# INTROSYS

Global Control System Designers

# 1 About us

# HEADQUARTERS

Introsys is a leading company specialized in developing control systems focused on the automotive industry

# CASTELO BRANCO OFFICE

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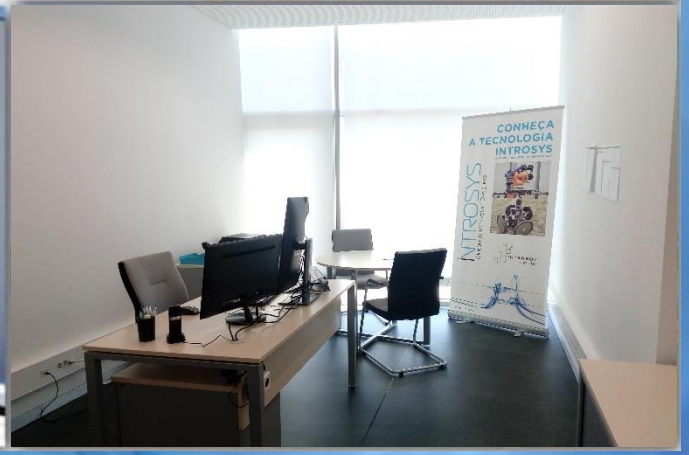
Global Control System Designers

CENTRO DE EMPRESAS INOVADORAS



# MULTINATIONAL

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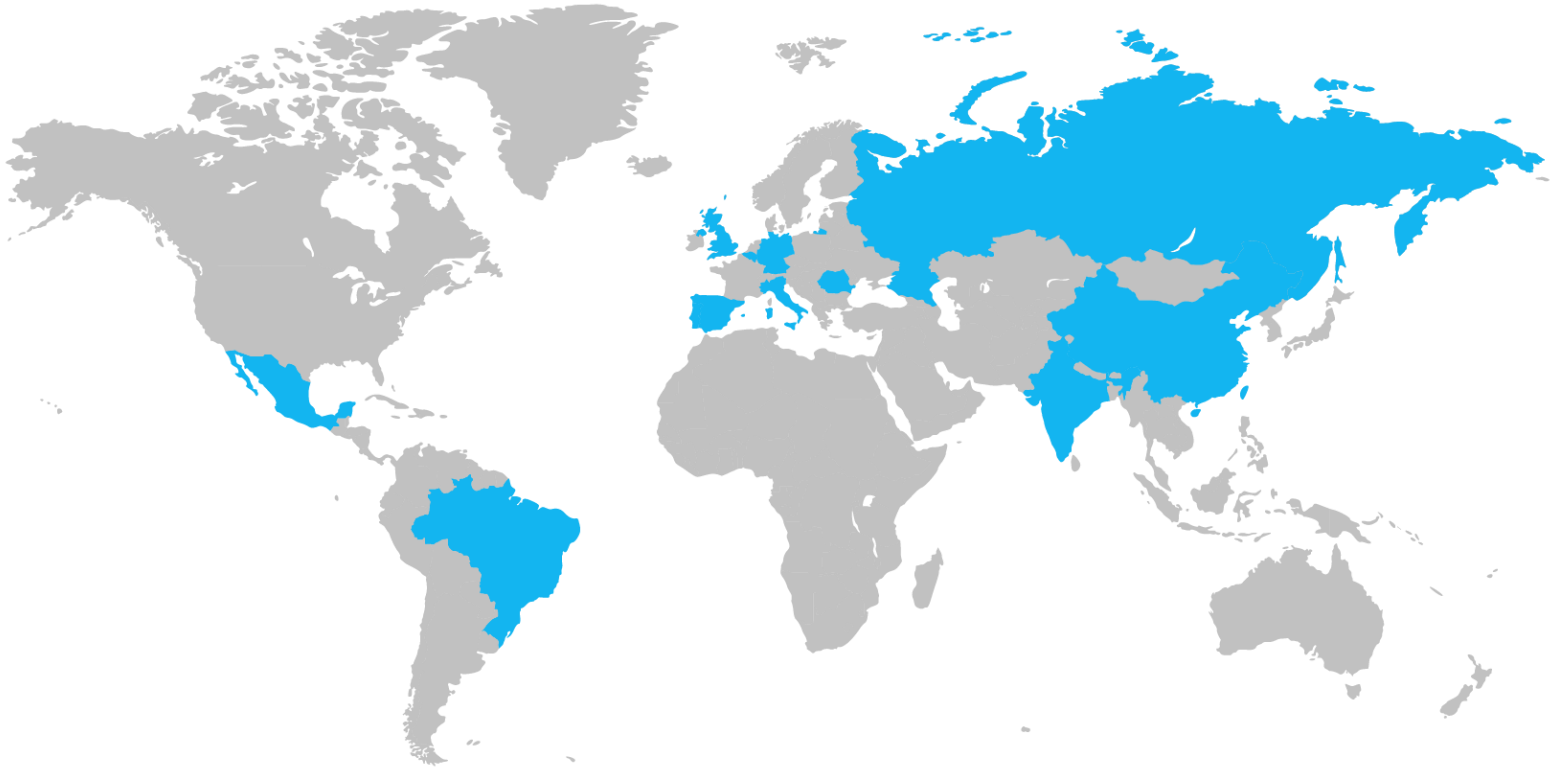
We have projects in Portugal, Spain, Germany, Belgium, Romania, Russia, UK, India, Holland, Mexico and Brazil;

And offices in Portugal, Germany, Mexico, India and China



**More than 3000 robots fully integrated**

# VALUE CHAIN

- Electrical design and planning (Eplan)
- Electrical installation
- PLC programming
- Robot programming
- Virtual commissioning
- Project management
- Standards development
- R&D
- Training academy

