

Robot technology – a key enabler for the industrial green transition



ODENSE
robotics

Ministry of Foreign Affairs
Invest in Denmark
Webinar: Advanced sustainable
manufacturing in Denmark
25.05.2021

Denmark: A global leader in robotics solutions

Denmark ranks amongst the world's leading nations within robotics and automation. The country is home to global leaders within collaborative robots, food automation, mobile robots and service robots.

The industry in Denmark delivers value for a wide range of sectors, where demand for standardised, safe and flexible solutions is increasing. As a result, robotics and automation has grown to become one of Denmark's most important future export industries.



Mobile
Robots



Cobots



Food
automation



Service
robots

Robotics - A growing industry in Denmark



**300+
companies**



**8,500
employees**



**EUR 2.4 billion
in turnover with
60-70% from
export**

Today



**25,000
employees**



**EUR 7 billion
in turnover**

2025

Source: Damvad
Analytics, 2019

Denmark's research strongholds

Industrial Robot Technology

With research labs open for research together with the industry

Human-Robot Interaction

Collaborative and mobile robots and AI

Autonomous Systems

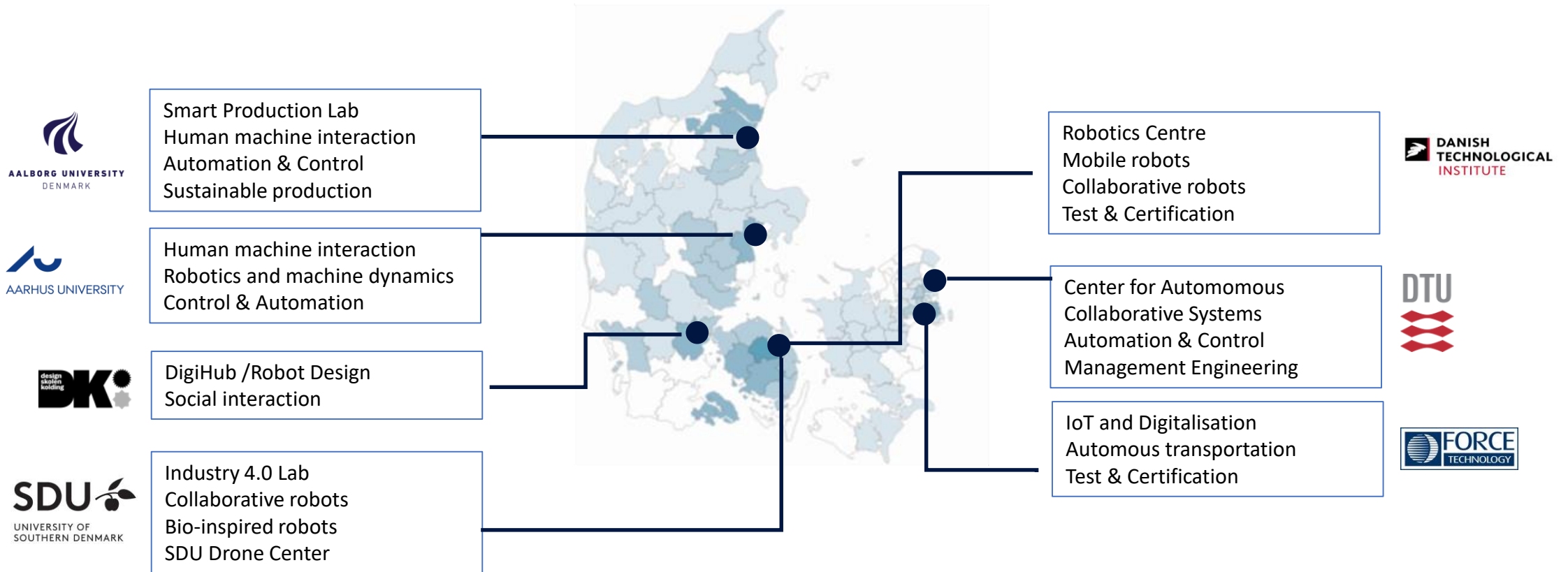
Mobile robots and drones

Bioinspired Robots

Modular neuro-inspired research & swarm robotic systems



Denmark: Global leader in robotics research



Odense Robotics bring the ecosystem together

PUBLIC SECTOR



Danish Board of
Business Development

Municipalities,
Erhvervshuse

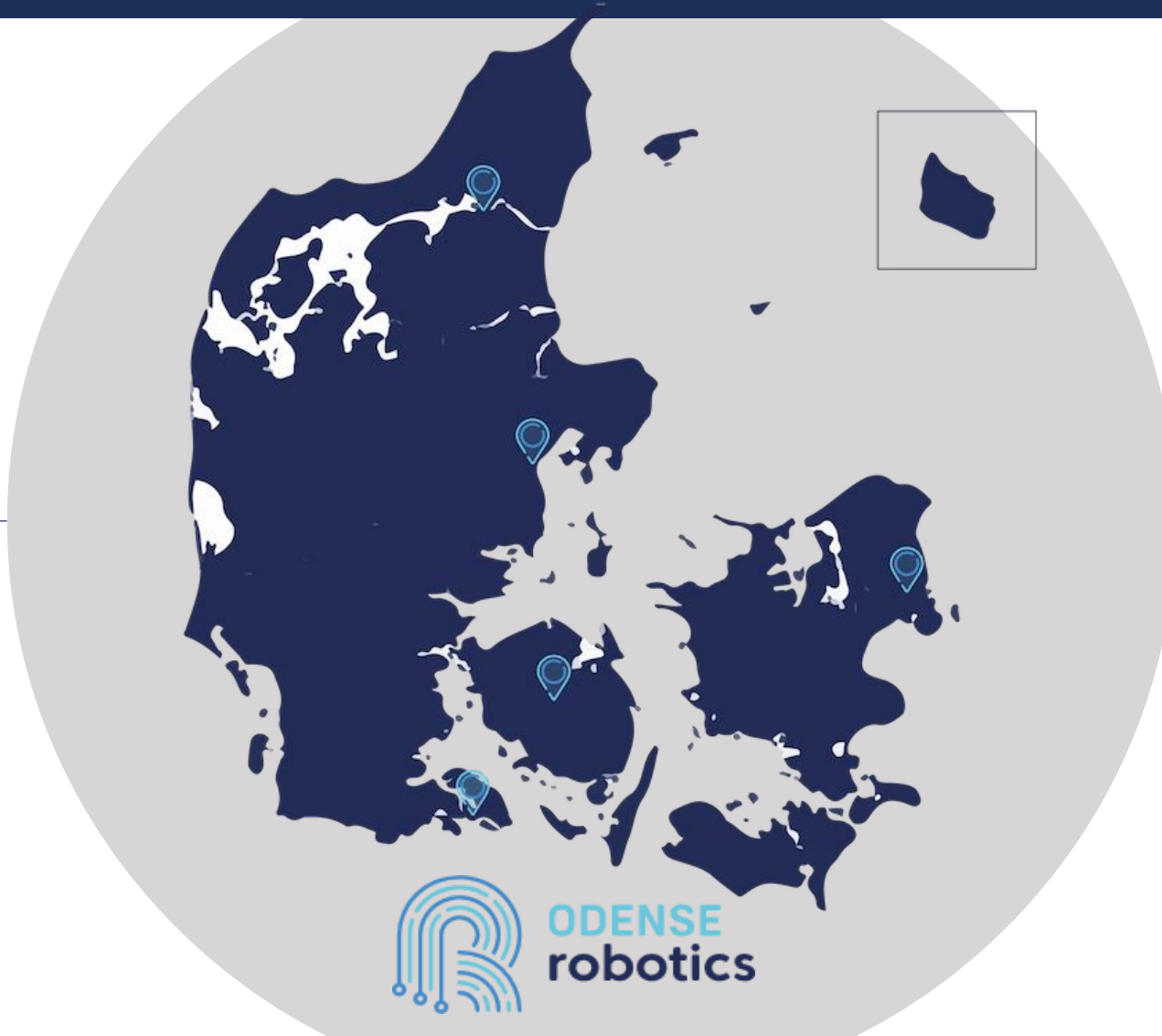
ORGANISATIONS

Clusters
Member and interest
organisations

INDUSTRY

170+ members
from across Denmark

KNOWLEDGE



Industry Needs = Cluster focus



Increasing demand for new solutions

> Odense Robotics help companies **develop new products and technologies** that leverage cutting-edge research



Fierce competition in fast-growing industry

> We help companies **strengthen their foundation for growth** as they scale up



Successful startups need more than an tech idea

> We offer **commercial and tech support to startups** so they can successfully enter the market



Industry has unique challenges and opportunities

> We bring together industry professionals in **networking groups** to share insights



