

RFID & IOT in the Nordics 2019

23 MAY 2019 AT THE IT UNIVERSITY, COPENHAGEN

CONFERENCE CONTENT:

KEYNOTE
PRESENTATIONS

RFID & IOT
USE CASES

IOT IN
INDUSTRY AND
IN PUBLIC

DIGITALIZATION

EXHIBITION
WITH DEMOS

KEYNOTE PRESENTATIONS:



MARK THOMSON
**Is Automation the
Key to Retail Success?**

What's happening in retail? How has the shift in shopping behavior impacted retailers around the world and will robots take over?

Automation is now very high profile in modern retail. Mark will address why this is happening, who is doing what in the retail world and in particular the technologies including RFID.



BIRGER HODT
**PRY-ID - Making electrical
installations intelligent**

Prismian Group know that the architecture of smart grids is key. Cutting-edge, high quality cables and grid components not only enhance grid reliability and efficiency, but they can also prevent blackouts and reduce overall maintenance costs.



HENRIK STILLING
**Use of RFID in every
day life in a Hospital**

With more than 2,000 RFID readers, an integrated task management system, automated processes, connected services, tracking of all assets, employee tracking etc., the new university hospital in Aarhus is a European pioneer for smart hospitals. How has the daily operations changed?



STEVE HALLIDAY
**The RAIN RFID Alliance, with
over 160 companies worldwide,
is increasing the awareness and
accelerating the growth of the
passive UHF RFID industry**

The Presentation will explain how end-users in a variety of markets are increasingly aware of RAIN RFID technology's capabilities and how it can help solve their problems.

CO-ORGANIZERS:



WELCOME:

RFID & IoT in the Nordics 2019 Conference

Since 2010, the annual RFID i Danmark Conference has established itself as the leading RFID event in the Nordic countries, and as we have included IoT over the last couple of years, the conference is known as the "RFID & IoT in the Nordics" conference.

Our aim is still, as it was when founded 9 years ago, to learn companies – private as well as public – how they can increase efficiency and competitiveness by implementation of smart wireless identification, automatic data capture, tracking and tracing technologies. We want to make the possibilities, opportunities and successful implementations known to more organizations – and this is why we organize our annual conference – now for the 9th consecutive year.

Cases from Denmark are again this year in majority, but we are working with associations, companies and individuals in the other countries to make a better balance in the years to come.

At this year's Conference, we are proud to be able to present Prysmian Group Norway as a user keynote along with the Central Region Denmark, who is sharing the experience from the largest RFID installation in a Hospital in Northern Europe.

We are also proud that the president of the RAIN Alliance, Steve Halliday, has decided to come back this year as a keynote presenter. The RAIN Alliance is very important to our industry. Steve's presentation in combination with the other technology keynote, Mark Thomson from Zebra Technologies, will provide you with an international update.

In the afternoon, you can sit in and listen to a number of user presentations, or you can participate in the breakout sessions on IoT and Digitalization.

To learn more about current solutions and technologies you have a unique opportunity to explore our Trade show and Exhibition – we are welcoming several new vendors, and you will have a chance to see RFID in action as well! Hope you will have a great time at the conference!



Henrik B. Granau
Founder and chairman of RFID i Danmark

SPONSORS:



VISIT THE EXHIBITION:

Ask the experts - See RFID technology in action - Meet the keynote speakers - Learn more about the RFID i Danmark Network - Learn more about the AIM Global Network - Learn more about the GS1 Network.
Meet the products and solutions providers at the booths.

AGENDA:

