



Cybercampus Sweden

and other Swedish cybersecurity initiatives

<https://cybercampus.se>

Shahid Raza, RISE

Cyber Research and Education

Research Grants

- Advanced digitalisation programme (**Vinnova++**)
- **SSF** Cybersecurity and Information Security grants – 300 MSEK
- **VR** Cyber and Information Security (upcoming) – X MEK
- **WASP** grants on cybersecurity (selective universities) – 180 MSEK
- **MSB** Automated and autonomous cyber security – 20 MSEK
- **KKS** Graduate School on Cybersecurity – ~16 MSEK

Other initiatives

- SWITS at Karlstad
- CDIS at KTH
- National Cyber Range (CRATE) at FoI
- Cyber Range at RISE
- Research in individual universities, institutes, and industry

Cybersecurity Education

- Stockholm Uni., Master's in Information Security – 120 hp
- LTU – Master's in Information Security – 120 hp
- Örebro Uni. - Information Systems - Information Security Management
- HIS – Master's in Privacy, Information and Cyber Security 120 hp
- BTH - Högskoleingenjör i IT-säkerhet – 180 hp
- Halmstad University - Master's in Network Forensics – 60 hp
- ...

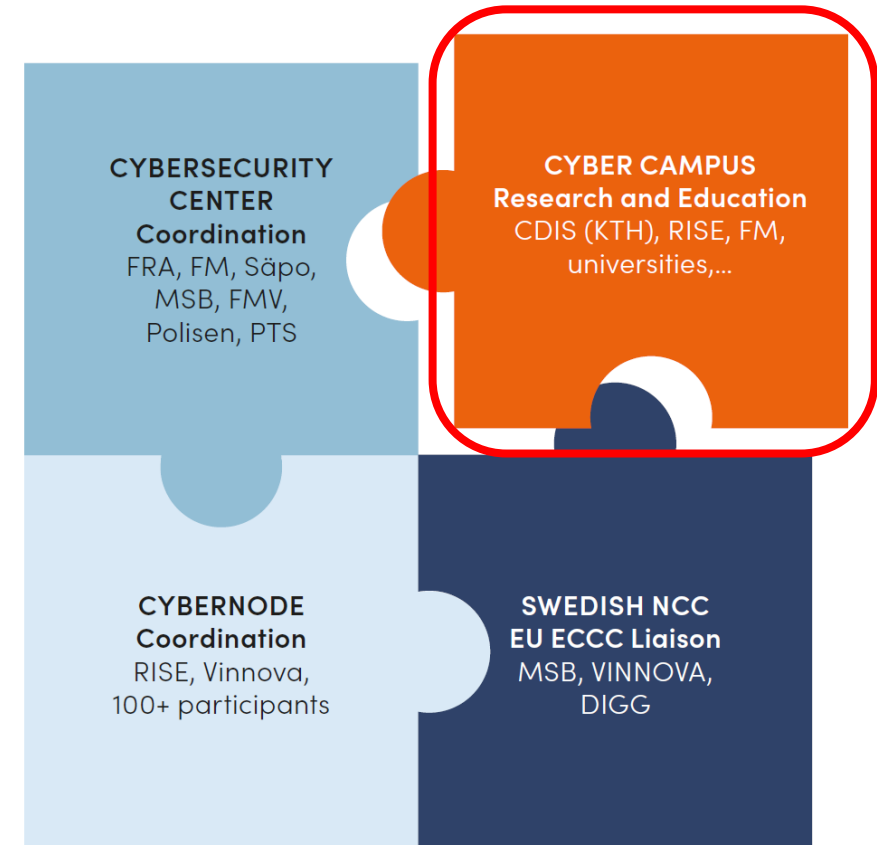
New Cybersecurity programmes

- KTH, 2022
- Linköping, 2023 | Högskolan Väst 2023 (60 hp)
- MDU. 2024
- Uppsala, 2025



National Cybersecurity Initiatives in Sweden

- **Cyber Operations**
- **Cyber Coordination**
- **Cyber Education and Research**



Cybercampus Sweden – Brochure

Why Cybercampus?

If our digital infrastructures are not secure, then most functions of our society are at risk.

Cybersecurity is of utmost importance for Sweden today and increasingly so, as the digitalization continues. Unfortunately, building and operating secure systems has turned out to be a formidable challenge. The consequence of weak security is increased demand on the cybersecurity workforce. Very high skill-levels are required to defend the remarkably vulnerable systems that constitute society's digital infrastructures.

