHIA ("Predictive methodologY for TecHnology Intelligence Analysis"). At the **NATO** level, regular information sharing is taking place, especially with the Cyberspace Technology Horizon Scan (2021 - 2031) of Dr. Alberto Domingo, which focuses on the following key technologies: AI, Quantum Computing, 5G Networks, Cloud & IoT, Blockchain, Software-Defined Radio.

At the Swiss level, the CYD Campus collaborates with the Distributed Information Systems Laboratory of Prof. Karl Aberer at **EPFL**, as well as with the Swiss Academy of Engineering Sciences (**SATW**), which publishes an annual Technology Outlook in which experts assess the potential of 37 promising technologies for Switzerland and its economy. In addition, the CYD Campus maintains a strong link with the **Military Academy (ACAMIL)** of ETH Zurich (Prof. Marcus Mathias Keupp), as well as the University of Geneva (Prof. Thomas Maillart) and the University of Fribourg (Prof. Philippe Cudré-Mauroux).

Tech4Trust Season I

- **Access Informer:** Access Informer is a simple yet powerful solution for companies to collect, analyze and monitor user authorizations across key systems, including SAP, Active Directory, SharePoint and network shares.
- **CybrQ:** CybrQ is a SaaS platform with self-service solutions ranging from Apps/Devices, Browsing, e-Mail, Authentication to Cyber Awareness.
- **Decentriq:** Decentriq is enabling businesses to identify analytics potential in datasets without having access to the data. We provide a privacy-preserving way of calculating the overlap between the desired characteristics of a dataset and the actual data.
- **Ex0-SyS:** Ex0-SyS develops Alph@TaV Vault, which protects your data by allowing you to encrypt all types of files and folders, offering you absolute protection against unauthorized access. It is intended for everyone and is, by nature, independent of any external control.
- **Laava:** Laava's Smart Fingerprint™ is a better unique identifier combining authentication, consumer engagement, and supply chain functionality at a much lower cost than other solutions.
- **MedCo:** MedCo is the first operational system that makes sensitive medical data available for research in a simple, privacy-aware and secure way. It enables hundreds of clinical sites to collectively protect their data and to securely share them.
- **Megaverse:** Megaverse is developing adaptive learning in cyber awareness.
- **NextDay.Vision:** NextDay.Vision offers you to replace passwords by authenticating yourself in a simple, efficient and secure way on a multitude of services using a security key, your face or a phone.
- **OneVisage:** OneVisage proposes 3 software development kits that bring one or multiple concurrent factors, including 3D facial biometry (who I am), 3D graphical authentication (what I know) and Premier ID that mixes multiple factors.
- **PRYV:** PRYV is a compliance software for personal health data privacy and consent.
- **Quantum Integrity:** Quantum Integrity develops artificial intelligence for DeepFake detection.
- **ScanTrust:** ScanTrust provides a cloud-based, Internet-of-Packaging platform for product authentication and supply chain visibility.
- **Teserakt:** Teserakt develops software to enable strong encryption between industrial IoT systems.
- **Veintree:** Veintree extends portable QR and barcode readers with a "biometrical IR video reader" add-on, allowing anonymous and GDPR compliant registration of human venous networks (and human-centered actions).

Tech4Trust Season II

- **Bug Bounty Switzerland:** Crowdsourced cybersecurity for a safe digital Switzerland aiming to help large organizations to master their digital transformation.
- **Clearwater Dynamics:** provides horizon smart threat detection for Microsoft SaaS applications. Tackling event fatigue and the cyber skills shortage.
- **Cryptolex:** Cryptolex allows everyone to access and use the Blockchain by recreating the process of certification and traceability.
- **Cyber-Safe Label:** is the Swiss cybersecurity label that tackle SMEs' risks and help them build trust with their partners.
- **CyQuant:** bridges cybersecurity and insurance by providing a platform for insurers to estimate risk exposure for companies and help IT security market close the gap.
- **Cysec:** provides a confidential computing solution applied to the edge that protects data in use by running your critical applications in a trusted execution environment.
- **Decentriq:** enables secure data ecosystem by making data analytics confidential by design. decentriq enables businesses to identify analytics potential in datasets without having access to data.

- **Diadem Technology:** provides an easy, transparent and efficient contracting & billing system for Mobile Network Operators using smart contracts.
- **DuoKey:** helps companies store highly confidential documents and benefit from cloud services while protecting data with privacy and trust.
- **ONLIFE+ powered by Edenair:** provides the platform ONLIFE+ which allows to digitalize one's life and spare time.
- **KETL:** is a Swiss AI-Infused SaaS solution to manage documents, emails and workflows dedicated to professionals who value privacy and productivity.
- **Kimbocare:** provides transparency and trust in the delivery of healthcare in developing regions.
- **Orbitalize:** is a mobile and web application that empowers public authorities and event organizers to oversee drone operations in their local airspace.
- **Origin Food:** enables transparency & collaboration across supply chains, with a focus on product traceability and product compliance.
- **P3KI:** is a decentralized and offline authorization solution that brings human trust to digital devices.
- **Rumya:** Digitalization facilitator helping companies comply with privacy regulations from data subject's rights management to data breach and consents management.
- **Sarus:** empowers enterprises to leverage their most sensitive data assets for analytics and AI applications with the highest standards of data protection: differential privacy.
- **Strong.Network:** defines and automatically reinforces the rules of collaboration around code development by protecting data confidentiality and monitor intellectual property.
- **UBCOM:** is a cybersecurity provider helping organizations to reveal their cyber exposure and digital awareness through a cost effective tool compliant with international standards.
- **X80 Security:** Automated Cyber Defenses by generating threats in a simulation environment.
- **Zimt:** is a digital traceability startup helping food businesses increase transparency & consumer trust.

