![RICAIP logo]

RICAIP

RICAIP
Update of the
Dissemination Materials

Deliverable 7.6

RICAIP

Deliverable Report

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1   Introduction and Executive Summary

The dissemination strategy of the RICAIP project as such was described in Deliverable 7. 1 *RICAIP Dissemination Strategy and Standards*. The Dissemination Strategy serves as the basis for an approach, which concerns all marketing activities to increase the potential use of the project results and outcomes among the potential clients and has therefore a key impact on the sustainability of the centre after the funding ends. Dissemination of the project is important activity that helps to inform general public, research communities, industry, policy makers or other stakeholders about the results and innovation and reaches out primarily to the professionals with the aim to facilitate the use of project results.

As dissemination is a living matter that changes over time, not only do we carry out an internal review of the strategy within the project within 12-18 months, but we also deliver this document D7.6 Update of the Dissemination Materials that is the revision of dissemination activities and materials proposed within the strategy and their adequate update - based on feedback of all partners.

The deliverable 7.6 Update of the dissemination materials provides evaluation and overview on different aspects of the RICAIP dissemination materials and activities.

In summary, deliverable D7.6 is not a general update of the active dissemination strategy of RICAIP (see deliverable D7.1 "Dissemination Strategy and Standards") but it provides a practical overview and status of several dissemination tools and materials available. These are based on the outlined principles as described in D7.1, D7.2 and D7.7, presented in this deliverable with an outlook on future developments and updates of these tools and materials.

2   Evaluation and Update of Dissemination Materials

The following chapters provide the overview of the most prominent dissemination tools and marketing materials actively used and based on the Dissemination Strategy in RICAIP (outlined in deliverable D7.1 "Dissemination Strategy and Standards"). In each section, the current status is briefly described or examples / excerpt of existing tools and materials are given. Furthermore, each section contains either an outlook regarding upcoming updates and changes or a conclusion statement if no updates / changes are pending at the time of this deliverable.

2.1   Target Groups

As already outlined and described in detail in the Communication strategy (D7.2), the target groups in RICAIP were defined and structured as follows:
- Industrial companies
- Scientific community: Research/ Academia/ Students

- General public
- Policy makers and associations

As already outlined in the D7.7, In 2022, both industrial testbeds in Prague and Brno have been completed and refurbished with state-of-the-art equipment. It is anticipated, that the share of companies and especially SMEs will increase in 2023 as new technologies and demonstrators relevant to this target audience will be communicated more intensively. Likewise, the services and concrete use cases tailor-made for SMEs will increase interest in digital transformation opportunities provided by the RICAIP ecosystems. With the both testbeds' openings, the members of the scientific community have already started discussions on new research topics too.

From 2023, main topics for the dissemination activities will be determined also by new services for industrial companies, namely SMEs and the public sector that will be also intensively provided through the **EDIH framework**: As all of the partnering testbeds became the key roles in particular national EDIHs' applications, the development of the materials presenting the full range of RICAIP testbeds' infrastructure in the context of the EDIH context will be crucial more than ever before.

2.2 Scientific Publications

Publications rang among the standard dissemination tools when it comes to the outreach towards the scientific and professional target audiences. Recently, the general framework on the publication has been outlined also in D7.5 Internationalisation Strategy. Since the beginning, the RICAIP-acknowledged publications have been released both in scientific and expert journals and in conference/ workshop proceedings or book chapters. In terms of formal dissemination, a clear acknowledgement of the RICAIP shall be followed. With the equipment being installed in the RICAIP testbeds, it is expected that also the acknowledgement of the use of the RICAIP technology will appear more often in third-party publications. As already mentioned in D7.5, this will also contribute to the higher visibility of RICAIP among the broader international scientific community.

For this purpose, the following acknowledgement of the technology use can be applied:

> The authors would like to acknowledge the use of the RICAIP infrastructure: The experimental *measurements/ testing/ simulations* were done using the laboratory equipment purchased within project CZ.02.1.01/0.0/0.0/17_043/0010085 „Research and Innovation Centre on Advanced Industrial Production (RICAIP)" supported from European Structural and Investment Funds and Operational Programme Research, Development and Education via Ministry of Education, Youth and Sports of the Czech Republic. The RICAIP project received also funding from the European Union's Horizon 2020 research and innovation program under grant agreement 857306.

Over the past period, RICAIP published more than 30 publications (see Annex No. 1 for the list of publications so far).

