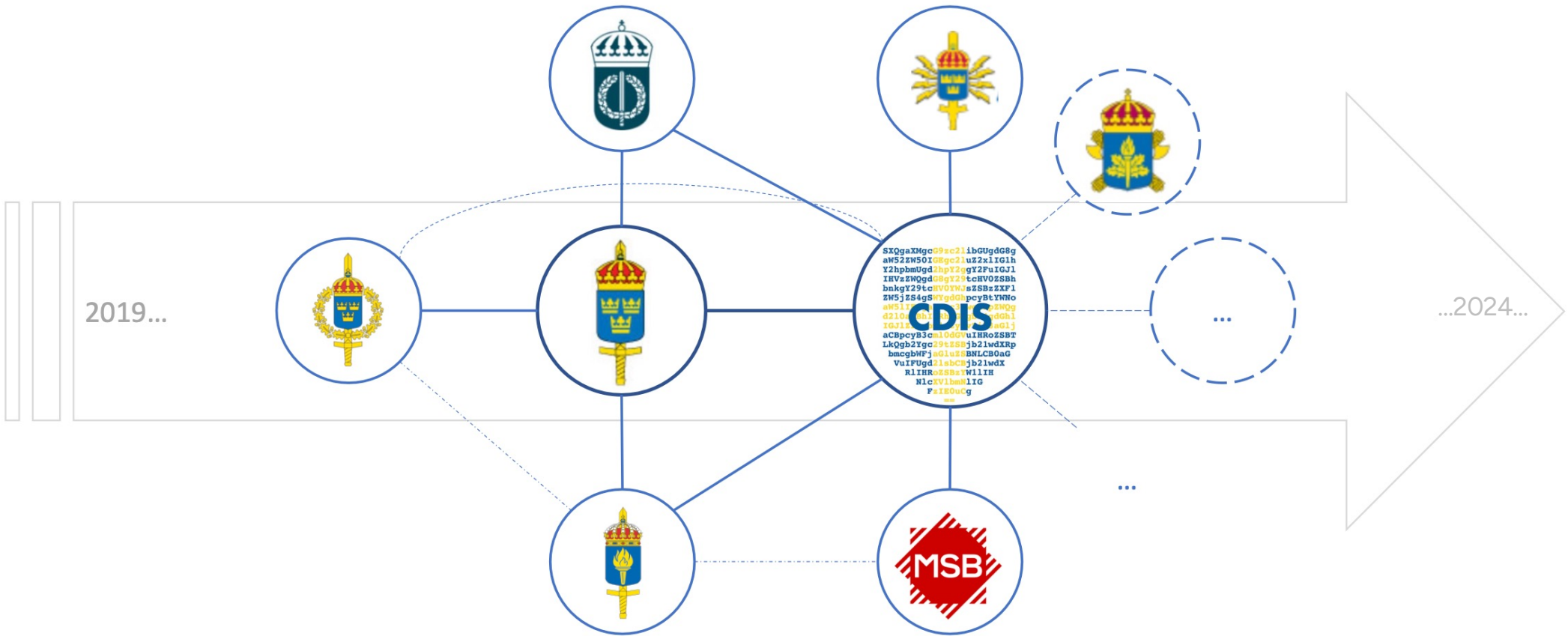


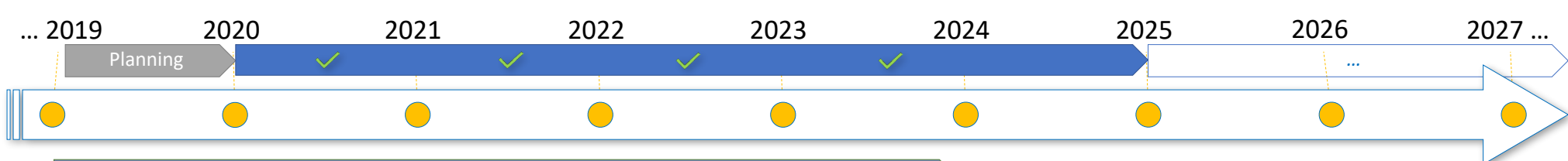
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VuIFUgd21sbCBjb2lwdX
RlIHRobSBzYWNlIH
NlcXV1bmNlIG
FzIEOuCG
==

David Olgart

Vice Director KTH CDIS

| Director Cybercampus Sverige





CERCES
 Prof Henrik Sandberg, Prof Mads Dam, Prof György Dán, Prof Ragnar Thobaben

