

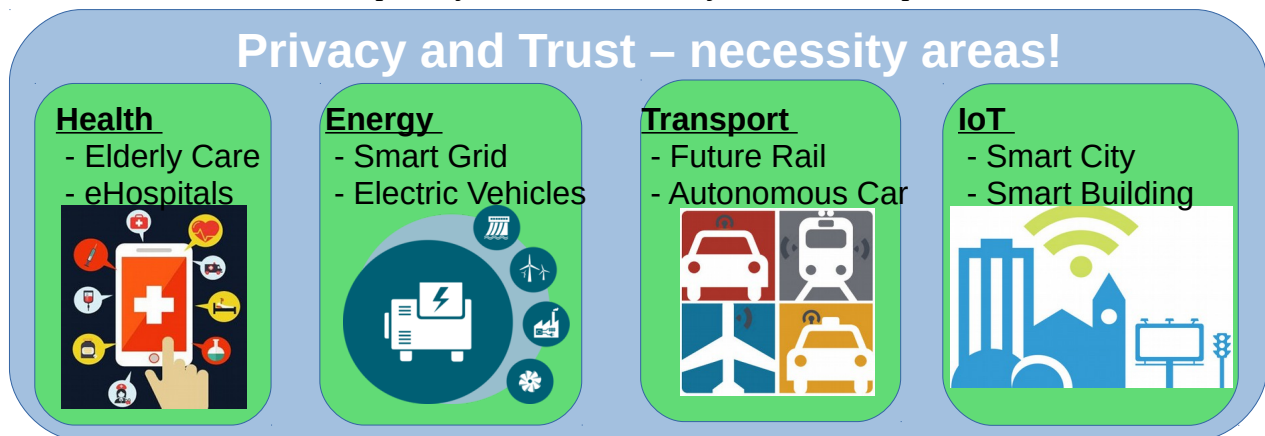
UiO Strategic Research Initiative for Security, Privacy and Trust in the Digital Society

The strategic research initiative (SRI) aims to improve knowledge and practices in industry on how to attain privacy and trust for the novel products and services of the digital society. Business development and service innovation where IoT systems are being employed, is being held back by the lack of trust from the users and the many new privacy aspects. Users often see the digital/Internet of Things (IoT) services as a threat to their privacy and safety. **The goal of the SRI** is to establish a Centre, widen the knowledge and help businesses include trust and privacy early in their development process with reduced costs.

European regulations like the General Data Protection Regulations (GDPR) and Norwegian regulatory bodies like the Datatilsynet or Forbrukerrådet are lifting the bar on privacy requirements for IT products, as requested by EU citizens. We are working closely with the Norwegian institutions in the IoTSec project, as well as with the GDPR with our international collaborators e.g. from Chalmers. We have seen the difficulties these bring to businesses when trying to comply. The reason is too often the lack of knowledge about privacy and trust concepts, and of methods for attaining them in IoT systems.

Security and Trust are key issues in the collaboration between companies. Today, processes in industry are rather isolated from the Internet. Industry 4.0 with automated processes and dynamic service allocations require the opening of closed ecosystems, and will thus increase the attack potential substantially. An appropriate security-awareness, -monitoring and -controlling is essential to protect the business values of a company in the upcoming connected IoT world.

Focus for the SRI is on four major application areas where the society is disrupted by the digitalization wave, and where we have seen privacy and trust to be major business impediments.



What is common in all these scenarios is the need for a security- and privacy-aware information model, in conjunction with a convincing trust proposition for users, customers and collaborators.