Promoting value of tech to customers key

> We provide a platform for the industry to **get noticed, meet peers and potential customers**

Odense Robotics innovation focus

Technologies

Autonomous systems
Drones as a tool
Multi-robot-systems
Robots & AI
Safe human-robot
interaction

Digitalisation

New business models
Digital sales and
service



Green transition
SDG17

Explore new innovations



We help companies boost product and technology development

Companies can tap into research know-how and funding

Case: Innovation projects

Companies get connected to researchers

Researchers help companies develop new technology

All knowledge gained in innovation project available for participating companies

Open to companies across Denmark



Future opportunities

Green transition and robotics

Energy - Energy consumption can be significantly reduced

- Less energy-intensive production processes
- Reduced space means less consumption of building materials, heat and light
- Production in neighboring areas reduces transport

Chemistry - automation replaces chemistry

- Farming with agricultural robots reduces chemical consumption and emissions
- Cleaning robots can replace chemicals

Water - minimisation of water consumption and pollution

- Precision farming and automated cleaning reduce water consumption and chemical emissions

Waste - calculations and precision replace estimates and guesses

- Automatic waste sorting
- Monitoring of durability for fresh meat and fish
- Precision reduces resource consumption in construction

Become a member and stay updated

INTERNATIONAL
MEMBER
1.000 EURO

Collaborate

- Explore opportunities for collaboration
- Gain insight into the Danish cluster and ecosystem

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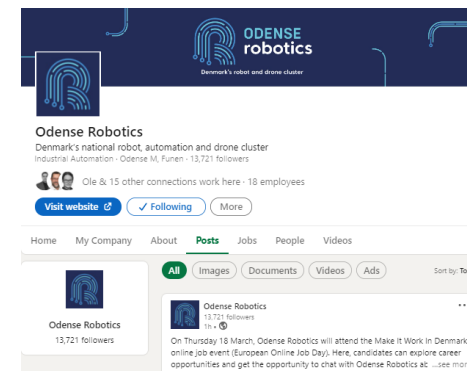
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INNOVATION



New drone tech with unlimited range



Reports and other stuff

Read more - [Robotics technology: a key enabler for green transition - Odense Robotics](#)

Read more - Analysis of the Danish robotics industry - A position of strength on the rise

Read more - The Danish Robotics Cluster in a Global Perspective



HEAD OF PROJECTS

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