**OEM**

**MACHINE BUILDER**

**CONTROL SYSTEM DESIGNER**

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# 2 Our Products

# 2.1 Automotive Industry

PROJECT AND ELETRICAL DEVELOPMENT

ELETRIC INSTALLATION

VIRTUAL COMMISIONING

AUTOMATON PROGRAMMING

OFFLINE PROGRAMMING OF ROBOTS – OLP

INDUSTRIAL ROBOT PROGRAMMING

PROJECT MANAGMENT

PHOENIX CONTACT

Rockwell Automation

FANUC

EPLAN

RITTAL

SIEMENS

ABB

WinMOD

KUKA

2.2
INTROSYS
TRAINING
ACADEMY

Training academy
Powered by INTROSYS

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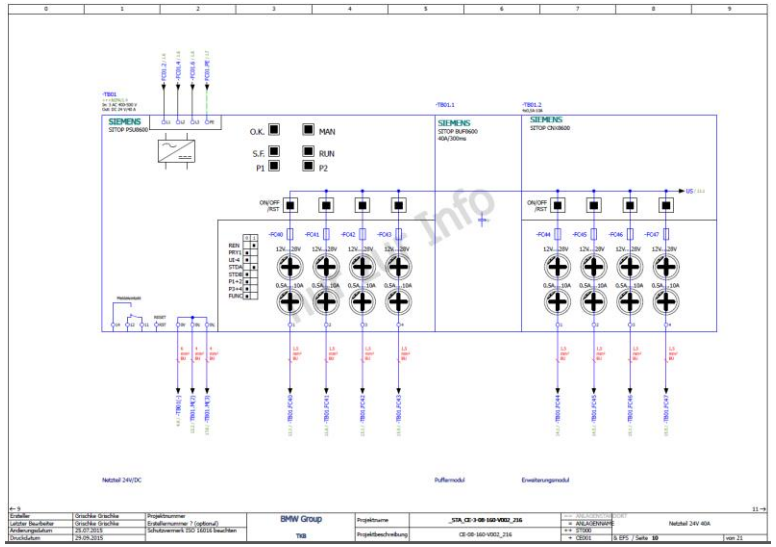
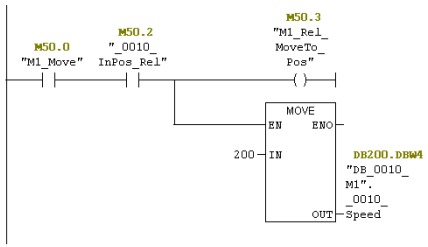
## PLC Programming



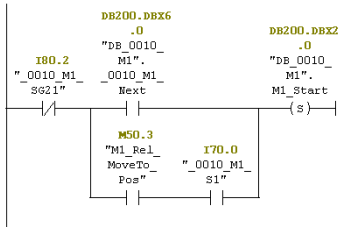
**Network 1**: Release to Move and Station Speed

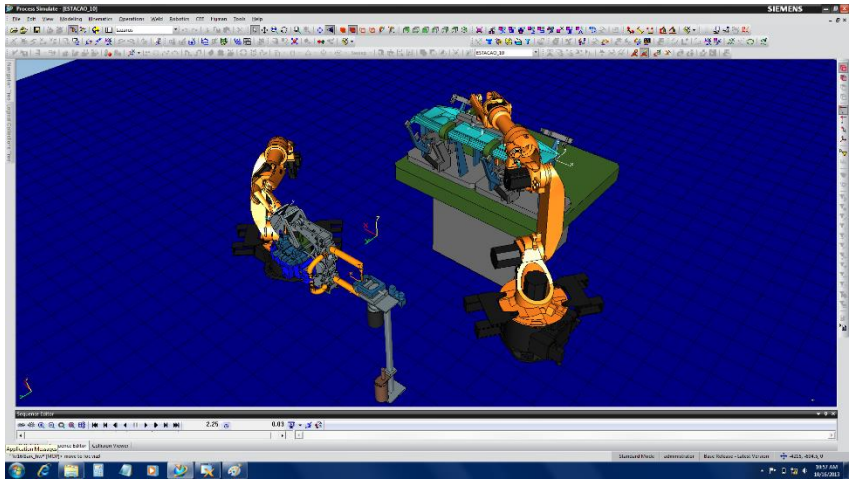
Comment:




**Network 2**: Engine Start Station 0010

Comment:



## Electrical Design

## Robot Programming

Training academy
Powered by INTROSYS

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# R&D

POWERED BY

INTROSYS

prémio pme inovação COTEC · BPI

ANI AGÊNCIA NACIONAL DE INOVAÇÃO

BRN FROM KNOWLEDGE AWARDS

# COFINANCING

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POR LISBOA
PROGRAMA OPERACIONAL REGIONAL

QREN
QUADRO DE REFERÊNCIA ESTRATÉGICO NACIONAL
PORTUGAL 2007.2013

UNIÃO EUROPEIA
Fundo Europeu de Desenvolvimento Regional

SEVENTH FRAMEWORK PROGRAMME

European Commission

# PARTNERS

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UNINOVA
INSTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS

afag

ASYS GROUP

Electrolux

fortiss

csem

elrest®
Wir steuern Ihren Erfolg

We+

HSM
HIGH SPEED SUSTAINABLE MANUFACTURING INSTITUTE

KTH
VETENSKAP OCH KONST
KTH Industrial Engineering and Management

ISCTE IUL
University Institute of Lisbon

Loughborough University

TÉCNICO LISBOA

LINKÖPING UNIVERSITY

MASMEC

SenseAir®
Sensors for Life

TQC
Automation & Test Solutions
www.tqc.co.uk

The University of Nottingham

asyril
experts in mechatronics

zhaw
School of Engineering
IMS Institute of Mechatronic Systems

SIEMENS

SIMPLAN

LabMAg
laboratório de modelação de agentes

INOTEC
Innovative Technology

Fraunhofer
IGD

# 2.3 Mobile Robotics

# INTROBOT®

## Basic platform for outdoor perimeter surveillance

POR LISBOA
PROGRAMA OPERACIONAL REGIONAL

INTROBOT® sampler

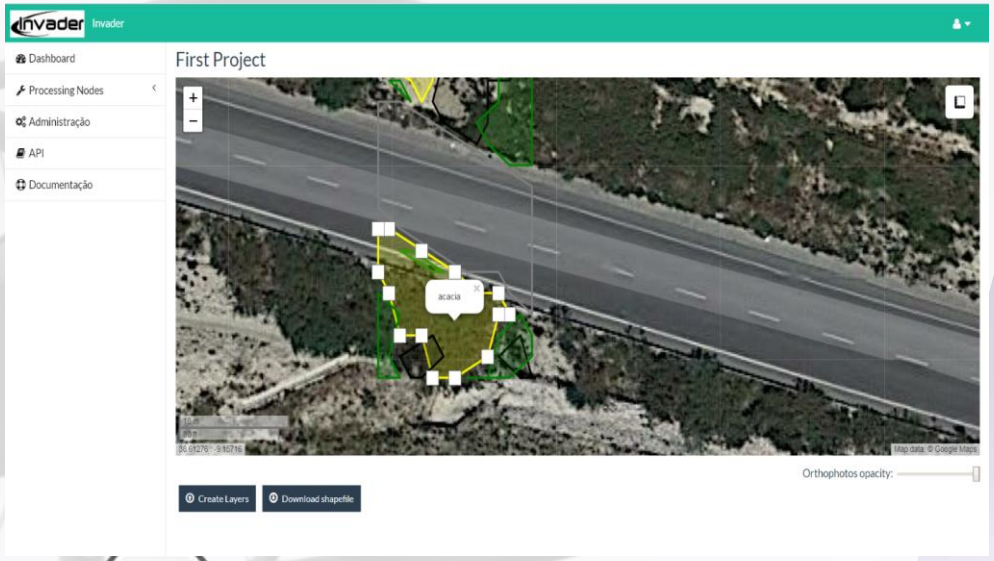
## For soil samples in estuarian environments collection

