

trinity

ICON AGILE ELECTRIC MOTOR MANUFACTURING

Stefano Ellero
STAM S.r.l.

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MASTERING EXCELLENCE

 www.trinityrobotics.eu

Introduction to ICON

- **What?** Increase productivity of a robotic cell
- **How?** Deploying three TRINITY-originated modules for Human-Robot Collaboration

- **Who?**

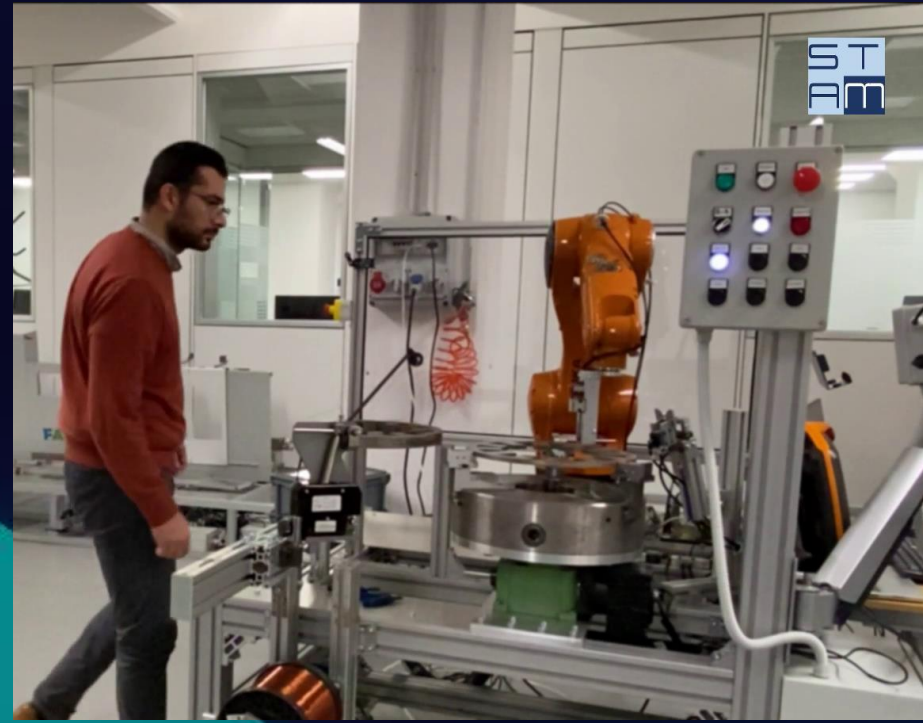


ICON: where we stand?



