

CIIRC CTU AS THE ENABLER OF THE AI INDUSTRIAL ECOSYSTEM & ACADEMIA-INDUSTRY COOPERATION

Focus

Czech Institute of Informatics, Robotics, and Cybernetics is a modern scientific and research institute of the Czech Technical University in Prague - **CIIRC CTU**.

Your capable partner from the **CEE region** for the **geographical distribution** of testing and experimental capacities.

CIIRC CTU is a Centre of Excellence of independent research, technology development, services for SMEs & large companies in fields of Industry 4.0

- Cyber-Physical Systems,
- Artificial Intelligence,
- Industrial Robotics,
- Production Systems.



210 FTE
Researchers
152 FTE



€ 15,5M
Turnover



Infrastructure

Testbed for Industry 4.0

is a research and experimental manufacturing facility for testing and experimentation of the latest AI-based technologies for advanced and fully integrated industrial production and processes for smart factories.

- Open access infrastructure.
- Flexible interconnection of universal production tools.
- Multi-agent platform for distributed manufacturing systems.
- Virtually connected with testbeds in CZ and Germany - RICAIP Centre.
- One of the very first 5G-based industrial testbeds in CEE.

1,690 m2
experimental
facility



Experience

- **RICAIP Centre** – European CoE in the area of AI, industrial robotics, and flexible manufacturing.
- **National Competence Centre “Cybernetics and AI”**.

RICAIP - Research an Innovation Centre on Advanced Industrial Production (www.ricaip.eu):

- EU Horizon2020 Teaming Phase II
- ESIF OP RDE Project



€ 49M
Total Funding EU +
National 2019 - 2026



€ 15M
Technologies & Investments
for the Testbed



Ecosystems

National Centre for Industry 4.0

Czech platform of ~ 50 members:

- Technology developers;
- End users: large corporates, SMEs;
- Public bodies and associations.

Joint labs and projects with technology developers and providers (large companies, start-ups and SMEs): Siemens, VW, Škoda Auto, Eaton, Rockwell Automation, Lego, Pocket Virtuality, Factorio Solutions & more.

Long-term strategic partnerships: DFKI, Inria, LMS Patras, CEA, Vicomtech, ZeMA and many more.



Networks

CIIRC CTU is also

- ELLIS Unit Prague
- CLAIRE Office Prague
- EIT Manufacturing Hub
- IDSA Office
- Member of AI DIH Network



Use case

CIIRC RP95-3D Protective Half-Mask

- Fast prototyping of the protective device at the start of COVID-19 pandemic in 03/2020.
- R&D ready in one week incl. CE Certification.
- Demonstrator of the multi-site production concept in collaboration with industry.
- 3D printing data was shared worldwide.
- 100 downloads in 30 countries.
- Complete innovation process from idea to tech transfer.