# Fire MANAGER

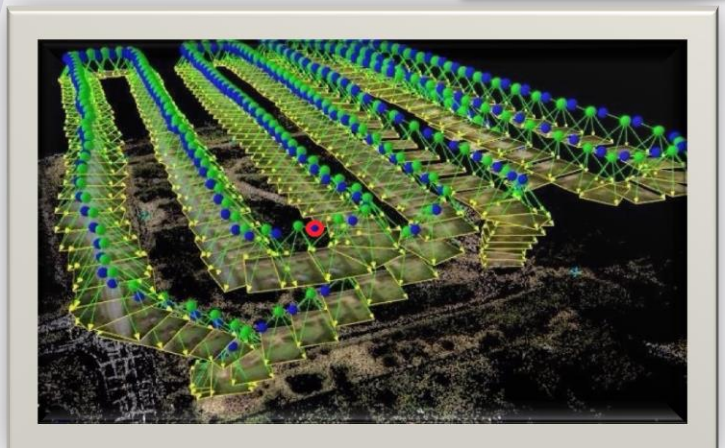
# INVADER IV

# Habitat SURVEY

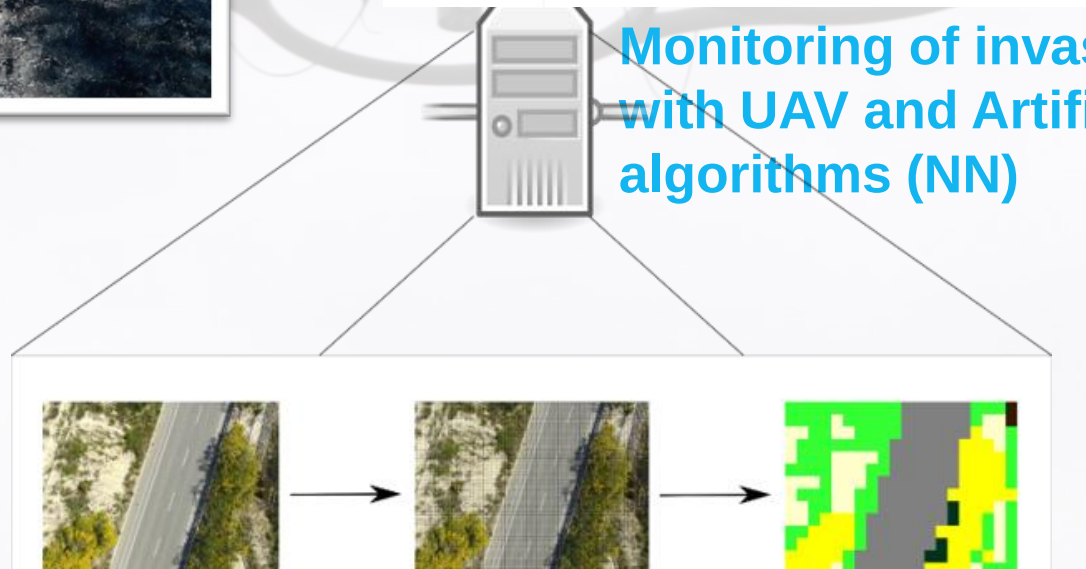
## Image processing for decision support in forest fire fighting – after extinction

