FEBRUARY 2022

SHARE 4.0

OUR OFFICIAL NEWSLETTER

START OF THE DIGITALIZATION PROJECT "SHARE 4.0

With this project, the project partnership is pursuing the goal of achieving a strategically sustainable and result-oriented cooperation of the key players for a Smart Industry Network, which is to be established in the Slovak and Austrian region (SK-AT) for all participating regions should be established.

This is to be achieved through the practicable, coordinated working basis in a cross-border governance model for research and innovation. Through exemplary pilot projects with high efficiency, this is tested directly in the project, with numerous decision-makers, multipliers and target groups from regional administration and politics, research and economy are involved.

The main results are (1.) close, practicable cooperation of institutions in the field of Research and Innovation on Industry 4.0, which is spread over the eight project partners and at least eight other organizations (decision-makers, target groups) in the SK-AT region which extend the work beyond the duration of the project; (2.) the targeted development and implementation of pilot projects with topics relevant to SK-AT e.g. robotics, sustainable production; and sustainable production; (3.) the consistent organizational anchoring, supported by the Strategy and Action Plan 2021 - 2027.

On the one hand, joint, cross-border products and services for the task area of research and innovation (e.g. coordination of research of research infrastructure), and on the other hand at least eight additional research institutions for cross-border, international, interregional research, transfer and innovation projects will be supported.

In addition, the project group in the SK-AT programme area are in a close cooperation with a large number of decision-makers from administration and politics (e.g. ministries in Austria and Slovakia), research and innovation facilities and the economy for an intensive and sustainable cooperation beyond the project duration. This will be implemented in the project a practicable governance model including working structures and working processes, so that the network is ready for future tasks of cooperation prepared for future tasks of cooperation.

In general, the outputs and project results in this cooperation network are operationally sustainable, strategic used and should be further developed after project end (e.g. working groups for SK-AT knowledge transfer and coordination of the research infrastructure).

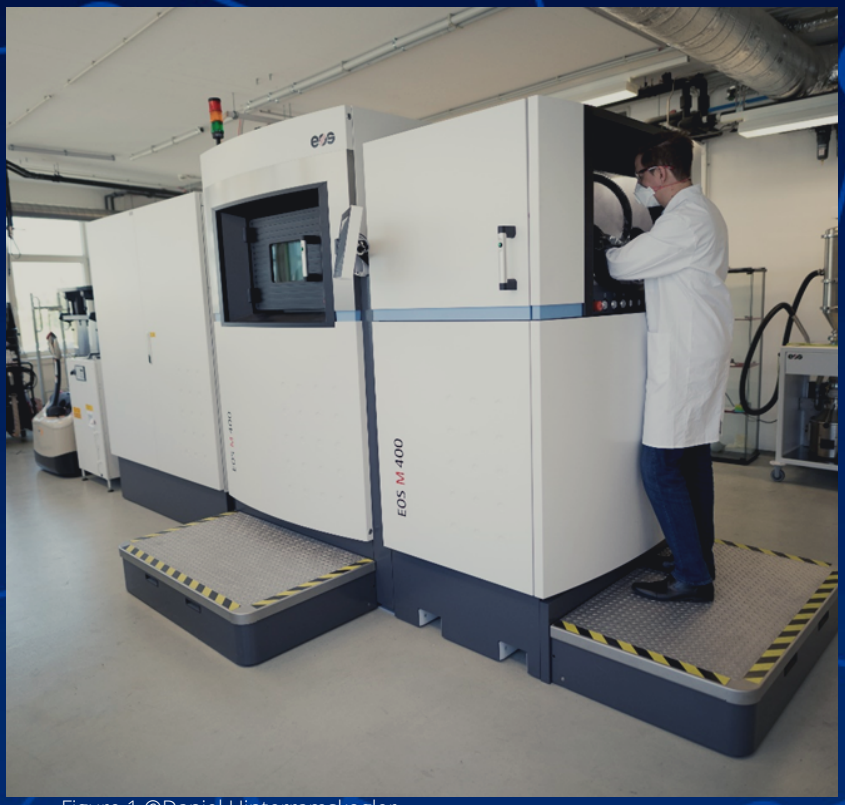

Figure 1 ©Daniel Hinterramskogler

SHARE4.0 WP3:

In the course of the Share4.0 project, specifically work package 3, a common working basis will be established and pilot projects will be realized. For this reason, a primary goal was to identify the competencies of the project partners. For this purpose, the IMSAS (Institute of Materials and Machine Mechanics) of the Slovak Academy of Sciences was visited and possible cooperation interfaces were discussed during an in-depth laboratory tour. It became apparent that extensive knowledge in the field of material and component analysis can be accessed. On the other hand, the facility owns a newly purchased LBM (laser beam melting) system, where FOTEC can again provide knowledge and experience. Combined with the vast experience in design and simulation in the field of additive manufacturing, FOTEC and IMSAS complement each other perfectly. Currently, both institutions are using their extensive network to acquire pilot projects that can be implemented with the help of the resulting cooperation. Due to the cooperation, projects that were not possible until now can be realized, since significantly more complex projects can be covered by the greater knowledge base. Currently, the exploration of possible options is taking place. A laboratory tour is also planned at FOTEC in the near future to discuss workflow optimization and traceability approaches to ensure component quality

