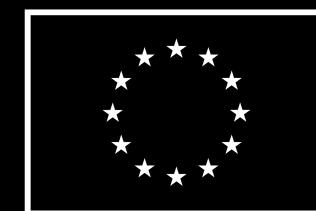


AI & ROBOTICS ESTONIA

aire-edih.eu/en



Co-funded by
the European Union

Johan Kostela

SHIFT LABS

A Swedish hub for sustainable digitalization and human-centered transformation.

Together we create a service portfolio of competence-enhancing activities within sustainability and digitalization for small and medium-sized enterprises.

Partners



With support from:



Mission and Purpose



1

Mission

Helping small and medium-sized enterprises to **adopt innovative** digital technology in line with sustainability needs. Increasing the accessibility of various laboratory environments.

2

Purpose

To promote a **broader digitalization** across the manufacturing industry, while prioritizing sustainability and human-centered objectives.

3

Vision

To create successful manufacturing companies that possess high digital competence and are environmentally sustainable.

SHIFT LABS

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 Johan Kostela
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MITC
MÄLARDALEN INDUSTRIAL TECHNOLOGY CENTER

RI SE

LeanCentrum

SII LAB
STENA INDUSTRY INNOVATION LAB

eit Manufacturing

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Region Stockholm

Region Västmanland

VÄSTRA GÖTALANDSREGIONEN

REGION SÖRMLAND

SÖDERTÄLJE SCIENCE PARK

Mälardalens universitet

KTH
VETENSKAP OCH KONST

HÖGSKOLAN I SKÖVDE

CHALMERS

VINNOVA
Sveriges innovationsmyndighet

MED FINANSIERING FRÅN

tillväxtverket

Co-funded by the European Union

Solutions to your problem!



Robotics/Automation

AI

IoT

Cyber Security

Simulation/Visualisation: Digital Twin

VR and AR



This project has received funding from the European Union's Digital Europe Programme under grant agreement No 101083691

What we offer!



Inspiration

- Demonstrations
- Open seminars
- Preliminary studies
- Open workshops
- How do I start guidance

1

Strategic coaching

- Detailed preliminary study/analysis of your factory
- Technical requirements
- Finding investment resources
- Digital maturity level
- Guidance to services within EDIH and other European networks

2

Implementation of digital technologies

- Technical/system test
- Test beds
- Skills development/Coaching programs
- Roadmaps
- Applied research projects

3



Detta projekt har fått finansiering från Europeiska unionens program för digitalisering (Digital Europe Programme) enligt avtal om beviljande av medel, nummer 101083691.

AI-transformation



**AI &
ROBOTICS
ESTONIA**

**SHIFT
LABS**

17th of Jan 2024
10:00am–12pm CET

ISMAIL FERT
DPM

VOLVO

Volvo Construction Equipment



SIRLI MÄNNIKSAAR
CEO

ERICSSON 



WEBINAR

VOLVO CONSTRUCTION EQUIPMENT x ERICSSON ESTONIA

The role of AI in Enhancing Efficiency and Business

Expertise



Co-funded by
the European Union

Service provided: No code AI

- One of the big problems for companies is they do not know how to code.
 - Makes them fear AI
 - Hinders their progress – they never start their journey!
 - But you don't always need to code!
 - Huge interest!
-

```
public async Task<bool> CreateUser(UserInput input) {
    var ValidUserTypes = new[] { "regular", "premium", "trial" };

    User user;
    switch (input.UserType) {
        case "regular":
            user = new User(input.Username);
            break;
        case "premium":
            user = new User(input.Username, new List<Permission> {
                "PremiumFeature.Read",
                "PremiumFeature.Create",
            }) {
                IsPremium = true,
            };
            break;
        case "trial":
            user = new User(input.Username) {
                IsOnTrial = true,
            };
            break;
        default:
            throw new ArgumentOutOfRangeException(
                $"Invalid user type. Must be one of the following {string.Join(", ", validUserTypes)}",
                nameof(input.UserType)
            );
    }

    bool result = await repository.CreateAsync(user);

    return result;
}
```

Use case: testing locks with a robot and AI

Combining techniques of Industry 4.0 and AI to solve really difficult problems!

AI services provided



- AI seminars series
 - From Zero to Roadmap: start February
- No code AI: late spring
- Building your business data/digital infrastructure
- Data and cybersecurity
- Combine AI with other technologies: i.e. Robotics
- AI@MDU and AI Sweden (<https://www.ai.se>)



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