According to the particular domain, the scientific results have been presented at high-ranked conferences. An indicative list of these conferences are as follows:

- CADE - International Conference on Automated Deduction
- IEEE International Conference on 3D Vision (3DV)
- International Symposium FroCoS (Frontiers of Combining Systems)
- FMCAD - Conference on Formal Methods in Computer-Aided Design
- CP Conference on Constraint Programming
- ICTAI - International Conference on Tools with AI
- CAV - Conference on Computer Aided Verification
- ICCV - IEEE International Conference on Computer Vision
- ECCV - European Conference on Computer Vision
- CVPR - Conference on Computer Vision and Pattern Recognition
- NeurIPS - Conference on Neural Information Processing Systems
- IJCAI – ECAI – International Joint Conference on AI
- AAAI Conference on AI
- IROS - IEEE/RSJ International Conference on Intelligent Robots and Systems
- IEEE SMC - International Conference on Systems, Man, and Cybernetics

To leverage the impact, following dissemination routes have been implemented when a publication is released either in journals or conference proceedings. Such a publication has been listed on:

- RICAIP internal newsletter;
- RICAIP website under the menu "Research" and/or at the profile of particular RICAIP Tenure Track Position holder;
- Annual Report within the Overview of Selected Publications;
- RICAIP social media profiles;
- Websites of the home institutions - in case of high-ranked appearance of the publication, also an extra article or interview with the researcher can be published on websites

For the future outlook, the following measures will be implemented more intensively:

— Publishing selected and best publications on RICAIP social networks in a specified graphic and special hashtag – regularly on quarterly basis at minimum
— Publishing all publications on the RICAIP website under the „Research" menu tab by time sequence, preferably with a search mode available
— Highlighting the most interesting publications in form of an article on the RICAIP homepage
— Consistently pay attention to the use of already established mechanism of the home institutions for open access university repositories – publishing in the BUT and the CTU Digital Libraries
— Enhancing the support to the RICAIP scientists in their preparation for the presentations at scientific conferences – at least, they shall have the option to present the papers in the RICAIP-designed slides.

2.3 Events

The events are one of the most effective means of dissemination, thanks to which we can reach out to specific target groups and disseminate results and progress of the project. The list of selected events organised in 2022 can be found in Annex No. 2.

In terms of dissemination, following elements have been implemented in planning and organising of the events:

- Compliance with the visual identity and RICAIP brand
- Targeting selected target groups and an international audience
- Sharing information about events on social networks and website in a unified style
- Providing the testbed guided tours as an important and stable part of the agendas
- Specific events aimed at diverse target groups
- Event organization developed at a very high and representative level
- Continuous creating of mailing lists and contact database

2.3.1 Updates Related to Events

- **RICAIP Events**

In general, the basic framework for events was defined in the previous deliverables, namely D7.1 and its updates, D4.5 and D7.5. In the previous period, a wide range of RICAIP-branded events has been held both in physical and online environment. For the upcoming period, the following outlook is envisaged:

— Continuous development of successful events such as the RICAIP Brain & Breakfast and RICAIP Seminar Series, covering new topics, with the involvement of both internal and external/ collaborating speakers

— Launch of a modified type of events specifically designed for internal members of RICAIP that shall serve namely for fostering the internal collaboration within the enlarged RICAIP network (e.g. mutual connection of teams from partner institutions at all levels of seniority)

— Expected increase of events of smaller scale that will serve as a presentation of RICAIP testbed services or training courses

— Creating an updated material (slide deck, event booklets) for events such as conferences and open days for different target groups – see next chapter

- **Events co-organised with third-party partners**

The number of events that were organised in close collaboration with highly-respective partners, such as the Representation of EC in Prague, the Ministry of Foreign Affairs of CR, the German Embassy, Goethe-Institut, the office of European Parliament in Prague, the French Embassy (Ambassade de France and Institut Français) etc., has increased over the past period. It has been proved that such collaboration brings many positive effects in terms of high visibility of the event, synergies in compiling program and getting international acknowledged speakers onboard, as well as sharing resources (in

terms of budget, contact database, event management, media outreach and communication). We expect to continue with these events that will enable us to discover new topics that can be presented and cover by RICAIP co-branded events as well as to establish new partnerships and contacts beyond the "traditional" RICAIP ecosystems. In upcoming period, also smaller-scale events, especially within the EIT Manufacturing and EDIH networks will be organised for higher outreach towards the manufacturing companies and SMEs. At the international level, the synergies within the European AI community will be leveraged (see more in the next chapter).

- **Presentations at trade fairs**

Thanks to a generous support from DFKI, a special RICAIP demonstrator was developed and presented at Hannover Messe 2022 at the DFKI's booth. The impact of this presentation was unique and very valuable. It is clear that such opportunities can erase only from a close collaboration of RICAIP teams across the partner institutions. As a prerequisite, an impactful output of such collaboration must be created in form of a demonstrator or use case.

This was also proven during the Brno Engineering Fair 2022, where the presentation on this fair consisted in cooperation among RICAIP partners and industrial stakeholders. Thanks to that, a concrete demonstrator was presented within the Digital Factory 2.0 area on the "Technology Island" booth managed by the National Centre for Industry 4.0 together with T-Mobile and Česká Spořitelna. RICAIP was presented as the scientific guarantor of the industrial demonstrators that showcased specific examples of 5G solutions for the digital transformation of Czech companies. The value of such a presentation which consisted of 3 banners presenting RICAIP, 2 demonstrators and 5 videos displayed on the booth was increased also by the impact of joint communication. As a result, great media visibility was achieved too. Moreover, all Czech RICAIP testbeds were presented in panel discussions within a "DigiStage" broadcasting. All these elements led to high visibility which was implemented in a very cost-effective way. Also in the upcoming period, attendance and presentation at trade fairs will be effective and feasible when carried out in cooperation with partners – not only internal but also external.

