

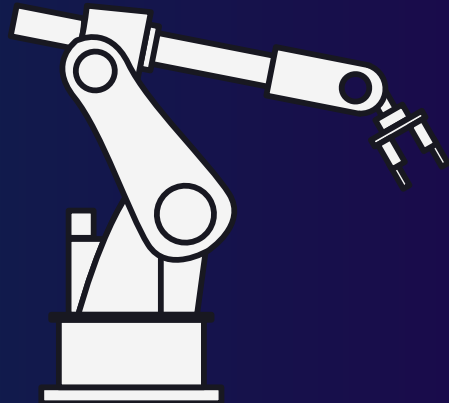
MANUFACTURING superVISED

The **MANUVISED project** by RoboTwin was one of the selected during the **EARASHI Open Call 2**. It tackles one of the main challenges in the manufacturing sector. Classical automation means laying off skilled workers and replacing them with a robot programmer, who costs two times more. This programmer lacks the knowledge of the technology and is not able to program products that are too complex. The robot is utilized by 40% only. And, it takes up to a month to tune the robot trajectory for a new product. The result is a waste of time and resources. **MANUVISED is a universal no-code robot teaching solution applicable to the robotization of any manual job.** Our first application is spray painting, however we are now preparing also grinding and other applications.

CHALLENGES

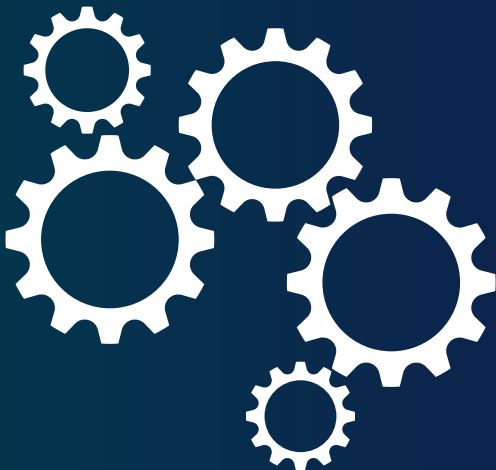
MANUVISED helps with:

- Robot programming
- Lack of workforce
- Limited business growth
- Laying off skilled workers
- Slow return of investment
- Time and resource wasting



SOLUTIONS

- Skills digitalization station
- Robot teaching tool integration
- Easy to use calibration
- Interface to MANUVISED system
- Supervisor's tools (robot program visualization, QA, simple trajectory editor, product flow control)





MAIN GOALS

- Human-centric and socially sustainable.
- Workers become robot teachers.
- Routine manual jobs into collaborative automation.
- Less safety & health hazards, jobs at manufacturing attractive again.

KEY NUMBERS



Unemployment rate **3%** in Czechia - lack of people.



20% of orders decline in SMEs.

2

It is usual to pay **2x** more for programmer.



Only **40%** robot utilization in the companies.



1 month of trajectory tuning.

“

“The trend is definitely to robotize! Unfortunately, it is not easy at all. What we would need is a painter transformed into a robot programmer.”

Jan Drápela, Sales Director in GALATEK a. s.

“

Together, we are closing the gap. Between state-of-the-art and industry, between ideas and products, between motivated people and successful makers. Using hardware and software to solve real industrial challenges. Our work on the MANUVISED project would not have been possible without the support of the EU.

GET IN TOUCH



www.robotwin.cz

www.earashi.eu