



HØGSKOLEN I GJØVIK



COINS Research School of Computer and Information Security

Einar Snekkenes, Scientific Director

NIK – Norsk Informatikk Konferanse, 2013-11-19



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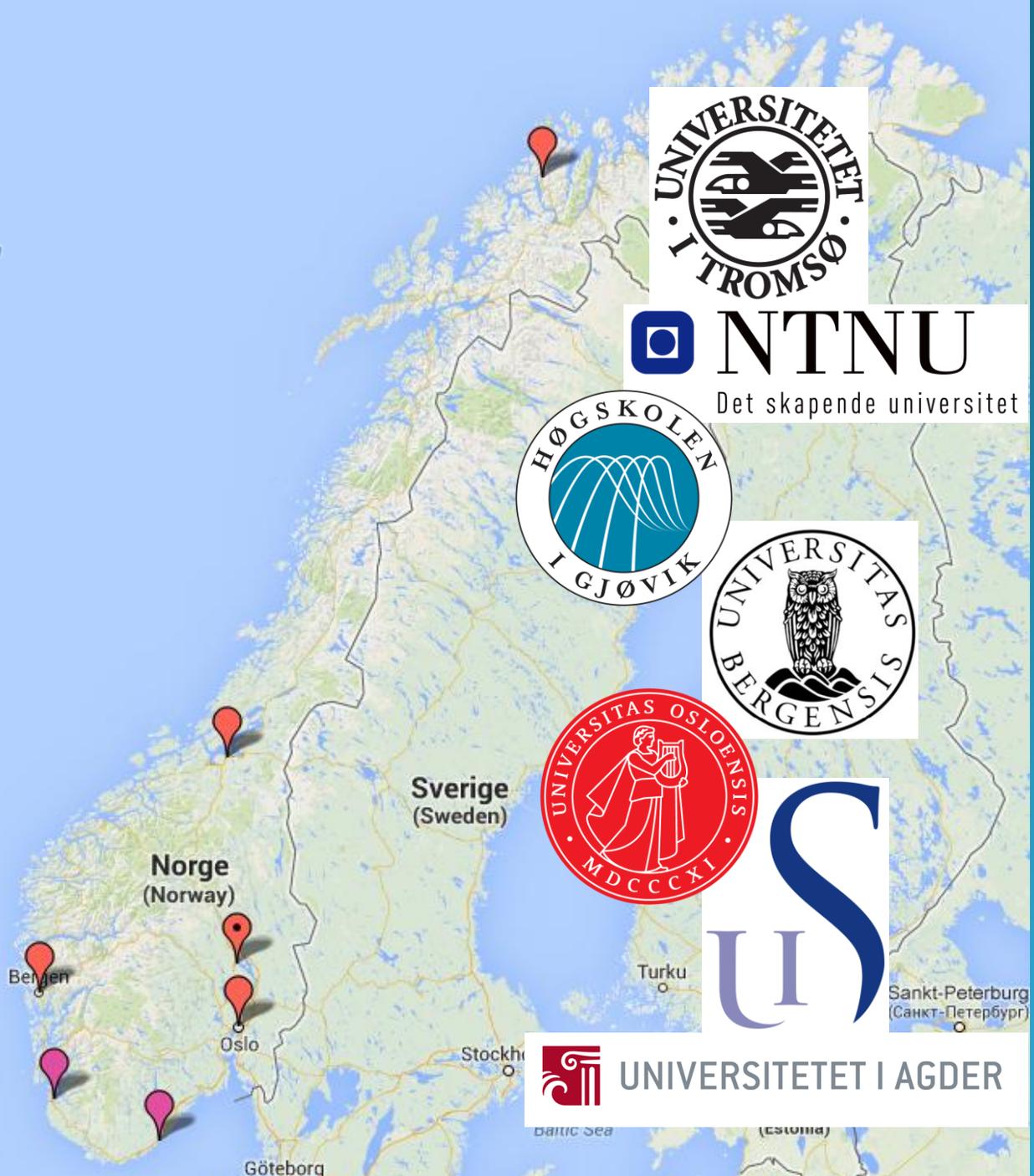
<http://www.google.com/search?q=Einar+Snekkenes>



