







Strategic Research Innovation Partnership Factories of the Future in Slovenia

Asst. prof. dr. Igor Kovač

Director SRIP FoF





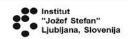


















Strategic Research Innovation Partnership (SRIP) Factories of the Future (FoF) in Slovenia





Collecting and linking Slovenian research and innovation know-how and experience in the industry and academia and highlight the priority breakthroughs of new products, technologies and services for global market on the field of FoF.



Enabling green transition of Slovenian industry towards *Industry 4.0*.

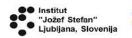


It is a link between <u>industry, research org. and others</u> and the <u>government</u>.

International research and business cooperation.





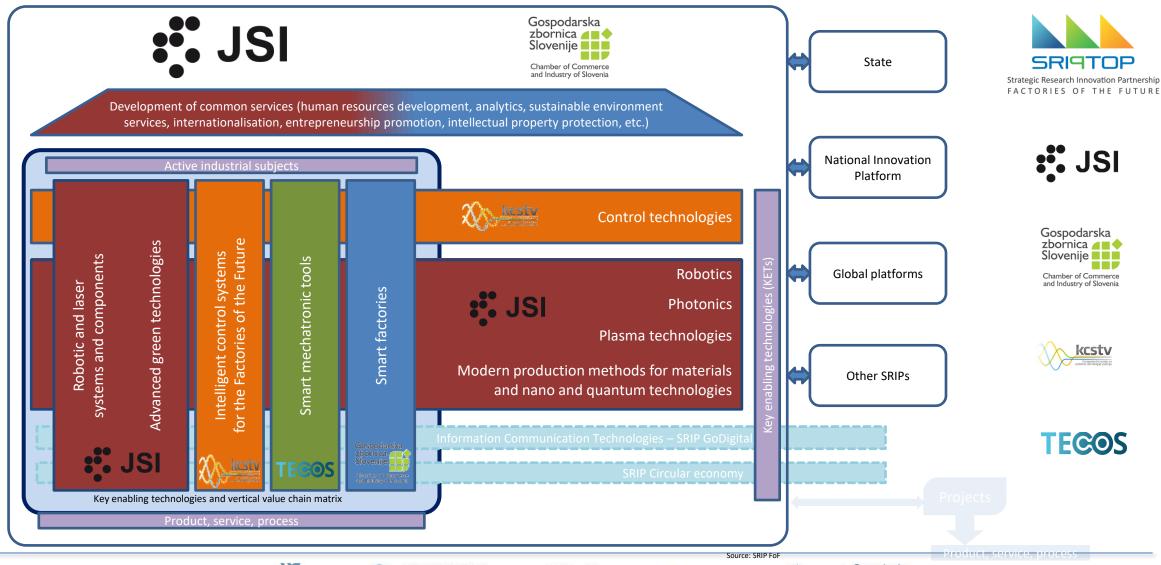






SRIP FoF – Organisational structure









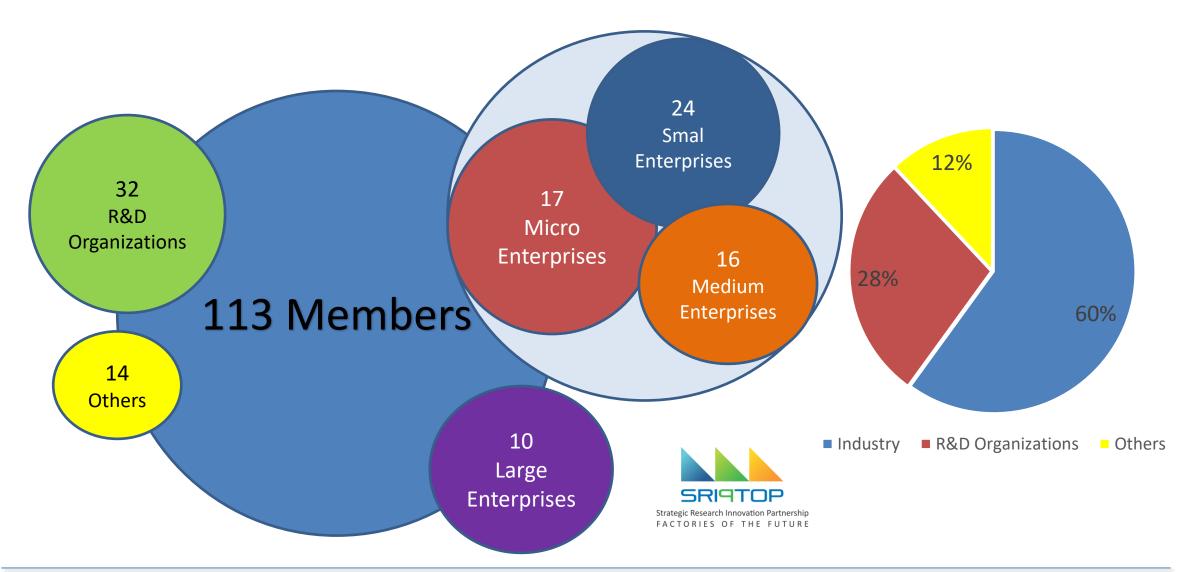






SRIP FoF: Membership

























Advances in Intelligent Robotics: Adaptive Systems, Al-Driven Machine Vision, and Industry Digitalisation

Asst. prof. dr. Igor Kovač

Coordinator for the KET Robotics in SRIP FoF







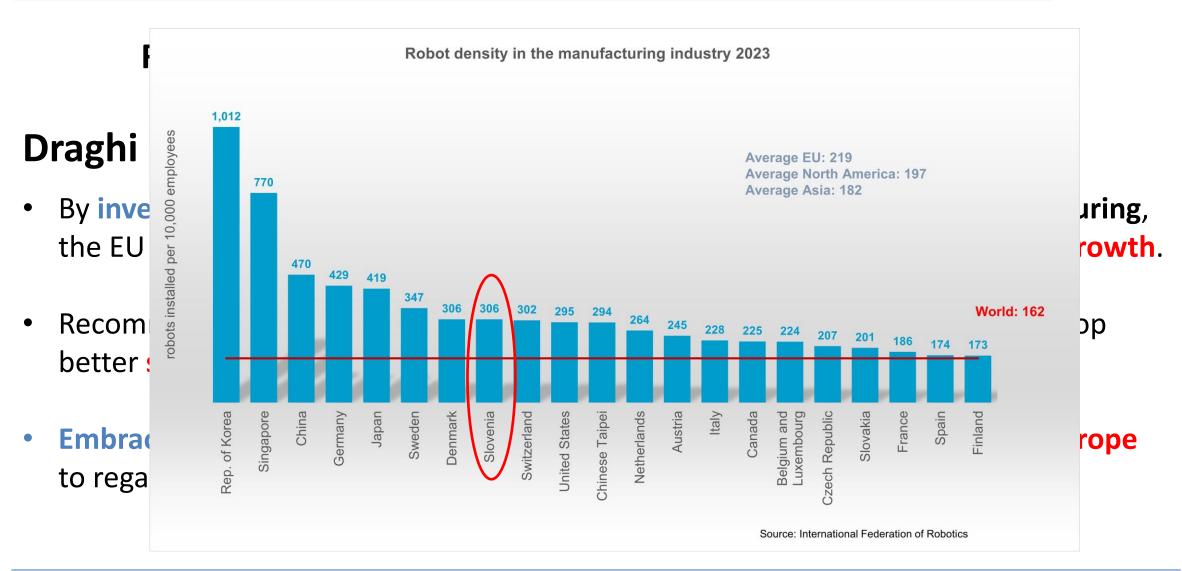






Robotics in Slovenia















Why is robotics a strong field in Slovenia?



