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SHARE 4.0

SHARE 4.0

E-BOOK



SHARE 4.0 WEBSITE

www.projectshare40.com

PHOTO SOURCES USED IN THIS DOCUMENT

University of Applied Science, Rawpixel.com - Freepik.com, Renate Medwed



ABOUT SHARE 4.0

The overall project goal of Share 4.0 SK-AT is to establish a strategically sustainable and result-oriented cooperation of the key players for a Smart Industry Network SK-AT of all participating regions.

This is achieved through a practicable, coordinated working basis in a cross-border governance model for research and innovation. This will be tested directly in the project through exemplary pilot projects with a high degree of effectiveness, involving numerous decision-makers, multipliers and target groups from administration and politics, research and business. The cooperation network will be anchored both organisationally and in terms of work (Memorandum of Understanding). Likewise, the outputs and project results will be efficiently and effectively further developed through the Strategy and Action Plan 2021-2027 in Work Package 4 and used beyond the end of the project.

The foundations for sustainable cooperation (output 1: working basis for the Smart Industry Network SK-AT) are already laid in work package 3, which will be deepened and further developed through the two outputs of work package 4 (Strategy and Action Plan 2021-2027 and Memorandum of Understanding).

These outputs will enable efficient and effective cooperation between the relevant decision-makers and multipliers for Industrie 4.0 and anchor it substantially and permanently. The results of the pilot projects (output 2, work package 3) will also be used repeatedly and will flow into future planning.

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

The sufficient number of activated competent partners in the Smart Industry Network SK-AT and the involved target groups not only ensure a targeted use of the outputs of the project - agreed and stipulated in the plan until 2027 - but also support the economic sustainability of the results. This is also supported by the strategic European partnerships developed in the project. In general, the outputs and project results are used and further developed in this cooperation network, operationally and strategically (e.g. working groups for SK-AT knowledge transfer, sharing and coordination of research infrastructure).

The Project Partners of SHARE 4.0:



PROJECT MAIN OUTCOMES

- A close, practicable cooperation of institutions in the task field of research and innovation on Industry 4.0, which relates to the 8 project partners and at least another 8 organisations (decision-makers, target groups) in the SK-AT region and extends beyond the project duration
- The targeted development and implementation of pilot projects with topics relevant to SK-AT, such as. Robotics, Sustainable Production
- The consistent organisational anchoring supported by the Strategy and Action Plan 2021-2027. This will, on the one hand, develop joint, cross-border products and services for the task area of research and innovation (e.g. coordination of research infrastructure) and, on the other hand, support at least 8 additional research institutions for cross-border, international, interregional research, transfer and innovation projects.



WORKPACKAGES

01

Management

02

Communication

03

Work base and pilot projects for the Smart Industry Network SK-AT

04

Project anchoring and sustainability of the Smart Industry Network SK-AT





01

Management



The Lead Partner Industrie 4.0. coordinates the implementation of the project with the help of efficient project management to ensure that the project was implemented jointly and across borders in accordance with the application. The basis for the management was the project application, the partnership agreement and the ERDF contract.

At the beginning of the project, during the kick-off meeting of the project partners, the management structures (responsibilities, procedures, communication within the partnership, etc.) were defined and compiled in the form of a management guide (activity 1).

Activity 2 was about managing the project work through regular partner meetings (coordination within the partnership), but also ongoing contact with First Level Control and the Joint Secretariat. Activity 2 also included project monitoring with reporting by the partners to the respective First Level Control or by the Lead Partner to the programme authority.

In order to ensure high-quality project implementation, a quality and risk management system was also installed. Through the continuous monitoring of project implementation and control of project results at the project partner meetings and through the partner reports, possible risks were explored, discussed and thus minimized (activity 3). In the course of the partners' reporting (see Activity 2), the partners' financial reports were also compiled and consolidated, and in this way the financial status of the project is communicated now to the SG (Activity 4).



MANAGEMENT ACHIEVEMENTS

- Defining the management structures
- Control of project work and monitoring
- Risk and quality management
- Budget management

PROJECT DATA

Akronym

SHARE 4.0

Budget

779.985,97 €

Project Duration

01/04/2021 - 30/11/2022

Programme 2014 - 2020

Interreg Slovakia-Austria, European Union



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European Regional Development Fund



www.sk-at.eu

MANAGEMENT ACTIVITIES

The Lead Partner, as the person responsible for the project management, has defined the management structures together with the project partners and developed management tools to ensure a smooth project process throughout the entire project duration. The partners maintained contact with each other, with their respective First Level Controls and the Lead Partner with the Programme Authority. The lead partner organised together with the respective responsible partners the kick-off meeting as well as five further project partner meetings, in which the next activities were planned or a control of the tasks has been carried out.

