

**ODE** | **ROBO**  
**NSE** | **TICS**

**FRONTIER  
FOR  
ROBOTIC  
TECHNOLOGIES**

COMPANIES



CLUSTERS AND PARTNERS



**PUBLIC SECTOR AND BUSINESS SUPPORT PROVIDERS**

- ASSENS KOMMUNE
- KAARBOG-MIDTFYN KOMMUNE
- Nyborg KOMMUNE
- Region of Southern Denmark
- VEKSTHUS
- Developing Fyn
- INVEST IN ODENSE (SMEDY OG KVALITETS ODSÆT)
- ODENSE KOMMUNE
- Svendborg Kommune

**ODENSE ROBOTICS**  
FRONTIER FOR ROBOTIC TECHNOLOGIES  
POWERED BY DEVELOPING FYN

**FINANCING**

- SCIENCE VENTURES
- SYDDANSK INNOVATION
- VEKSTFONDEN
- BOREAN

**ODENSE SEED AND VENTURE**

Public Funding	Private Equity	Venture Funding
Crowd Investors	Business Angels (75+)	Loan and Bank Financing

100+ mill. Euros invested in 2016

EDUCATION

- BEng**
- Electrical Power Engineering
  - Electronics and Computer Engineering
  - Global Management and Manufacturing
  - Integrated Design
  - Manufacturing Engineering and Management
  - Mechanical Engineering
  - Mechatronics
  - Robotics Technology
  - Software Technology
- MSc**
- Applied mathematics
  - Computer science
  - Electronics
  - Energy Technology
  - Engineering Robot Systems (Advanced Robotics Technology and Drone Technology)
  - Information Technology - Product Design
  - Learning and Experience Technology
  - Maritime Technology
  - Mathematics
  - Mechanical
  - Mechatronics
  - Operations Management
  - Physics and Technology
  - Product Development and Innovation
  - Software Engineering
  - Welfare Technology

**LILLEBAELT ACADEMY**

**Academy Profession AP**

- Automation Technology
- Computer Science
- IT Technology
- Multimedia Design and Communication
- Production Engineer

**Bachelor BA**

- E-Concept Development
- PBA Software Development
- Product Development and Technology Integration
- Web Development

**Continuing Education**

- Academic Education
- Diploma

**SYDDANSK ERHVERVSSKOLE**

**Electricity Automation and IT**

- Automatics Electrician
- Data Technician (+EUX)
- Electrician (+EUX)

**Metal, Industry and Technology**

- Automation Technician (+EUX)
- Industrial Operator
- Industrial Technician (+EUX)
- Sheet Metal Worker (+EUX)
- Technical Designer

**SIMAC**

Bachelor

- Marine Engineer

**OTHERS**

- UNIVERSITY COLLEGE Lillebaelt
- ODENSE TEKNISKE GYMNASIUM

**DANISH TECHNOLOGICAL INSTITUTE**

**Disciplines**

- Advanced robots
- Co-working robots
- Sensors and robots
- Mobile robots
- Drones (UAS)
- Personal care robots
- Industry 4.0 and data
- Virtual reality
- Safety

**Activities**

- Implementation of solutions
- Dissemination, training and education
- Analysis and consultancy

**Faculty of Engineering**

- TEK Innovation
- The Mads Clausen Institute
- SDU Mechatronics
- SDU Innovation and Design Engineering
- The Mærsk Mc-Kinney Møller Institute
- SDU Robotics
- SDU UAS Centre
- SDU Software Engineering
- SDU Electrical Engineering
- SDU Embodied Systems for Robotics and Learning
- SDU Health Informatics and Technology
- SDU Energy Informatics
- Department of Technology and Innovation
- SDU Mechanical Engineering
- SDU Engineering Operations Management

**Faculty of Science**

- Department of Mathematics and Computer Science (MADA)

**Faculty of Health Sciences**

- Department of Sports Science and Clinical Biomechanics
- Department of Clinical Research
- Department of Public Health

**SDU Research and Innovation Office (RIO)**

**LILLEBAELT UNIVERSITY**

**Cluster for Technological Innovation and Welfare**

Innovation Process

**OUH**  
Odense University Hospital

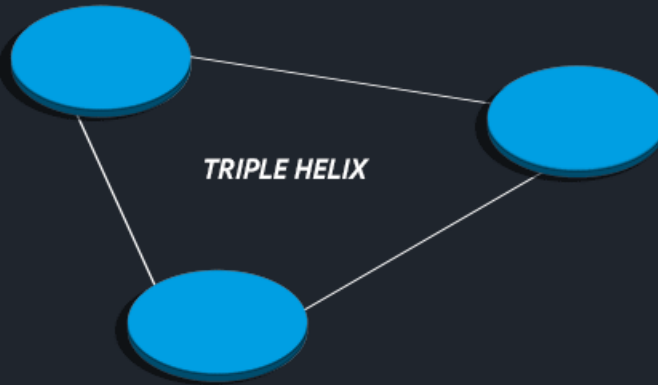
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COMPANIES ARE SELECTED BASED ON AN ASSESSMENT OF THE FOLLOWING PARAMETERS:

- Share of turnover in the robotic and automation industry
- Strategic focus
- Activity in cluster cooperation
- Dedicated technology