The COINS story

- What is COINS?
- Objectives
- Organization
- Partners
- Activities





- Resource network

NISNet
2007-2011



- Value creation network

FRISC
2011-2015



- Research school

COINS
2013-2020



COINS – the hard facts

- NFR Project: 2013-2020
- Funding
 - NFR: MNOK 12.805
 - Partners: MNOK 4.265
- Academic partners: 7 (ALL)
- Students registered (as of today): 35
- Alumni students (as of today): 2

COINS Objectives

- Integration of several research groups into a larger collaboration
 - An extended course portfolio for all partners in the school
 - Stronger internal relations between Ph.D. students
 - Increased Ph.D. student mobility by access to the broader network
- Better education of Ph.D. students
 - Access to a broader pool of competent thesis advisors
 - Improved supervision by exchange of information security teaching experience
 - Creation of academic and industry contact networks for early-stage researchers
- A more efficient instructional programme
 - Better course delivery for all partners in the school
 - Expected completion (almost) in normalized time with a low dropout rate

What's in it for the student?

- Money, mentors, meeting places
 - **Travel** to national and Nordic gatherings
 - **Stay** with **academic** and **industry** partners to initiate research
 - Build a contact **network**:
Most of you will not continue to work in academia (more Ph.D.s than open positions)
 - **Access** to other professors as **additional advisors**
- COINS as a **brand**: higher value for your degree.



Steering Committee &

- **Scientific Director** – Einar Snekkenes
- **Gjøvik University College** – Hanno Langweg
- **NTNU** – Stig Frode Mjølshes
- **University of Agder** – Vladimir Oleshchuk
- **University of Bergen** – Tor Helleseth
- **University of Oslo** – Audun Jøsang
- **University of Stavanger** – Chunming Rong
- **University of Tromsø** – Ragnar Soleng
- **Ph.D. student representative** – to be elected
- **Ph.D. student representative** – to be elected

Advisory board

- **Prof. Hanne Riis Nielson**, Danmarks Tekniske Universitet, informatics graduate school ITMAN
- **Prof. Armin B. Cremers**, scientific director of B-IT research school; universities Aachen and Bonn collaborating on eight researcher training areas including IT security
- **Prof. Simone Fischer-Hübner**, Karlstads Universitet; SWITS Det svenska nätverket för doktorander inom IT-säkerhet
- **Prof. Eugene Spafford**, CERIAS, Purdue University; U.S. perspective on cyber security
- **Sofie Nyström**, head of IT security at DnB, Norway's largest bank; industry perspective

Researcher training partners

- CASED - Center for Advanced Security Research Darmstadt
- Chalmers - Chalmers University of Technology
- ENSICAEN - National Graduate School of Engineering & Research Center
- Karlstads universitet - research group on privacy and security
- KTH (Royal Institute of Technology, School of Electrical Engineering)
- Department of Industrial Information and Control Systems
- Plymouth University - Centre for Security, Communications and Network Research (CSCAN)
- SWITS - Swedish IT Security Network for Ph.D. Students

Research lab partners

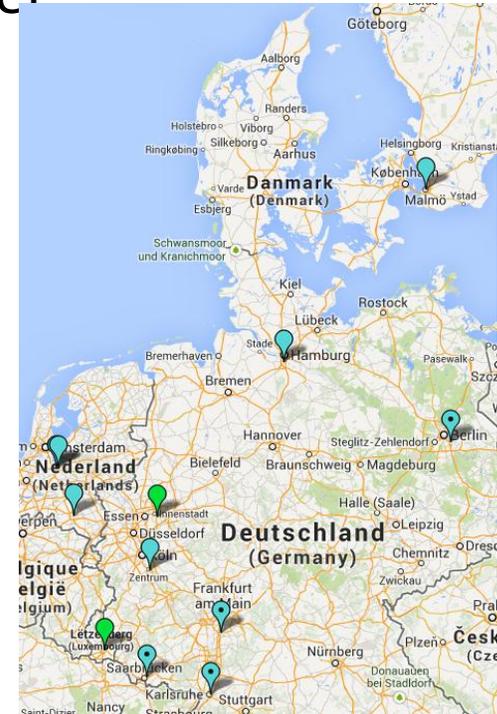
- **Ericsson Research** (Security Group)