Tech4Trust Season III

- **Adresta AG:** Adresta connects the manufacturer, retailer and watch owner with one another – creating a new level of interaction for the watch ecosystem.
- **Binare Oy:** Binaré offers a cloud based service with optional professional services that is easy to use and accessible to any organization
- **CollectID:** CollectID protect your brand and connect customers with your products, transform your products into a superior communication and sales channel
- **CondensationDB:** Condensation is an open-source zero trust, distributed database enabling to build modern applications while ensuring data ownership and security.
- **Farmer Connect SA:** Farmer Connect helps farmers connect to the supply chain with the Farmer ID app, get proof of their identity and income so they can get loans, help businesses store & share information about their products.
- **Fully-Verified:** Banking-grade identity verifications for the fintech industry.
- **GeneLook:** GeneLook is a digital health company empowering rare/chronic disease patients to be actively involved in their healthcare. They are building the future of patient-centric precision medicine based on trust and data sharing.
- **Global Data Excellence SA:** GDE provides an end-to-end AI platform, DEMS-Nixus for corporate governance that allows a dialog between machine and human in natural language for automated Data Cleansing, Business Intelligence, Data Governance and Data Sharing.
- **Hestia.ai:** Hestia.ai builds sustainable personal data pipelines, respectful of the data contributors and responsive to changing circumstances.

- **JitsuIn Inc:** Archivists Inc empowers developers to build applications that provide the provenance, governance and integrity of enterprise assets that businesses and their partners need in a zero trust world
- **kaioSID:** Kaios creates a smart identification solution to tackle counterfeiting, grey market, increase consumer engagement and build trust.
- **Learning Robots:** Learning Robots' mission is to teach Artificial Intelligence in high schools and universities thanks to a robot and a software that propose simple learning scenarios, up to programming in Python of new algorithms.
- **Logmind:** Logmind aims to empower IT teams in modern organizations with automatic detection and diagnosis of complex problems from their IT infrastructure.
- **MOABI SAS:** Moabi is a software editor which delivers SaaS and on-premise solutions for automated security audits to assess cybersecurity posture of third party software and internal development.
- **MORPHOTONIX:** Morphotonix protects people's health and well-being by providing instant authentication and anti-counterfeiting solutions with the lowest C-footprint to brands.
- **OriginAll S.A.:** OriginAll provides tools and platforms in the fight against counterfeiting and illicit trade.
- **OrphAnalytics SA:** OrphAnalytics is B to B providing for users (Schools, Universities, Police departments, Investigation teams, research group) by IA investigation or judiciary reports, software, or servers.
- **Photocert:** Photocert establishes and certify the authenticity of pictures and videos with the aim to provide processes automation and trustworthy remote digital inspections.
- **Privacy1:** Privacy1 offers Zero Trust data protection that combines security and privacy awareness on the data itself. Enables encryption, entitlement and processing
- **PRODAFT SARL:** Prodaft offers proactive threat intelligence to its customers against the constantly evolving attack techniques in the cyber world.
- **Profiscope / Codescoring:** Codescoring creates automated solutions for source code analysis using modern approaches to data analysis and machine learning.
- **QRCrypto SA:** QRCrypto provides full security from 2G to quantum with patented quantum-resistant SIM card and dedicated secure communication packages beyond quantum.
- **RealTyme:** RealTyme is a Swiss technology start-up that cares about people's privacy and digital well-being.
- **Retreeb:** Retreeb is a payment solution which integrates social responsibility into a sustainable business model.
- **Saporo:** Saporo anticipates attacks to allow organisations to be more resilient.
- **Smartcockpit SA:** Smartcockpit supports ISMS, Privacy Management and Digital self-determination. Their solution can scale to a full digital governance for the entire organization.
- **STACKSCIENCES SA:** StackSciences mission is to bring pragmatical solutions to software engineers so that they can deliver secure and reliable Cloud based applications.
- **Tune Insight:** Tune Insight enables organizations to make better decisions by extracting collective insights from confidential data collaborations, while they remain in full control of their own data.
- **Xiphera:** Xiphera designs hardware-based security solutions with standardised cryptographic algorithms. Their cryptographic and system design expertise, and knowledge on digital logic help to protect critical information.
- **ZeNPulsar:** ZeNPulsar helps organizations fight fake news, maintain their reputation and neutralize disinformation. They build the future of cyber forensic through multidimensional DeepTech to advance online trust and integrity.