

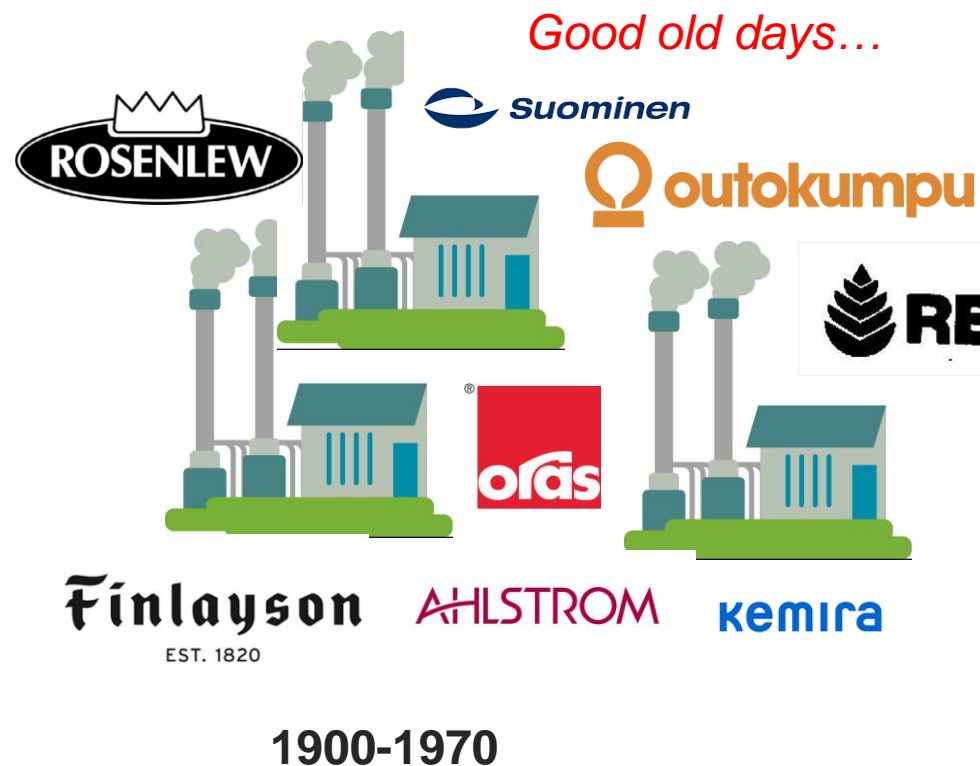


ROBOCOAST

ROBOTIIKKA -KLUSTERIN ALKUMETRIT

- 1970 –luvun alussa Rosenlewin johto päätti, että robotteja me emme valmista, koska meillä ei ole siihen osaamista. Mikäli robotteja joskus satutaan tarvitsemaan, niin ne ostetaan muualta.
- Rosenlewin työkalutehtaan insinöörien mielestä tämä oli huono ratkaisu ja johdolta salaa rakensivat Suomen ensimmäisen robotin, joka oli *hydraulinen säkkien pinoamiseen tarkoitettu robotti*.
- Johto määritteli strategiansa uudelleen ja syntyi **Rosenlew Automation** (nykyinen **Cimcorp**).





The automation business began from the needs of the local industry



New AI companies arrived



“The old industry” is still going strong in Satakunta (2019):

- 1 320 industry companies
- Turnover 6.8 billion per year (Export 4.3 billion, Robocoast Cluster 0.5 billion)
- Export per capita over EUR 20 000 (4th highest in Finland)
- BASF's battery plant investment 2020

ROBOCOAST (E+)DIH

- Robocoast was found in 2014. We are a Digital Innovation Hub in Finland providing services to the manufacturing industry and other industries as well as start-ups and high-tech companies.
- Our mission is to support digital transformation with key competencies in cybersecurity, robotics, energy technologies, AI, Data Analytics, 5G and IoT.
- Robocoast helps the industry digitize their production, services, processes, and technology companies to develop solutions/systems or services related to sensors, robot solutions, communication, IoT solutions, cybersecurity services, and data analytics artificial intelligence.
- Robocoast comprises 70 technology companies (Robotics, AI, and IoT) and 14 Core Competence Centers, including approximately more than 85 000 higher education students and almost 9 000 experts in research and development, and several digitalization R&D environments. Prizztech Ltd. coordinates the Robocoast DIH.
- Robocoast EDIH consortium is one EDIH candidate of Finland (Minister Lintilä 1.3.2021)

