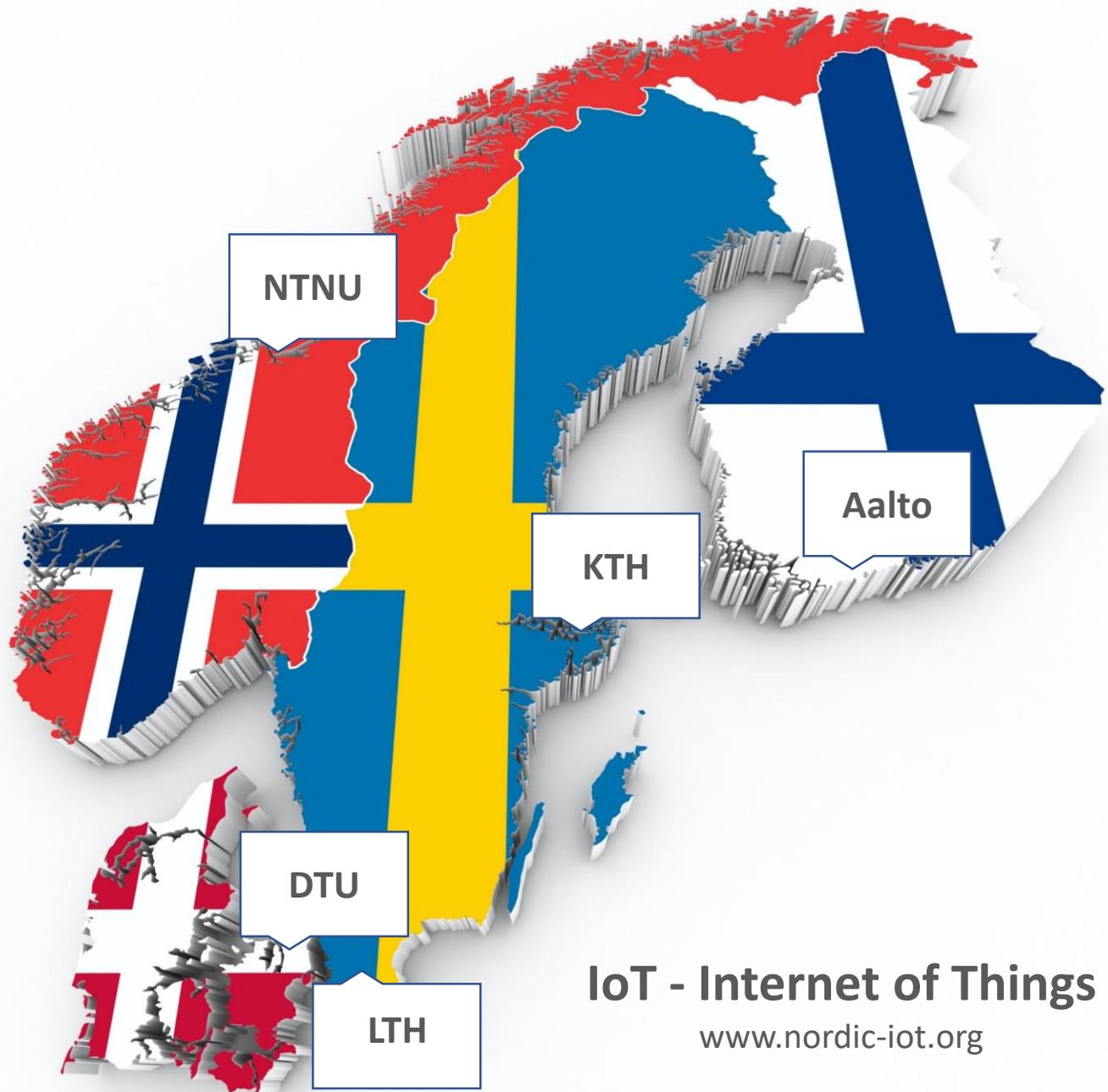


The Nordic Graduate School on IoT

Make your PhD programme in one of five Nordic universities and take advantage of joint courses, labs and IoT test facilities