| | | | |
|-------------------|--|--|---|
| 08:30 | Arrival, Registration and Coffee | | |
| | Plenum presentations Auditorium 1 | | |
| 09:00 | Welcome and Introduction by RFID i Danmark and IT University | | |
| 09:15 | <p>Is Automation the Key to Retail Success? by Mark Thomson, Zebra Technologies</p> <p>The RAIN RFID Alliance, with over 160 companies worldwide, is increasing the awareness and accelerating the growth of the passive UHF RFID industry by Steve Halliday, RAIN RFID Alliance</p> <p>RFID and IoT trends and Nordic update by Henrik Granau, RFID i Danmark</p> <p>Introduction to the Exhibition by AIM Denmark and the Exhibitors</p> | | |
| 10:45 | Coffee, Exhibition and Networking in Atrium | | |
| 11:30 | <p>PRY-ID - Making electrical installations intelligent by Birger Hodt, Prysmian Group Norge</p> <p>Use of RFID in every day life in a Hospital by Henrik Stilling, Central Region Denmark</p> <p>Introduction to breakout sessions by RFID i Danmark and DANSK IT</p> | | |
| 12:35 | Lunch, Exhibition and Networking in Atrium | | |
| Breakout sessions | RFID & IoT use cases Auditorium 1 | IoT in Industry Auditorium 2 | Digitalization - Organizational Demands Scroll Bar |
| 13:45 | <p>Real time consumption and relocation of raw material with RFID by Gitte Holland Eriksen, CP Kelco</p> <p>Passive tags in an active world by Gert Aagaard, Container Centralen</p> <p>How can tracking help put the patient first at the hospitals? by Martin Ungermand, Odense University Hospital</p> | <p>How To Benefit from IoT in the Industry by Marianne Bach Hjortlund, Siemens</p> <p>Security & IoT by Alessandro Bruni, IT University</p> <p>Plenum discussion on IoT in the Industry moderated by DANSK IT</p> | <p>Organizing workforce and resources in the technological era by Sacha Mendes da Silva, Alexandra Institute</p> <p>Digital Innovation with Sensor Data - the process and the platform by Søren B. Sørensen, Devoteam</p> <p>Plenum discussion on Organizational Demands moderated by DANSK IT and Alexandra Institute</p> |
| 14:45 | Coffee, Exhibition and Networking in Atrium | | |
| Breakout sessions | RFID & IoT use cases Auditorium 1 | IoT in Public Auditorium 2 | Digitalization - Where to next? Scroll Bar |
| 15:15 | <p>How to ensure maritime safety using RFID technology by Mikkel Lorenzen, DanPilot</p> <p>Waste Management - Intelligent bins (IoT) by Michael Kørlov, Division X, Telia Company</p> <p>The Intelligent Transportation Box by Niki Nicolas Grigoriou, Intelligent Systems</p> | <p>Smart Devices - How the Energy Sector Learns from Real-Time Failure by Peter Lyck Ingerslev, Energinet</p> <p>Smart City by Kim Stannov Søvsø, SmartAarhus</p> <p>Plenum discussion on IoT in the Public moderated by DANSK IT</p> | <p>Standards and collaboration in the IoT domain by Steve Halliday, RAIN RFID Alliance</p> <p>How to get things done by Tom Togsverd, Indesmatech</p> <p>Plenum discussion on Organizational Demands moderated by DANSK IT and Alexandra Institute</p> |
| | Plenum presentations Auditorium 1 | |  |
| 16:15 | Wrap-up by RFID i Danmark and DANSK IT | | |
| 16:45 | Networking in Atrium | | |
| | | | |

The agenda may be subject to change.

Keynote presentations in plenum at RFID & IoT in the Nordics 2019

(in English)

Is Automation the Key to Retail Success?

What's happening in retail? How has the shift in shopping behavior impacted retailers around the world and will robots take over? Automation is now very high profile in modern retail.

Mark will address why this is happening, who is doing what in the retail world and in particular the technologies including RFID that support the automation.

As Director of Retail Industry Solutions at Zebra Technologies, Mark works closely with retailers and hospitality businesses to provide input on how to face the challenge of a new digital retail landscape, where customers are often more connected and informed than shop floor staff. Mark helps retailers focus on developing a vision for their retail business that aims to improve customer experience and drive business efficiencies.

Mark Thomson has worked closely with retailers on the pain points of modern retail and explains how technology solutions can be an integral part of their business strategy to help them solve their real business challenges from supply chain to store.

The RAIN RFID Alliance, with over 160 companies worldwide, is increasing the awareness and accelerating the growth of the passive UHF RFID industry

In this keynote speak, President of the RAIN RFID Alliance, Steve Halliday, will explain how end-users in a variety of markets are increasingly aware of RAIN RFID technology's capabilities and how it can help solve their problems.

Steve will talk about the growth of the technology, which industries and geographical locations are moving fastest, and where the next big application will come from.

PRY-ID - Making electrical installations intelligent

Prysmian Group know that the architecture of smart grids is key. Cutting-edge, high quality cables and grid components not only enhance grid reliability and efficiency, but they can prevent blackouts and reduce overall maintenance costs.