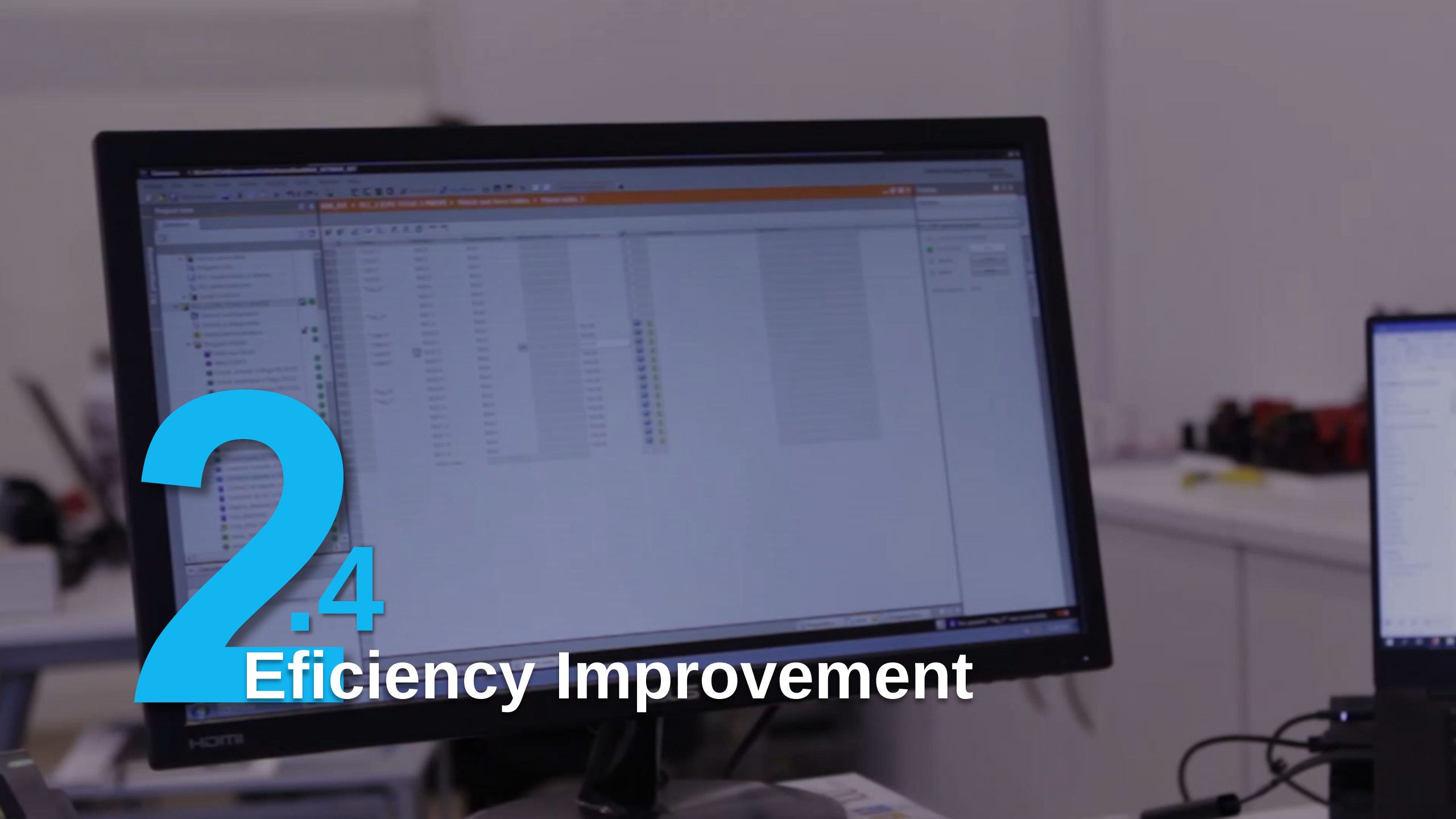



Lisb@20[20]