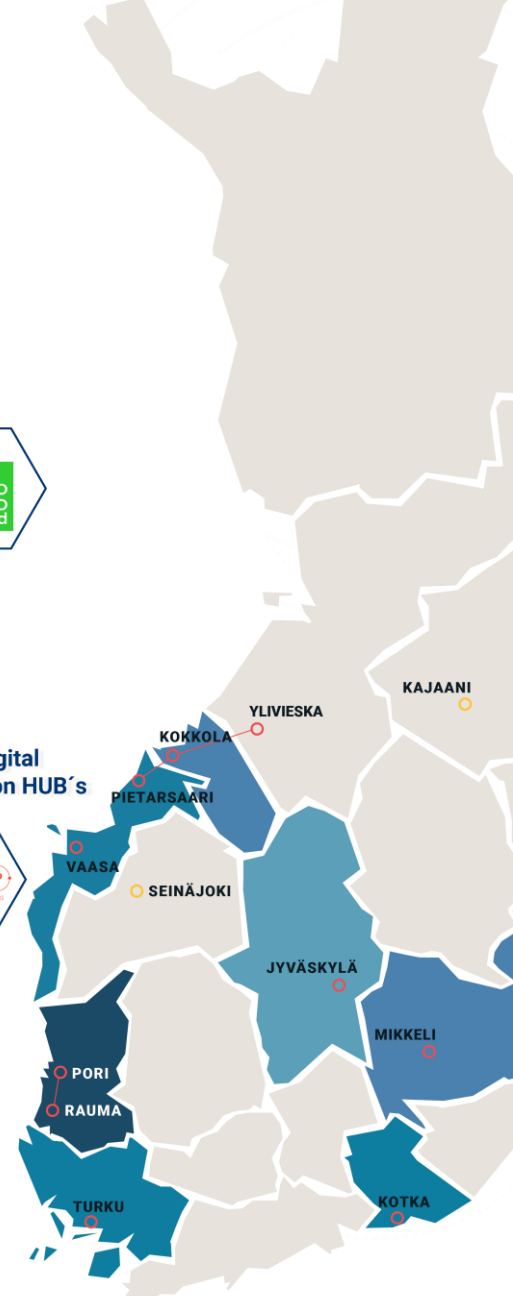
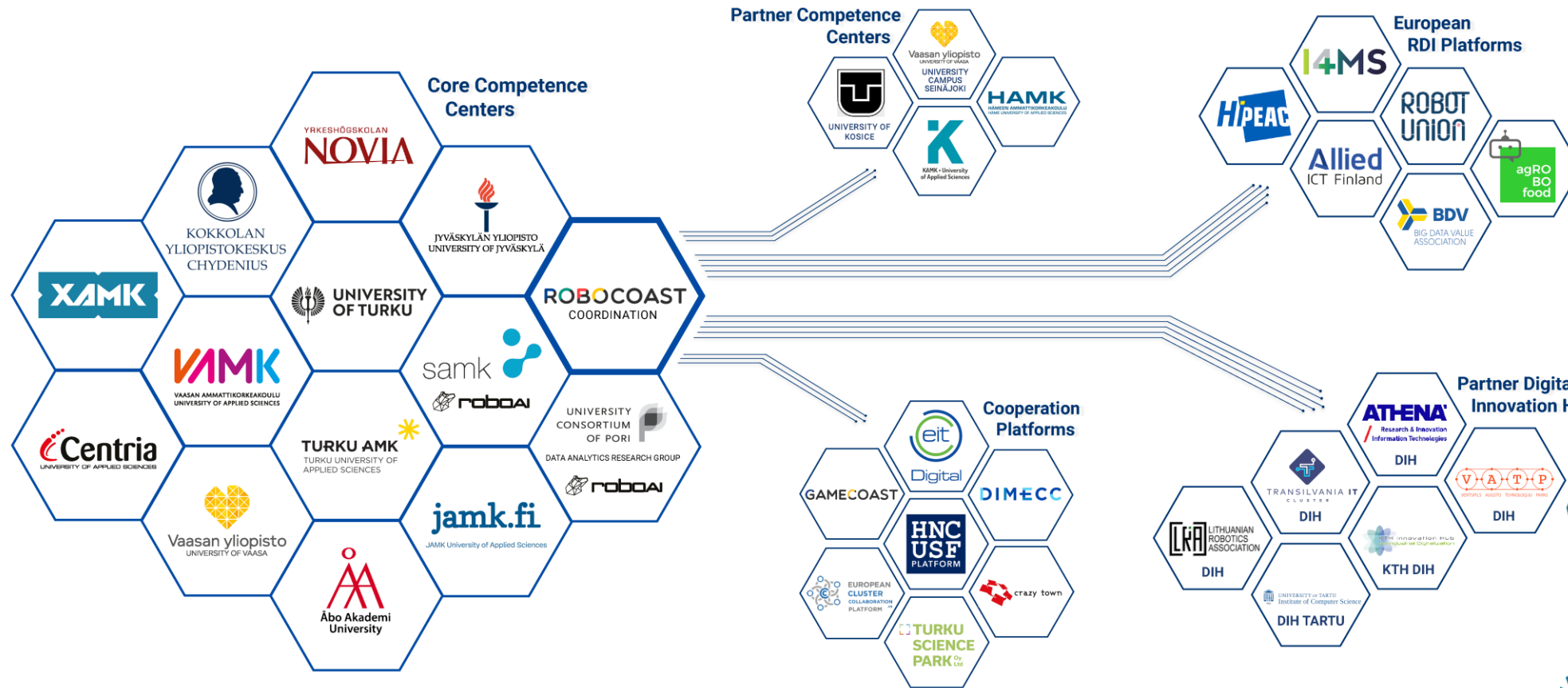
Robocoast Companies 2010-2019

