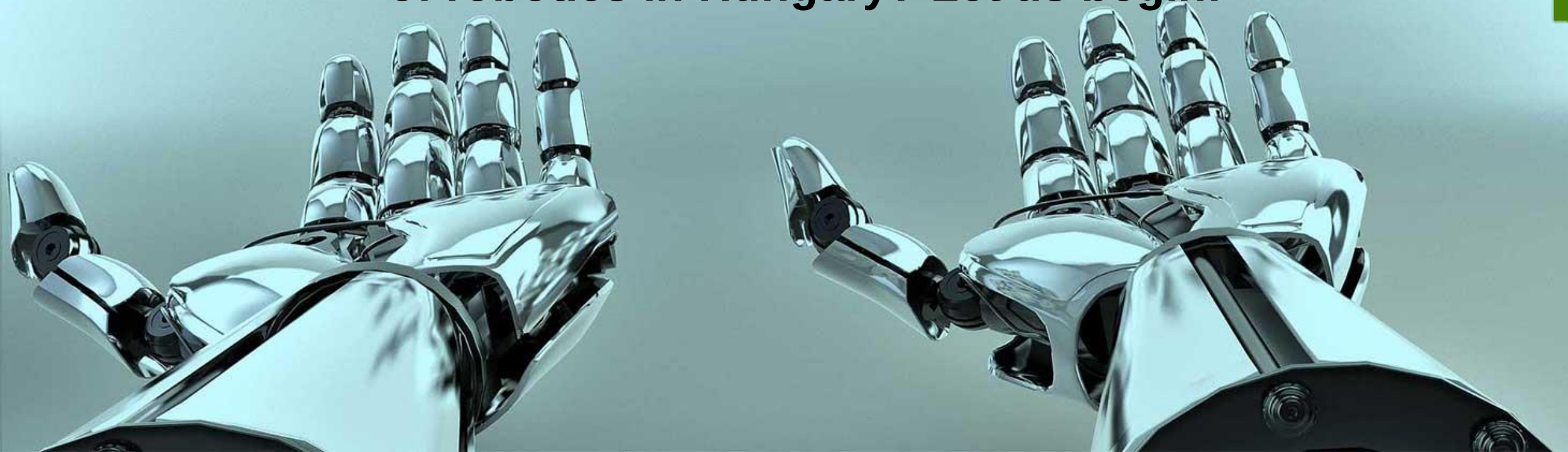
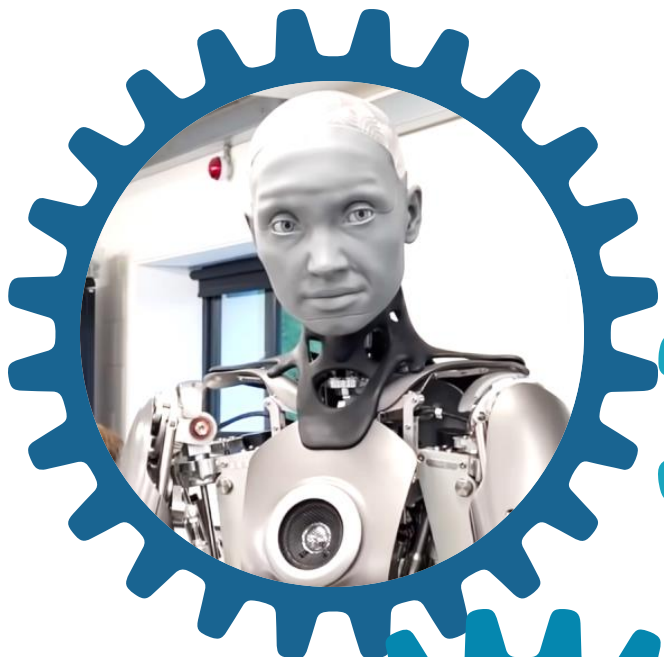