Moreover, when smart solutions are deployed, you can better exploit the potential of a grid, allowing far-sighted asset management.

Prysmian Group just recently won 2nd place in "Most Innovative use of RFID/IOT to enhance a product or service" at RFID Journal Live.

Use of RFID in every day life in a Hospital

With more than 2,000 RFID readers, an integrated task management system, automated processes, connected services, tracking of all assets, employee tracking etc., the new university hospital in Aarhus is a European pioneer for smart hospitals.

How has the daily operations changed after implementing RFID? Henrik Stilling will guide us on a practical oriented visual tour on the Hospital.





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Only Zebra provides end-to-end solution simplicity, with everything you need to implement RFID in your organisation.

Come and see us at stand B1 to find out more.

Visit zebra.com for more information

User case presentations at RFID & IoT in the Nordics 2019

(in English)

The DNA of the thematic network, RFID i Danmark, is end-users of RFID and IoT technologies sharing their experiences with other companies who are already using, or intending/planning to use, RFID technology in their own organizations.

THERE WILL BE 6 PRESENTATIONS;

Real time consumption and relocation of raw material with RFID

CP Kelco (member of RFID i Danmark) will for the first time present their new RFID based solution.

Passive tags in an active world

Container Centralen has just applied 3.500.000 new UHF tags to the European flower container pool.

Why and how - and what is the perspective in a surrounding world "focusing" on IoT, 5G, Active tags and Blockchains.

How can tracking help put the patient first at the hospitals?

Odense University Hospital (member of RFID i Danmark) is preparing for the IT support of the service logistics at a new hospital under construction in Odense.

At the current Odense University Hospital, a pilot project is being carried out to gather experience from the use of an asset tracking system in the clinical departments.

How to ensure maritime safety using RFID technology

DanPilot's boat service consists of 34 specialized pilot boats distributed around the entire country. This way they are fast and efficient in delivering a pilot to all pilot marks in Danish waters. Danpilot is presenting how they are using RFID to manage safety equipment at sea in this very distributed organizational environment.

Waste Management - Intelligent bins (IoT)

In cooperation with Wastecontrol, Telia has developed a fully automatic IoT Solution for Intelligent bins. The sensor based system monitors and registers the volume in the bins. Cost reductions are achieved. Telia will present how, and how much.

The Intelligent Transportation Box

The Intelligent Transportation Box is a solution developed for monitoring and automated handling and sorting of Blood Samples from practice to laboratory. The flow from when the blood sample is taken at the medical practice and to the analysis at the Clinical Biochemical Department is done, will be presented by Intelligent Systems (member of RFID i Danmark).



Want to learn more about the RFID i Danmark network, and how to join?

RFID i Danmark is a non-profit association where the member fees are deciding the level of activities supported by the secretariate function. The more members - the more we can achieve!

Contact us in the networking breaks in the C1 Lounge Area - or visit our web: www.rfididk.org.



WE OFFER A COMPLETE RFID SOLUTION

BENEFITS

- Reduce warehouse and distribution costs
- Reduce inventory
- Improve forecasting and planning
- Reduce out-of stock conditions
- Improve accuracy
- Label/tag can be placed within the product
- Information can be stored within the label/tag
- Speed of operation (no need to scan anything)



SOFTWARE APPLICATION (Production Management, Warehouse Management or Asset Tracking)

RFID EQUIPMENT (including portals, handheld readers, desktop readers and printers)

RFID LABELS AND TAGS

INSTALLATION AND TRAINING

CONSULTANCY

WE ARE ACKNOWLEDGED GLOBAL EXPERTS IN THE RFID FIELD AND WE ENSURE YOU MAKE THE RIGHT DECISIONS FOR YOUR BUSINESS.

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IoT and digitalization break-outs

(in English)

TRACK II: IOT

This track puts focus on IoT at larger scales, that is, in the industry and in the energy sector and in the public domain. Through four talks we dig deeper in understanding how Industrial IoT may be beneficial to us all, and how we should ensure security along the way.

How To Benefit from IoT in the Industry

Marianne Bach Hjortlund, Siemens

What is IIoT and how can industrial companies benefit from it? Will IIoT be able to disrupt the way we work today and provide new business models for industry?