Growth of turnover 93%
Growth of personnel 76%



Over 100 automation, robotics, and AI companies in Satakunta and about 70 of those are Robocoast member companies

COMPETENCE CENTERS AND NETWORKS OF ROBOCOAST™



ROBOTICS



CYBERSECURITY



DATA ANALYTICS



AI & HPC



IOT & INDUSTRY 4.0



SMART AGRI



HEALTH TECH



SMART GRID



CIRCULAR ECONOMY



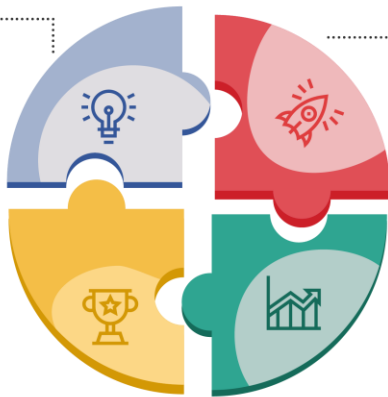
"Robocoast ecosystem"

www.robocoast.eu



01

INNOVATION ECOSYSTEM
AND NETWORKING



02

TEST BEFORE INVEST

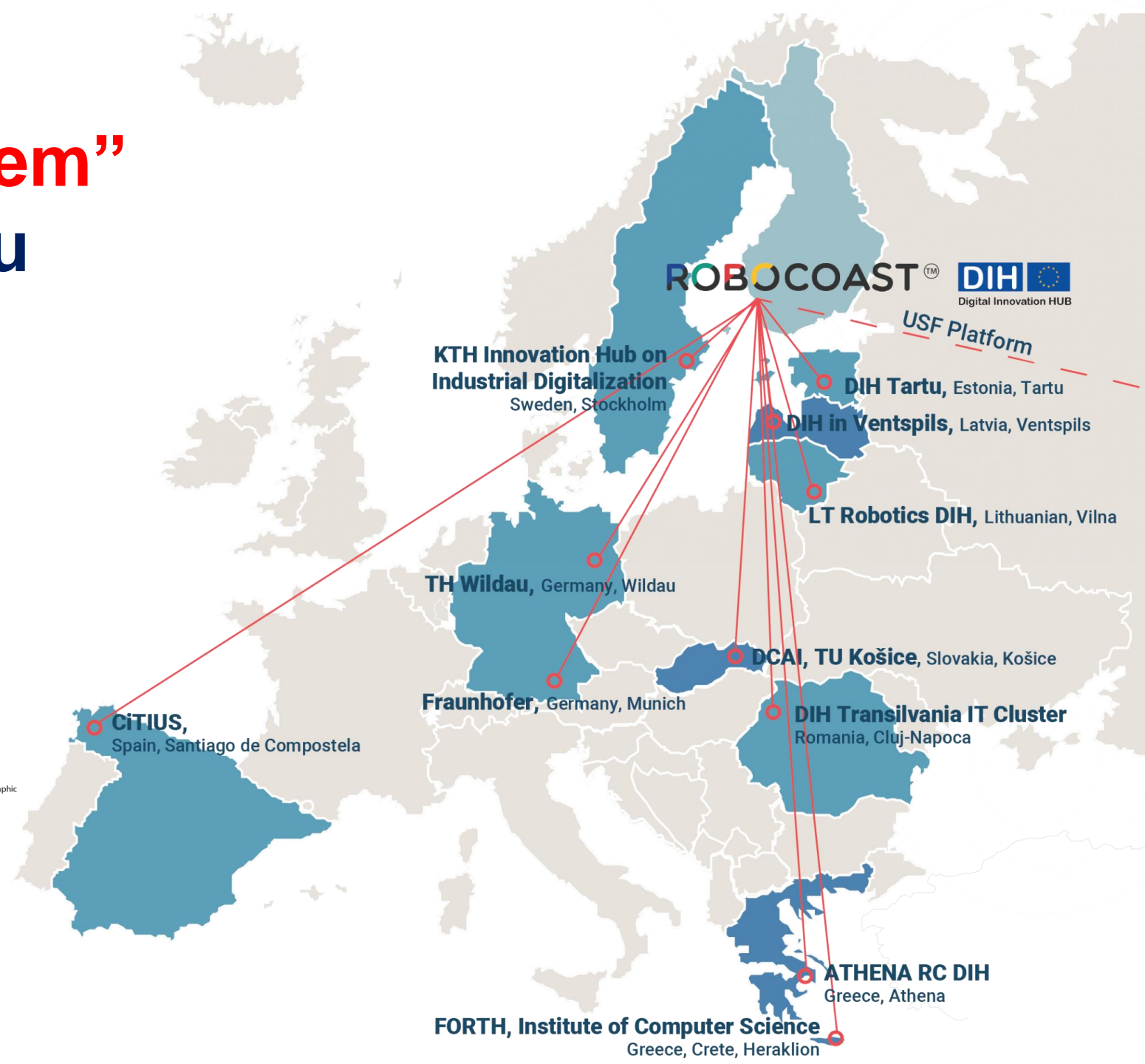
03

SUPPORT TO FIND
INVESTMENTS

04

SKILLS AND TRAINING

Graphic: <https://www.freepik.com/vectors/infographic>



ROBOCOAST SERVICES



Modernization & Robotization needs

Modernization Review

ROBOCOAST

Services