The State of Robotics in Hungary

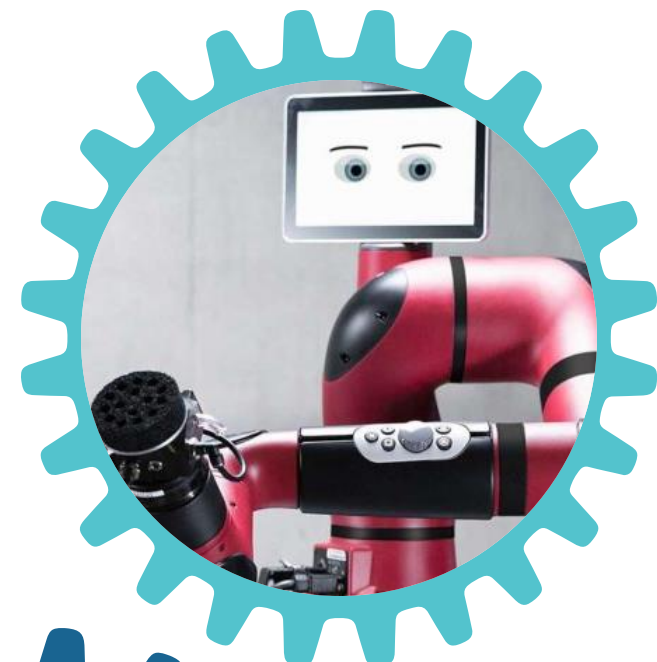
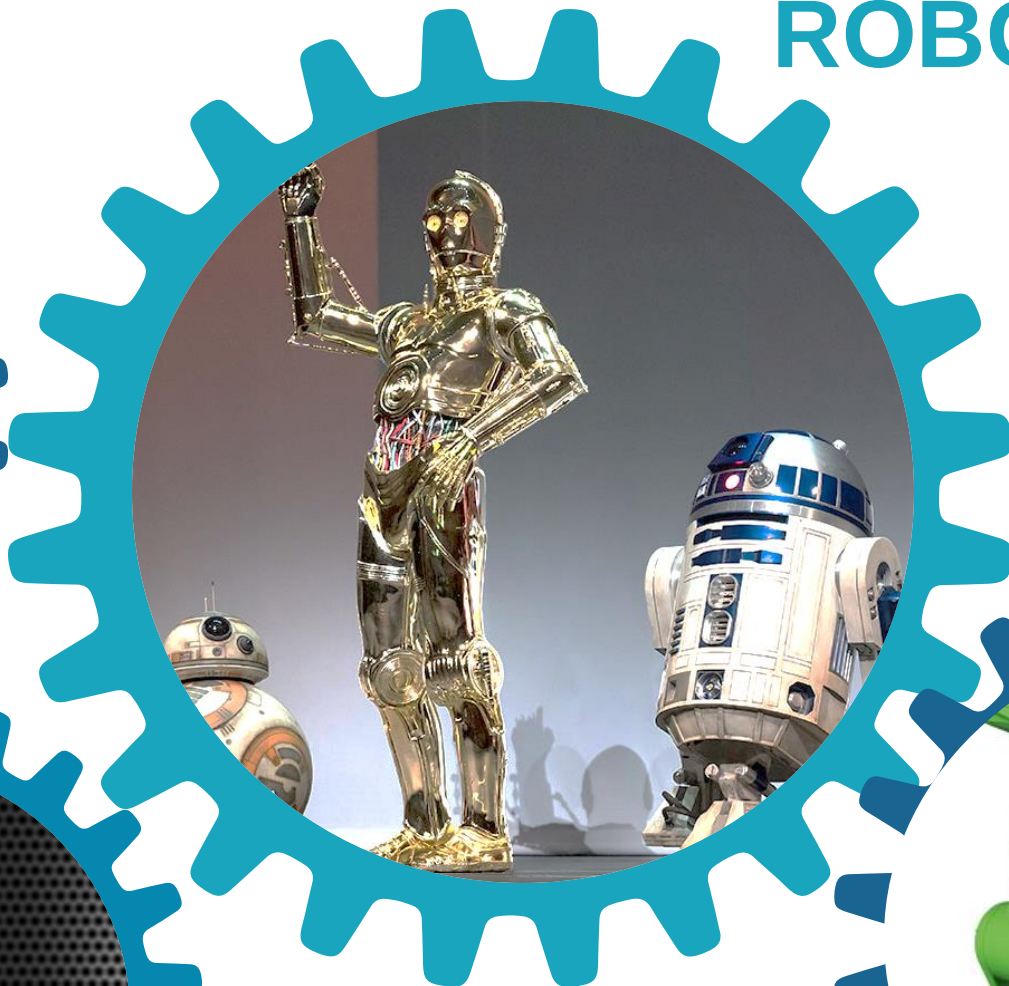
**Are you ready to embark on this journey into the world
of robotics in Hungary? Let us begin!**