An essential factor for high-quality project implementation is a functioning quality and risk management system. As part of this activity, a management group was set up, consisting of one representative from each of the partner organisations (Steering Committee). Their task was to monitor the quality of the processing and results in cooperation with the lead partner.

In a first step, a concept for the work processes and structures of quality and risk management was developed and then the management group prepared a report on quality and risk management in the project for each reporting period.

Due to Corona restrictions, some partner meetings as well as steering committee meetings were held online through MS Teams.

All reports and administrative documents are available for further insights in the archives of the project partners.

KICK OFF MEETING OF SHARE 4.0

The project Share 4.0 had his successfull Kick off Meeting on the 19th of July in Bratislava, Slovakia. During the meeting, 8 partners from Austria and Slovakia had a chance to get to know each other and to discuss on important questions about future cooperation.

On the kick off meeting, the partners agreed on strategic questions regarding the project management activities.

On the kick off were discussed main challenges addressed by the project – How to best support the digital transformation of SMEs in both regions, cross-border co-operation of R&D institutions., exchange of experience between the Plattform 4.0 Österreich and relevant bodies in Slovakia, establishing functioning partnerships in the domain of digitalization of industry.



**SHARE 4.0 Presentation at the
Kick off Partner Meeting in
Bratislava**

MID-TERM DEVELOPMENT OF SHARE 4.0 TOPICS

During a meeting in Bratislava, the SHARE 4.0 consortium discussed about the mid-term strategy of Industry 4.0 in Slovakia and Austria. There was a broad consensus that the continuation activities of SHARE 4.0 should be anchored in various light-tower projects, among these the European Digital Innovation Hub (E-DIH) initiative, activities via the EIT-Manufacturing with the CLC East management based in Vienna and activities in Bratislava as well as the GAIA-X initiative.

In both countries a national GAIA-X Hub is already established and there was a first meeting in Vienna in July 2022 that was the start of closer cooperations between the two Hubs.



Fotocredit: Renate Medwed

Labeling of the photo from left to right:

Andrej Bolfek, Attorney at Law (Croatia), Flavio Fuart (SI, Gospodarska zbornica Slovenije, Gaia-X Hub Slovenia), Mario Drobics (AT, AIT, Gaia-X Austria), Brigitte Lutz (AT, Stadt Wien, Gaia-X Hub Austria), Helmut Leopold (AT, AIT, Gaia-X Hub Austria), Martina Malakova (SK, Industry Innovation Cluster, Gaia-X Hub Slovakia), , Tobias Höllwarth (AT, EuroCloud, Gaia-X Hub Austria),, Henriette Bauer (DE/RS, Think Innovative Niš), Roland Sommer (AT, Plattform Industrie 4. 0, Gaia-X Hub Austria), Gábor Érdi-Krausz (HU, Sztaki, Gaia-X Hub Hungary)

02

Communication

The communication strategy refers both to its regulation and types of communication within the partnership, as well as to the external communication with the target groups. A media list of strategic media partners to be established enables each project partner to disseminate the developed project results in their programme area.

Through public events like the SHARE ENOVA session in Pinkafeld, representatives of the target groups and stakeholders were actively involved in the project in order to get to know the project and to explore and initiate cooperation opportunities. These opportunities also served the general dissemination of the project goals and contents and opened up the possibility of further cooperation (also beyond the end of the project). Press releases were issued at each of these events in order to make the project contents known to a broad public.

The project partnership has focused its digital activities on a bilingual project website, the sending of newsletters and the production of an e-book. The project website serves as a communication tool to present contents and results to the target groups and an interested public. It is and will be continuously updated with the latest results. This interactive e-book serves as a project brochure and contains all relevant information on the project and its results.



COMMUNICATION ACHIEVEMENTS

- Project communication strategy
- Joint media list of strategically relevant media partners
- Major events (10/2021 in Eisenstadt, 04/2022 in Bratislava, 10/2022 in Vienna)
- Press releases to relevant media in connection with the major events
- Posters, Roll-up posters
- Project website
- Newsletter mailings, i.e. one mailing per reporting period
- E-book

PROJECT LOGO

SHARE **4.0**

MAIN RESULTS

- start-up activities
- public events with press releases
- promotional material
- digital information products

DEVELOPMENT OF A CORPORATE IDENTITY - EXAMPLE ROLLUP



SHARE **4.0**



PROJEKT BUDGET/ROZPOČET PROJEKTU
€ 779.985,97

EFRE-FINANZIERUNG/FINANCOVANIE Z EFRR
€ 703.987,55

PROJEKTDAUER/TRVANIE PROJEKTU
04/2021-11/2022

CORPORATE IDENTITY EXAMPLE PROJECT WEBSITE



SHARE 4.0

ARBEITSPAKETE PROJEKTPARTNER KONTAKT

DE SK

SHARE 4.0

Share 4.0 SK-AT verfolgt als übergeordnetes Projektziel, eine strategisch nachhaltige und ergebnisorientierte Kooperation der Schlüsselakteure für ein Smart Industry Network SK-AT aller beteiligten Regionen zu etablieren.