SECTOR  
**PUBLIC**

- ODENSE ROBOTICS
- INVEST IN ODENSE



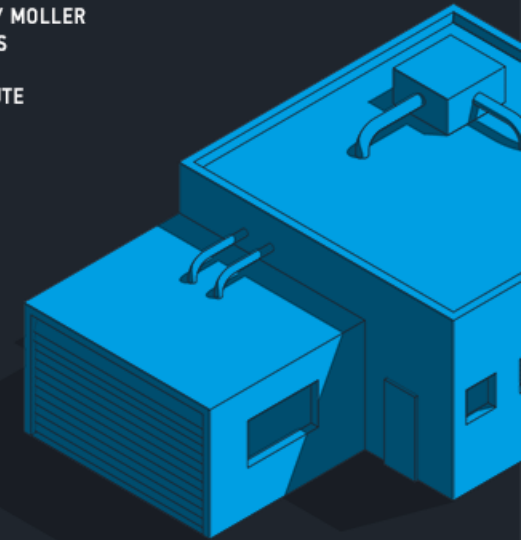
TRIPLE HELIX

SECTOR  
**BUSINESS**

- MORE THAN 70 ROBOTIC AND AUTOMATION COMPANIES IN ODENSE

SECTOR  
**EDUCATION & RESEARCH**

- THE MAERSK MC-KINNEY MOLLER INSTITUTE FOR ROBOTICS
- TECHNOLOGICAL INSTITUTE
- ROBOCLUSTER



Odense Robotics, 2015

**THE TRIPLE HELIX OF INNOVATIVE AUTOMATION PRODUCTS**

# Odense Robotics efforts

Prioritized by the robotic companies:

1. **Jobmarket** as a Cluster effort – branding and cooperation
2. Strong setup for robotic start ups in Odense Robotics **Start Up Hub**
3. Attracting **investor capital** (with Invest in Odense)
4. Attracting **international companies** that create value for the ecosystem (with Invest in Odense)
5. **Acting as a catalyst** for business development and facilitating collaboration across companies and the ecosystem

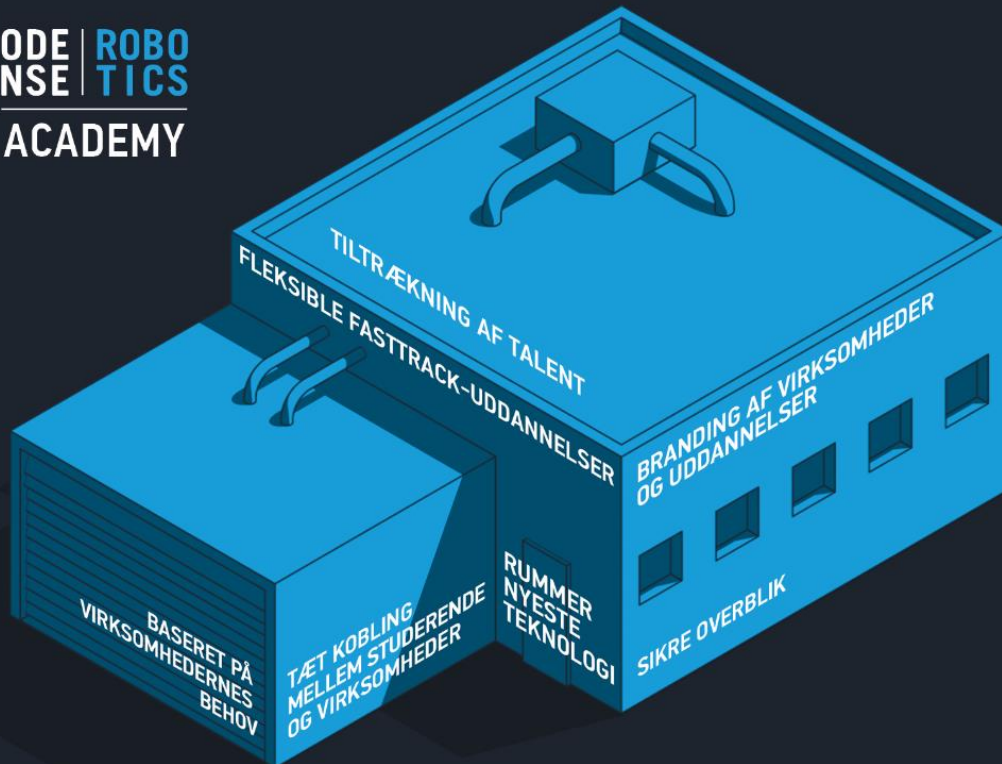
Based on **Business intelligence** in the form of knowledge, research and analytics about the market and companies' business models and strategies. And supported by **Branding and Communication**



# Odense Robotics Academy

**Longterm vision:** Ensure growth of Odense Robotics through access to skilled labor at all levels through a triple helix model: collaboration between businesses, education and public authorities. Initiatives are driven by companies' need for qualified labor.

ODE | ROBO  
NSE | TICS  
ACADEMY



What we do:

- Marketing of jobs through the Job Bank and Career Fairs
- Marketing of opportunities within education and upgrading of skills
- Develop and implement targeted programs for training and qualification in cooperation with companies and educational institutions

# CREATING VALUE FOR THE INDUSTRY

Increasing Cluster Innovation through strong presence in European **Coordination and Support Actions:**

- Consolidate Leadership in Robotics
- Enable Competitive Companies – focus on Start up & Scale ups
- Lower Market Barriers



**DANISH  
TECHNOLOGICAL  
INSTITUTE**

**Research and  
technology  
organization**

400 customers  
60+ robotics experts  
2000 m2 innovation  
facilities

- 10 RIA, IA Projects
- 4 as lead



**ODE | ROBO  
NSE | TICS**

**STARTUP HUB**

**World Class Incubator**

5 start ups yearly

- Prototype
- Business Plan
- Investors



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TECHNOLOGIES

**POWERED BY DEVELOPING FYN**

**Cluster  
Organization**

100+ Robotic companies  
115 suppliers

- Jobmarket
- Business Dev.
- Investor platform

# Odense Robotics Funding 2016