2.3.2 Testbed Visits

RICAIP Testbeds are opened at special events, and also to the various groups from the professional and general public for specialised or even thematic guided tours. Especially after the completion of the RICAIP testbeds in Brno and Prague in 2022, each guided testbed tour consists of an expert introduction of the RICAIP centre and network, specific research focus on the operation of particular testbed, state-of-the-art technology installed and also concrete examples of demonstrators with a detailed explanation of the individual devices used on their development.

The agenda and main topic of the guided tour differ according to the type of the visit and audience. Following parameters of visits have been identified over the past period:

Prevailing parameter	Specifics	Example of concrete visit
Visit for one VIP person and her/his close entourage	Rather close meeting that can be very interactive in terms of the exchange between the guest and the RICAIP representatives. High demand on security and preparation in terms of detailed agenda, selection of speakers and guiders. Usually, a need to keep the exact timing. Detailed agenda prepared for and approved by the cabinet of VIP person.	• German Vice-Chancellor R. Habeck (July 2022, Prague) • German Embassy – H.E. Ambassador A. Künne, Economic Attaché A. Glumm (Sept 2022, Prague)
Visit of VIP person with an expert delegation	Similar to the above-listed visit only with the difference that more people are in the group. This may cause less interactions between the visit and the guide, and higher requirements on overall logistics and technology equipment (using microphones necessary, more printed materials, seats for participants, refreshments).	• German Federal President and his wife (Aug 2021, Prague)
Visit of VIP person linked to accompanying program	The visit of the VIP person is accompanied by a special program for external audience. This requires higher assistance and own event management with preparation of the event for external participants in close cooperation with the main organizing team (often also in terms of joint communication and acquisition of participants). Guided tour with the VIP person can be merged also with a tour for participants of the accompanying event, but not necessarily. Highly demanded on preparatory works that go in fact in parallel and are quite specific.	• Frans Timmermans, Executive Vice-President of EC and his debate on Green Deal with students of CTU (Sept 2022, Prague) • Vice-prime minister for digitalization I. Bartoš and his breakfast with media at the opening of the Czech Digital Week (Oct 2022)
Delegation of stakeholders visiting the Czech Republic	A rather coherent group of visitors/stakeholders that come to RICAIP testbed within their further agenda while visiting the Czech Republic. Usually at the invitation of some state body, ministry or professional association. A high potential for new professional partnerships.	• Mission from the Mexican state of Jalisco (July 2022 – Brno, Prague) • EC High-level Group on Education (July 2022, Prague)
Delegation of experts from important collaborating partner	It is expected that such a group will require more specific and detailed information on technology, research activities and current or planned projects conducted in testbeds as there is a high motivation and potential for deepening or expansion of current cooperation.	• Škoda Auto Managers for Production, Logistics (Aug 2022, Prague)
Tour for participants of events organized by collaborating partner	Venue of the main event: Premises of RICIAP partner institution. Especially members and partners of the National Centre for Industry 4.0 often invite participants of their events and workshops held on the premises of particular RICAIP partners to visit the testbed. The potential for synergies and new collaboration is high as the participants are often SMEs, therefore also potential consumers of testbed services.	• Česká spořitelna for SMEs (Apr 2022) • T-Mobile workshop for ČEZ (Aug 2022, Prague) • KUKA Tech Day (Sept 2022) • Deloitte workshop (Sept 2022)

Prevailing parameter	Specifics	Example of concrete visit
Tour for participants of third-party events with the main venue elsewhere	Participants to external entities that have no direct linkage to RICAIP and attend the city or the Czech Republic for an initially different purpose – i.e. attendance at some conference or summit. This creates a great opportunity to introduce RICAIP centre and testbeds to a completely new audience at the international level.	• EC European Cluster Conference – for Ministry of Industry and Trade (Sept 2022, Prague) • EBDVF – for European AI Community (Nov 2022, Prague)
Tour for participants of events organized or co-organized by RICAIP	It is already a standard that there are guided tours at the agenda of events organized or co-organized by RICAIP. Despite the fact that it might be challenging due to demanded time schedule of such event, it is highly recommended to keep visit in testbed at the programme, whenever possible. It can also create a clear link to the lecture of RICAIP scientific team members or such a visit can also become a part of the networking part of the programme. High potential for new collaborations.	• US-EU Workshop (June 2022, Prague) • Czech-French-AI Workshop (Sept 2022, Prague) • Industry 4.0 conference (Nov 2022, Brno)

For each visit, it is recommended to prepare a tailor-made agenda with a showcase of topic-relevant demonstrators and technologies. In advance, a brief outline of the programme shall be prepared and sent to the main organising partner. After the confirmation of the agenda proposed, a more detailed material shall be compiled and preferably also distributed to the visitors. Such a material shall content the description of each element (demonstrator, technology, project) that will be presented in the overall RICAIP infrastructure context.

2.4 Online Tools

In this chapter, the most important online tools for dissemination (and communication) – i.e. the RICAIP website and social media profiles are outlined. Following shall serve only as a brief update

and is complementary to the updates and highlights described in the D7.7 deliverable on Update of the Communication Materials.