As a Technology Specialist Marianne shares her view on how automation developers and end users on automation solutions and IIoT will get there.

Challenges and Solutions for Securing IoT Communication

Alessandro Bruni, IT University

Securing IoT communication with the infrastructure is still problematic today. Many of the problems that we are facing – key distribution, secure deployment, strong encryption – are problems that have been solved by standard Internet technologies. Can we take the lessons learned by multiple decades of experience developing secure Internet protocols? What special constraints and challenges are we facing when constructing a secure IoT infrastructure? This technical talk will present the author's experience contributing to the standardization of secure transport protocols for IoT.

Smart Devices – How the Energy Sector Learns from Real-Time Failure

Peter Lyck Ingerslev, Energinet

From IoT to the Internet of Energy – how IoT may improve the energy sector of tomorrow as well as today. The energy sector experiences many challenges in connection to fluctuations in power sources vs. growing requirements from the industry and private end users. Peter shares with us how IoT and advanced algorithms and more may be used to ensure a greener future.

Smart City

Kim Stannov Søvsø, SmartAarhus

The transition from data to actual solutions is regarded as one of the key assets when becoming a smart city. A Smart City is about developing new intelligent services for the benefit of the citizens and politicians. The City of Aarhus investigates how data may be collected and applied to support such a development by working on prototypes and demonstrations of the core concepts in a city environment. Kim takes us through why, what, and how.

The track is moderated by DANSK IT.

TRACK III: DIGITALIZATION

In this track we explore and discuss all the things that are required around the technologies themselves. We see RFID and IoT as enablers and set out to understand how we may make the best of it.

Organizing workforce and resources in the technological era

Sacha Mendes da Silva, Alexandra Institute

The Digital Journey is on! Sacha digs into organizational perspectives in how to grasp and grow IoT, digging into how we need to reorganize ourselves and change the way we work.

Digital Innovation with Sensor Data - the process and the platform

Søren B. Sørensen, Devoteam

The two main capabilities for digital innovation with sensor data is a strong innovation process and a strong data platform. This presentation presents real-life examples for each of the two capabilities.

Standards and collaboration in the IoT domain

Steve Halliday, RAIN RFID Alliance

Steve takes us through the relevant standards of the IoT world today, and addresses why it is confusing along with what may be missing. What are our needs – how do we proceed?

How to get things done

Tom Togsverd, Indesmatech

Tom offers a Danish perspective on how technology may be best implemented by collaborations between policy-makers and the market. Which mechanisms work, and what to remember

The track is moderated by Alexandra Instituttet and DANSK IT.

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cloud systems such as
MindSphere boosts
efficiency and quality

Hear more visit Siemens at **booth_B2**

www.siemens.com/rfid



Udvikling skal baseres på standarder

GS1 Standarder er et fælles sprog for unik identifikation, automatiseret datafangst - fx via RFID - og datadeling. Det fælles sprog skal til for at understøtte alle anvendelser af RFID fra Business-to-Business til Business-to-Consumer.

GS1s standard for RFID hedder Electronic Product Code (EPC). EPC er en unik produktidentifikation, der indkodes i en RFID-tag, og er baseret på de allerede eksisterende identifikationsnøgler som fx GTIN, GLN og SSCC.

Hvem er GS1 Denmark?

GS1 er en global not-for-profit organisation, som udvikler standarder, der effektiviserer forsyningskæder. GS1 Standarderne giver unik produktidentifikation, automatiseret datafangst (stregkoder/RFID) og datadeling. Benefits inkluderer gennemsigtighed i forsyningskæden, bedre sporbarhed og høj datakvalitet.

Hvad kan vi hjælpe jer med? Kontakt os på telefon 39 27 85 27 eller info@gs1.dk eller besøg www.gs1.dk

RFID SYSTEMS

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Datalogic offers a wide range of **UHF RFID** devices in multiple form factors and various technologies. These devices have been developed to satisfy RFID requirements in many industries and applications including: **Retail In-Store** (Real-time inventory, RFID Check-out and Security), **Warehouse Management** (Inventory, Shipping/Receiving manually or automatic), **Healthcare** (Tracking and tracing of medicines and blood/specimens).