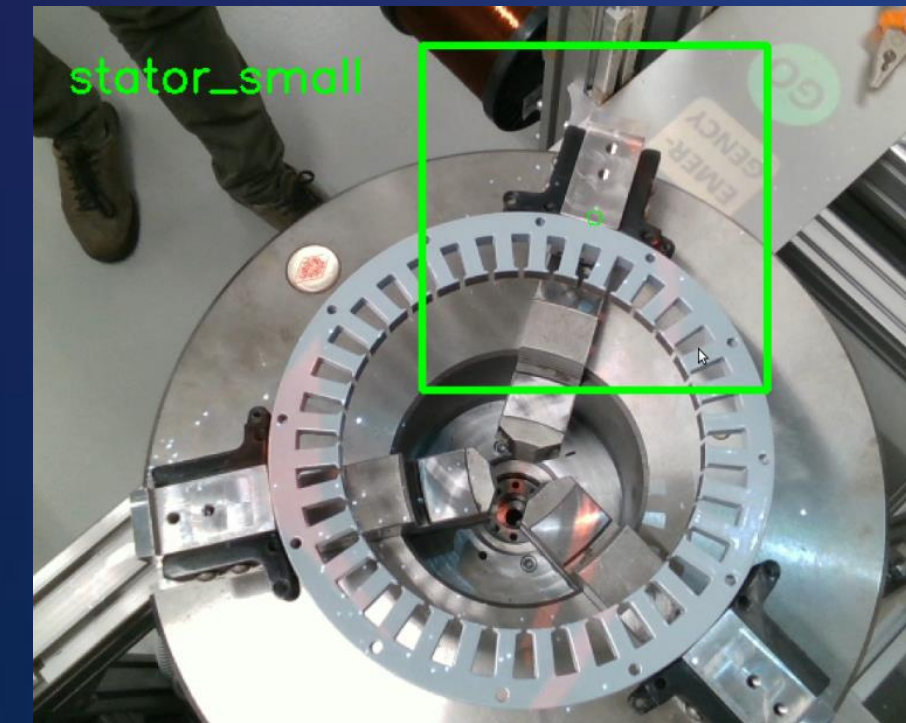
2016

Manual winding



2020

1st module



2021

3rd module

Before ICON