Public sector partners

- **Datatilsynet** - The Norwegian Data Protection Authority
- **NorSIS** - Norwegian Centre for Information Security

Focus in 2013

- **Web**
 - → Main communication channel
- Contracts (7), processes (4+), students (34+), partners (8+)
 - → **Get COINS up and running**
- First common activities
 - → Gather all Ph.D. students in November
- Collect **experience**
 - → 13 visits of other schools/networks (NL, DE, LU, SE)



Sample COINS events

Upcoming events

SEPTEMBER 2013

16⁻¹⁷ COINS@MYPHD
🕒 09:00 - 14:00 (17) 📍 Technische Universität Hamburg-Harburg
Event Type: conferences

OCTOBER 2013

18⁻²¹ NORDSEC 2013 IN GREENLAND
🕒 (All Day) 📍 Arctic Hotel, Ilulissat, Greenland
Event Type: conferences

22⁻²⁴ COINS/SWITS TEAM AT HACK.LU CTF CAPTURE-THE-FLAG
🕒 11:00 - 11:00 (24) 📍 Høgskolen i Gjøvik

24⁻²⁵ RESEARCH COUNCIL'S RESEARCH SCHOOL SEMINAR
🕒 12:00 - 14:00 (25) 📍 Voksenåsen

NOVEMBER 2013

18⁻²⁰ NISK 2013 IN STAVANGER
🕒 (All Day) 📍 Gunnar Warebergsgate 17, Stavanger, 4002
Event Type: conferences

20⁻²¹ PH.D. STUDENT SEMINAR
🕒 (All Day) 📍 Kjell Arholmsgt. 41, 4036 Stavanger, Norway

JANUARY 2014

16⁻¹⁷ SECURITY DIVAS 2014
🕒 11:00 - 13:00 (17) 📍 Gjøvik



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CTF Capture the Flag

- Two Norwegian teams at [hack.lu CTF](http://hack.lu):
 - HiGIMT (BIS, MIS)
 - **COINS** (PhD HiG, NTNU/UiA/UiB/UiO/UiS/UiT, SWITS)
- Tuesday 2013-10-22T1100 —
Thursday 2013-10-24T1100
 - Browser-based
 - **Challenge-based:** web apps, forensics, crypto, reverse engineering
 - Wifi, pizza, goodies, practice, **fun**



COINS@NIK

- **NISK Norwegian Information Security Conference**
 - Stavanger, 18-20/11-2013
- **Ph.D. student seminar**
20-21/11 after NISK
 - Gather most COINS students
 - Invited Ph.D. students from SWITS (SE), MyPhD (DE)
 - Discuss research, network, have fun
 - Elect two student representatives
 - Debate future of COINS – what do **students** want/need?



Recruiting — tell your friends

- Want to do a Ph.D. in Information Security in Norway?



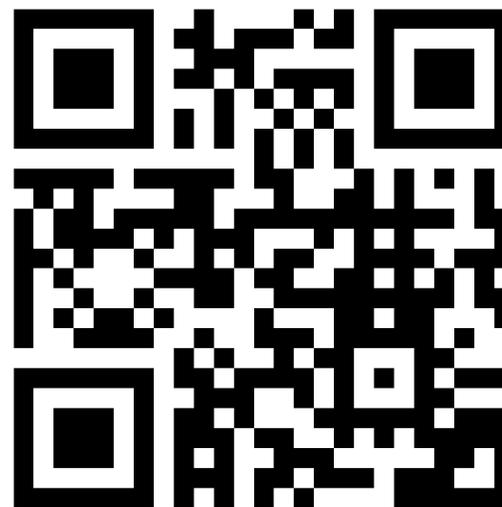
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NTNU

Det skapende universitet

Go to www.coinsrs.no



UNIVERSITETET I AGDER