For more information visit: www.datalogic.com

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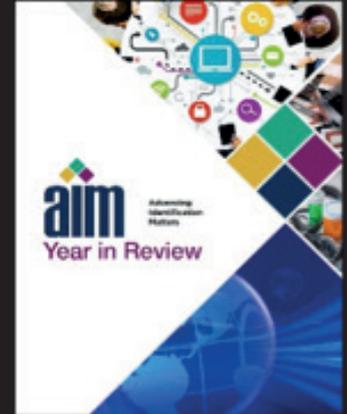
AIM:

AIM is the trusted worldwide industry association for the automatic identification industry. For nearly half a century, AIM has provided unbiased information, educational resources and standards to providers and users of these technologies.

AIM membership provides access to an insider's perspective on trends and opportunities along with a voice in shaping the growth and future of the industry. Member benefits include education, advocacy and community, as well as a role in creating industry standards through collaboration.

AIM actively supports the AIDC industry through the work of its industry groups as well as through participation at the industry, national (ANSI) and international (ISO) levels. In addition, AIM has established Liaison Relationships with several international organizations.

To learn more visit www.aimglobal.org and/or the local danish chapter: www.aimdenmark.dk



GS1 Denmark:

GS1 Denmark is one of more than 111 national GS1 organizations. GS1 Standards is the most widely used supply chain standards system in the world.

GS1 is a neutral, not-for-profit, global organization that develops global standards and solutions to improve the efficiency, security and visibility of supply chains across industries. GS1 is driven by close to two million user companies, which execute more than six billion transactions daily in 150 countries using GS1 Standards.

GS1 Standards provide:

- Unique identification - of items, shipments, assets, locations etc.
- Automatic data capture via barcodes and RFID tags
- Electronic data exchange, for example via EDI and master data pools (in Denmark: GS1Trade Sync).

For more information, visit www.gs1.dk



IT University:

The IT University of Copenhagen (ITU) was established in 1999 and is Denmark's leading university focusing on IT research and education. We deliver state-of-the-art teaching and research within computer science, business IT and digital design. Our ambition is to create and share knowledge that is profound and leads to ground-breaking information technology and services for the benefit of humanity.

The university collaborates closely with industry, the public sector and international researchers and is characterized by a strong entrepreneurial spirit among students as well as researchers.

ITU's modern campus in central Copenhagen is designed by the world-renowned Danish architect Henning Larsen.

ITU in numbers:

- 2,300 students
- 330 staff members (full-time equivalent)