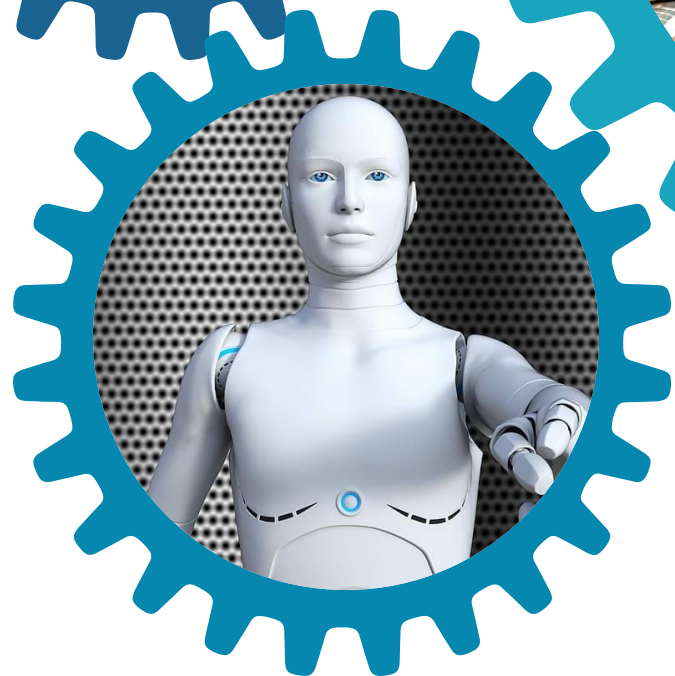
HUMANOID



ROBOT



COBOT



ANDROID

INDUSTRIAL



→ **SERVICE ROBOTS**

→ **PEPPER**

→ **EDUCATION**

→ **MEDICAL**

→ **INDUSTRIAL**

→ **ARMY**

→ **NASA**

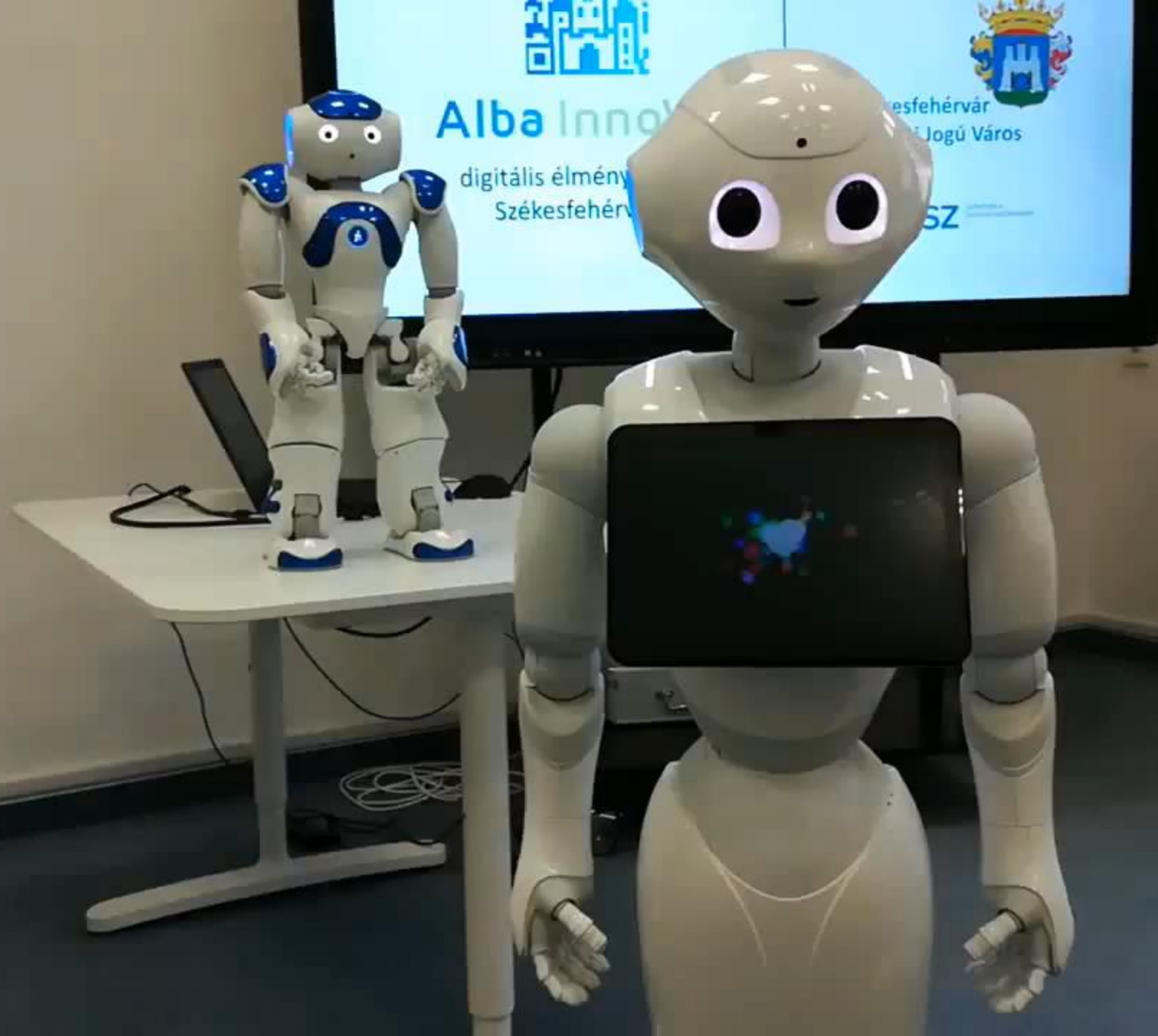


SERVICE ROBOTS

ROBIN

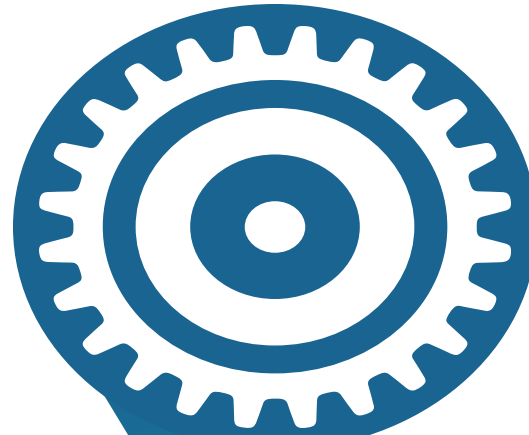
Robin is B+N's self-developed cleaning robot, which was launched last November and has been used in the Groupama Arena, Liszt Ferenc International Airport, B+N's document management centre in Páty, the MH Medical Centre, the Róbert Károly körút and Podmaniczky utca complexes of the Honvédkórház.