2.4.1 RICAIP website

Official RICAIP website (ricaip.eu) is one of the main communication and dissemination tools of the project. The structure of the website makes possible to create a tool for disseminating the information the most up-to-date information that is happening within the project. With the opening of both testbeds in 2022, large focus on the presentation of detailed testbed services on the website will be made. The overall revision of the RICAIP website and its content has been recently outlined in the D7.7 Deliverable.

In the following text, the most important website-relevant elements to be focused on in terms of dissemination are highlighted for the upcoming period:

- **Publications:**

As already stated above, the full list of publications will be available on the website under "Research". Whenever feasible, particular publications will be also visible on the personal profiles of RICAIP scientists. The most significant publications will be also highlighted through post on website or social media and as such, this content shall be also linked to the list of publications.

- **Technologies and equipment available within the RICAIP infrastructure:**

The main technologies available in Prague and Brno testbeds shall be clearly described on the website so that the potential users and partners from industry and academia get a complex picture of the options and opportunities for collaboration within RICAIP. RICAIP website shall serve as an information hub that can lead the website visitors further to particular sites with more content on the technologies and projects implemented – this alltogether with virtual showroom, testbed presentations on the RICAIP website or the testbed pages provided by particular partner's domain.
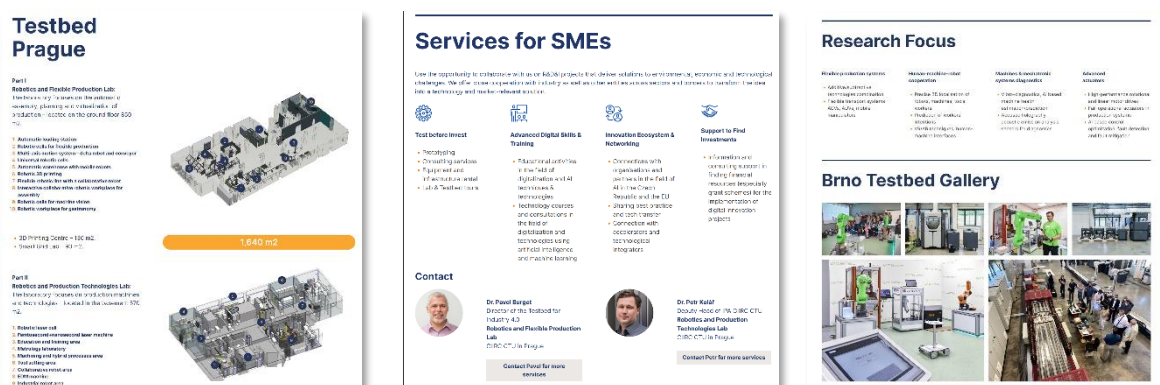
- **Services provided within the RICAIP network:**

From 2023, more emphasis will be placed on the services provided within the RICAIP testbeds as the completion of the testbed equipment will be finalised and new projects relying on services provided will be implemented (such as EDIH and TEF). Therefore, the way of presenting the services especially for variety of stakeholders in their digital transformation shall be enhanced on the RICAIP website and consistent with the services provided by and within RICIAP testbeds elsewhere. The input for this content shall be also revised and in line according to the D2.5 *RICAIP Science as a Business Strategy*. This concerns the consistent presentation of the types of services such as:

- **Potential customers & Clients → References of current partners:**

On the website, a straight-forward identification of potential consumers of the RICAIP testbed services as well as of the RICAIP scientific agenda (as stated in D2.5 RICAIP Science as a Business Strategy) shall be enhanced through a more detailed definition of beneficiaries of these services with a linkage to concrete projects, testimonials and references already implemented.
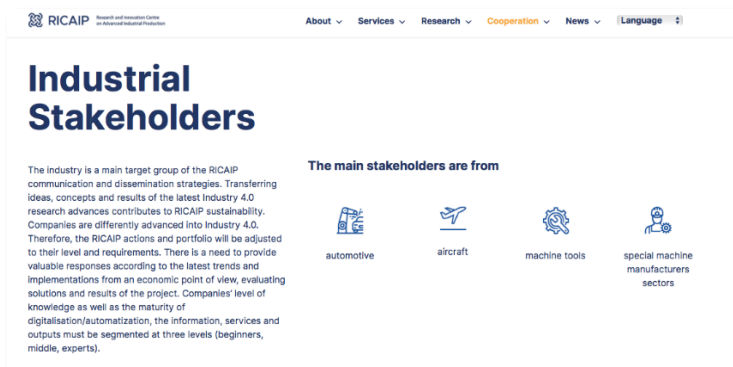
- **RICAIP Young Investigator Award**

In line with the D4.7 *Young Investigator Award Proposition*, the website will be enriched with the new section on the RYIA Award presenting the aim of the award, principles of the assessment as well as complex information on the 2022 edition, i.e. composition of the committee, winners and their medallions. These elements contribute to the dissemination mainly towards the scientific community and shall help with building the attractiveness and recognition of the award for the future.