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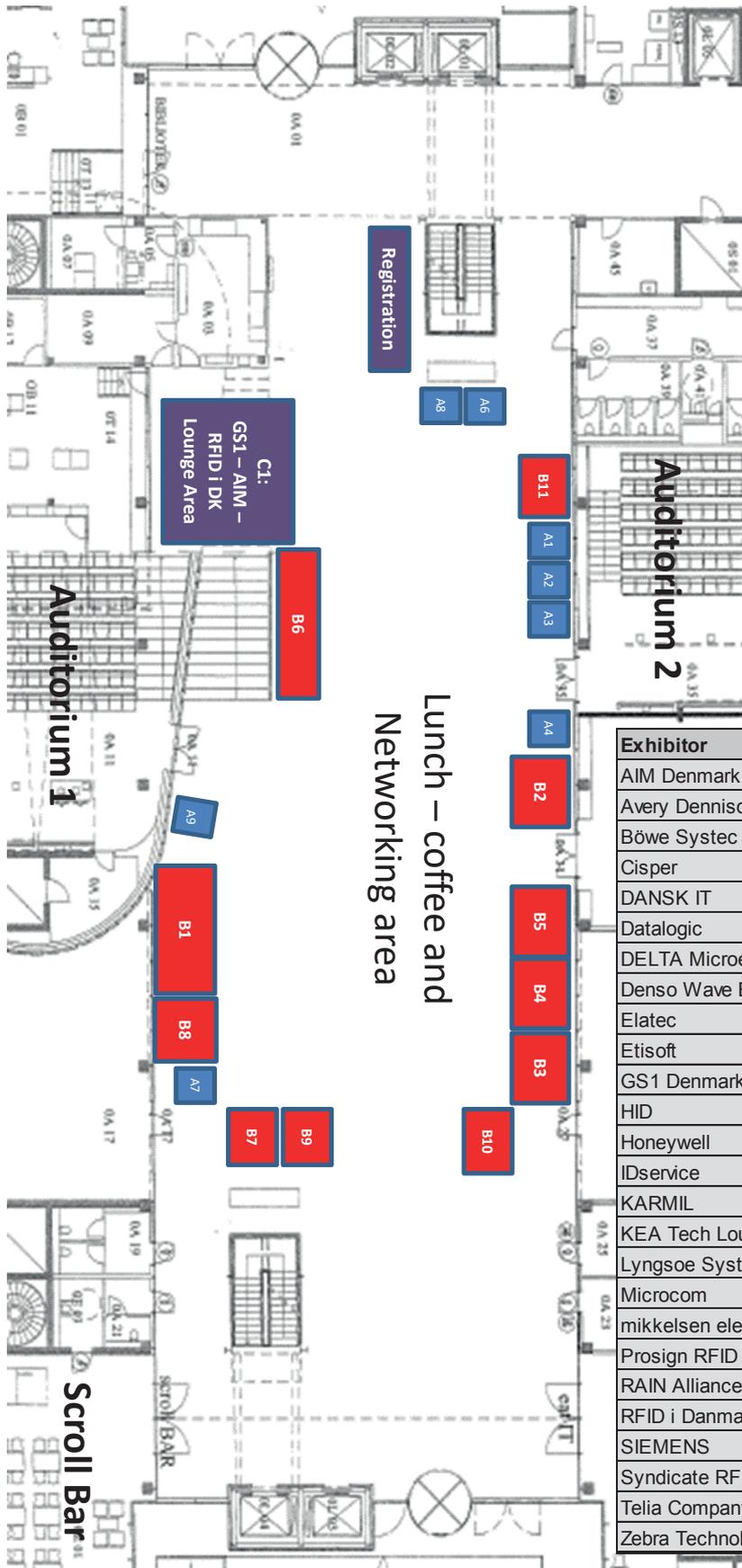


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EXHIBITION OVERVIEW:



| Exhibitor | Booth |
|------------------------|-------|
| AIM Denmark | C1 |
| Avery Dennison | B7 |
| Böwe Systec | B5 |
| Cisper | B9 |
| DANSK IT | A8 |
| Datalogic | B4 |
| DELTA Microelectronics | A2 |
| Denso Wave Europe | B6 |
| Elatec | B10 |
| Etisoft | A7 |
| GS1 Denmark | C1 |
| HID | B6 |
| Honeywell | B6 |
| IDservice | B10 |
| KARMIL | B6 |
| KEA Tech Lounge | A9 |
| Lyngsoe Systems | A3 |
| Microcom | A4 |
| mikkelsen electronics | A1 |
| Prosign RFID | B8 |
| RAIN Alliance | A6 |
| RFID i Danmark | C1 |
| SIEMENS | B2 |
| Syndicate RFID | B3 |
| Telia Company | B11 |
| Zebra Technologies | B1 |



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DANSK IT:

The Danish IT Society (DANSK IT) is an independent nonprofit organization and a community for IT Professionals. You can focus on your career through continued competency development and participation in Denmark's largest network for IT Professionals. The Danish IT Society works to promote and support IT in areas where it creates value for society and the individual. To gather, strengthen and develop the skills and professionalism of IT Users and IT Professionals. And to focus on the IT interests of society and members on an independent basis.

DANSK IT has close to 10,000 members – and we keep growing. Have a look at our website dit.dk, or let us know how we may expand and improve our reach with you onboard.

DANSK IT

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Alexandra Institute:

The Alexandra Institute has for 20 years been working on connecting the dots between research and business development with a social value creation. Founded by Aarhus University Innovation Fund in 1999, we embrace applied research projects and initiatives into IoT, Industrial IoT, Machine Learning, Explainable Artificial Intelligence, Drones, Visual Computing, Soft Robotics and Cryptography – among others! All facilitated by our team of tech anthropologists.

Our say is #ForanDigitalt, meaning to use digital in creating a pole position. This is what many companies, ministries and councils have done through the years – challenge us and meet us at the Conference, or join our track on how digital innovation can be executed in a manner that aims to create societal value.

Contact Sacha Mendes da Silva, sacha.da.silva@alexandra.dk and have an informal chat on how to combine these disciplines and create value.



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