The solutions to these problems consist of developing better tools and methods for secure system design and operation, and training of the workforce. Both solutions must be based on continuous research and innovation.

A surprisingly large number of organizations are involved in the defence of the Swedish cyberspace. This fragmentation stretches into higher education and research where uncoordinated research groups are distributed over universities and institutes across the country.

Other European countries, e.g., Norway, Switzerland, France and Germany, have addressed the fragmentation problem by establishing national hubs for cybersecurity research, innovation and education, sometimes called Cyber Campuses. We believe that there is a need for a Swedish Cyber Campus where cybersecurity researchers, practitioners and stakeholders collaborate.

Cybercampus Sweden will conduct joint research and innovation, offer cybersecurity education, coordinate EU participation in research projects, act as a competent body of expertise for Swedish decision makers and increase Sweden's international visibility. The campus will constitute a national research infrastructure and be organized as a joint venture between several universities, research institutes, government agencies and companies across Sweden.



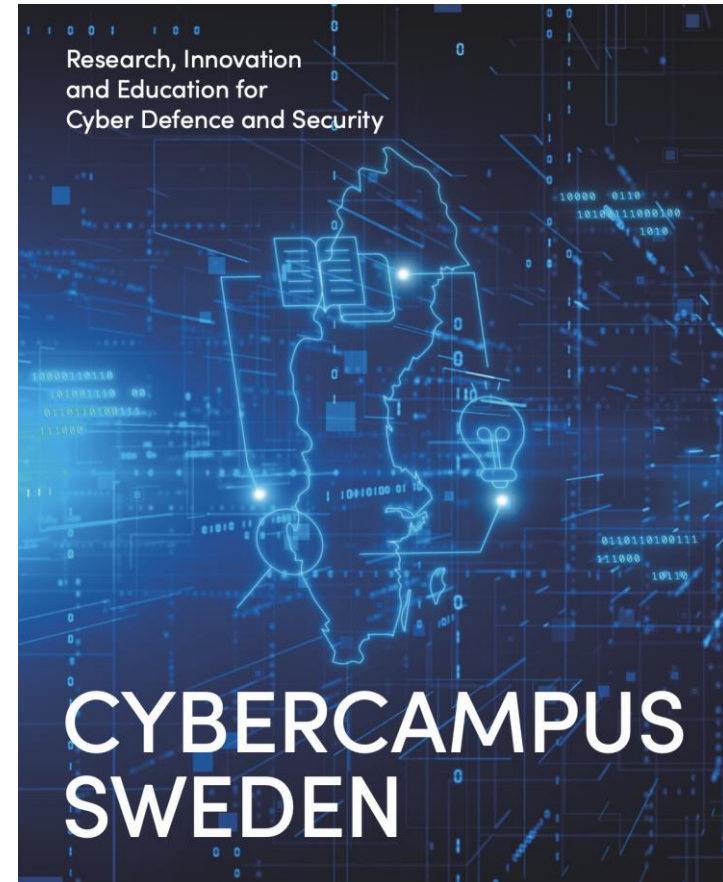
Sigbritt Karlsson
President, KTH



Pia Sandvik
CEO, RISE



Micael Bydén
Chief Commander
Swedish Armed Forces



Cybercampus Sweden – Planning Project

Planning Project
2022-2023



FÖRSVARSMAKTEN



SAAB

ERICSSON 



Myndigheten för
samhällsskydd
och beredskap

VINNOVA

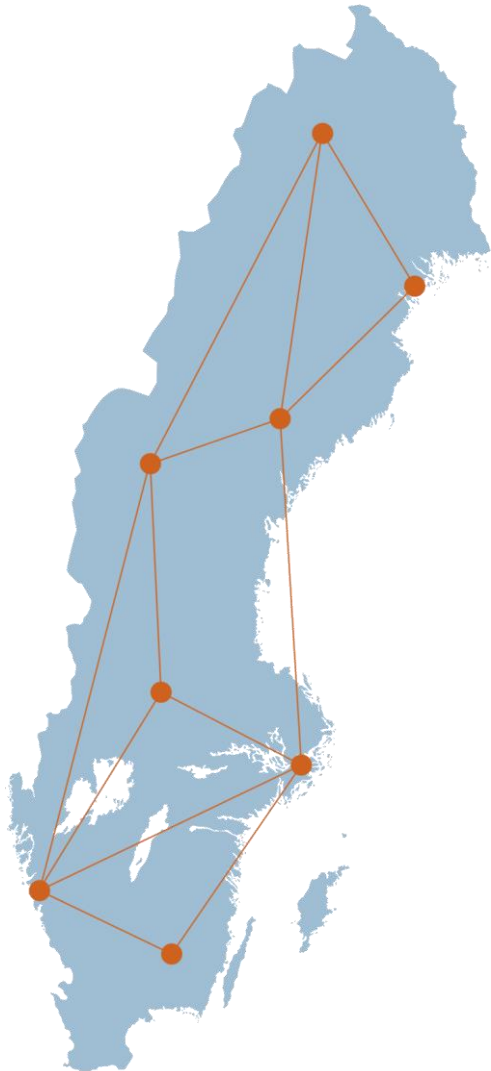


Cybercampus Sweden - Mission

*The campus aims to enable agile and cutting-edge cyber security **research and education** vital for resilient Sweden that is beyond what is possible for individual university, institute, agency, or company.*



Mission: Agile and cutting-edge cyber defence and security research, education and innovation vital for a resilient Sweden that go beyond what is possible for an individual university, institute, agency, or company.