- Living lab Testing
- Modernization Analysis
- Robocoast Challenge
- R&D Demoworkshop
- Research Project
- Recruit and Training
- Contacts and Networks

THE ROBOCOAST CONSORTIUM SUPPORTS AND DEVELOPS THE EXPORT INDUSTRY

36 %

Value added of manufacturing production: 36 % of the total country's share.

34 %

More than 34 % of the country's industrial workforce in companies.

37 %

The value of goods exports over 37 % of the value of goods exports in the whole country.

ROBOCOAST™



Robocoast always uses its networks to find right experts



ROBOCOAST TEAM

Robocoast coordination unit



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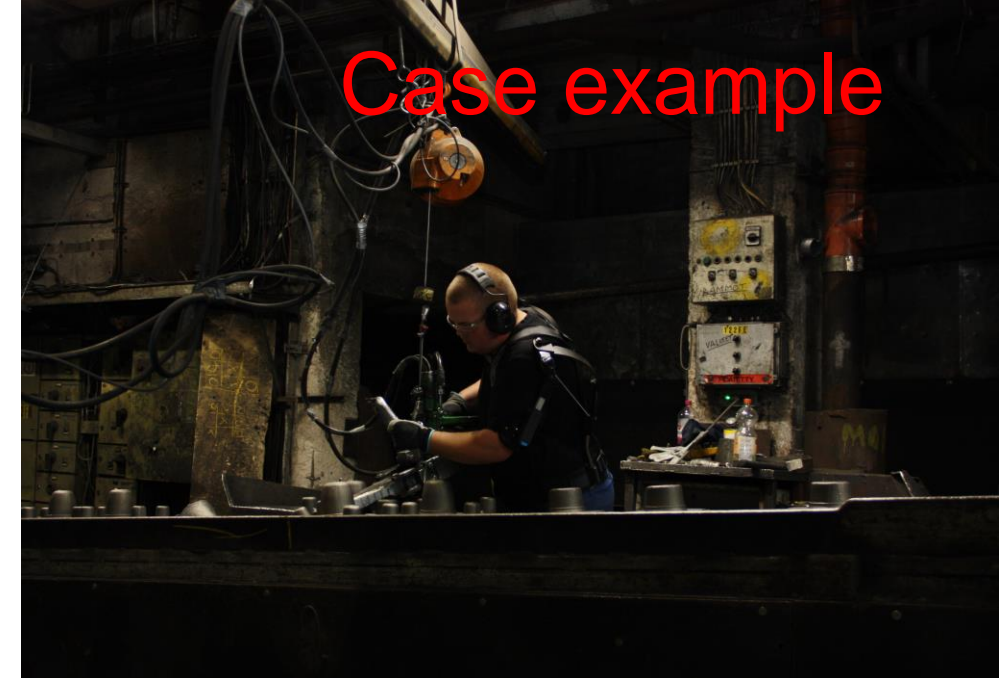
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COAL WAGON CLEANING ROBOT - CHALLENGE