Dies erfolgt durch die praktikable, abgestimmte Arbeitsbasis in einem grenzüberschreitenden Governance Modell für Forschung und Innovation. Durch beispielhafte Pilotprojekte mit hohem Wirkungsgrad wird dies im Projekt unmittelbar getestet, wobei zahlreiche Entscheidungsträger, Multiplikatoren und Zielgruppen aus Verwaltung und Politik, Forschung und Wirtschaft involviert werden. Das Kooperationsnetzwerk wird sowohl organisatorisch und arbeitsmäßig verankert (Memorandum of Understanding). Ebenso werden die Outputs und Projektergebnisse durch den Strategie- und Aktionsplan 2021-2027 im Arbeitspaket 4 effizient und effektiv weiterentwickelt und über das Projektende hinaus genutzt.

Die Hauptresultate sind eine (1) enge, praktikable Kooperation von Institutionen im Aufgabenfeld Forschung und Innovation zu Industrie 4.0, die sich auf die 8 Projektpartner und mindestens weitere 8 Organisationen (Entscheidungsträger, Zielgruppen) in der SK-AT-Region bezieht sowie über die Projektlaufzeit hinausgeht; (2) das gezielte Entwickeln und Umsetzen von Pilotprojekten mit für SK-AT relevanten Themen wie z.B. Robotik, Nachhaltige Produktion; (3) die konsequente organisatorische Verankerung unterstützt durch den Strategie- und Aktionsplan 2021-2027. Dadurch werden einerseits gemeinsame, grenzüberschreitende Produkte und Dienstleistungen für das Aufgabenfeld Forschung und Innovation entwickelt (z.B. Koordination von Forschungsinfrastruktur), und andererseits mindestens 8 zusätzliche Forschungsinstitutionen für grenzüberschreitende, internationale, interregionale Forschungs-, Transfer- und Innovationsprojekte unterstützt.

IMPRESSUM
DATENSCHUTZ

NEWSLETTER ABBONIEREN

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PUBLIC EVENT AND PRESS RELEASES: DIGITALIZATION PROJECT "SHARE 4.0" AT ENOVA 2022

On 1.6.2022, as part of the annual ENOVA in Pinkafeld, the more emerging topic of digitization was discussed and presented by several experts.

This time at ENOVA, Research Burgenland was represented with the topic "Digitalization – Best Practices and Innovations for Industrial Production" as part of the SK-AT project "SHARE 4.0" and the AT-HU project "IMPROVE".

In addition to robotics innovations for industrial production, the impact of digitalization on the green transition was presented and discussed. Research Burgenland presented the highly regarded topic of eye tracking.



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Burgenland

Eye tracking is used to analyze the visual attention of test subjects when reviewing websites/apps. This makes it possible to find out which areas are viewed more/less intensively. For this purpose, eye-tracking glasses are put on the participants of a study, which can analyze the gaze patterns of the participants. The method can be used in many ways, as it can be used to evaluate not only marketing materials, but also many other topics in which eye movements play a role.

The project is dedicated to the growing challenges of digitization for companies in all sectors. These challenges can only be met through a structured, systematic approach.

Approaches are dedicated to this topic and sought to support small and medium-sized enterprises in the Austria/Slovakian border region in their digitization projects.



Slovak-Austrian presenters team on the topic of digitization in the border area SK-AT, Copyright University of Applied Sciences Burgenland

The goal for the future and also after projects end is to network organizations on both sides of the border that are committed to the digital transformation. This should enable an exchange of knowledge and cross-border interaction between the various organizations.

With the project "SHARE 4.0", the project partnership pursued as an overarching goal, a strategically sustainable and result-oriented cooperation of key players for a Smart Industry Network, which has been established in the Slovak and Austrian area (SK-AT) for all participating regions.

This has been tested directly in the project through exemplary pilot projects with a high degree of effectiveness, involving numerous decision-makers, multipliers and target groups from the regional border area (SK - AT), administration and politics, research and business.