CYBERCAMPUS SWEDEN

UNIVERSITIES, INSTITUTES, BUSINESSES
and AGENCIES

AGILE EDUCATION

JOINT RESEARCH

PROTECTED INNOVATION

EXPERTISE; ADVISORS

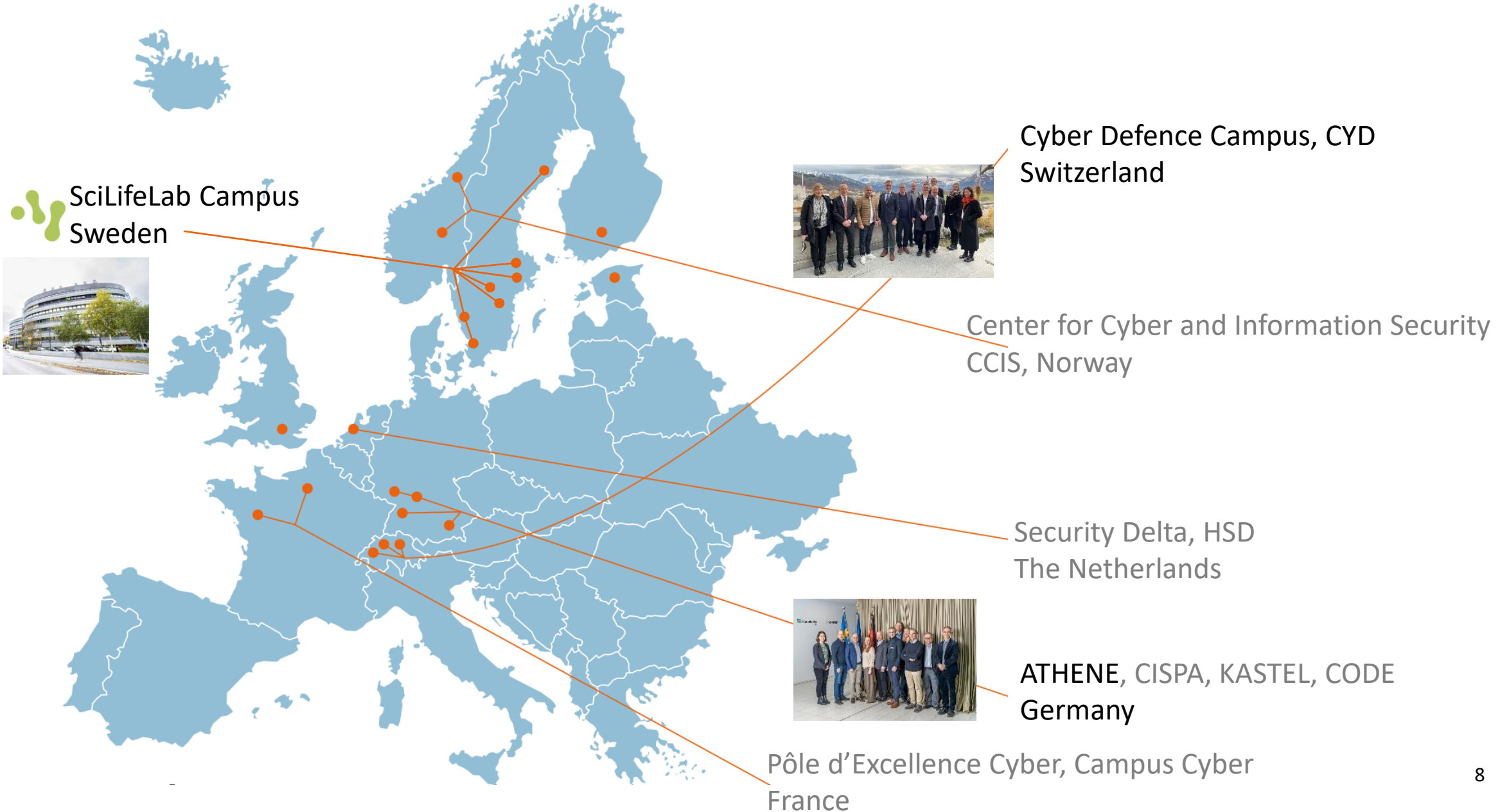
COORDINATED
EU PARTICIPATION

INTERNATIONAL VISIBILITY

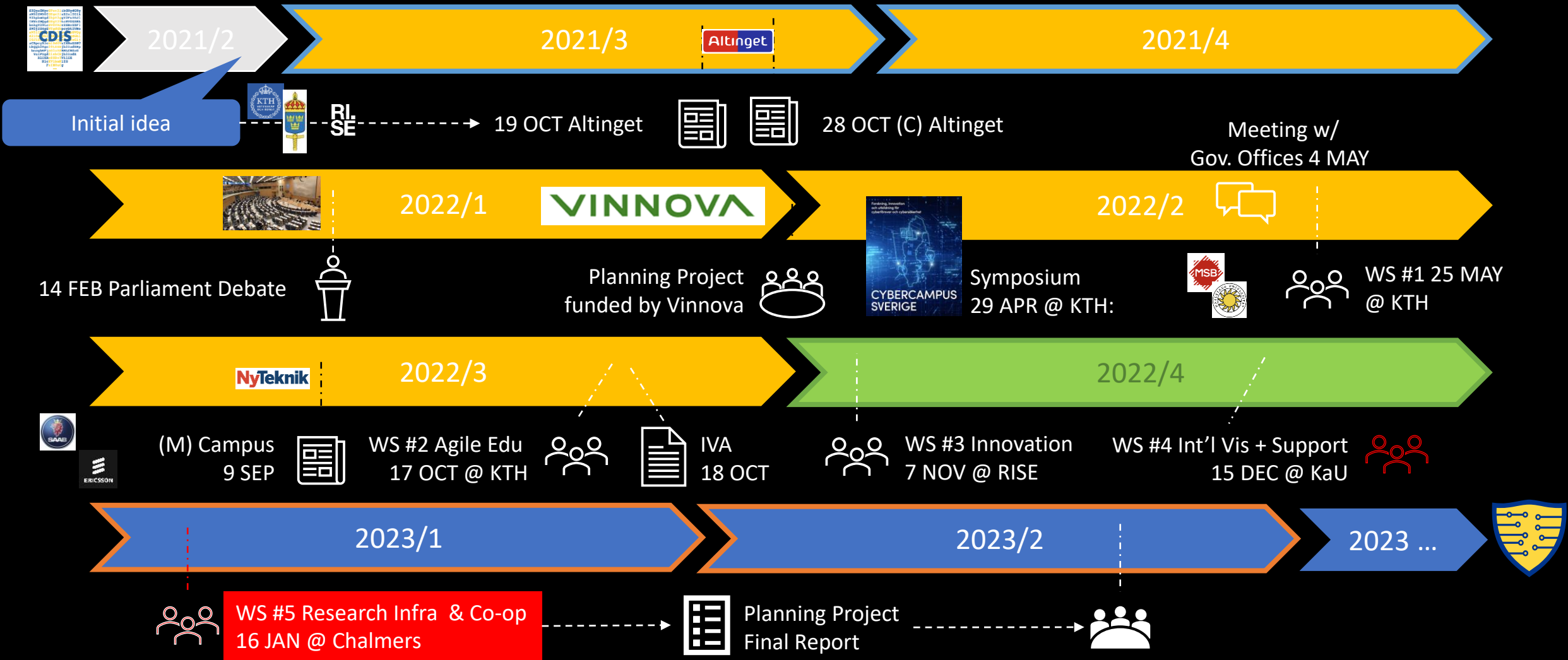
NATIONAL RESEARCH INFRASTRUCTURE



What Others Do

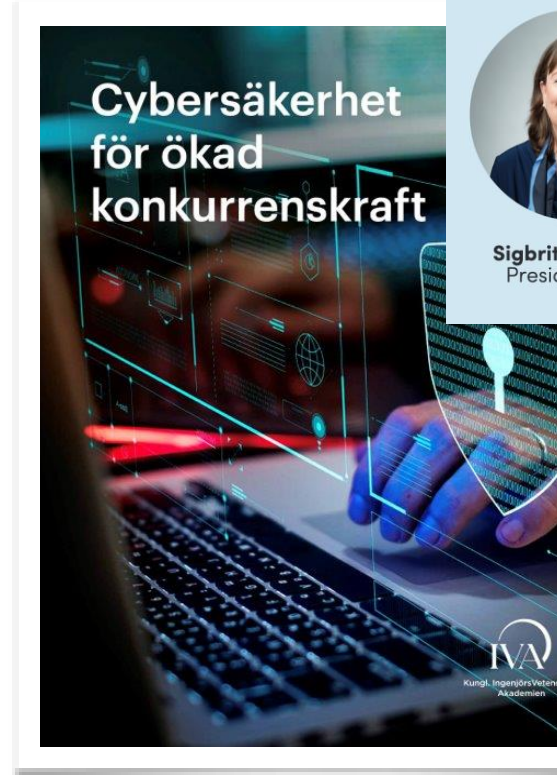


Cybercampus Sverige – Story-Line



Support

- The Swedish Armed Forces
- Vinnova: Swedish Innovation Agency
- MSB, The Swedish Civil Contingencies Agency
- IVA: The Royal Swedish Academy of Engineering Sciences
- The Center Party
- The Moderate Party
- Individual Members of Parliament
- The Minister of Defense
- Representatives of the Departments of Defence, Commerce, Foreign Affairs and Justice
- Saab, Ericsson, Telia, FAM and many other companies