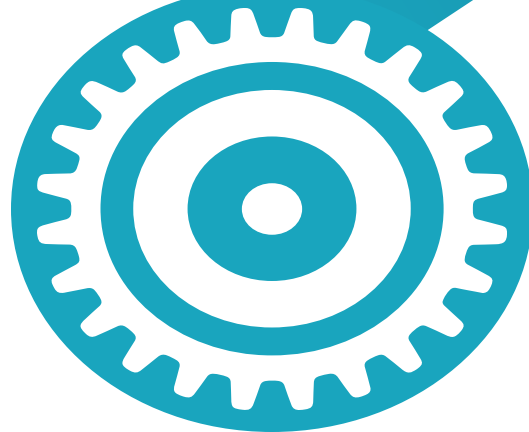




Pepper Chinese Restaurant - Győr



Pepper Enjoy Etele Plaza





ENJOY ROBOTICS - THE FIRST HUNGARIAN ROBOT FACTORY

EDUCATION

Lego Factory - East Hungary





MOBILITY Digital Experience Centre - Győr



Surgery-medicine

Da Vinci system

is not a real robot as it does not make independent decisions, does not think, but thanks to 5G technology, it can be operated on by a "remote surgeon."

Some Hungarian institutions with Da Vinci robots:

Semmelweis University, University of Pécs.

