1 ed. LIFE SCIENCE TTO NETWORK CONTEST

"Pay attention to the value of your research: the top 5 missed TT opportunities"

27 October 2023 (14.30-16.30)

c/o Human Technopole Foundation

AMICO

A Multimodal device to improve inclusive Interaction between Cobot and Operator

Carla Dei – *Product Designer – IRCCS Eugenio Medea*

Ministero della Salute

PerfeTTO
Italian Technology Transfer Office Network in Life Science

Project Description

STARTING POINT

In the context of **Industry 4.0** and **5.0**, collaborative robots (**Cobots**) started to be adopted in production lines.

↓

NEW INTERACTION MODALITIES

(A)MICO aims to **improve the flow of communication** from collaborative robots (cobots) to humans, **explicitating the implicit information of the system** through visual and acoustic feedback.

GOALS

- Improving positive job experience
- **Workplace more human-friendly and accessible for people with ASD**

Ministero della Salute

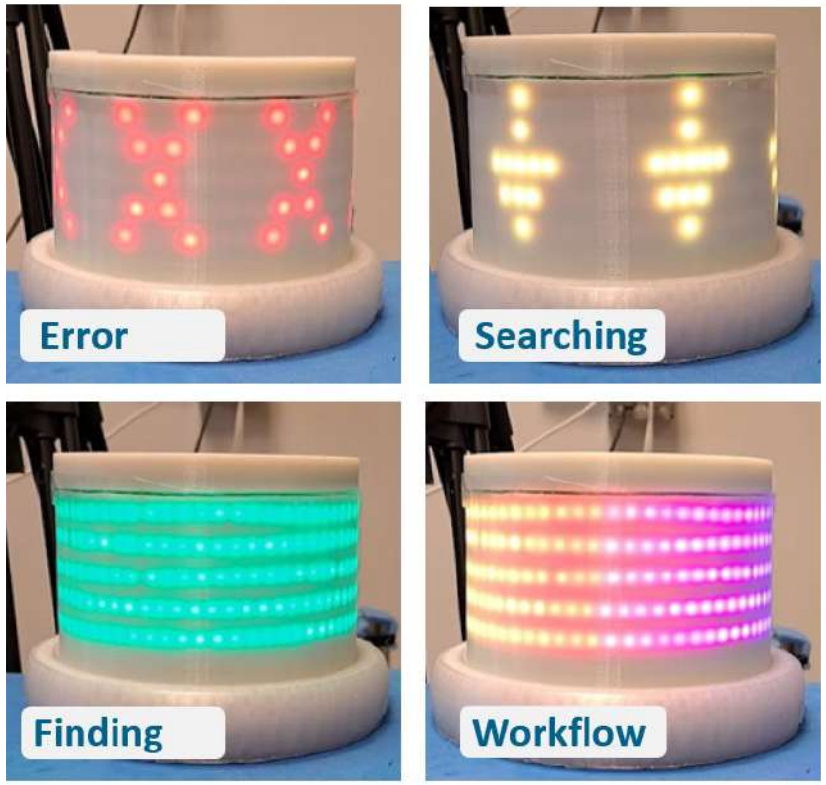
Carla Dei – *Product Designer – IRCCS Eugenio Medea*

IRCCS Eugenio Medea · La Nostra Famiglia · Astro Lab · STIIMA · Mind Bot

PerfeTTO
Italian Technology Transfer Office Network in Life Science

Project Description

CUSTOMIZED FEEDBACK SYSTEM



Human Operator

- MORE AWARE OF COBOT'S ACTIVITY
- GAINS CONTROL OVER THE SITUATION

CASE STUDY

Carla Dei – *Product Designer – IRCCS Eugenio Medea*

Ministero della Salute

PerfeTTO
Italian Technology Transfer Office Network in Life Science

Project Team

Carla Dei
Product Designer

Roberta Nossa
PhD Biomedical Engineer
Transfer Technology Office

Matteo Malosio
PhD Mechanical Engineer

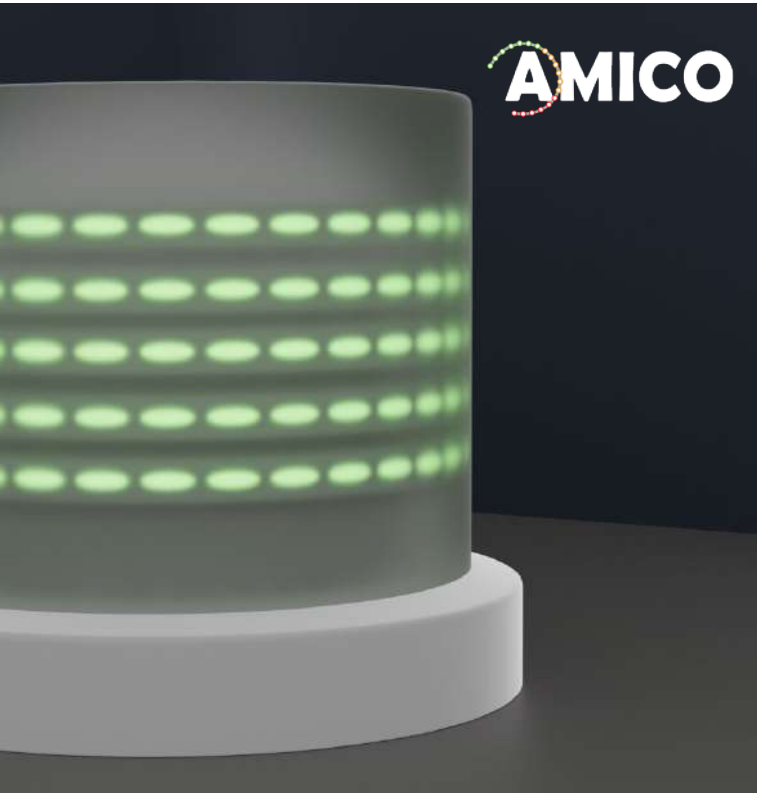
Matteo Lavit Nicora
Mechanical Engineer

Fabio A. Storm
PhD Biomedical Engineer

Mattia Chiappini
Psychologist

Matteo Meregalli Falerni
Mechanical Engineer

Technology Readiness Level



TEST IN CONTROLLED ENVIRONMENT:
ASD volunteers involved

Group A: 3 ASD volunteers (1F and 2M) with **High Functioning Autism**

Group B: 12 ASD volunteers (2F and 10M) with **Low or Medium Functioning Autism**

TEST:
Working 5-7 minutes with cobot without (A)MICO + Working 5-7 minutes with cobot with (A)MICO + Semi-structured interview

Ministero della Salute

Carla Dei – *Product Designer – IRCCS Eugenio Medea*

IRCCS EUGENIO MEDEA · LA NOSTRA FAMIGLIA · ASTRO LAB · STIIMA · MIND BOT

PerfeTTO
Italian Technology Transfer Office Network in Life Science

1 ed. LIFE SCIENCE TTO NETWORK CONTEST

"Pay attention to the value of your research: the top 5 missed TT opportunities"

27 October 2023 (14.30-16.30)

c/o Human Technopole Foundation

Thank You!

Carla Dei – *Product Designer – IRCCS Eugenio Medea*

Ministero della Salute

PerfeTTO
Italian Technology Transfer Office Network in Life Science