- KTH Royal Institute of Technology, RISE Research Institute, Karlstad University, Stockholm University, Chalmers, and other universities
- ... and of course, 11 Workshop Participants:



Sigbritt Karlsson
President, KTH



Pia Sandvik
CEO, RISE

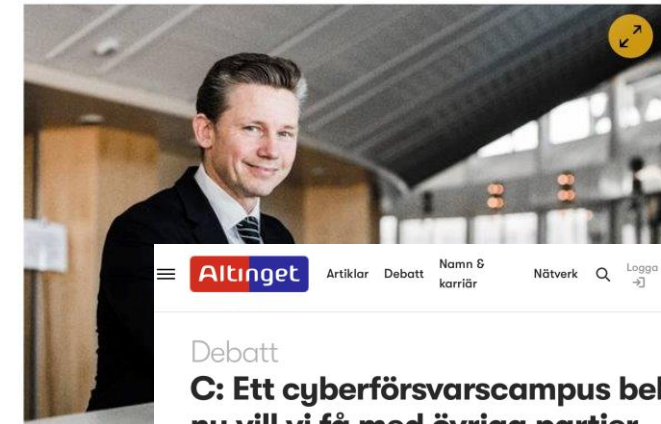


Micael Bydén
Chief Commander
Swedish Armed Forces

"Moderaterna vill finansiera nytt cyberförvarscampus"

2022-09-09 09:00

10 kommentarer



Debatt

C: Ett cyberförvarscampus behövs – nu vill vi få med övriga partier

Det här är en debattartikl
Aktivera Talande

DEBATT. Må
få ett nation
till 25 miljard
som startpl
campuset n

Sverige ligger långt ner på internationella rankingar när det gäller cybersäkerhet. Nu måste Sverige ta krafttag för att inte halka efter ännu mer, skriver Centerpartiets Niels Paarup-Petersen, Daniel Bäckström och Mikael Larsson.



<https://cybercampus.se/>

Stay updated on the campus website



Royal Visit to KTH April 29, 2022

The Swedish Royal family has joined a cybersecurity symposium in KTH where Cybercampus was also presented, and its brochure was released. The heads of the three founding members of the campus also joined this event. The actual work on the campus is kick started with a general workshop on May 25, 2022. In this workshop, 50+ people participated from academia, industry, public sector, and civil and military defence.

Future Workshops Upcoming workshops 2022

The aim of these workshops is to detail the How and the What parts of the campus Action Plan. These workshops are targeted to senior professionals at higher education institutions and to persons at companies, public agencies, and other relevant organizations.