Attack Simulations for Cyber Defense
 Prof Mathias Ekstedt, A/Prof Robert Lagerström - MSc Viktor Engström

Cyber Situational Awareness
 Prof Henrik Artman, Dr Joel Brynielsson, Dr Ulrik Franke - MSc Annika Andreasson

Self-Learning Systems for Cyber Defense
 Prof Rolf Stadler, Prof Pontus Johnson - MSc Kim Hammar

Securing the Internet of Things
 A/Prof Musard Balliu, A/Prof Cyrille Artho - MSc Marcus Birgersson

Provably Secure Systems
 A/Prof Roberto Guanciale, Prof Mads Dam - MSc Henrik Karlsson

Post-Quantum Cryptography
 Prof Johan Håstad, A/Prof Douglas Wikström - MSc Joel Gärtner

Denial of Service Prevention
 Prof Gunnar Karlsson - MSc Leon Fernandez

Machine Learning for Side-Channel Attacks
 Prof Elena Dubrova - MSc Martin Brisfors

Simulation-based Reinforcement learning for security operations
 Prof Pontus Johnson, Prof Rolf Stadler, Dr Teodor Sommestad - MSc Jakob Nyberg

Tyr - (Semi-) Autonomous Cyber Defence Command and Control System / SAC³S FMV, FOI, CDIS

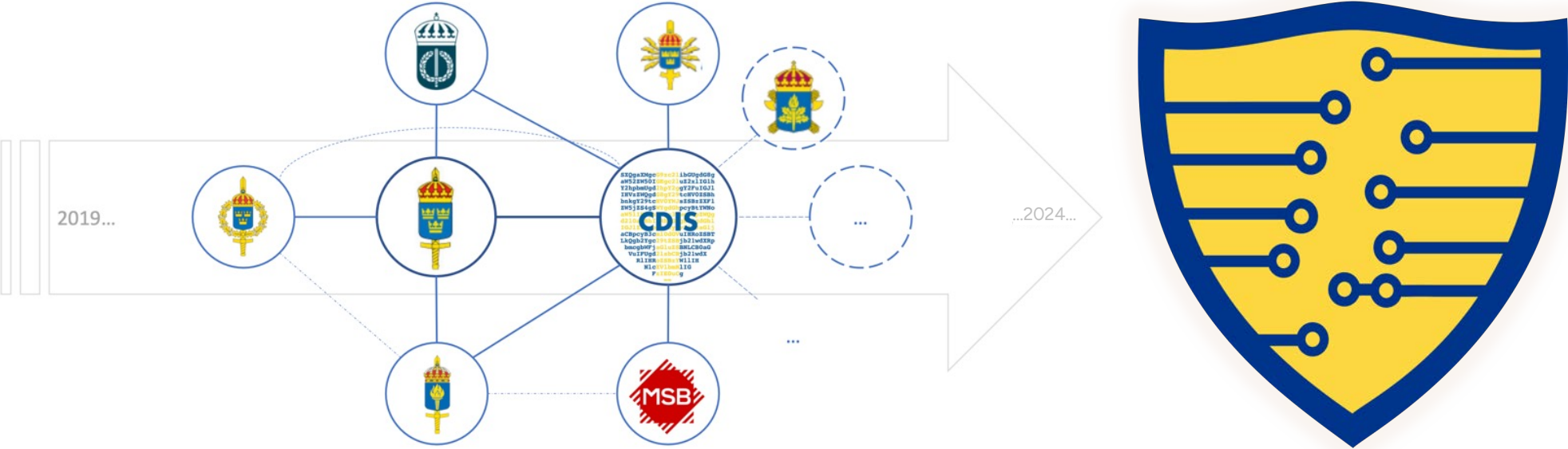
Intrusion Detection | Prof György Dán, Prof Pontus Johnson
Security Operations Center



Research projects

CHAINS
 Prof Benoit Baudry, Prof Martin Monperrus, Prof Mathis Ekstedt, A/Prof Musard Balliu