Thanks to ICON



2019

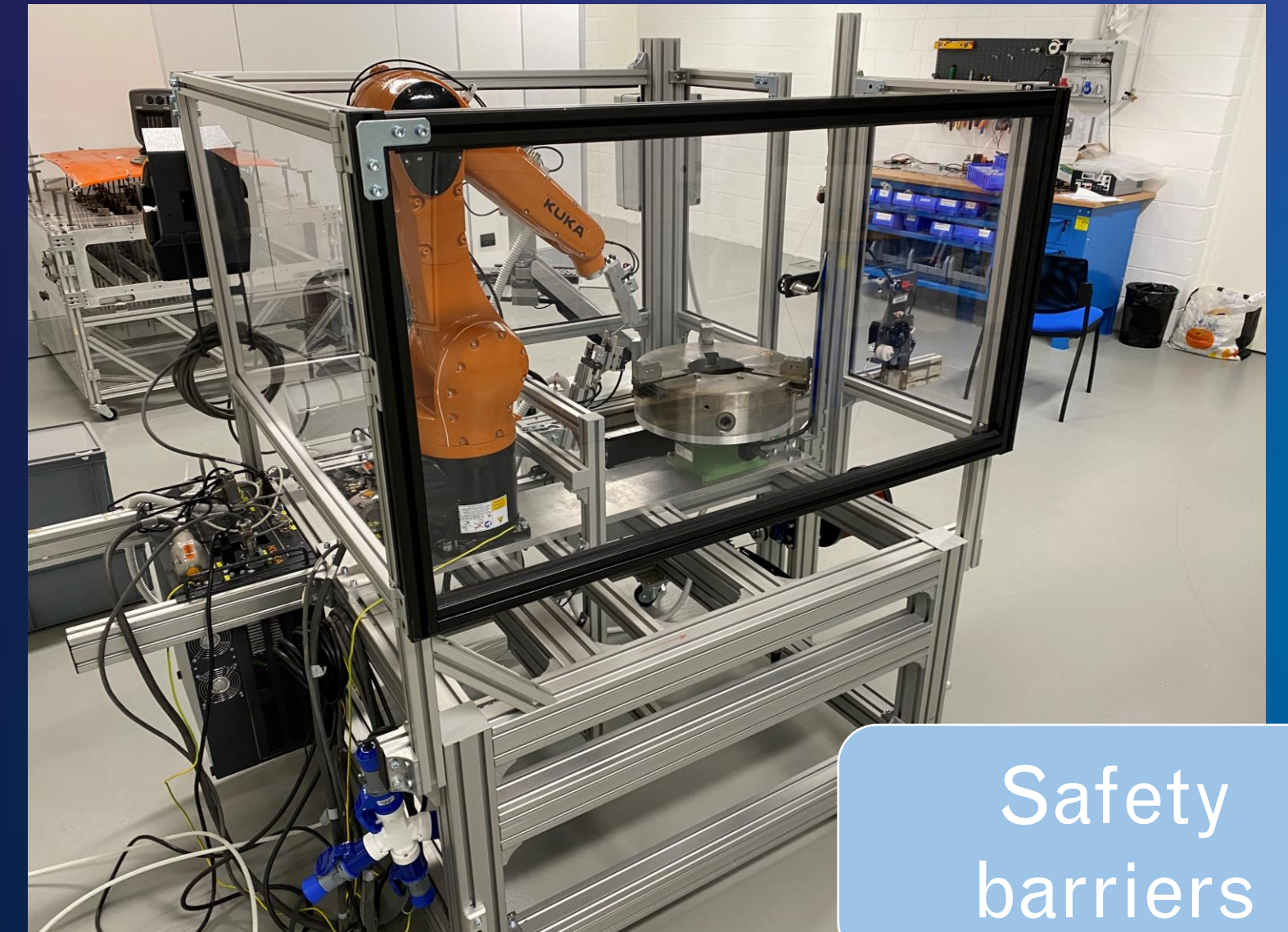
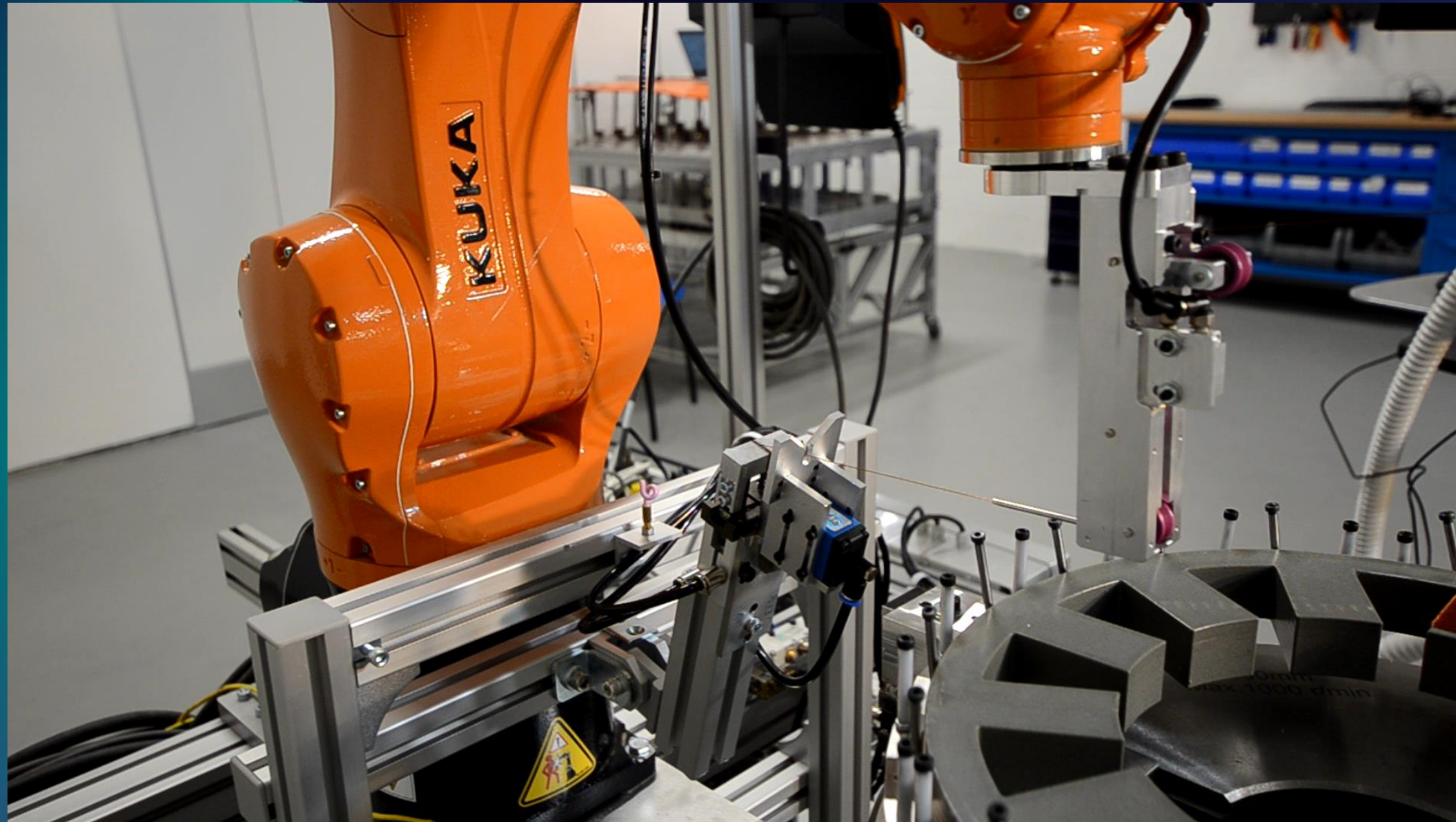
Industrial cell