The cooperation network was anchored both organizationally and in terms of work with the regional decision-makers, which should also ensure sustainability.

03

Working base and pilot projects for the Smart Industry Network SK-AT



The aim of the work package is to establish a permanently usable working basis for efficient and effective cooperation between the key actors for research and innovation in SK-AT, with a focus on joint working structures, processes for stakeholder involvement, measures for knowledge and technology transfer, etc. The work package also aims to promote the immediate implementation of exemplary pilot projects with a high degree of effectiveness in two selected fields of work (industrial assistance systems and sustainable production systems). Immediate implementation of exemplary pilot projects with a high degree of effectiveness in two selected fields of work (industrial assistance systems and resilient, sustainable production systems) will also be promoted.



The work package will consistently work on concrete, high-quality implementation results (e.g. knowledge transfer for new technologies, utilisation of field-tested solutions, use of joint research infrastructures). In addition, a group of target groups and decision-makers relevant to SK-AT is included. Both also serve sustainable utilisation and project anchoring.

To ensure a high quality of implementation, tried and tested examples of success from SC-AT and the EU are analysed and coordination with complementary and synergetic projects takes place.

All project partners make significant contributions to the development, implementation and anchoring. The two main responsible persons coordinate this for the fields of work, internally and across the board.

WORKING BASE AND PILOT PROJECTS FOR THE SMART INDUSTRY NETWORK SK-AT

ACHIEVEMENTS

- Criteria catalog for processing industrial assistance systems
- Criteria catalog for processing resilient and sustainable production systems
- Concepts for the implementation of cross-border pilot project activities
- Field reports of the implemented pilot projects
- Workshops with target groups and decision makers
- Workshops with examples in view of the new programs such as Green Deal, Recovery Fund
- Concept for a utilization plan of pilot projects for the strategy and action plan 2021-2027
- Working group for enhancing cross border collaboration and development of MMAssist II
- Report on recently completed and current opportunities related to other European initiatives
- Collected use cases of applied data driven business models and research projects in the domain of optimization of production and logistics and energy and resource efficiency

MAIN RESULTS

- 1 work basis / organization manual
- 2 pilot projects

COMMON DEVELOPMENT WP 3

In the course of the Share 4.0 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 again provided knowledge and experience.

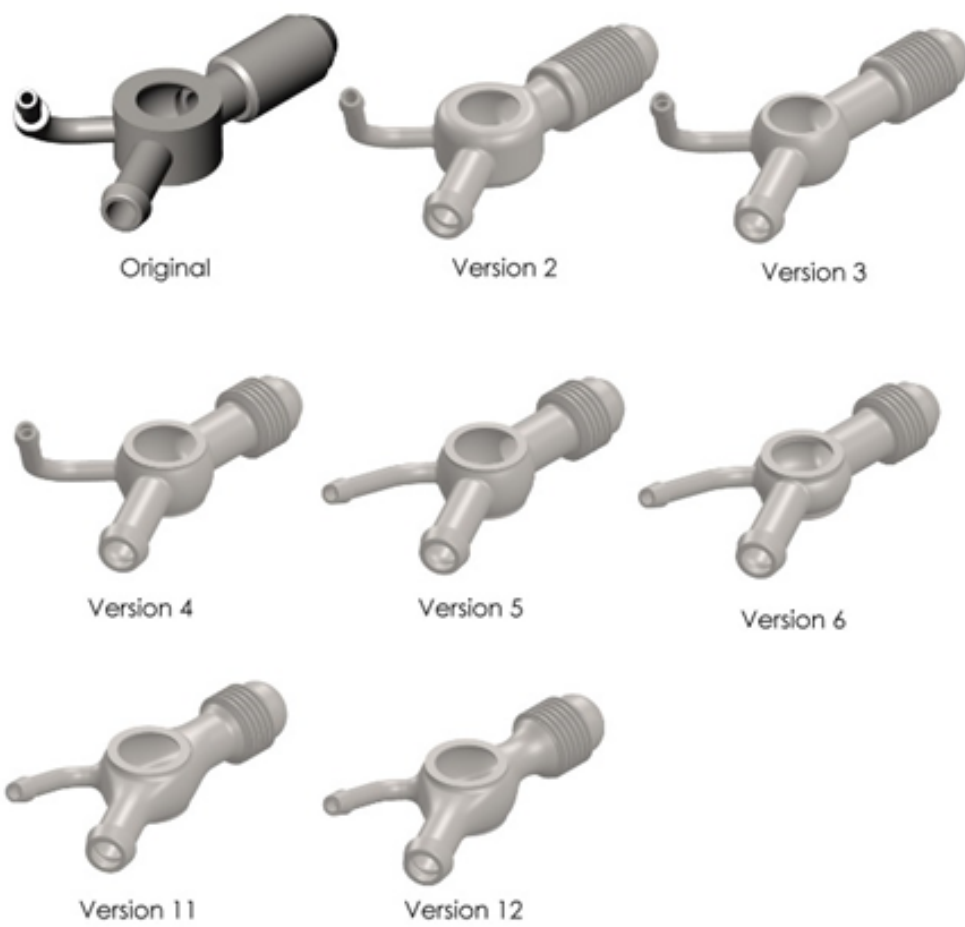
Combined with the vast experience in design and simulation in the field of additive manufacturing, FOTEC and IMSAS complement each other perfectly. Both institutions used their extensive network to acquire pilot projects that can be implemented with the help of the resulting cooperation. Due to the cooperation, projects can be realized that were not possible until now, since significantly more complex projects can be covered by the greater knowledge base.