- **Presentation of demonstrators and use-cases on the website:**

Demonstrators and use-cases are / will be published on the RICAIP website continuously as soon as they are available. Online profile cards will be supplemented with videos that explain the given use case. The increase of demonstrators / use cases is expected mainly with the final launch of the RICAIP testbeds. The concrete presentation of piloting use cases and further demonstrators on advanced industrial production will be provided in close connection with the outputs of WP6.

Following demonstrators have been presented on the website so far:

Title	Short Description	Partner	Link
Assist-by-X: A Modular Plug and play visual assistance system	The advantage of the demonstrator is the reduction of complexity and downtimes when eliminating errors or problems through real-time remote maintenance support on the production line.	ZeMA / CIIRC CTU	https://ricaip.eu/assist-by-x-a-modular-plug-and-play-visual-assistance-system/
Augmented-Reality based interaction with a remote production line	The demonstrator shows multi-modal interaction with a 3D model of a production line with Microsoft HoloLens AR headset.	CIIRC CTU	https://ricaip.eu/augmented-reality-based-interaction-with-a-remote-production-line/
Autonomous Mobile Robotic Agent Demonstration	The autonomous mobile robotic agent being developed within this project will be able to autonomously deliver material or tools within the factory.	CEITEC BUT	https://ricaip.eu/autonomous-mobile-robotic-agent-demonstration/
CIIRC RP95-3D Protective Half-Mask	The RP95 is a personal protective device with an exchangeable P3 filter that meets the highest level of protection.	CIIRC CTU	https://ricaip.eu/protective-half-mask/
Extension of the working area of an HRC system	HRC robot with a 7th axis that meets the criteria of rapid sequential expansion of the robot workspace and simple restart of the system by using additional sensors.	ZeMA	https://ricaip.eu/extension-of-the-working-area-of-an-hrc-system/

Title	Short Description	Partner	Link
Flexible assembly through human-robot collaboration	Together with the Robotix-Academy, Woll succeeded in building and exhibiting the first prototype of an HRC station. For the implementation of the prototype, the most modern technology was used.	ZeMA	https://ricaip.eu/flexible-assembly-through-human-robot-collaboration/
HRC-compatible lightweight construction and transport robots	MRK-4.0 requires the integration of already established and the development of new security concepts.	ZeMA	https://ricaip.eu/hrc-transport-robots/
Intelligent AI-based quality control	AQI-Inspect is an extension to the existing demonstrator. Existing sensors and actuators of the structure were used to reduce the workload and improve quality control in aircraft construction.	ZeMA	https://ricaip.eu/intelligent-ai-based-quality-control/
Multi-site Dimension – Combination of Augmented & Virtual Reality	The technology allows connecting a remote site operated by an operator with Microsoft HoloLens AR headset.	CIIRC CTU	https://ricaip.eu/multi-site-dimension-based-on-combination-of-augmented-and-virtual-reality/
On the edge AI implementation for fault detection demonstration	The machine is connected as a dual three-phase machine. With the help of this motor, it was possible to measure and analyse the behaviour of the motor during different types of internal short-circuit faults.	CEITEC BUT	https://ricaip.eu/on-the-edge-ai-implementation-for-fault-detection-demonstration/
Robots in Industry 4.0 Factory	Provides an overview of the situation of the robot and the error that occurred as well as the available (technical) options, e.g., a "Transfer of Control" (ToC) to solve the problem.	CIIRC CTU	https://ricaip.eu/robots-in-industry-4-0-factory/
Security technology for working with industrial robot	The safe cooperation between humans and industrial robot is addressed. The developments focus on safe workplace and process design without the use of protective fences and cages.	ZeMA	https://ricaip.eu/security-technology-for-working-with-industrial-robots/

2.4.2 Social Media

As we can see, social networks still belong to the one of the most important tools for real-time communication and dissemination of results. As part of this, we strive to create a community of followers by sharing relevant information and with the maximum of relevant information. The presentation of the results on social networks includes photos, videos or for example links to the articles on RICAIP or other websites.

We currently have profiles on LinkedIn and Twitter. In the coming time, it will be necessary to decide whether the project needs to be extended to other profiles such as Instagram or Facebook and to expand the scope of sharing the results of the project. Latest trends advise that it is better to have fewer profiles with quality and regular content.

In the following period, we will focus on the form of sharing scientific publications on social networks, but we can also use the increasing number of use cases and demonstrators, as this can be expected after the full completion of technology equipment in testbeds.

2.4.3   Audio-Video Material

The overview of the AV material is given in D7.7. For the dissemination activities, it will be crucial to continuously build a rich library on video presentation of the demonstrators and use cases comprising also an introduction of the technology used and partners involved. These materials will be also used during the guided tours in particular testbeds and on the displays outside the RICAIP premises, especially at trade fairs or third-party events. Generic recordings and footage of particular technology and testbeds will be supplemented by additional infographic with specific information and introduction on use case/demo. Also, real recordings taken from experimental testing of concrete solution can be added to the final videos. All AV materials will be posted both on the website, on the RICAIP Youtube channel and in the showroom. Any new video shall create also an impactful content for the communication on social media profiles.

2.5   Internal Newsletter

The project team was very successful in setting up an internal newsletter. It has a very clear and uniform structure. It contains the latest information within the project and each of the involved partners can participate in its content. It is sent out every month.
Each newsletter contains editorial from the RICAIP director summarizing the current project progress and a message from the people involved in the project.