Looking ahead

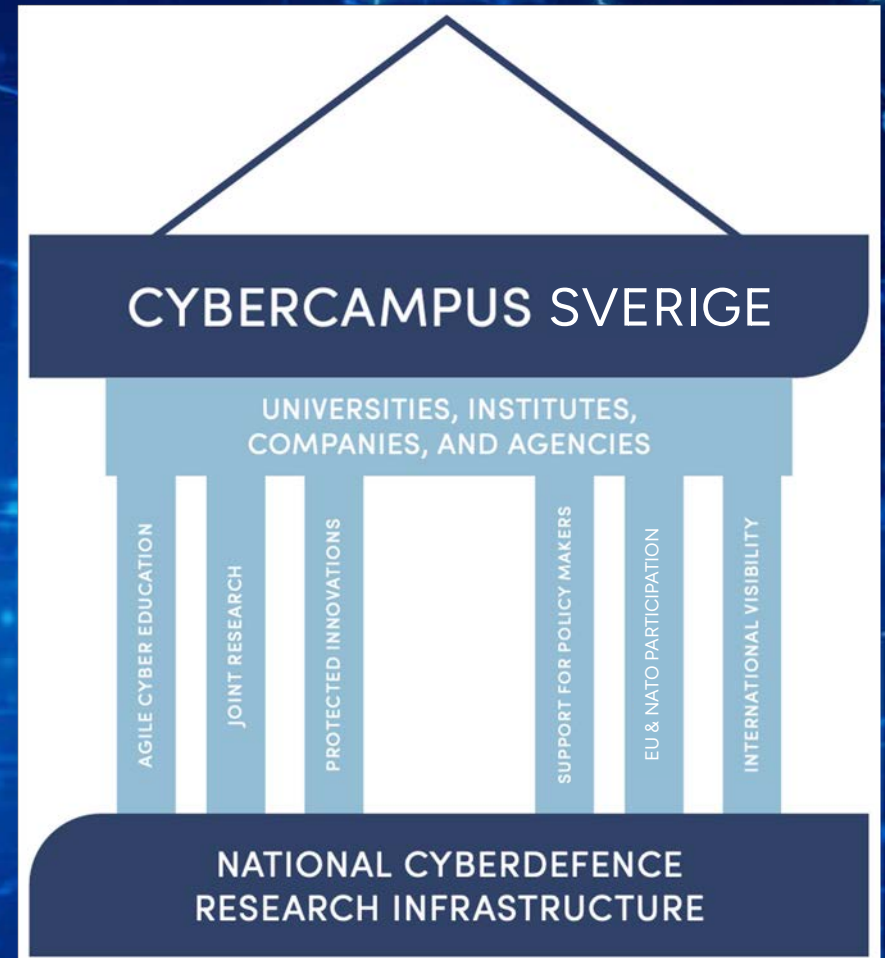




"Meet needs that are not addressed by any other actor in the cybersecurity ecosystem"

Agile and cutting-edge research, innovation and education for cybersecurity and cyberdefence **beyond what is possible for a single** university, institute, company or agency

A physical, neutral & inclusive meeting space





Digitalization & Cybersecurity – Downpipe or Gutter?

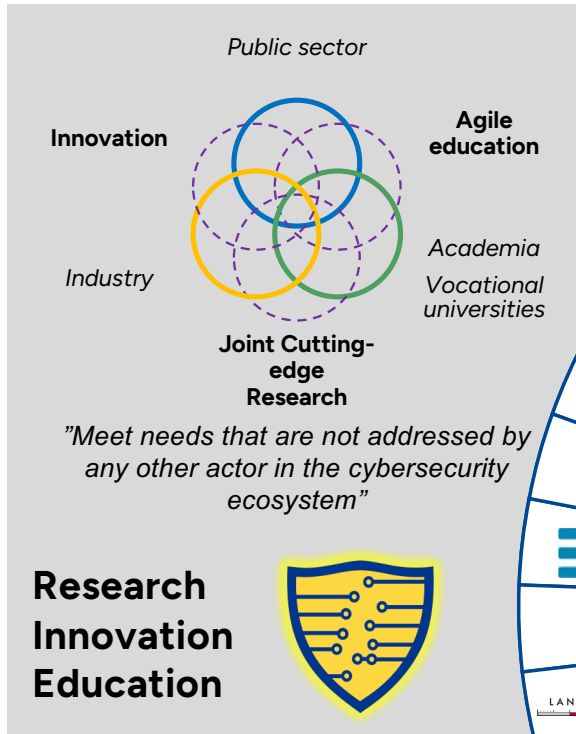
The collage consists of three distinct informational panels. The top panel is a conceptual flowchart with four stages: 'Idag' (Today), 'Konsekvens & Digitaliseringsplan' (Consequences & Digitalization Plan), 'Kritiska infrastruktur' (Critical Infrastructure), and 'Digital Transformation'. Arrows indicate a flow from left to right, with a feedback loop from the final stage back to the first. The middle panel is a monthly calendar for 2023/2024, with various event thumbnails for each month. The bottom panel is titled 'Vad händer om Arktis släcks ned?' (What happens if the Arctic melts?) and features a map of Sweden and icons for 'Viktiga samhällsfunktioner' (Important societal functions) and 'Kritiska infrastrukturer' (Critical infrastructures).