A laboratory tour was also organized at FOTEC, where discussions were held about workflow optimization and trace ability approaches to ensure component quality.

The exploration of possible options will also take place after project end.



- V1: Constructive implementation
- V2: mass and weight
- V3: thread length
- V4: sealing and tightness
- V5: side arm optimization
- V6: rework of functional surfaces
- V7/V8: simulations and optimizations
- V9-V12: finding and optimizing the ideal design



PILOT ACTION - RESILIENT, SUSTAINABLE PRODUCTION SYSTEMS

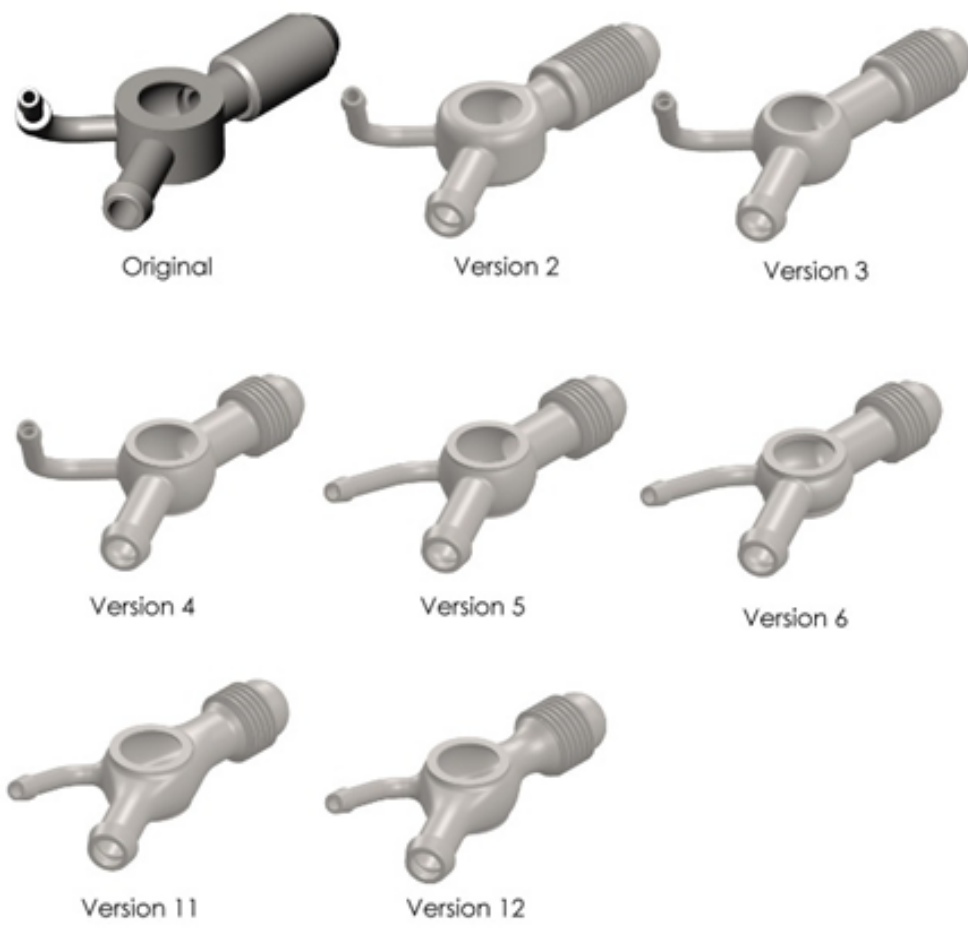
The test component is a fuel rail from a rocket engine. Currently, it is an assembly of five individual parts that are welded manually due to the small number of pieces. For certification as a critical aerospace component, each weld must be inspected manually to ensure proper function.