The standardized structure of the newsletter includes updates such as information regarding events at particular institutions, upcoming activities within deliverables, acquisition of projects, achievements. Also, it includes a calendar of upcoming RICAIP events and invitations to individual events such as workshops, lectures, information about upcoming visits to testbeds, etc. If available, all events are linked to the RICAIP website for more information.

The latest publications are mentioned in each issue of the newsletter, as well as Presentation of the experiments that were carried out within the framework of RICAIP. Members of the RICAIP teams have been also introduced at the final part of the newsletter.

2.6 Slides & Presentation

In general, the principles for the continuous creation of slide deck are outlined in D7.7. With the completion of the testbed refurbishment, new slides shall be prepared for presentation of new state-of-the-art technology installed as well as new demonstrators developed. This enables to prepare content-specific presentations focused on specific target groups. A detailed presentation of the infrastructure available in particular testbeds in the context of RICAIP shall be presented also in context of new services provided. In principle, the before-mentioned approach in presenting the infrastructure and services on the website shall be similarly applied in creation of new slides. The same counts also for the presentation of the demonstrators and use-cases.

A set of short slides with just basic overview on the technology were produced. This shall be followed by a creation of a more detailed presentations on particular technologies and demonstrators.

Example (as presented at the JIMTOF 2022 trade fair in Tokyo):

2.7 Annual Report

In July 2021 the RICAIP project has introduced its new dissemination tool – Annual Report. We value the Annual Report as a highly valuable dissemination output that summarizes activities and progress for the given year. We will continue to prepare the Annual Reports every year. The Annual Report has a given structure, which we will stick to (of course with necessary updates based on the needs of the project). So far, the 40-page marketing document presents key facts, partners, funding, testbeds with their technologies and demos, and the year's results and achievements. The annual report is a kind of exclusive printed material that is also available online on the website. It is especially intended for distribution to VIP visitors to RICAIP partner institutions and testbeds, key stakeholders, policymakers and participants in the most important events organized by RICAIP.

Category	Content
RICAIP in General	• Basic introductory of the project • Editorial of the Director(s)/ PI • Our mission and vision • Funding and drawing • Partner profiles and number of employees • Descriptions of testbeds, current events and delivered devices
People of RICAIP	• Management members (Steering Committee, Director, Executive Board, Research Teams and Heads of Research Teams) • Members of the communication and project management team • Interns • Women of RICAIP testbeds • Tenure Track positions
Outputs of the RICAIP project	• Selected Publications and papers • Synergies and Cooperation
Highlights of the year	• Communication & media visibility • Selected events • Awards • Activities in numbers
New sections	• Selected Demonstrators • Use cases • References & Testimonials

As already stated in D7.7, it is planned to combine the printed material with more detailed online content available on the website so that the printed annual report will be rather a list of most relevant achievements in the given year. Through a set of QR codes, readers will be guided to special content on the website that can be linked also with more content already posted on the website during the year. This solution will be modern, cost-efficient, and environment-friendly and on the other hand, it allows the production of the annual report in larger print runs.

2.8 Offline Tools

Referring to the offline materials as stated in D7.7, in the following text, selected main updates in regard with the dissemination materials are stated.

2.8.1   Labels on the Demonstrators for Displays and Exhibitions

For the special dissemination purposes such as displays at the trade fairs outside the RICAIP testbeds (and even outside the RICAIP booth if located at partner's booth), the specific demonstrators shall be visibly marked with labels, as used at the Brno Engineering Trade Fair 2022 for the first time. These

labels carry the information on the title of the demonstrator, partnering organisation and clear reference to the RICAIP. Also, the obligatory publicity can be covered by such a marking.
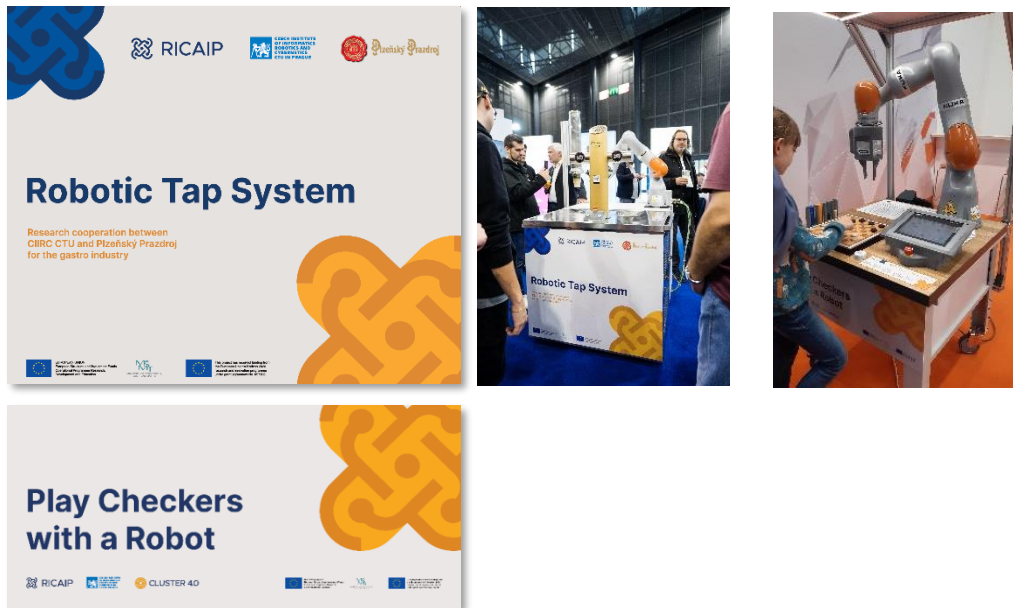
2.8.2 Rollups on Demonstrators and Collaborations