Case: Modernization plan for the bakery



Case: Exoskeleton Living Lab testing



Case example





Case example

Underwater Preventive System for Detection and Deterring of Seals

Andrés Felipe Zapata Palacio (Colombia)



CASE: Robocoast Technology Challenges are always based on the actual need

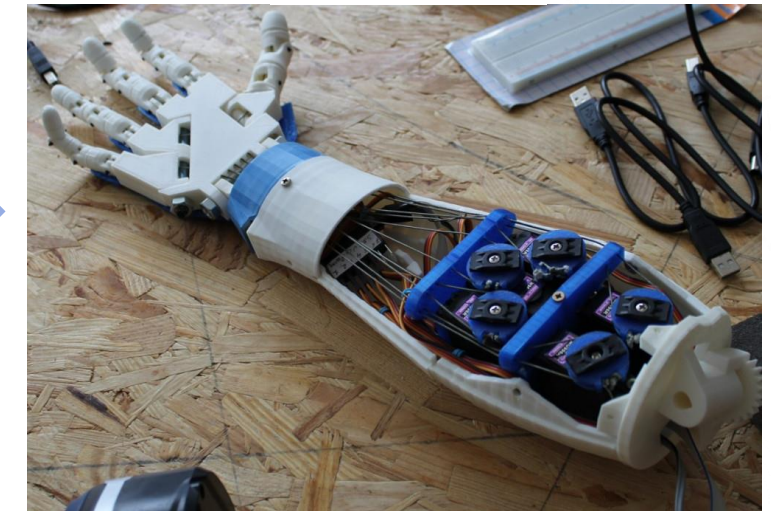
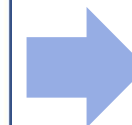
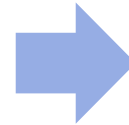
- There are around 24.000 seals in the coastal waters of Finland alone.
- The larger Grey seal weighs 170 – 310 kg and loves fish – so much that they are causing big losses to the fishing industry.
- Therefore, there's a need to have **a seal detection system** to trigger a “Scarecrow” of the seas, an alarming system to scare seals away from the fishing nets.
- **The detection solution would help, not just Finland and its fishing industry, but the whole Northern European's.**

ROBOCOAST™



Case example

CASE: SIGN LANGUAGE TUTORING ROBOT



"We need a robot who can teach sign language for the autistic children"

Robocoast searched the best experts and started R&D -project to solve the problem

See the ready MOMO robot:

<https://vimeo.com/265507718>



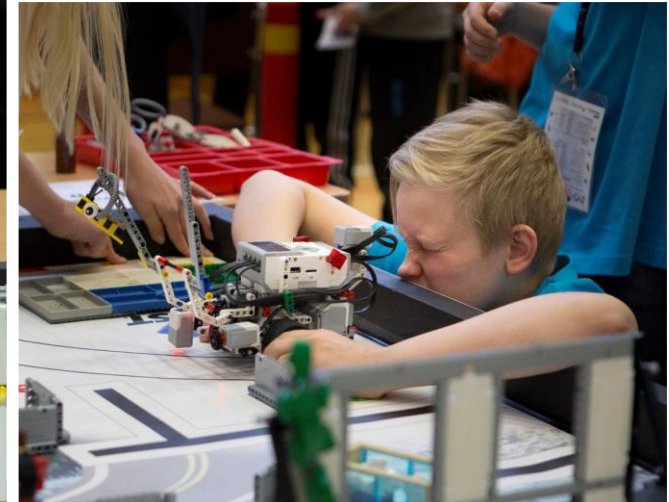
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