In order to create a criteria catalog for laser beam melting, the benefits of additive manufacturing for the component were first investigated.

It turns out that both, a significantly lighter construction method and a monolithic design, can be applied. At the beginning, the component was digitized, since no complete assembly model was available.

The next step is to analyze which conditions and substances the component is exposed to. The original component is made of a chrome-nickel alloy, as this is corrosion-resistant and can be easily joined using the TIG welding process. Several analyses have shown that the titanium alloy Ti6Al4V, which is widely used in additive manufacturing, has sufficient resistance.

In addition, it has the advantage that the physical density is significantly lower than that of the starting material, which means that significant mass savings can be achieved by using this alloy.

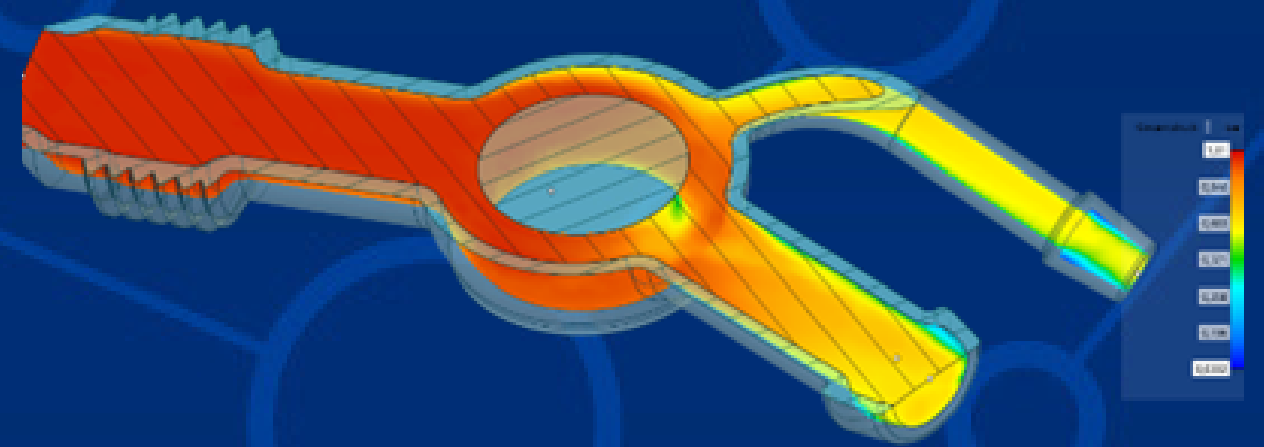


- V1: Constructive implementation
- V2: mass and weight
- V3: thread length
- V4: sealing and tightness
- V5: side arm optimization
- V6: rework of functional surfaces
- V7/V8: simulations and optimizations
- V9-V12: finding and optimizing the ideal design

Starting from version 6, the component was optimized in several iteration steps with the aid of the simulation results. Version 8 and the final version are given as examples, since the intermediate versions differ only marginally.

At the same inlet pressure of 1 bar, the outlet pressure at port A is reduced significantly less to 0.69 bar. Likewise, the propellant escapes at port B at a much higher pressure, namely 0.64 bar. This is almost double the pressure of the original part.

In Version 8, there is still a zone in the large bore where the pressure is noticeably lower. This area will be given increased attention in the next optimization steps. In addition, the pressure difference between the inlet and the two outlets is to be further reduced.





04

Project anchoring and sustainability of the Smart Industry Network SK-AT



The aim of the work package is to sustainably anchor the outputs and project results of the Smart Industry Network SK-AT. This is done on the one hand through the strategy and action plan and on the other hand by setting down the target agreement on the organisation, rules of the game and cooperation methodology (Memorandum of Understanding, MoU) of the network beyond the end of the project.

In the work package, work is consistently carried out on the efficient and effective utilisation of the project results. In particular, a sufficient number of qualified actors for research and innovation from SK-AT and the EU (e.g. technology platforms, lead projects, European Digital Innovation Hubs) will be activated to agree on joint methodologies (operational and strategic) in a multi-year context for Industry 4.0. This is supported by peer reviews for impact controlling and quality assurance.

PP1/SIEA is responsible for coordinating this work package and also for anchoring the core output "Strategy and Action Plan 2021-2027" including the corresponding activities and the detailed outputs, as well as for the associated activity "Networking the fields of action with strategic initiatives". LP/PIA is responsible for all areas (output, activity, result) of the Memorandum of Understanding for the Smart Industry Network SK-AT and additionally for the activity "Managing the accompanying learning-oriented peer reviews". All project partners make significant contributions to the development, implementation and anchoring. The two main persons responsible also coordinate this across the board for the entire work package 4.

