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Contact Office for European Research
Innovation and Education

Swiss Innovation Briefing 2020

European Cybersecurity Challenges

30 November 2020
10:00 – 12:00

An online innovation briefing in cooperation with the
National Research Council of Italy (CNR)

National Research Council of Italy

SPARTA
PARTNERSHIP

Event Summary
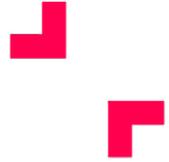
Cybersecurity will feature prominently in the next generation of European knowledge programmes. It will account for one of the five specific objectives of the Digital Europe Programme DEP and feature prominently within Cluster 3 on Secure Societies in the second pillar of Horizon Europe. In addition, the European Commission is in the process of setting up the Cybersecurity Competence Centre, which aims to improve the EU's cybersecurity capacity by strengthening the technological and industrial cybersecurity ecosystem and pooling resources in Europe.

Projects funded under H2020 are currently preparing the ground for the above actions. One of them is SPARTA, tasked with the development and implementation of a common cybersecurity R&I roadmap, and aiming to integrate local cybersecurity ecosystems into a European one. SPARTA has identified four crucial sectors for the application of cybersecurity (healthcare, energy, transport and financial), and crucial technologies to develop cybersecurity further, including Artificial intelligence (AI).

Switzerland has strong capacities in both AI and cybersecurity at the level of research as represented by the Zurich Information Security and Privacy Center (ZISC) and a vibrant innovation ecosystem as represented by the Trust Valley initiative.

In this context, it is appropriate to reflect on how we can best unlock the potential of innovation in promoting security in the digital sphere. How can collaborative infrastructures such as cluster initiatives and partnerships advance these goals? How has digitisation disrupted and reconfigured the challenges that industry and society face? In our innovation briefing, representatives of Swiss academia and industry will discuss these questions with policy makers from the EU institutions as well as with European citizens.

Event Agenda
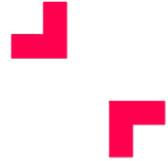
From 09:45	**Check-in**
10:00	Welcome and setting the scene **Nicolas Lüscher** Minister, Mission of Switzerland to the European Union **Angelo Volpi** Science and Technology Officer, CNR Brussels Liaison Office **Claudia Gamon** Member of the European Parliament, Austria **Martin Übelhör** Head of Sector, Cybersecurity Industry and Innovation, DG CNECT, European Commission
10:30	"The Sparta Pilot Cybersecurity Competence Network and its partnership programme" **Fabio Martinelli** Partnership Director, SPARTA
10:50	"Cyber Research in Switzerland" **Srdjan Capkun** Chair, Zurich Information Security and Privacy Center (ZISC)
11:05	"The Swiss Cyber Start-up ecosystem" **Lennig Pedron** Director, Trust Valley Switzerland
11:20	Panel Discussion: "Cyber in Europe - The way ahead" **Florent Kirchner**, Strategic Director, SPARTA (CEA) **Eda Aygen**, Head of Communications, Advisor to the Secretary General, European Cyber Security Organisation (ECSO) **Claudia Gamon**, Member of European Parliament **Srdjan Capkun**, Chair, ZISC (ETH Zurich) **Lennig Pedron**, Director, Trust Valley Switzerland

Speakers

Nicolas M. Lüscher, Minister, Mission of Switzerland to the European Union

Since July 2020 Nicolas Lüscher holds the position of Minister at the Mission of Switzerland to the EU in Brussels and is responsible for the relations with the European Parliament. From Mai 2017 to June 2020 he was the Deputy Head of Tax Division in the Swiss State Secretariat for International Finance/Federal Department of Finance. In this position, he represented Switzerland's interests in tax matters not only vis-à-vis partner countries but also in the competent international bodies. Previously, he was the Chief of Staff of the State Secretariat and Diplomatic Advisor to the State Secretary. Nicolas Lüscher entered the diplomatic service of the Federal Department of Foreign Affairs in 2009 and held positions at the Mission of Switzerland to the EU in Brussels (2009-2012) and in the Political Directorate, Human Security Division, in Berne (2012-2014). Before joining the diplomatic service he worked as a lawyer in a law firm in Geneva, Switzerland.

Claudia Gamon, Member of the European Parliament, Austria

Claudia Gamon is an Austrian Member of the European Parliament and a passionate liberal to the core. She is the NEOS spokesperson for all things European and sits with the Renew Europe group in the EP. Previously, the 31-year-old represented NEOS as a member of the Austrian Parliament. In her work she focuses mainly on the topics digitalisation, science, research, energy and technological progress. Claudia Gamon studied International Business Administration and International Management at the Vienna University of Economics and the Université catholique de Louvain. She gained her first political experience in 2011 when she was the leading candidate for the Young Liberals in the Austrian Students' Union.