- Slovenia is a highly industrialised country.
- Long, high-quality tradition in research and education, especially in robotics and manufacturing.
- Robot manufacturer (Yaskawa).
- Manufacturer of robot components (RLS Merilna tehnika, Podkrižnik,...).
- Robot integrators (more than 50 integration companies).
- Focus on the transfer of robotics to end users.





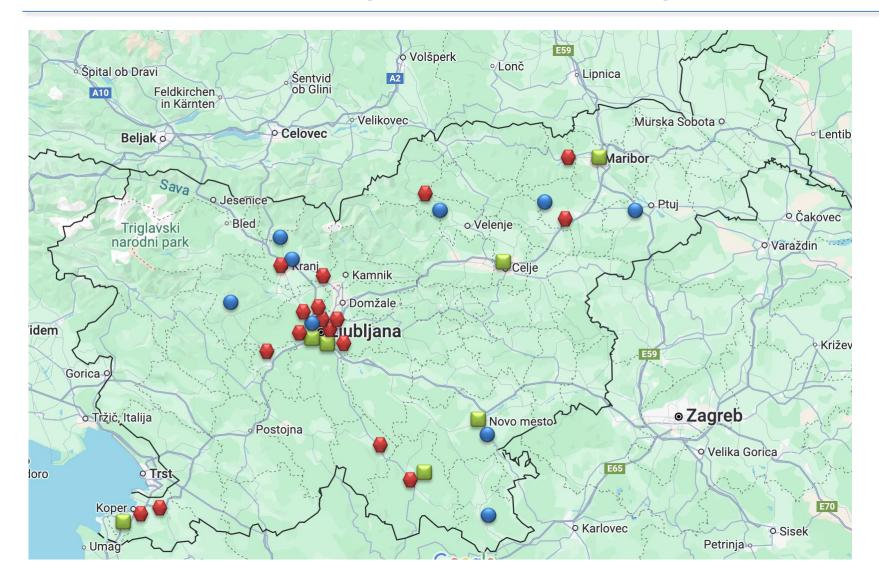






Robot technologies for the next generation industry





Cluster members:

- Robotics: research institutions (universities and institutes)
- Robotics: robot manufacturers, robot system and equipment suppliers
- End users (industrial production)







REPUBLIKA SLOVENIJA

RAZVOJ IN TEHNOLOGIJO

MINISTRSTVO ZA GOSPODARSKI









Research and innovation action plan of ROBOTICS in SLO

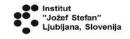


Research and development directions of robotics in SLO:

- Adaptive, reconfigurable, AI supported and collaborative robotic systems.
- Advanced AI robot vision and intelligent sensors.
- Advanced robotic components.
- Advanced robotic technologies and digitalization of industry.
- Education, workshops, exchange of good practices.
- Internationalization.











Highlights of Slovene Robotics - Conclusions



1. Presentation of Slovenia's Robotics Research and Innovation Action Plan

Showcasing Slovenia's niche excellence in robotics and its strategic contributions to EU research and innovation frameworks to get support also from EU institutions.



2. Influencing Policies, Directives, and Calls to Recognize Niche High-Tech Innovations

Advocating for EU regulations and funding programs to support cutting-edge Slovenian robotics technologies in connection with EU institutions in achieving market breakthroughs.



3. Strengthening International Cooperation

Enhancing partnerships to drive the implementation of Slovenian breakthrough robotics solutions through joint EU initiatives and implementation of other good practises.





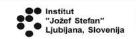










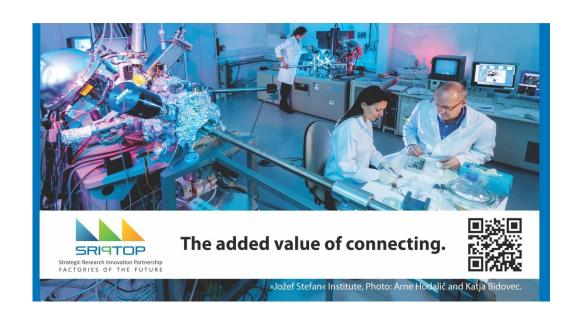






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