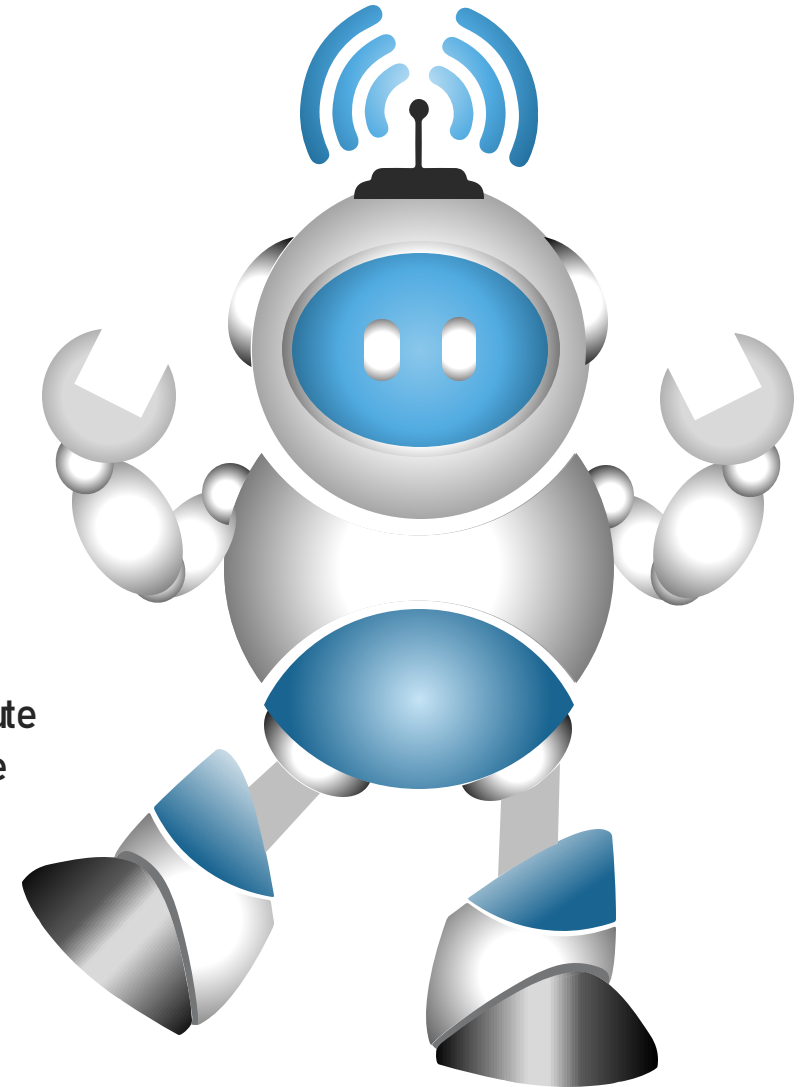
The first robotic surgery in Hungary

The surgical procedures at the National Institute of Oncology and the Urology Department of the Jahn Ferenc Hospital started in January 2022.

Another important robot ROSA

ROSA, one of the world's most advanced neurosurgical robots, was used to operate on a 70-year-old man with Parkinson's disease on 20.04.2018.