The rollups are displayed in RICAIP testbeds and the premises of the home institutions and also used at events outside when co-organised with third parties. Together with banners printed on large formatted paper, they can be used also at the booth at trade fairs and exhibitions. The planned updates of general rollups are described in Deliverable D7.7. For dissemination purposes, a set of banners and rollups have been designed with recently used graphic elements that are mainly used to present concrete solutions or collaborations with industrial partners. These rollups and banners are prepared especially for the industrial audience, namely Czech companies, to inform them about new opportunities and services that are being provided in RICAIP testbeds.

These rollups shall be customised to the target audience and specific use, such as the local trade fairs and displays. Therefore, it is desired to have them not only in the English language but either bilingual or in the local language, i.e. Czech. Always when such rollups are produced, the portion of text and design elements shall be balanced according to the purpose and occasion of their displays. Also, these banners deliver more information than the general – rather more image - rollups.

- **Presentation roll-ups of partners and use cases**

With the increasing number of collaborations on use cases and collaborative research, RICAIP teams and industrial partners have a common interest in promoting such cooperation in testbeds. It is desirable to maintain the neutrality of such promotion; therefore any information rollup or banner shall be consistent with common design and not be perceived as corporate advertising. The obligatory publicity logolinks shall be visible there as well.

As already experienced, these rollups can be prepared in close cooperation with the RICAIP team and purchased by the industrial partner. A bi-lingual version is preferred. Installation next to the technology used for the use case development is envisaged.
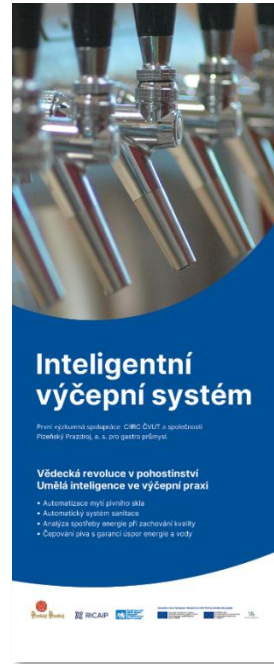
2.8.3 Testbed Facilities Profile Cards

In addition to printed communication materials as stated in D7.7, new measure will be introduced – a printed folder with a set of customized profile cards presenting particular testbeds, their infrastructure and services. This will be created with a set of brief one-papers that will be inserted into a more general folder. Such a material will serve as a summary of services, equipment and general description of what testbed is used for.

The idea behind is to have a more durable content on the folder (i.e. introduction of the RICAIP in the context of Industry 4.0, partners involved, main research areas and types of services) that can be combined with a more detailed information on one-pagers. Such a system enables to flexibly modify the selection of the cards placed into the folder according to the occasion where such a material will be distributes and particular target audience. Testbed-specific cards will be adapted to each testbed and RICAIP partner. Also, each card can be accompanied with a specific contact data and QR code that can lead the recipient to more content on the website. In general, the material shall be more like a marketing tool, that means rather brief, while using concrete photos of testbeds and persons.

The expected distribution routes of these folders:
- Racks in testbeds – for visitors and attendees of guided tours
- Personal meetings with current and potential partners
- Booths on the trade fairs
- Third-party events

Indicative plan for thematic one-pagers:

- Specific one-pager for each partner more in detail
- RICAIP in a nutshell (a brief context incl. vision, mission, financial data)
- RICAIP in the European context (linkage to the main initiatives and networks)
- Overview on research focus
- Specific cards for testbeds with visualisation of the floors and a list of workstations + short explanation what is testbed in general
- Overview on technology available + separate one-pagers for the most developed and used technology
- Types of services provided to industry + separate one-pagers for each service (preferable with testimonial of beneficiary)
- Collaboration with academia
- Use-cases and demonstrator
- References – collaboration and projects with concrete companies and stakeholders
- Education and training
- General explanation of Industry 4.0 and digital transformation
- Contribution of RICAIP to societal challenges (sustainability, inclusion, diversity etc.)
- Commercial offers (like rental of the testbed premises etc.)