## Monitoring of invasive species with UAV and Artificial Intelligence algorithms (NN)

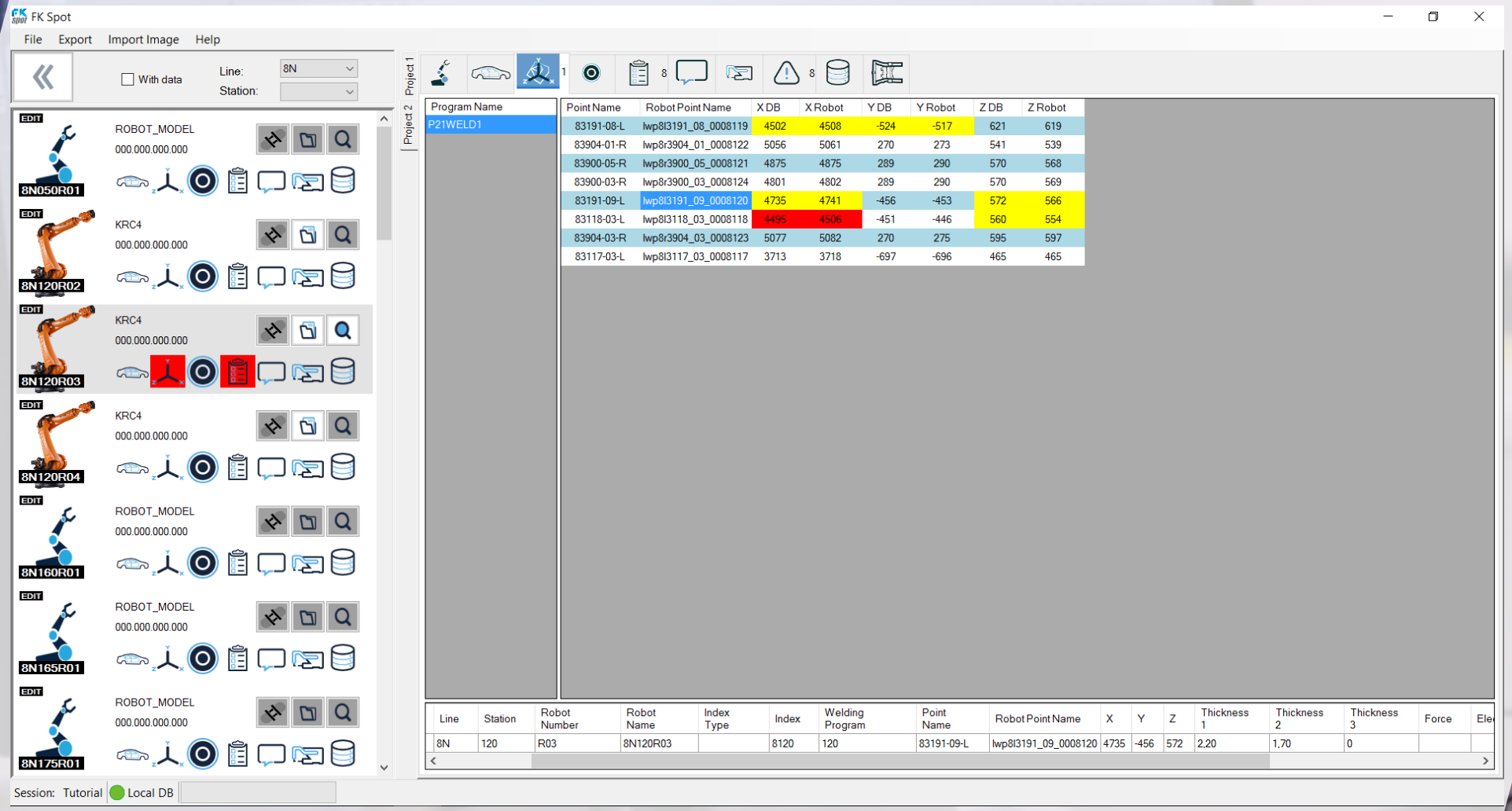




# 2.4 Eficiency Improvement

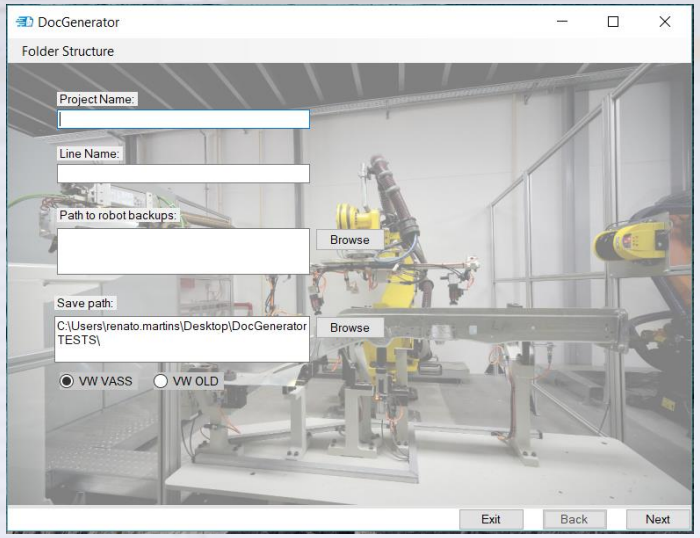
# FK spot

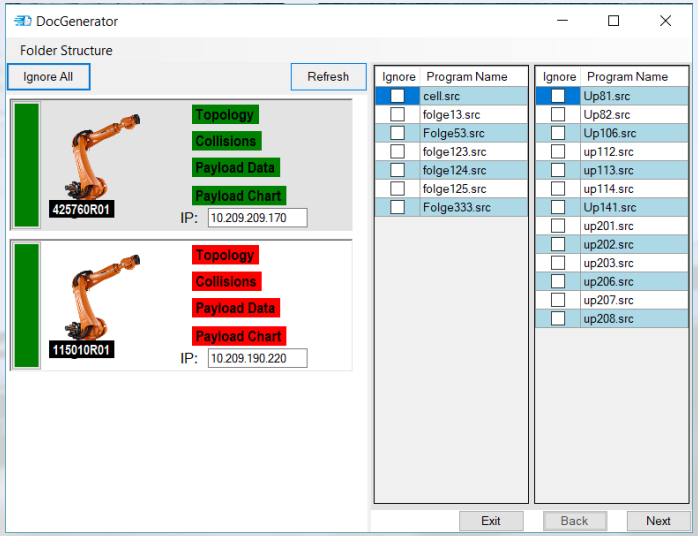
## Quality check of robot programs

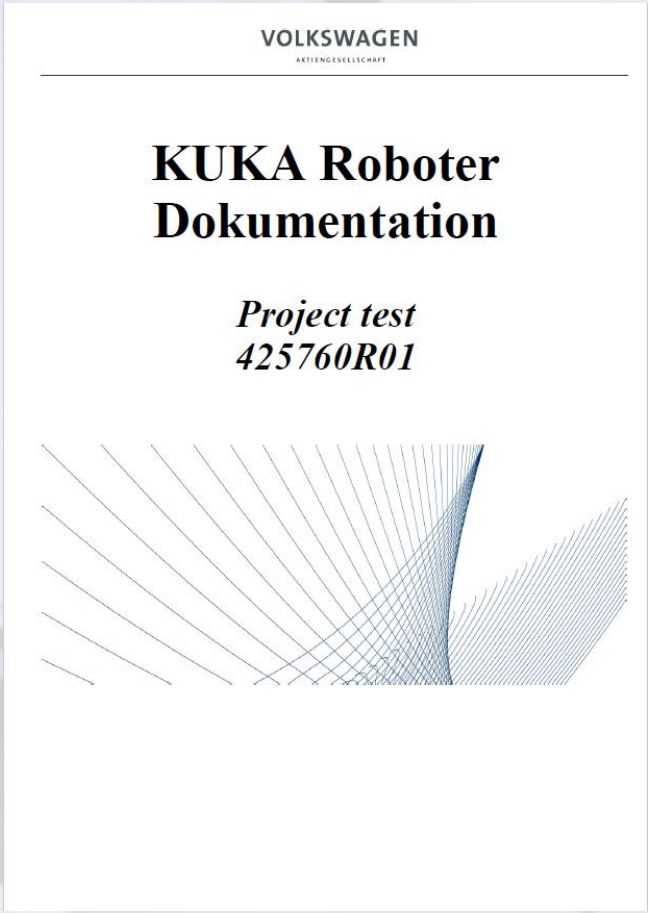


# DOCGENERATOR

## Automatic system to create robot program documentation



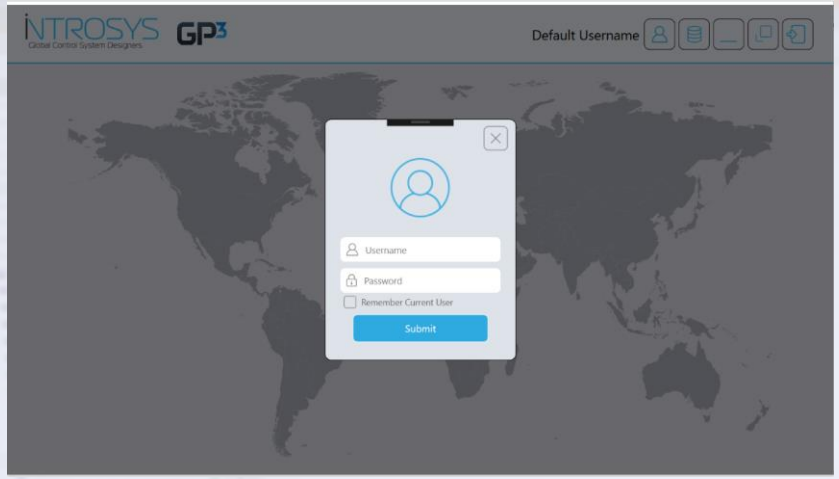



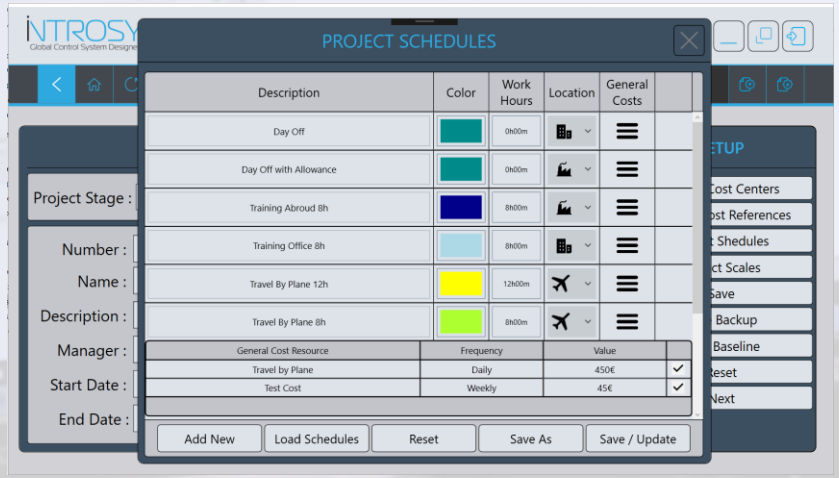


# F-TOOLS

Lisb@20[20]