Nearly 1000
surgeries have been
performed by robots



Da Vinci robot

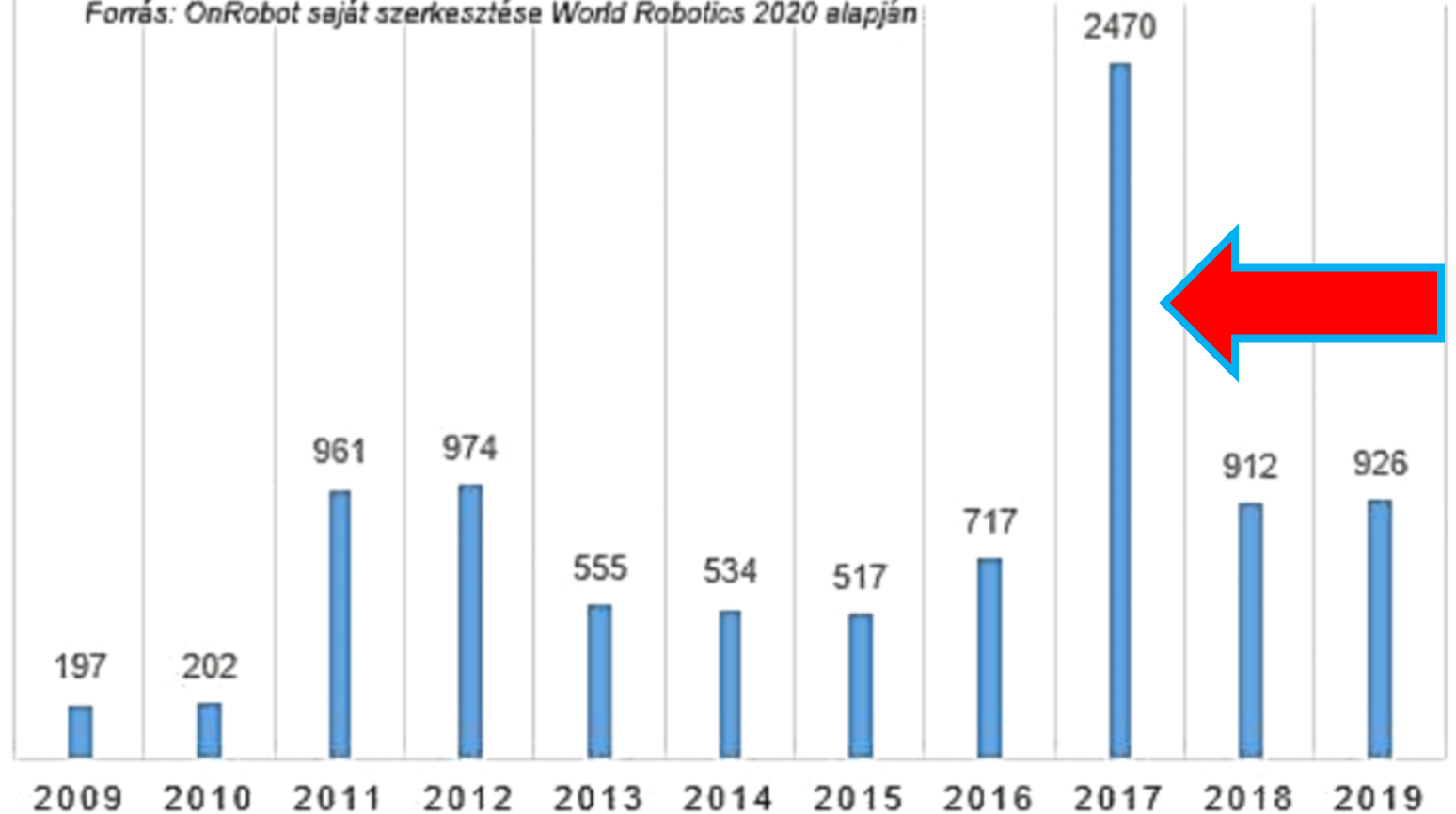


“ Maybe higher intelligence already exists, but everyone wants to think of it as human-like, so we don't realise it ”

Annual deployment of industrial robots-Hungary

Ipari robotok éves telepítése - Magyarország (darab)

Forrás: OnRobot saját szerkesztése World Robotics 2020 alapján



Industrial Robotics and Manufacturing in Hungary



1. Introduction:

- Industrial robotics and manufacturing play a crucial role in Hungary's economy.
- There is a growing trend of industrial robotics and robot manufacturing in the country

2. Application of Industrial Robotics:

- Industrial robots are used in various industries such as automotive, electronics, food, and pharmaceuticals.
- They perform tasks like material handling, welding, packaging, assembly, and quality control.

3. Manufacturing with Industrial Robotics:

- Several companies and factories in Hungary are engaged in the manufacturing and assembly of industrial robots.
- Robot manufacturing involves design, development, electronic assembly, and programming.



4. Economic Impact:

- Industrial robotics and manufacturing contribute to economic development and increased competitiveness.
- They lead to industry growth, creating new jobs and attracting investments to the country.

5. Government Support:

- The Hungarian government supports the field of industrial robotics and manufacturing through incentives, support programs, and research projects.
- The aim is to foster innovation and technological advancements in the sector.

