

# RFID & IOT in the Nordics 2022

1 JUNE 2022 AT THE IT UNIVERSITY, COPENHAGEN

## CONFERENCE CONTENT:

KEYNOTE  
PRESENTATIONS

RFID & IOT  
USE CASES

IOT IN  
INDUSTRY AND  
IN PUBLIC

SUSTAINABILITY

EXHIBITION  
WITH DEMOS

## KEYNOTE PRESENTATIONS:



**MARK JOLLEY**  
RFID & Location Solutions  
Strategic Role in Improving  
Supply Chain Visibility

With the dramatic rise in e-commerce sales sparking a huge growth in supply chain logistics; RFID and location solutions is playing a strategic role in the improvement of supply chain visibility.



**HENRIK STENER PEDERSEN**  
The importance of AIDC when  
working with Sustainability

The sustainability agenda is in constant motion, and the urgency to take action is widely acknowledged. Having a solid evidence-base and relevant data are key to creating credible sustainability strategies and impact.



**JOHNNY OLSSON**  
Danish Hospitals are heavily  
investing in extended use of  
AIDC Technology

After 4 years implementing AIDC technologies at the New University Hospital in Aarhus, Johnny Olsson moved on to the New University Hospital in Aalborg



**ROBERTH G. JOHANSEN**  
Halden Kommune, Norway, has  
utilized sensor fusion  
by combining UHF RFID, GPS,  
AI based image

Learn how Halden Kommune, Norway, has utilized sensor fusion by combining UHF RFID, GPS, AI based image recognition to reduce costs, gather data, improve services to the public and make fraud difficult.

## CO-ORGANIZERS:



## WELCOME:

# RFID & IoT in the Nordics 2022 Conference

Since 2010, our annual Conference has established itself as the leading RFID event in the Nordic countries, and as we over the years have included more and more IoT based upon other technologies, the conference is known as the "RFID & IoT in the Nordics" conference.

Our aim is still, as it was from the very beginning, 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 again after 2 years of cancellations due to the Pandemic, organize our annual conference – now for the 10th time.

In the mornings sessions you can from the keynote presentations learn from international updates and significant user cases.

In addition a new AIDC Maturity Model is announced and presented by AIDC Denmark.

In the afternoon, you can sit in and listen to a number of user presentations, or you can participate in the breakout sessions on 'BLE/UWB RTLS' or 'AIDC & Sustainability'. 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 technologies in action as well!

Hope you will have a great time at the conference!



Henrik B. Granau  
Founder and chairman of RFID i Danmark

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### MISSION

Vi fremmer anvendelsen af automatisk identifikation og datafangst i Danmark.



### AIDC DENMARKS VISION

Vi sikrer erfaringsudveksling og vidensdeling indenfor automatisk identifikation og datafangst