## Project management software



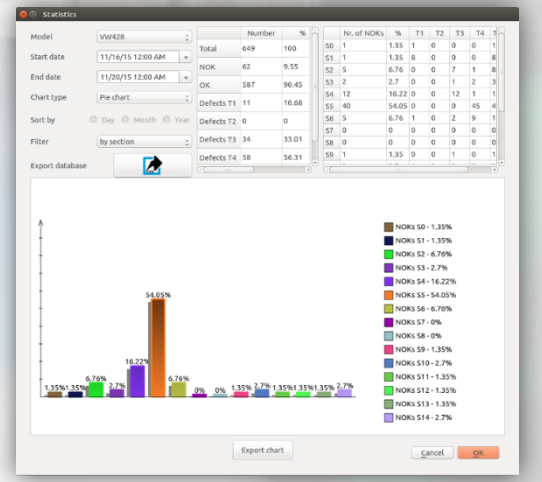


# 2.5 Vision Systems

# iSent Vision

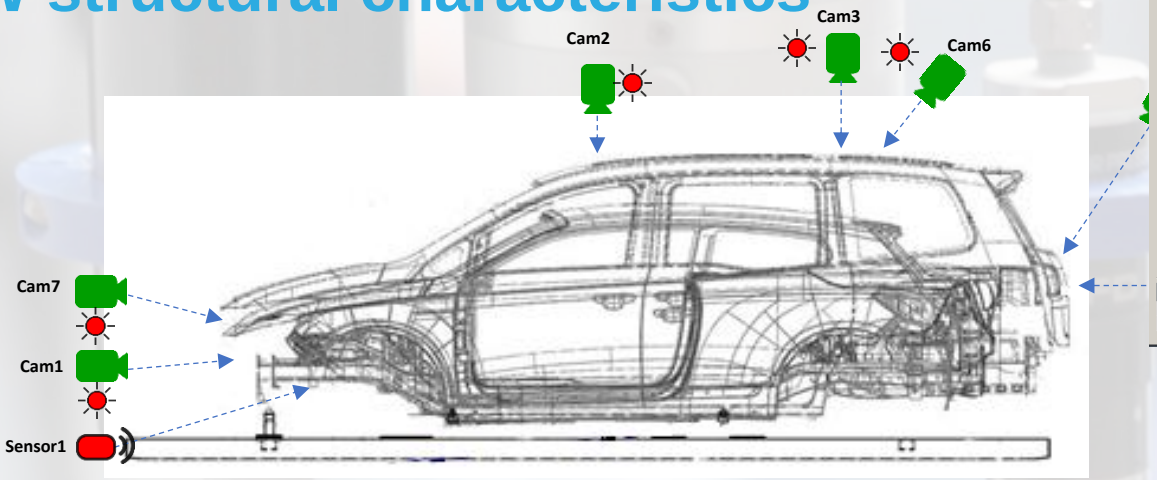
COMPETE 2020

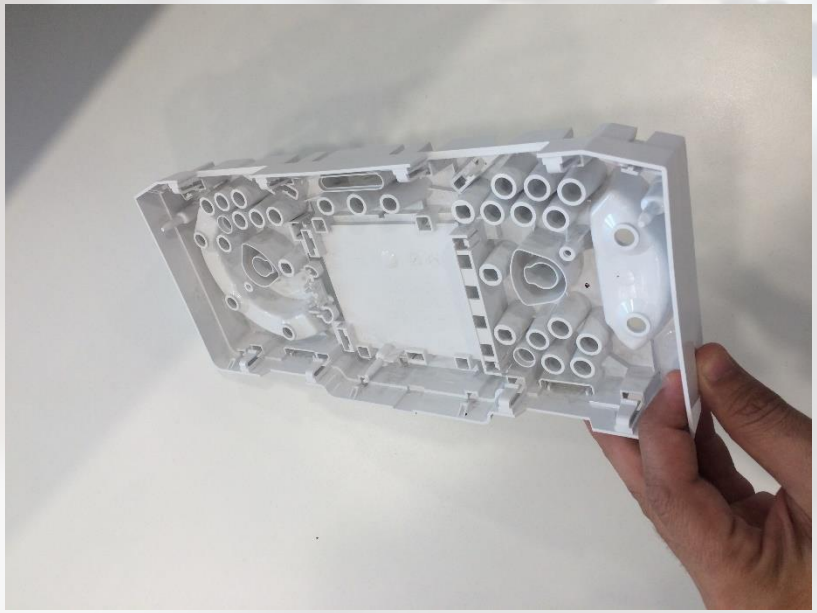
## Historical data analysis & report



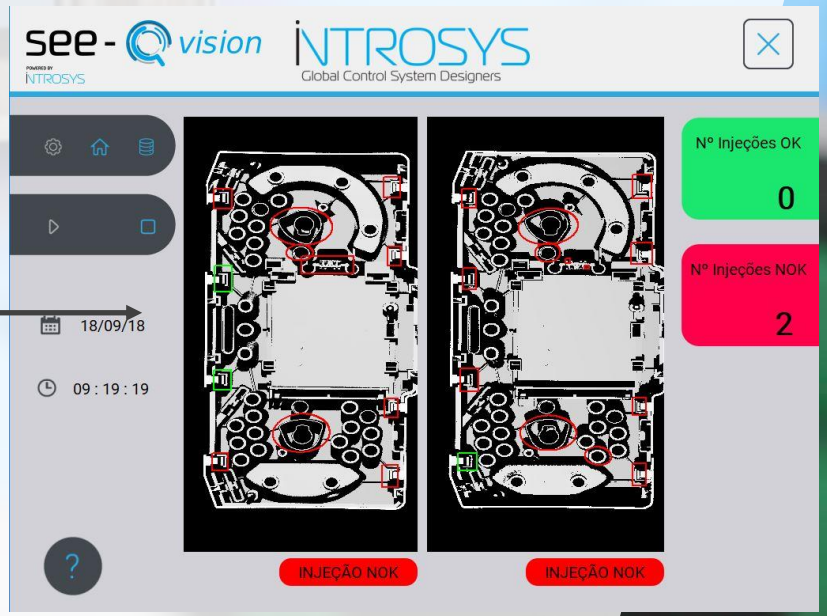