Because of the current pandemic, the partners' already tested knowledge for digital applications is also being used consistently.

PROJECT ANCHORING AND SUSTAINABILITY OF THE SMART INDUSTRY NETWORK SK-AT

ACHIEVEMENTS

- Criteria catalog for the selection of strategic initiatives and flagship projects
- Catalog of collaboration mechanisms and opportunities
- Examples with a high operational and strategic impact for the SK-AT region (i.e. Digital Innovation Hubs (DIH), etc.)
- Process model concept for peer reviews with decision makers and the strategic partners
- Workshops for the project partners with the peer reviewers
- Final report of peer reviews including recommendations for sustainable project anchoring
- Strategy plan based on the interconnections with regional, national and European strategic initiatives
- Action plan capitalizing and utilizing the results of the pilot projects
- Roll-out concept
- Memorandum of Understanding
- Events with programs relevant to the Share 4.0 network and region (e.g., Green Deal, Recovery Fund, etc.)
- Annual strategy updates and a concrete implementation roadmap

MAIN RESULTS

- Strategy and action plan 2021-2027
- Memorandum of Understanding

STRATEGY PLAN 2021 - 2027

Creating the common working basis for the Smart Industry Network SK-AT.

Optimising the cooperation of the key players for research and innovation for Industry 4.0 (focal points: Industrial Assistance Systems, Resilient Sustainable Production Systems) requires a common working basis. Only in this way can the high complexity of the tasks in these specialist areas and the large number of actors in the SK-AT cooperation area as well as in the European context be coordinated in a targeted and sustainable manner. With the common working methodology, more resources can be used and bundled for common tasks. This fundamentally increases the efficiency and effectiveness of the collaborations for research and innovation and also ensures sustainable use and anchoring beyond the end of the project.

Develop and define the Strategy and Action Plan 2021-2027 for the Smart Industry Network SK-AT.

A strategy and action plan 2021-2027 for research and innovation in the SKAT cooperation area will be developed for action-oriented future planning, combining high quality standards with practicability. This is done by involving a large number of actors from the target groups and European partners. The strategy and action plan is designed, developed, implemented, anchored and documented for repeatable applications on the basis of the two fields of work (industrial assistance systems and resilient, sustainable production systems). In a first step, the plan serves in particular for a long-term strategic anchoring of the pilot projects from work package 3 and their further development after the end of the project. The developed methodology serves to transfer this to other thematic fields of the key actors in the SK-AT cooperation area. For the development of the Strategy and Action Plan 2021-2027, the experience of several years of existing planning work by strategic partners will be used. Furthermore, cooperation will take place with the identified expert networks and lead projects (e.g. CEUP 2030, Central Europe, Trend & Innovation Network: Robotics, cross-programme planning for Industry 4.0). The development of the Strategy and Action Plan 2021-2027 is carried out through research, workshops (digital, physical) and strategic meetings.

STRATEGY PLAN 2021 - 2027

Bridges are being built along neighbouring Interreg cooperation areas for the strategic further development of the SHARE 4.0 development work. Thus, a stable development and innovation corridor is gradually created.

Cooperation area 1:

The bridge for the cooperation areas Bavaria-CZ and Bavaria-AT is built through the neighbouring Interreg area AT-CZ. Here, project twins are found for assistance systems as well as for resilient, sustainable production.

Cooperation area 2:

Here, the Interreg area Upper Rhine with regions from Germany, Switzerland and France is examined more closely. However, this is done in cooperation with the neighbouring Interreg region ABH (Alpenraum-Bodensee-Hochrhein).

Cooperation area 3:

This cooperation axis is pushed insofar as the proximity to the headquarters is also sought by the European programmes. The Interreg cooperation regions are: CRL Greater Region Luxembourg (4 countries), the trilateral Euregio Meuse-Rhine and the Interreg area Germany-Netherlands, especially with its large-scale projects.

In all cooperation areas, contributions to the methodology, for the strategy and the action plan are identified, which are useful for the Interreg area SK-AT.

STRATEGY PLAN 2021 - 2027

SHARE 4.0 Strategy Plan Verdict

For upgrading and consistent use of national and European knowledge for the SK-AT cooperation area, strategic partners and regions (more than 30 regions in 9 countries) and their innovative eco-systems were identified.