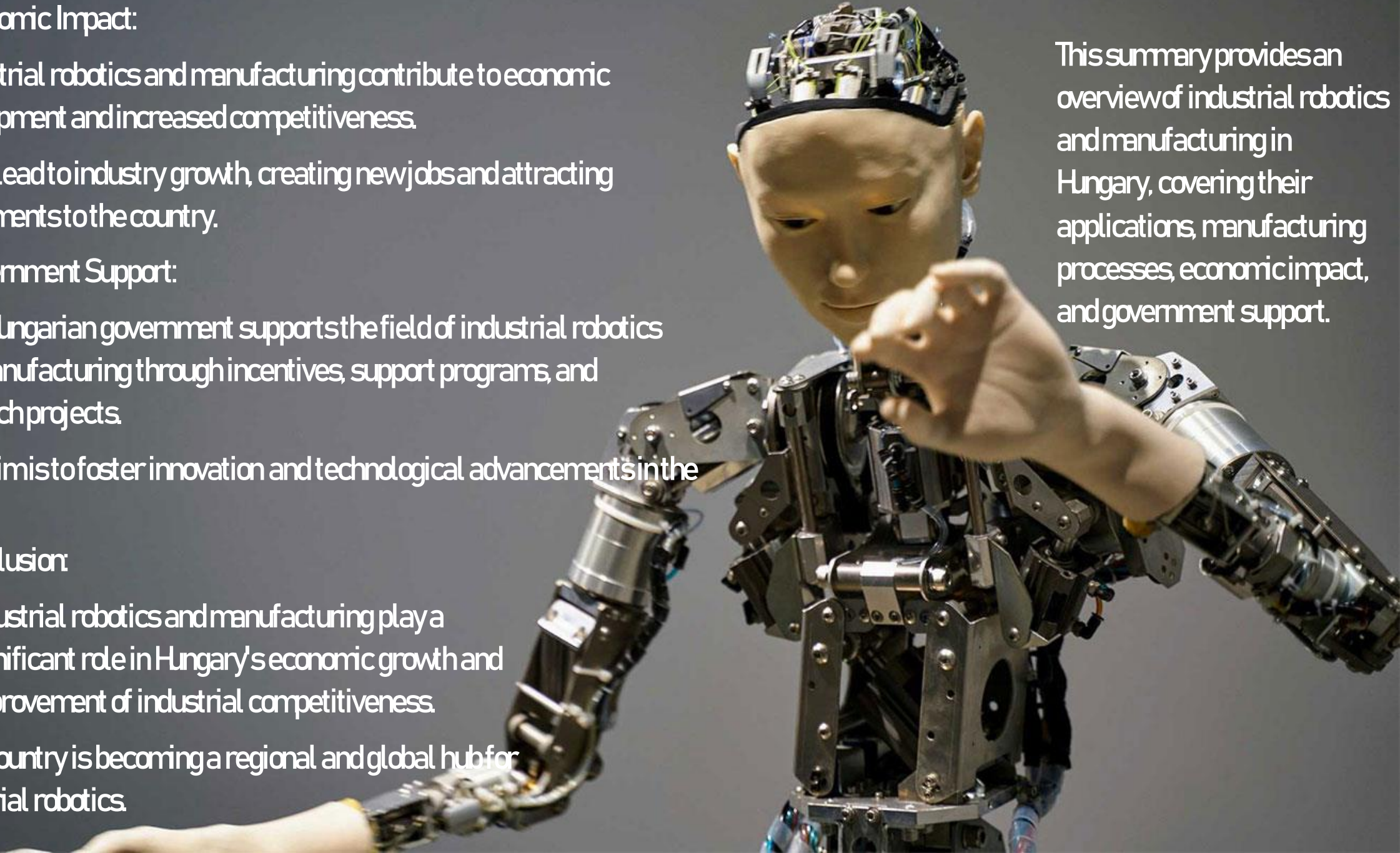


6. Conclusion:

- Industrial robotics and manufacturing play a significant role in Hungary's economic growth and improvement of industrial competitiveness.
- The country is becoming a regional and global hub for industrial robotics.



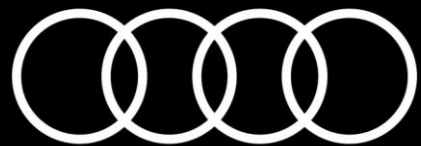
This summary provides an overview of industrial robotics and manufacturing in Hungary, covering their applications, manufacturing processes, economic impact, and government support.