Upcoming workshops;
Education: 2022-10-17
Innovations: 2022-11-07
Internationalisation and support for decision makers: 2022-12-15
Research: 2022-01-16

Agenda International Workshop October 17, 2022

The purpose of the workshop is to define needs, requirements, and possibilities for the educational activities at the Campus. We will identify decisions that are needed by stakeholders in order to establish thriving education activities at the Campus. The workshop will be held on the **KTH** Campus, Malvinas väg 6B, room Q21 (third floor).

[REGISTER](#)

Protected innovation workshop November 7, 2022

The purpose of the workshop is to discuss barriers and opportunities when it comes to cyber security and cyber defence innovations. We will define needs, requirements, and possibilities to realize the innovation activities at the Campus, with the results from the May workshop as a starting point. The workshop will be held at **RISE**, Isafjordsgatan 22, Kista.

[REGISTER](#)

Internationalisation and Support workshop December 15, 2022

The purpose of this workshop is to elicit needs, requirements and discuss possibilities for enhanced international cooperation, and how and in which form Cybercampus can provide advice to decision makers.

This workshop theme corresponds to Competent body of expertise for decision makers, Coordinated EU participation and international visibility in the Cybercampus brochure and is hosted by **Karlstad University** in Karlstad.

Research cooperation workshop January 16, 2023

The purpose of the last workshop is to define needs, requirements and the role of Cybercampus Sverige for promoting research cooperation and building up a national research infrastructure. This workshop theme corresponds to Joint research and national research infrastructure in the Cybercampus brochure and is hosted by **Chalmers University of Technology** in Göteborg.



Cybercampus Sweden – Now & Next

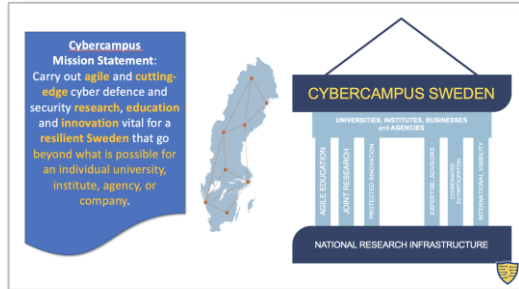
Planning -> Operational

Cybercampus Sweden



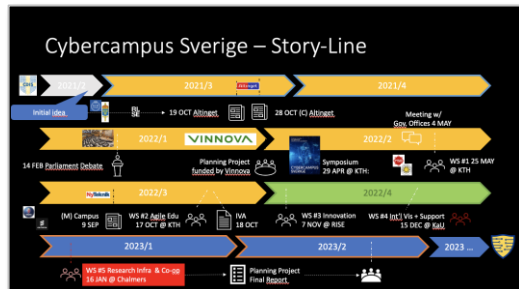
This slide features a map of Sweden on the left, a central graphic with the text 'Research, Innovation and Education for Cyber Defence and Security' and 'CYBERCAMPUS SWEDEN', and a small shield logo in the bottom right corner.

Cybercampus Mission Statement: Carry out **agile** and **cutting-edge** cyber defence and security **research, education and innovation** vital for a **resilient Sweden** that go beyond what is possible for an individual university, institute, agency, or company.



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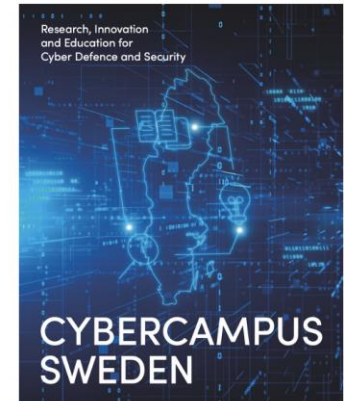
Cybercampus Sverige – Story-Line



A detailed timeline showing key events from 2011/3 to 2023. Key milestones include: 2011/3 Initial idea; 2012/1 Vinnova funding; 2012/2 Planning Project funded by Vinnova; 2012/3 WS #1 25 MAY @ KTH; 2012/4 WS #2 18 OCT @ KTH; 2013/1 WS #3 7 NOV @ ROS; 2013/2 WS #4 Int'l Vis + Support 15 DEC @ SRI; 2013/3 WS #5 Research Infra & Co-op 16 JAN @ Chalmers; 2013/3 Planning Project Final Report.

Cybercampus Sweden

- Planning Group – Working Group
- Finished Vinnova Report
- Long-Term Funding
- Inauguration
- Proof by Delivery
 - Offerings
 - Roadmap





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Shahid Raza, RISE