For a strategic further development of the SHARE4.0 development work, bridges are built along 8 Interreg cooperation areas. On the one hand, this will create a critical mass of qualified strategic partners and regions, and on the other hand, a stable, permanently usable development and innovation corridor will be successively shaped and used together.

To this end, the traditional and new funding instruments of the EU period 2021-2027 are to be applied in innovative forms. These are in particular transnational cooperations of ESIF projects including Recovery Fund/NGE Next Generation EU, twinings of Interreg projects (cross-border, transnational) and networks of strategic lead projects from Horizon Europe and complementary research programmes.

In this way, both timely results (quick wins) and strategic flagships are developed and implemented and anchored in a cooperation network.

Basically, the entire range of actors in the innovative eco-systems are necessary to meet the challenges of the digital transformation (industrial assistance systems) or sustainable development (resilient production). The broad involvement of the actors ensures the necessary push and support of committed organisations as well as continuous promotion and funding.

ACTION PLAN 2021 - 2027

Action Plan Methodology

Strategic partners and regions as well as their innovative ecosystems were activated for upgrading and consistent use of national and European knowledge for the SK-AT cooperation area.

Thus, 8 cross-border Interreg regions (partly trilateral, multi-lateral) were addressed. These include more than 30 regions in 9 countries (Austria, Czech Republic, Germany, Switzerland, Liechtenstein, France, Luxembourg, Belgium, Netherlands). In a transnational, macro-regional context, the Interreg areas Central Europe, Alpine Space, North-West Europe as well as Baltic Sea Region via partner networks of the North German partners can be used.

In particular, the following is directly applicable to SHARE4.0 and has been strategically prepared for the long term:

Contribution to the methodology:

for a consistently usable cross-border governance model SK-AT, some lessons learned are to be used by the addressed actors. This concerns the entire triple helix system (politics/administration, research/education, economy).

- Design, test and roll-out transfer and cooperation mechanisms to benefit the use cases from the partner regions;
- Mentoring and learning partnerships with strategic partner regions and individual partners of excellence;
- Open Innovation Systems / Living & Innovation Labs: e.g. Brainport Region Eindhoven.

ACTION PLAN 2021 - 2027

Contribution to strategy:

Here, lessons can be learned from other Interreg areas on how to develop, consistently work on and implement a strategy that can be used in the long term.

- Establishment of development and innovation corridors with the activated Interreg regions and their strategic lead projects;
- Cross-programme planning for stable multi-annual project systems based on the 4P model (Policies, Programmes, Projects, Practice);
- Activation of European networks and working groups.

Contribution to the Action Plan:

Due to the large number of projects available in the activated partner regions, it would be useful to develop a multi-annual project roadmap (trends, SWOT, resources, impact).

- Directly dockable projects for the two task areas of SHARE 4.0 (industrial assistance systems; sustainable, resilient production);
- Development of twinning projects, i.e. mirrored projects in comparable Interreg areas (cross-border, transnational) and with similar partner constellations;
- Networking of strategic lead projects: Capitalising on project results and creating added value or increasing impacts.

ACTION PLAN 2021 - 2027

Action plan verdict and outlook

For upgrading and consistent use of national and European knowledge for the SK-AT cooperation area, strategic partners and regions (more than 30 regions in 9 countries) and their innovative eco-systems were identified.

For a strategic further development of the SHARE 4.0 development work, bridges are built along 8 Interreg cooperation areas. On the one hand, this will create a critical mass of qualified strategic partners and regions, and on the other hand, a stable, permanently usable development and innovation corridor will be successively shaped and used together.

To this end, the traditional and new funding instruments of the EU period 2021-2027 are to be applied in innovative forms. These are in particular transnational cooperations of ESIF projects including Recovery Fund/NGE Next Generation EU, twinings of Interreg projects (cross-border, transnational) and networks of strategic lead projects from Horizon Europe and complementary research programmes.

In this way, both timely results (quick wins) and strategic flagships are developed and implemented and anchored in a cooperation network.

Basically, the entire range of actors in the innovative eco-systems are necessary to meet the challenges of the digital transformation (industrial assistance systems) or sustainable development (resilient production). The broad involvement of the actors ensures the necessary push and support of committed organisations as well as continuous promotion and funding.



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The Project Partners of SHARE 4.0:

Verein Industrie 4.0 Österreich – die Plattform für intelligente Produktion (Leadpartner)

FOTEC Forschungs- und Technologietransfer GmbH

PROFACTOR GmbH

Forschung Burgenland

Národné centrum robotiky

Ústav materiálov a mechaniky strojov Slovenskej akadémie vied

Združenie inteligentného priemyslu – Industry 4UM

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