MERCEDES - KECSKEMÉT

SUZUKI ESZTERGOM - SMART FACTORY PROJECT





Audi Hungaria

...from Győr to the world



AUDI - GYŐR

Robotics In The Hungarian Army

SO FAR (UAV)



**Performing
reconnaissance and
enemy elimination tasks
Serves in Afghanistan**

(under Hungarian flag)

**UAV : Unmanned Aerial
Vehicle**

Costs around 800,000

Euros (with crew training)



SEE

Andros F-6A
Reconnaissance
and bomb
disposal remote-
controlled robot.
Can be driven on
any surface
Costs around
70,00 Euros

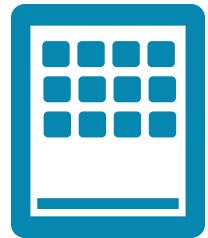


NASA Hungarian development

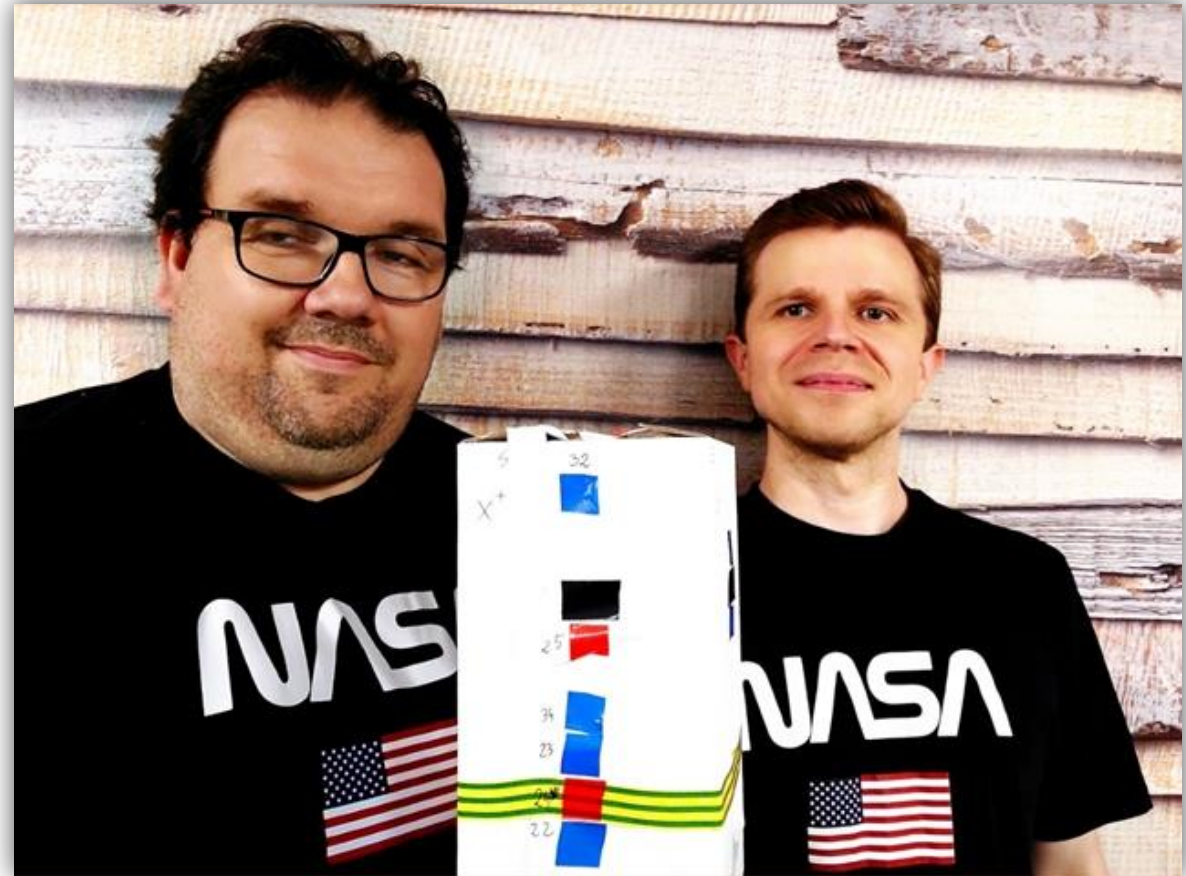
Dr. Ország-Krisz Axel and Dr. Vécsey Richárd
Ádám created a program that can predict the
strength and propagation of different effects on space
assets



The program calculates
impacts based on 28
different data points



The program was developed
in a competition. The
competition was won by
Hungarian developers



OnRobot - Hungarian developers design the latest robotic devices





Thank you for your attention.

Made by: György Roland Róbert, Gellért Domonkos, Kmetty Balázs, Porcz Balázs, Szabó Kadosa, Tóth Jázmin, Sója Viktória, Imre Krisztina