# iSent Check

## Check vehicle BIW structural characteristics





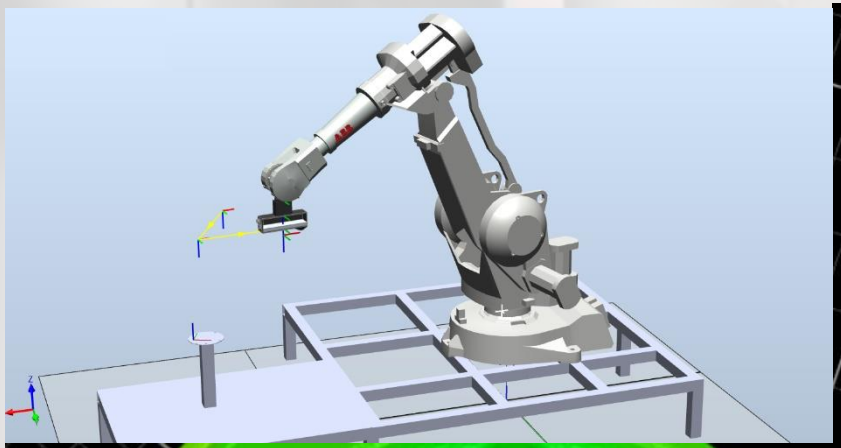
**DETECTION**

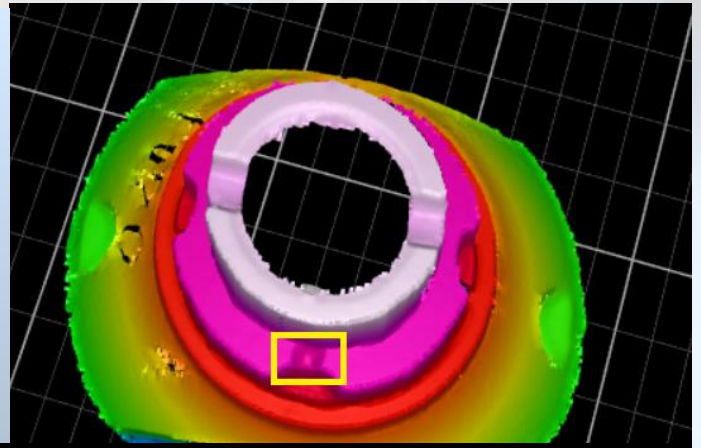


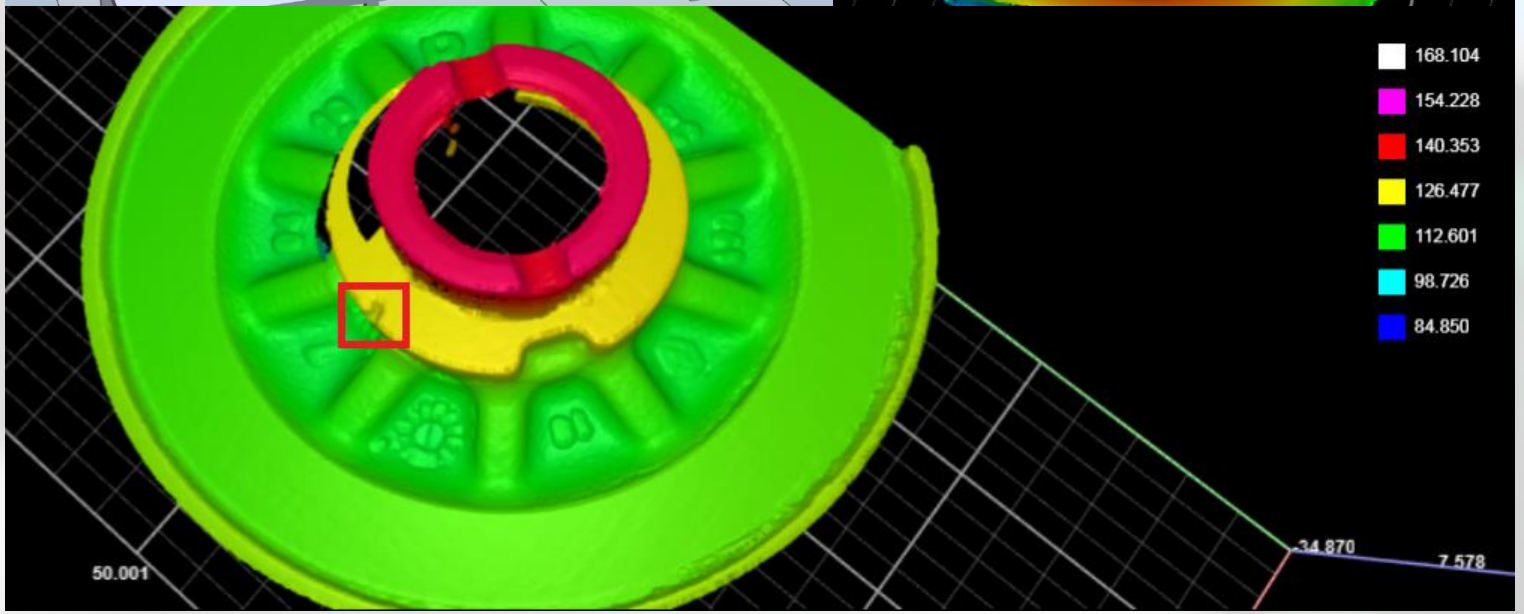
Press VISION

Lisb@20[20]