# AGENDA:

08:30	<b>Arrival, Registration and Coffee</b>		
	<b>Plenum presentations</b> Auditorium 1		
09:00	<b>Welcome and Introduction</b> by AIDC Denmark and IT University		
09:15	<p><b>Highlights from RFID Journal Live 2022 in Las Vegas</b> by Henrik Granau, AIDC Denmark</p> <p><b>RFID &amp; Location Solutions Strategic Role in Improving Supply Chain Visibility</b> by Mark Jolley, Zebra Technologies</p> <p><b>The importance of AIDC when working with Sustainability</b> by Henrik Stener Pedersen, Rambøll Management</p> <p><b>Introducing AIDC Denmark's new Maturity Model</b> by Gert Aagaard, AIDC Denmark Board</p> <p><b>Introduction to the Exhibition</b> by AIM Denmark and the Exhibitors</p>		
11:00	<b>Coffee, Exhibition and Networking in Atrium</b>		
11:30	<p><b>Danish Hospitals are heavily investing in extended use of AIDC Technology</b> by Johnny Olsson</p> <p><b>Halden Kommune, Norway, has utilized sensor fusion by combining UHF RFID, GPS, AI based image</b> by Roberth Gundersen Johansen, Halden Kommune</p> <p><b>Introduction to breakout sessions</b> by AIDC Denmark and Co-Organizers</p>		
12:45	Lunch and Exhibition in Atrium		
Breakout sessions	<b>AIDC user cases &amp; AIDC and Sustainability</b> Auditorium 1		<b>BLE/UWB RTLS Workshop</b> Scroll Bar
13:45	<p><b>Technologies for keeping track of items in a circular supply chain</b> by Rasmus Kehler, Circle</p> <p><b>An ECO system that works and secures the earth's resources for future generations</b> by Merete Skov Pedersen, MiCollect</p> <p><b>green user case</b> by TBA</p>		Members of the AIDC Denmark workgroup will outline the User Requirements for RTLS Eberhard Wahl from Omlox will present the Omlox initiative as a proposed standard for RTLS Lyngsoe Systems will offer some insights regarding open standard initiatives like QUUPPA and WIREPAS Siemens will offer some insights regarding UWB
14:45	<b>Coffee, Exhibition and Networking in Atrium</b>		
Breakout sessions	<b>AIDC user cases</b> Auditorium 1	<b>AIDC and Sustainability</b> Auditorium 2	<b>BLE/UWB RTLS Workshop</b> Scroll Bar
15:15	<p><b>Intelligent Firearm Storage &amp; Tracking System</b> by Lucas Ahlstrom, Retorium</p> <p><b>"Health 4.0" - Implementing GS1 and IOT in a Norwegian health-system</b> by Bjørn Ravnstad, Helse Sørøst</p> <p><b>RFID process in CAD/CAM technology for automated dental machines</b> by Yilmaz Benzer, Neosid</p>	<p>GS1 Denmark will offer some insights regarding EU's Digital Product Pass Panel discussion on 'AIDC and Sustainability' with:</p> <ul style="list-style-type: none"> <li>- GS1 Denmark</li> <li>- Rambøll Management</li> <li>- MiCollect</li> <li>- Circle</li> <li>- ?</li> </ul>	<p>Workshop continued: Can we find Open Standards to avoid a 'vendor lock-in'?</p> <p>How can we mix and match products from various vendors?</p> <p>How can we integrate with the general IT infrastructure in the company?</p> <p>What are the benefits with BLE versus UWB?</p>
	<b>Plenum presentations</b> Auditorium 1		
16:15	<b>Wrap-up</b> by AIDC Denmark		
16:45	Networking in Atrium with Wine, Beer or Water sponsored by Granau IT		
	The agenda may be subjected to change.		



# Keynote presentations in plenum at RFID & IoT in the Nordics 2022

(in English)

## **Keynote 1: RFID & Location Solutions Strategic Role in Improving Supply Chain Visibility**

With the dramatic rise in e-commerce sales sparking a huge growth in supply chain logistics; RFID and location solutions is playing a strategic role in the improvement of supply chain visibility.

We are delighted to announce the keynote speaker for RFID & IOT fair will be Mark Jolley, Zebra Technologies EMEA Solution Sales Director for Manufacturing, T&L and Retail).

Mark will be talking about how to gain benefits and improve inventory accuracy, traceability, productivity, processes and supply chain efficiencies in production, logistics and retail companies large and small. Join Mark for an insightful discussion of RFID and big data, sensors, robots and much more.

## **Keynote 2: The importance of AIDC when working with Sustainability**

The sustainability agenda is in constant motion, and the urgency to take action is widely acknowledged. Having a solid evidence-base and relevant data are key to creating credible sustainability strategies and impact.

Presented by Henrik Stener Pedersen, Market director, Strategic Sustainability Consulting at Rambøll Management Consulting.

## **Keynote 3: Danish Hospitals are heavily investing in extended use of AIDC Technology**

After 4 years implementing AIDC technologies at the New University Hospital in Aarhus, Johnny Olsson moved on to the New University Hospital in Aalborg, where he now uses his experiences to establish a new hospital with identification and localization technologies to support the clinical staff, automation and logistics of the hospital. What are the lessons learned and what are important, when you have the opportunity to create hospital#2.

Johnny Olsson is an independent consultant, holds a Master in Computer Engineering and a Diploma in Business and Organization, and has worked with IT for hospitals for more than 20 years.