Florent Kirchner, Strategic Director, SPARTA (CEA)

Kirchner leads the Systems and Software Engineering Division as well as the Cybersecurity Program at CEA LIST. As a senior expert scientist, he has developed and applied several approaches to high-confidence software verification, both as part of academic and industrial projects. He was active in launching and heading collaborative efforts with a wide variety of international partners, including collaborations with Airbus, Bureau Veritas, Thales, NASA, and NIST. As a Head of Division he is responsible for a group of 110 scientists working on the research and development of next-generation engineering methods and tools, and the associated dissemination and communication activities. He is an active member of several working groups on High-Confidence Software and Systems at Systematic, Allistene, GdR, NIS, and ECSO. Since 2019 he is the strategic director of the SPARTA cybersecurity competence network pilot.

Lennig Pedron, Director, Trust Valley Switzerland

Lennig Pedron is a data protection external expert for the Swiss Confederation. She is the director of the "TRUST VALLEY". Lennig has focused her research on digital trust and the human factor. She advises and trains various audiences such as the police, prosecutors, banking, industries but also the younger generation. She is co-founder and President of the international NGO iCON dedicate to digital trust, cybersecurity and emerging technologies. Lennig represents iCON at the Council of Europe.

The "TRUST VALLEY" is a center of excellence in digital trust and cybersecurity based in the unique ecosystem of Western Switzerland. The "TRUST VALLEY" is a historical alliance driven by multiple prestigious founding members from public, private and academic sectors: Canton of Vaud, Canton of Geneva, EPFL, HEIG-VD, HES-SO Geneva, Graduate Institute Geneva, Université de Genève, Université de Lausanne, ELCA, Nagra Kudelski Group, SGS, SICPA, WISeKey and Geneva Center for Security Policy.

Fabio Martinelli, Partnership Director, SPARTA pilot for network of cybersecurity competence centres

Mr. Fabio Martinelli is a research director of the Italian National Research Council (CNR). His main research interests involve security and privacy in distributed and mobile systems and foundations of security and trust. Since 2004 He is in the board of directors of the international school on Foundations of Security Analysis and Design (FOSAD). He founded and chaired the WG on Security and Trust management (STM) of the European Research Consortium in Informatics and Mathematics (ERCIM). He usually manages R&D projects on information and communication security and in particular, He is currently the Project Coordinator of the EU Network on Cyber Security (NeCS) and of the Collaborative information sharing and analytics for cyber protection (C3ISP) project. He serves as expert in the H2020 Protection and Security Advisory Group (PASAG) and acts as First director in the Board of the European Cyber Security Organization (ECSO). He is also member of the Italian Committee for Cyber Security Research (as CNR security expert). Fabio Martinelli serves as Partnership Director in the SPARTA Pilot for the Network of competence centres in cyber security.

Martin Übelhör, Head of Sector, Cybersecurity Industry and Innovation, DG CNECT, European Commission

Srdjan Capkun, Chair, Zurich Information Security and Privacy Center, Professor of Computer Science, ETH Zurich

Srdjan Capkun received his Dipl.Ing. degree in Electrical Engineering/Computer Science from the University of Split in 1998, and his Ph.D. degree in Communication Systems from EPFL in 2004. Prior to joining ETH Zurich in 2006, he was a postdoctoral researcher in the Networked & Embedded Systems Laboratory (NESL), University of California Los Angeles and an Assistant Professor in the Informatics and Mathematical Modelling Department, Technical University of Denmark (DTU). His research interests are in system and network security. His focus areas are wireless security (in particular secure positioning), and system security where he focuses on trusted computing and blockchain technologies. He is a co-founder of 3db Access, a company focusing on secure distance measurement and proximity-based access control and of Sound-Proof a spin-off focusing on usable on-line authentication. In 2016, he received an ERC Consolidator Grant for a project on securing positioning in wireless networks.

Eda Aygen, Advisor to the Secretary General & Head of Communications, European Cyber Security Organisation (ECSO)

Eda Aygen has been the Head of Communications and Advisor to the Secretary General of the European Cyber Security Organisation (ECSO) since the establishment of the Association and the signature of the contractual Public-Private Partnership on cybersecurity with the European Commission in 2016. She is also in charge of coordinating the work of the ECSO Legal and Regulatory Task Force and monitoring European legislative work. Before that, she was the responsible for Communications and several EU projects related to Land Transport Security at the European Organisation for Security (EOS).
Eda has also worked for several Brussels based leading think tanks such as the Security & Defence Agenda (SDA) and Friends of Europe (FoE) on various European security and defence matters. Prior to this she spent a year working at NATO Operations Division on all NATO-led operations and security missions including International Security Assistance Force (ISAF) in Afghanistan.