2021

2nd module

Status before ICON



Safety barriers



Manual input of parameters

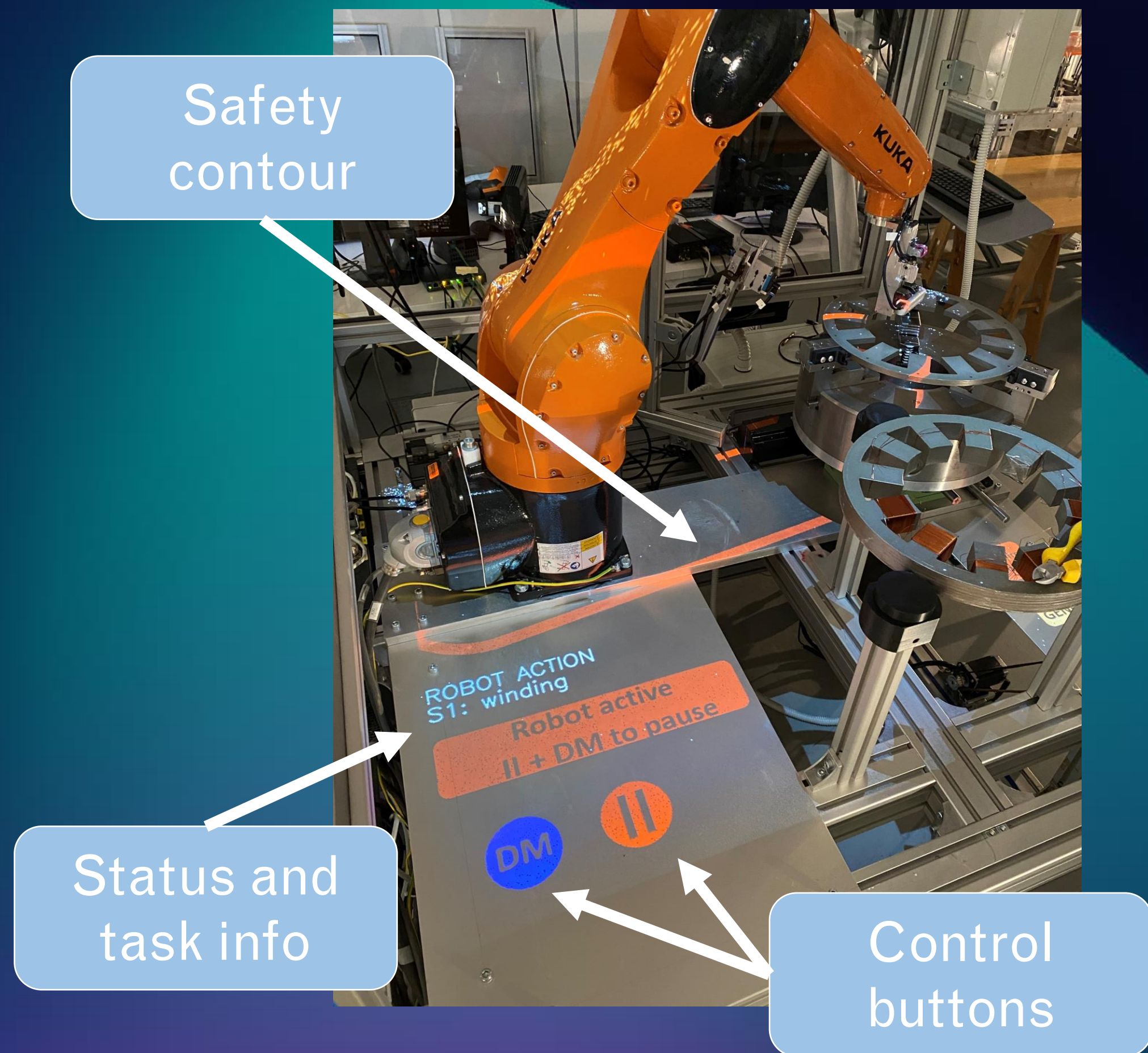
1st TRINITY Module

Safe Human Detection in a Collaborative Work Cell



2nd TRINITY Module