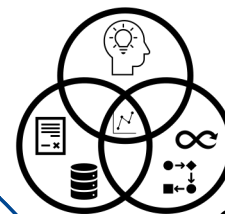
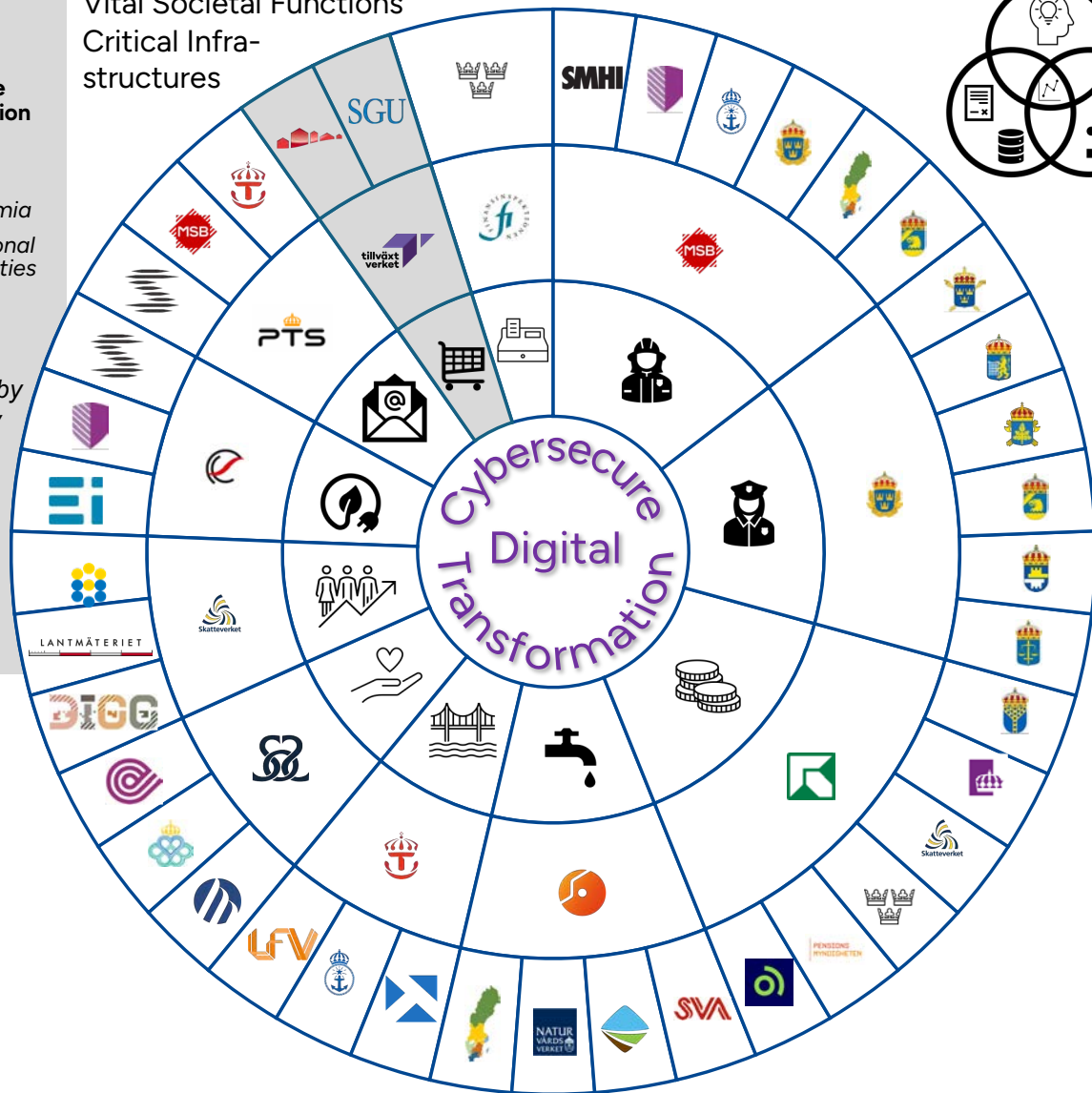


How to best prepare Sweden for a cybersecure digital transformation?