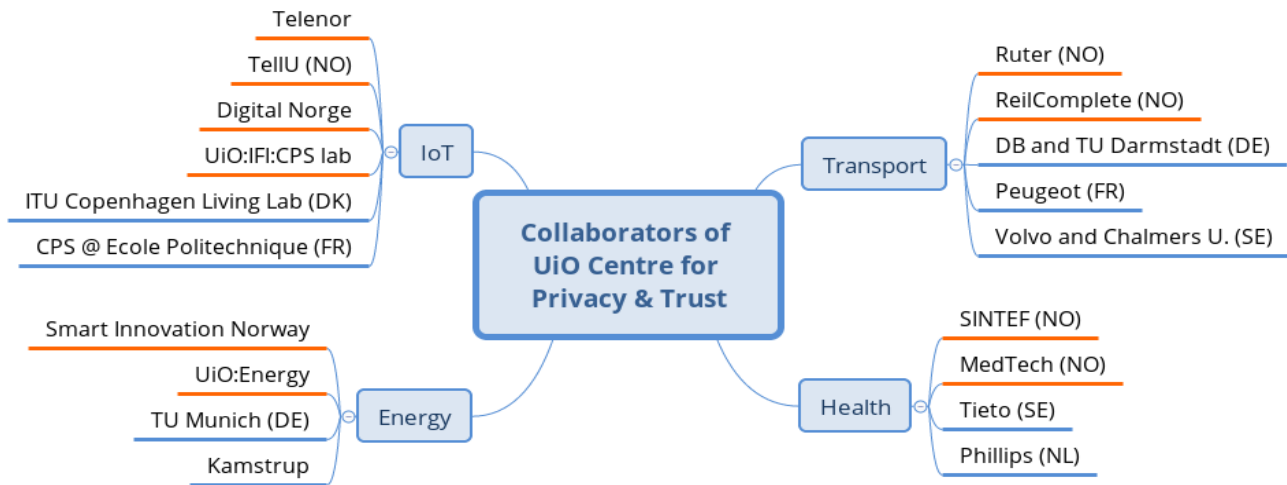
The SRI SPaT is **fuelled by** the many **projects** and **forums** that we have recently established.

- SCOTT (JU ECSEL (EU); 52+ partners from 12 countries, 8 Norwegian, 37+MEuro)
- IoTSec (NFR IKTPLUSS; 10+ partners, 32+MNOK)
- Digi (Norad; 10+ partners from 8 countries, 20+MNOK)
- SmartNM (EnergiX)
- Gemini centre on IoT (with Sintef and NTNU)

- DiversIoT (NFR, with Sintef and TellU)
- Smart Grid Security Centre (part of IoTSec)
- RailCons (NFR)
- Trygg Svangerskap (NFR, with HiOA)

Collaborators:

We have numerous collaborators and connections established inside Norway and Internationally, both with strong academia, innovation environments, many SMEs and large industry.



Sister projects from our many collaborators:

- SmartNM (EnergiX)
- DILUTE (NFR IKTPLUSS)
- INVADE (Horizon2020)
- National Smart Grid Laboratory
- Planned partnerships with:
 - Open Innovation Lab Norway

Key people:

- Centre coordinator (**Josef Noll**)
- Scientific coordinator (**Olaf Owe**)
- Innovation coordinator (**Dieter Hirdes**)
- Student coordinator (**Christian Johansen**)

Advisers: (for the four application pillars)

- on Health (**Mette Røhne**)
- on Energy (**Frank Eliassen**)
- on Transportation (**Claus Feyling**)
- on IoT (**Arnor Solberg**)

Long term vision and plans:

- Establish a UiO Centre for Security, Privacy and Trust (SPaT)
- SRI SPaT is **meant to be the credibility background to support our application for an SFI within 2 years**. The SRI provides the needed credibility and weight, as well as workforce for the SFI.

- Become Nordic Centre of Expertise within 4 years.
- Become EU Lighthouse within 5 years.

In conclusion, creating the SRI Centre for Privacy and Trust will a) provide us visibility to industrial partners in the need for privacy- and security-aware devices and services, and b) becomes the credibility background for the envisaged Centre and an SFI application in the same domain. We expect the support of 1 Post Doc and 2 PhD students to support the SRI with suitable background, required for a successful SFI application.