KICK OFF MEETING SHARE4.0-19.7.2021

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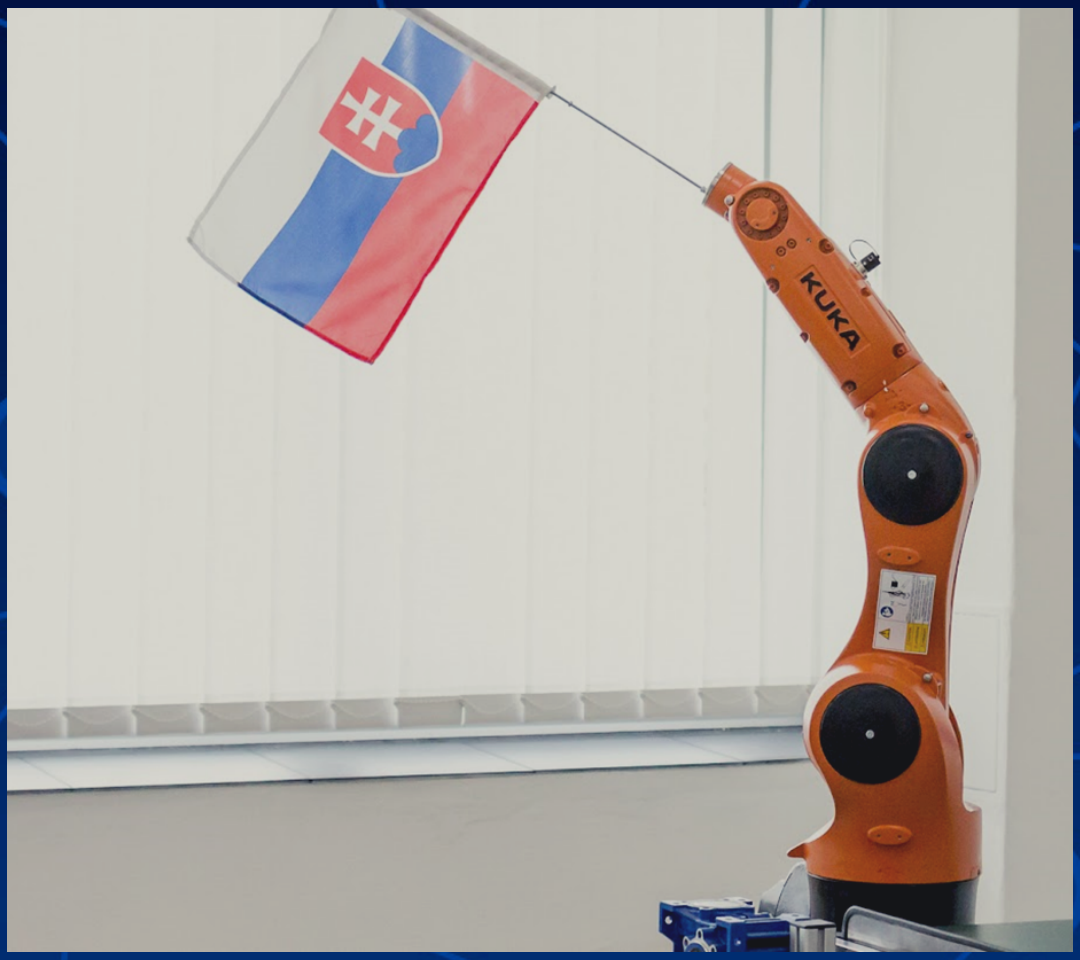

SHARE4.0 WP3:

National Centre of Robotics (NCR, Slovak Republic) is non-profit organization focused on research, support, and development of robotics in university and society-wide environment. The main role of NCR in the Share 4.0 project will be to contribute its expertise in robotics, cybernetics, and production digitization, as well as to use its network of contacts to implement ideas in pilot projects. Experts from NACERO will also be important in the task of creating the Strategic and Action Plan 2021-2027 for the Smart Industry Network SK-AT.

A short presentation of the project and innovations was currently organized under the leadership of the NCR during a major conference in Czech republic called Robotics 2022. The record of this short double-interview can be found here: https://youtu.be/XFhC_9ejacI?t=8056

The continuation of such information to the public about the results of the project will follow in April, during the part of the conference that will take place in classic form.