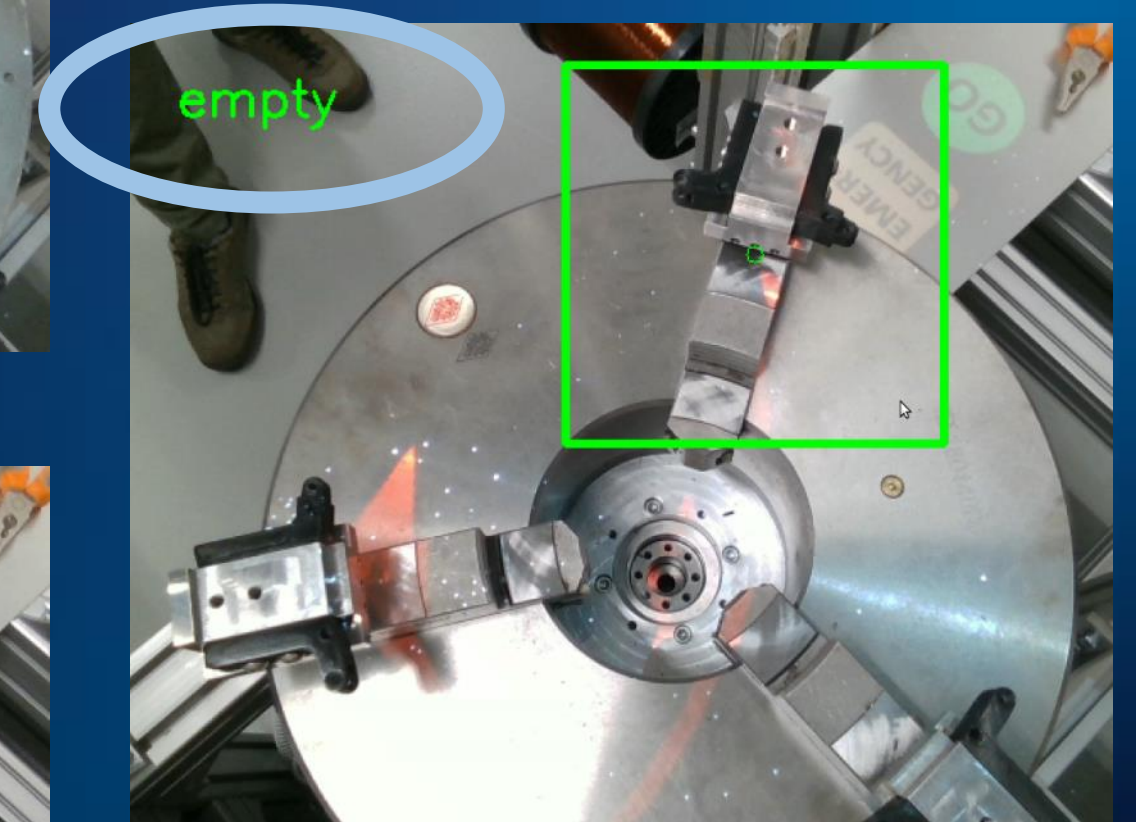
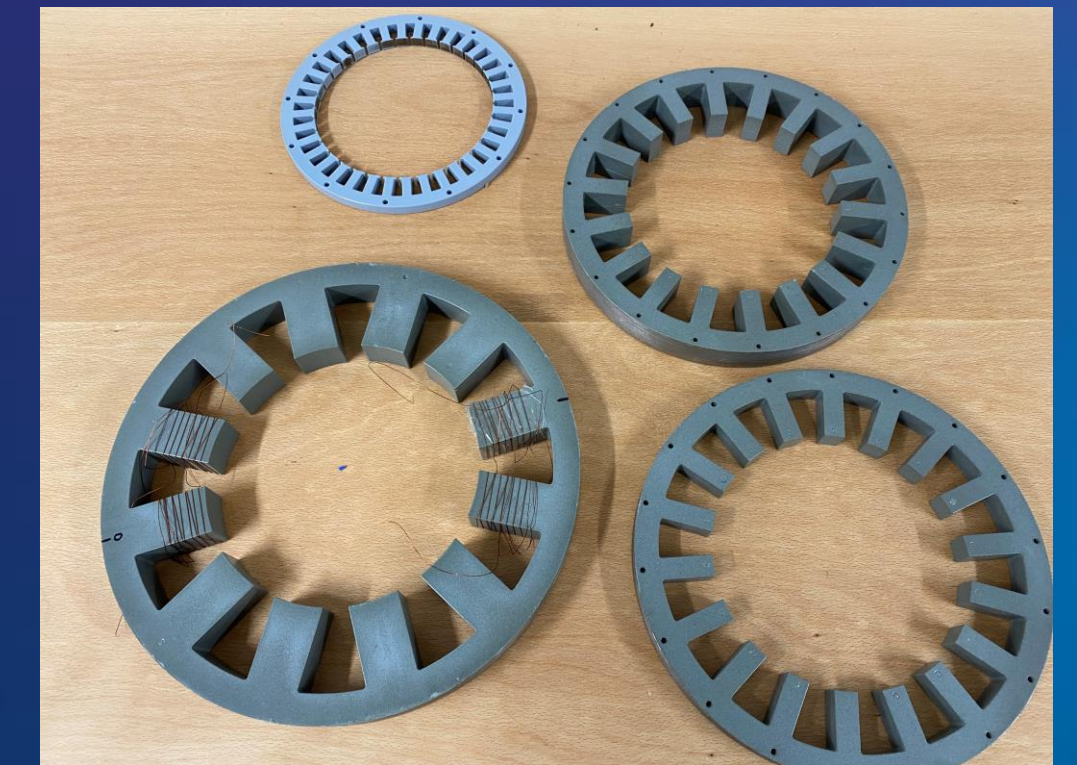
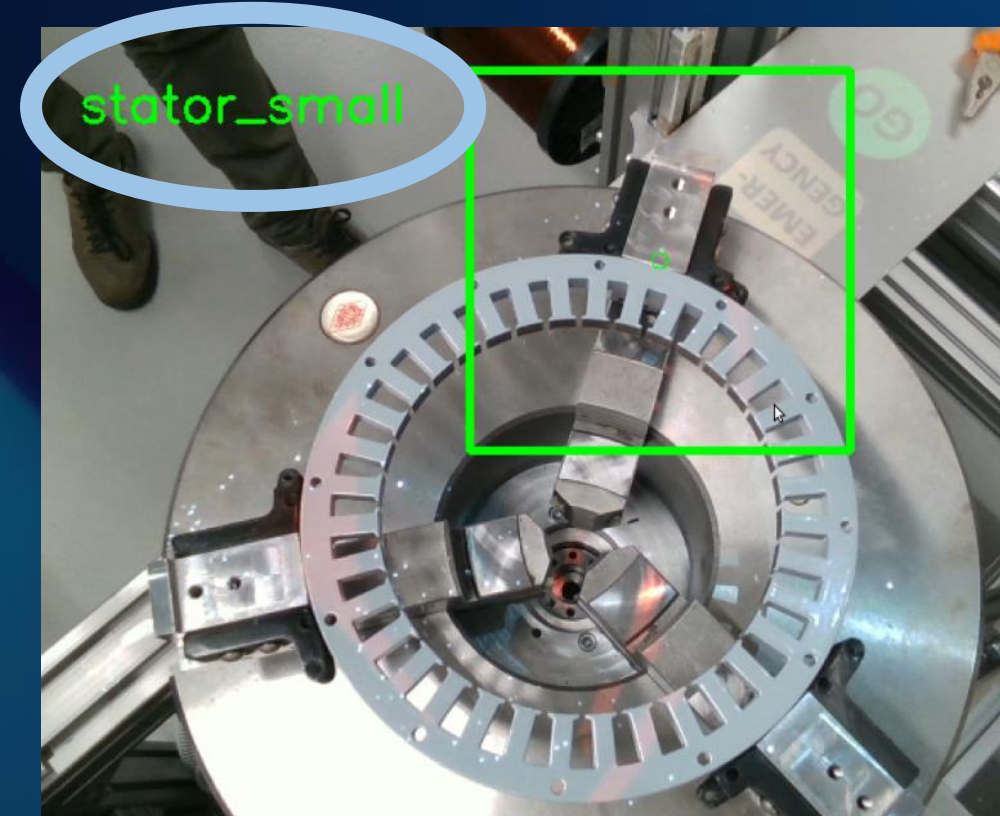
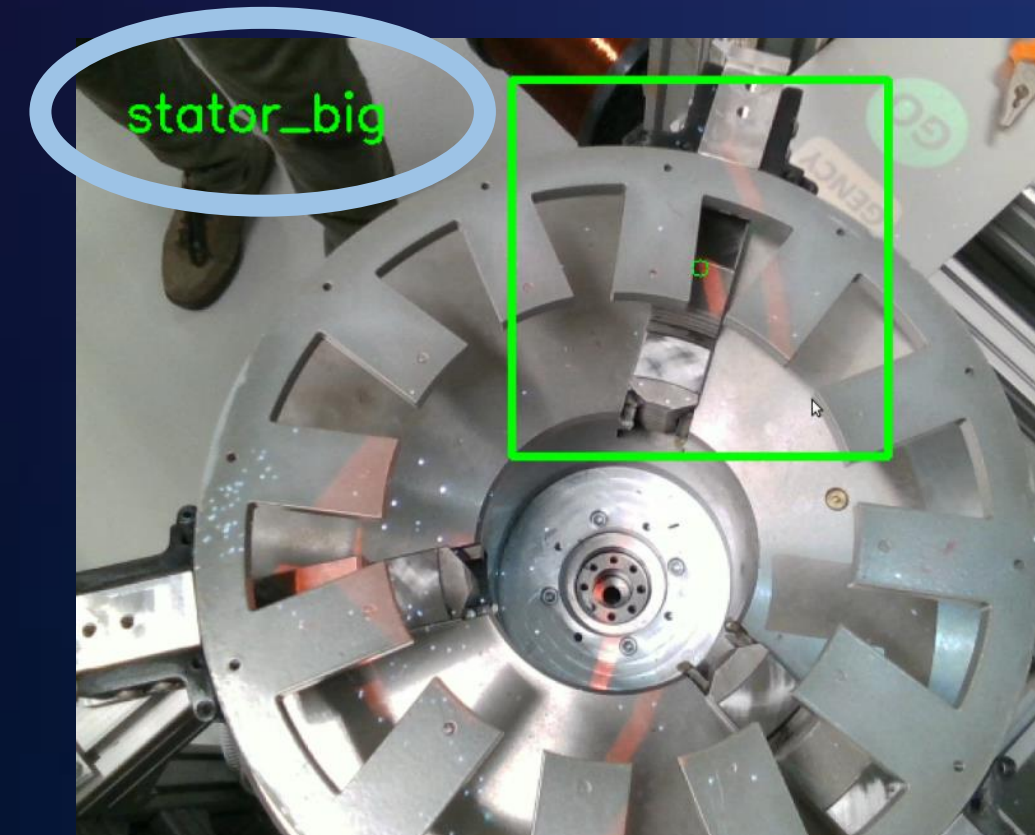
Projection-based Interaction Interface for HRC



3rd TRINITY Module Object Classification



The stator parameters must be filled in HMI manually



Results

Increase of:

- Productivity
- Robot ease of use
- Operators' safety and trust

Reduction of:

- Time to launch winding
- Defected products
- Material waste and emissions



Other European Projects



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 s.ellero@stamtech.com

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Thank you!

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info@trinityrobotics.eu