## **Keynote 4 Halden Kommune, Norway, has utilized sensor fusion by combining UHF RFID, GPS, AI based image**

Learn how Halden Kommune, Norway, has utilized sensor fusion by combining UHF RFID, GPS, AI based image recognition to reduce costs, gather data, improve services to the public and make fraud difficult. Another takeaway for Halden Kommune has been the incredible reliability and lower cost of UHF compared to the more widespread LF technology being used in waste management. Presented by Roberth Gundersen Johansen, Halden Kommune.



# User case presentations at RFID & IoT in the Nordics 2022

(in English)

## **Technologies for keeping track of items in a circular supply chain**

Cirqlle is trying to solve the problem of circular packaging. The ambition is to handle all types of packaging from takeaway to cups, but have started with the simpler problem of meal box subscriptions. When packaging is reused we can provide higher quality and there is also room in the budget for using technology that normally does not make sense in single-use packaging. In this talk we describe what a circular supply chain is, and how these requirements drive our technology choices. This is the tale of our experiments with RFID, NFC, BLE, and visual identification (2D barcodes) and how we ended up with a mix that involves the consumers as part of the supply chain.

## **An ECO system that works and secures the earth's resources for future generations**

MiCollect have created a solution for Wehlers providing full transparency for Wehlers R.U.M. chairs.

MiCollect provides a digital platform enabling transparency for the good of circular economies - and the foundation is AIDC for digital tagging, traceability and transparency of products.

## **Intelligent Firearm Storage & Tracking System**

Intelligent Firearm Storage & Tracking System is a case from Sweden with an RFID based integrated management system for the police.

## **"Health 4.0" - Implementing GS1 and IOT in a Norwegian health-system**

To free up time, introduce new ways of working, and start harvesting the power of knowledge, the South-Eastern Norway Regional Health Authority is in the process of implementing traceability technology and GS1 EPCIS among other standards.

This will together with a wide variety of IOT technologies help current and future hospitals gain maximum control of their assets, digitized data capture and create a highly flexible and standardized sharing of data between systems.

The presentation will cover history and status of the initiative, implementation approach, various use-cases to be implemented, how standardisation is approached at a regional and national level.

## **RFID process in CAD/CAM technology for automated dental machines**

Industry 4.0 also increases the urge for strong development progress in dental technology. Optimum availability, fully documented manufacturing processes and tool management are the goals. Digital processes in CAD/CAM technology enable dental laboratories and dental centers to help patients in significantly less time. Dental machining centers produce individual dental products such as bridges, crowns, inlays, veneers, full dentures and abutments for implants at the touch of a button. And RFID is a key component.

+ 1 more case to be announced shortly.



# Workshops: How to avoid Vendor lock-in with BLE/UWB RTLS and AIDC and Sustainability

(in English)

## **HOW TO AVOID VENDOR LOCK-IN WITH BLE/UWB RTLS**

AIDC Denmark has a workgroup with special interest in Real Time Locating Systems based upon Bluetooth or UWB.

Can we find Open Standards to avoid a 'vendor lock-in'?  
How can we mix and match products from various vendors?  
How can we integrate with the general IT infrastructure in the company?

What are the benefits with BLE versus UWB?

To kick off the discussions, the Workshop will be based upon a list of presentations;

Members of the AIDC Denmark workgroup will outline the User Requirements for RTLS, including how IT Architects from Danish Hospitals could see RTLS mapped to the National Referential Architecture for Localization and Identification.

The Omlox initiative is a proposed standard for RTLS (both BLE and UWB), and especially the common API is of interest. We have invited Eberhard Wahl, from Omlox, to present the initiative. Lyngsoe Systems will offer some insights regarding open standard initiatives like QUUPPA and WIREPAS.

Siemens will offer some insights regarding UWB

The Workshop is open for all attendees. Maybe you can contribute with other insights, but for sure you can learn a lot from participating. It will be a workshop - and we hope the attendees will be very active in the discussions.

## **AIDC AND SUSTAINABILITY**

After listening to the keynote 'The importance of AIDC when working with Sustainability' and 3 'green' user cases, GS1 Denmark will offer some insights regarding EU's Digital Product Pass.

Panel discussion on 'AIDC and Sustainability' with GS1 Denmark, Rambøll Management, MiCollect, Circle, ....



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