IoT - Internet of Things
www.nordic-iot.org

With a long tradition of supporting innovation behind them, the Nordic countries have always been pacesetters when it comes to innovation-based development, topping the rankings of the most innovative economies in the European Union (EU). According to the Regional Innovation Scoreboard, Stockholm is the most innovative region in the EU, followed by the capital region of Denmark. The Global Innovation Index 2017 lists Sweden, Denmark and Finland in the top ten most innovative countries globally. Indeed, on the Global Cleantech Innovation Index 2014, Finland ranks second best globally while Sweden and Denmark are fourth and fifth respectively. The EU 2020 target aims at 40% of 30–34 year olds with a tertiary level qualification. The Nordic average is currently 49%, with Sweden: 51% and Norway (50.1%) leading the way with Denmark (47.7%) and Finland (46.1%) not far behind (Eurostat, 2017). The Nordic Region also remains an attractive destination for foreign investment, accounting for 7% of Europe’s total Foreign Direct Investment inflows, in a Region having 4% of the European population.

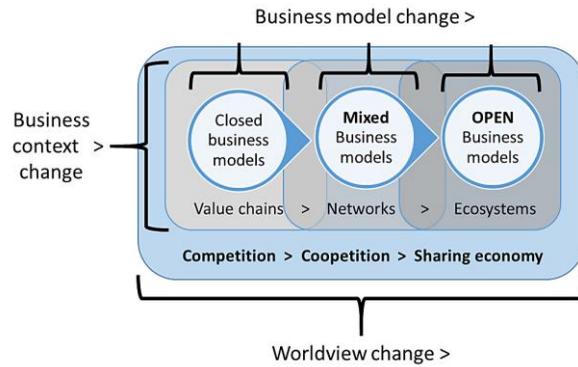




Current PhD projects on IoT

- Resource Management in Fog Computing for Industrial Applications
- Edge computing
- Digital twins
- Distributed machine learning at the edge
- Intersection of cloud computing, telecom, and control theory
- Control-based resource management in the distributed cloud
- Feedback Control in Cyber-Physical Systems
- Mission critical cloud
- Autonomous Cloud
- Autonomous Systems and Software
- Event-Based Control and State Estimation
- State estimation and motion planning of non-linear systems
- Efficient user generated information management
- Energy conservation in 5G networks using DRX
- Latency Critical Networking
- Reliable Architecture for Future Smart Communities
- 5G Mobile Networks Optimization using Cloud-RAN architecture
- Optimisation of future mobile communication systems using Deep Learning
- Fog Computing Security
- Open source Fog Node: hardware support for virtualization
- Distributed real-time operational data analytics
- Information security for operational safety in Industry 4.0 based production
- Future Scenarios and Value Network Configurations for Industrial 5G
- Data Analytics for Cyber-physical Systems: Current Situation and Strategies for Action
- Smart Manufacturing
- Towards a service-oriented framework supporting MBSE tool-chain development

IoT innovation infrastructure and labs



- DTU smart campus - <http://www.smartcampus.dtu.dk/>
- Helsingborg city IoT demo site <http://smart.helsingborg.se>
- Lyngby smart city hub - <http://vidensby.dk/en/projekt/smart-city-hub/>
- Fog computing over TSN based on LTE communication

Examples of doctoral courses/summer schools

- Societal Challenges and Industry
- Fog computing and network
- Ressource management and middleware in the fog
- Smart cities summer school
- Ph.D. Course in Design of Mobile Backhaul Networks 5 ECTS)
- Network technologies and application development for Internet of Things (5 ECTS)
- IoT prototyping. Proof of Concept for your Telecom IoT Project (X ECTS)
- Topics on Network Anticipation and IoT within 5G



Admission

The Nordic IoT Graduate School addresses a top priority for the Nordic countries and Europe in general, namely the digitalization of the industry via IoT, that will generate growth, jobs and increase competitiveness. Beyond the Nordic countries, IoT is expected to have a major impact on the global economy through "the comprehensive transformation of the whole sphere of industrial production, merging digital technology and the internet with conventional industry", resulting in important productivity gains, revenue growth and consequent increased competitiveness.

The school's Graduate Admissions is a decentralized network of departments that extends across the five universities and includes eight departmental programmes. Each of these programs has an online application with a specific set of requirements and deadlines.

If you are interested in making your PhD at the Nordic Graduate School on IoT, please consult www.nordic-iot.org