Vital Societal Functions
Critical Infra-structures



Cyber Threats & Incidents

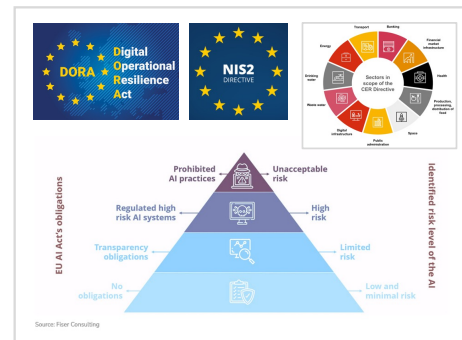
Develop and strengthen the capability to prevent, identify, and handle cyber threats and large-scale incidents.



IMY.

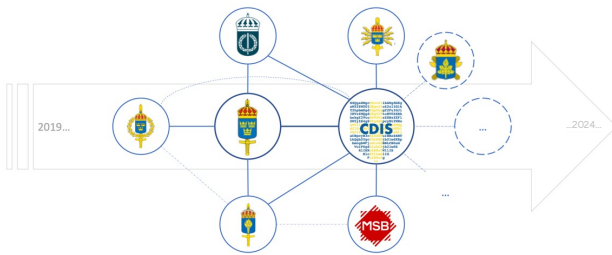


III & V





Looking ahead



Cybercampus Sverige – Looking back

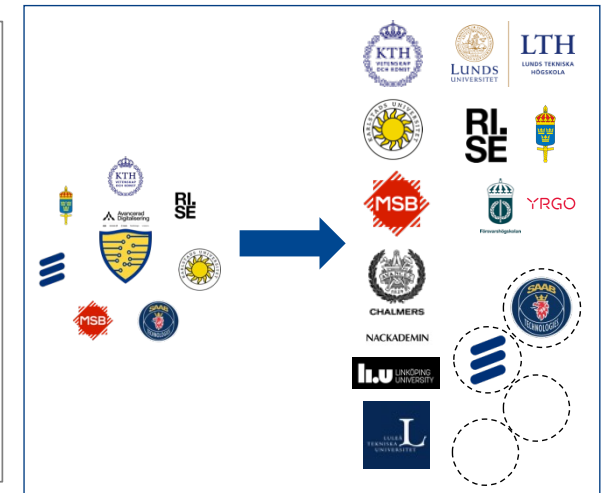
Initial Idea (2021-2022)

#collaborative

Support from the Swedish Government (Inauguration 07 FEB 24)

22 MAY 2024 | CDIS Spring Conference

David OLGART





National Collaboration & Focus (Examples) *Interdisciplinary: Secure, Robust & Resilient Digital Transformation*

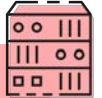
Secure Cloud & Edge
(infrastructure & data)



Trustworthy IoT
(automated re-certification)



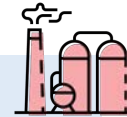
Open source software
and hardware (RISC-V)



Adversarial AI



IT-OT-IoT
amalgamation



Intelligent networks + 6G
(controlled data flows)



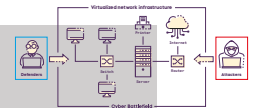
Vulnerability analysis
(cyber threat intelligence)



Automate cybersecurity
(limit human reliance)



Cyber Ranges





Structural Development

- Recruitment
- Partnership Program
- Outreach
- Funding



Activities

- Joint & Cutting-Edge Research
 - Ethical Hacking Lab; Bug Bounty
- Agile Education – Lifelong Learning
 - Cybersecurity for ...
 - All ↔ Specialists / Experts ↔ Decision Makers
 - Postgraduate Education
 - Ethical Hacking
 - Certificates – Validation
 - Training – Exercises
- (Defence) Innovation
 - Ethical Hacking; Bug Bounty; Hackathons
- Collaboration
 - National Entities – NCC-SE
 - Co-organizer of activities
 - Co-sponsor of the SE National Hacking Team
 - International, Similar Entities



Cybercampus Sverige



David Olgart | Director

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<https://www.cybercampus.se/>