# 3D Inspection of pressed, machined or molded parts

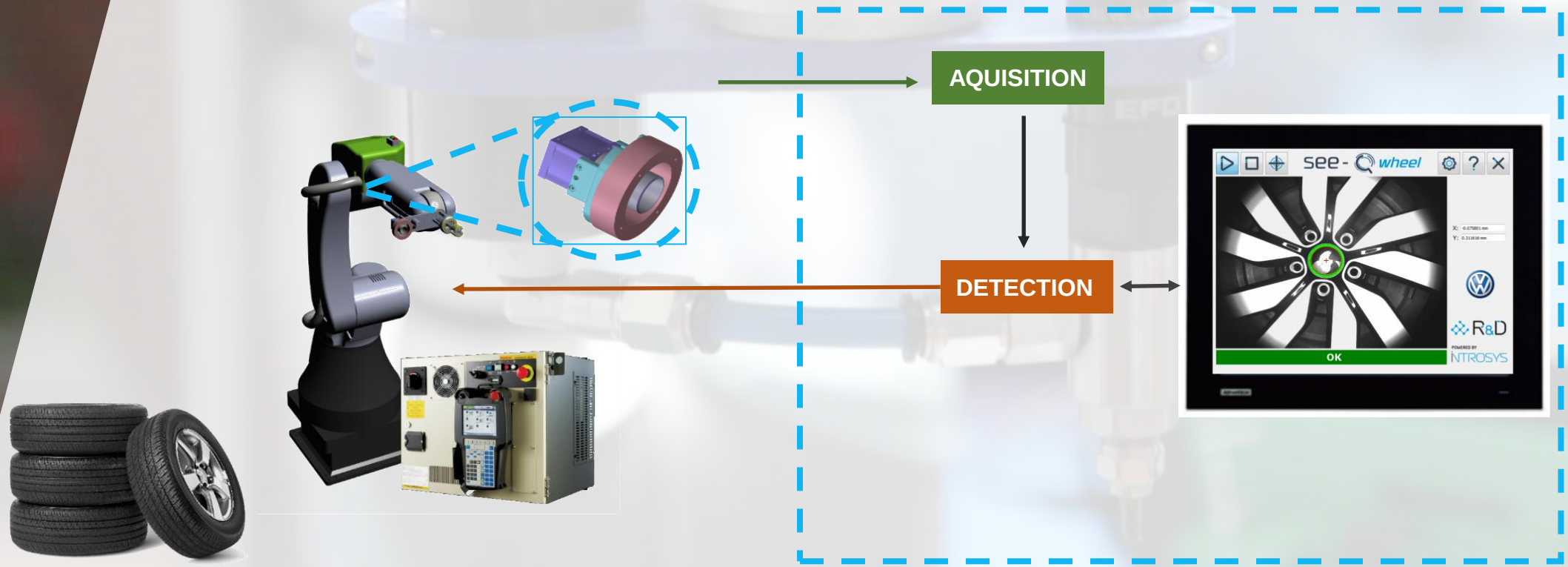






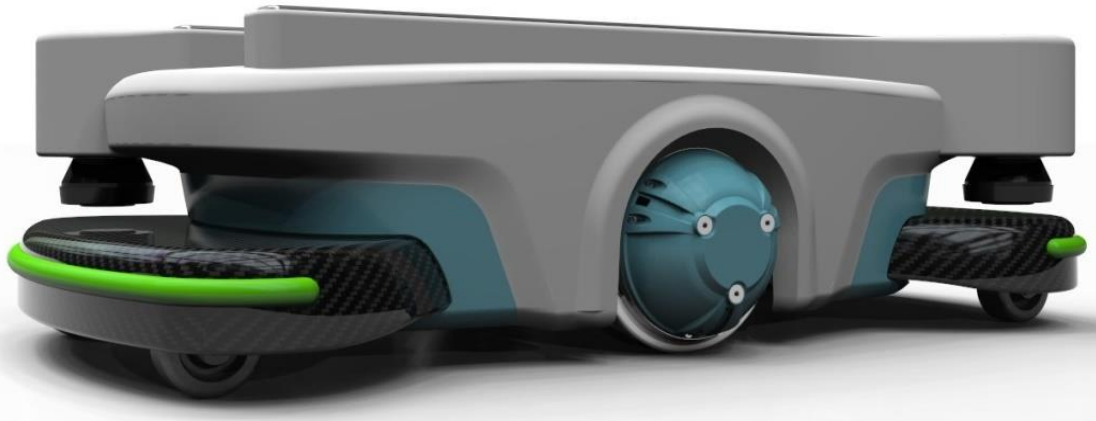
# iSent Wheel

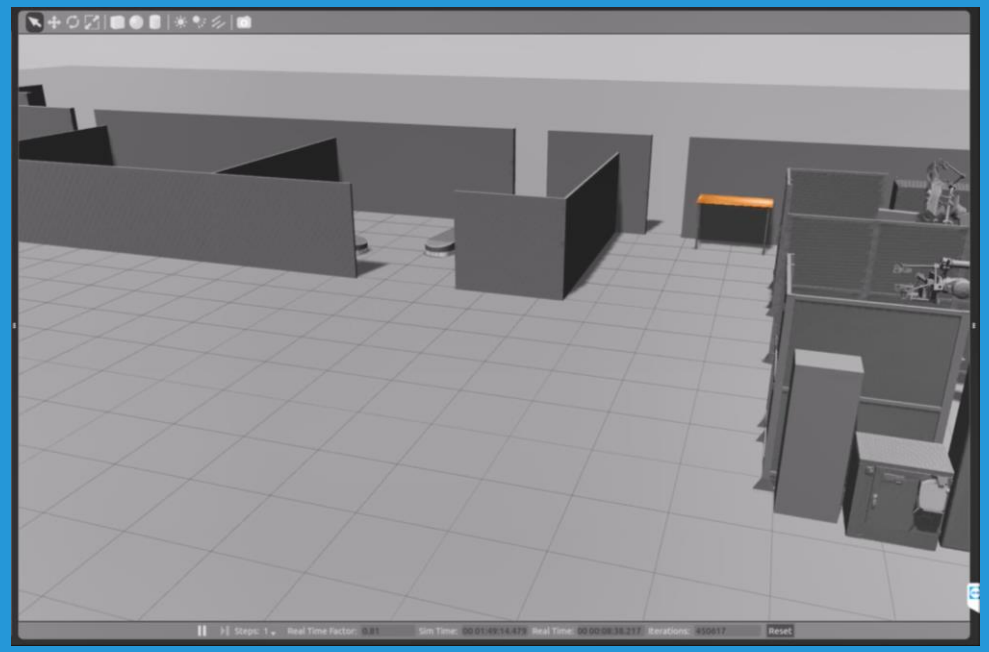
## Vision guided collaborative industrial robot



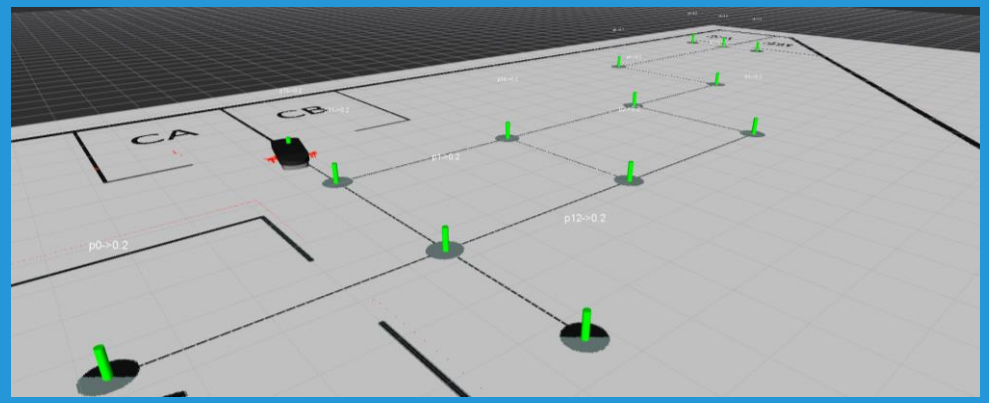
2.6
Industry 4.0
BANYAN WATER
SUMMARY
SMART RATE™ INDEX
MONTHLY WATER USE
PORTFOLIO COMPARISON

openMOS





- Agile and flexible manufacturing system for intelligent automation components 'plug-and-produce'
- European project - FoF (Factories of the Future) of H2020 (2015-2018)
- Introsys was the project coordinator



*The minds that move the matter*