To some extent, the cards can be inspired by and use the content of the public deliverables that have been issued by RICAIP so far. The plan is for the cards and folder to be smaller than A4 and larger than A5 format.
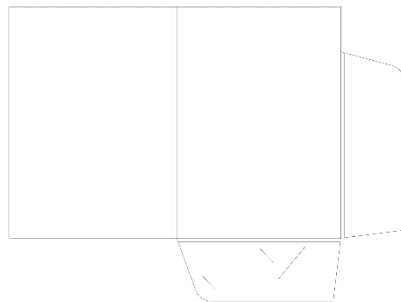
2.9 RICAIP Showroom

According to the deliverable D7.11 *RICAIP Showroom*, this dissemination tool shall have its virtual platform available through the RICAIP website and applicable in RICAIP testbeds. The virtual showroom will collect all digital content relevant and developed within the RICAIP testbeds and published online. RICAIP Showroom is an ongoing process of making a complex showcase of wide virtual and online content that has been continuously created into one structured platform. RICAIP Showroom will connect together all videos, website presentations, tutorials and explanations of demonstrators, technology installed and used, and VR snippets. Through the RICAIP website, the showroom shall be accessible not only for the target audiences, but also for the content contributor from the growing RICAIP network. These principles shall be improved and implemented in the upcoming period to make the update of

RICAIP Showroom as user-friendly as feasible and also the dissemination as effective as possible. Once the showroom is fully operable, it will be disseminated through all available tools and measures, incl. onsite workshops and conferences and events for general public.

2.10 Synergies with EU Initiatives, Networks, and Projects

The overview of EU networks and initiatives with functional RICAIP and its partners' involvement or links has been described in D7.7, D7.5 and before also in D7.1 and D7.2. and D7.1. The European AI and robotics initiatives and associations represent a significant potential and channel to target groups at both international and national levels. In terms of dissemination, the building of solid links to these networks opens a great opportunity for both deployment of RICAIP results, and the creation of new outcomes towards higher excellence.

Dissemination at the European level:

- **CLAIRE and ELLIS**: Through researchers from the RICAIP partner institutions who are members of one of these most impactful European AI initiatives, as well as members of the **CLAIRE Office Prague and/or ELLIS Unit Prague**, the dissemination routes may be established or leveraged. So far, joint communication and organisation of activities have been realised. RICAIP results can be disseminated via articles and posts distributed by CLAIRE/ELLIS social media profiles or community newsletters and websites. Also, expert articles and contribution to documents of common interests (i.e. position papers and analysis) can be enriched with RICAIP contribution. Joint events co-organised with RICIAP open opportunities for presentation of RICAIP infrastructure and results and can be organised either online with an involvement of RICAIP experts or onsite within the testbed premises. Many synergies can be also found in joint project proposals and research programmes and internships.
- **ICT-48 Networks of Excellence (NoEs)**: An intense cooperation with four ICT-48 NoEs - AI4Media, HumanE-AI-Net, TAILOR, and ELISE – and VISION CSA has been developed thanks to the involvement of DFKI and CIIRC CTU in these projects. Among others, it brought a valuable visibility to RICAIP through multiple presentations at the Theme Development Workshop (TDW): in 2022, an online TDW on AI for Future Manufacturing topic with a great RICAIP visibility. The keynote lecture, moderation and two panel discussions were led by RICAIP representatives with clear affiliation to RICAIP. In 2023, an onsite TDW will be held in Prague and hosted by RICAIP together with an AI Open Day for the entire European AI Community. Further dissemination activities are expected. RICAIP personnel has also access to the Mattermost communication platform for the entire European AI community (installed by Inria and co-managed by CIIRC CTU).
- **EuROBIN, ADRA, AI4EU/ AI4Europe**: Through the ICT-48 ecosystem as well as direct engagement of RICAIP partners in newly emerging networks of euROBIN and ADRA (Adra-e respectively), similar dissemination activities and effects will be supported also in the upcoming period. Through these entities, also the large European ecosystem of start-ups and SMEs can be reached.

- **EIT Manufacturing**: Through intensive links to the EIT Manufacturing community across the Europe, current dissemination routes will be leveraged and fertilised for new partnerships and project opportunities. The training and education platform **Skills.move** has been already used in 2022 for the dissemination of RICAIP infrastructure.

Dissemination at the national level:

- **EIT Manufacturing Hub Czechia** – the training and education content within the EIT Manufacturing projects has been developed in a close connection to RICAIP testbed teams. This creates a strong channel towards manufacturing SMEs. RICAIP infrastructure, services, and concrete use cases will be disseminated through events co-organised within EIT Manufacturing activities in the Czech Republic.

- **EDIH and DIH networks** – as all of the RICAIP partners will serve as key players in particular EDIH in their respective regions, EDIH and DIH activities will gain an undisputed role in the dissemination effort towards the manufacturing companies, scientific community as well as state administration. Joint activities and demonstrations of RICAIP expertise, services and infrastructure will be disseminated from 2023 and further.

- **Ecosystem of the National Centre for Industry 4.0 (NCI4.0)** – joint activities and events co-organised with the NCI4.0 and its main partners (Škoda Auto, Siemens, Deloitte, Česká spořitelna, T-Mobile, KUKA, Confederation of Industry of the Czech Republic, Association of Small and Medium-Sized Enterprises and Crafts of the Czech Republic etc.) who are active in providing the digital transformation services and consultancy will continue also in next period. The fact that all three main Czech testbeds (Prague, Brno, Ostrava) are roofed by RICAIP now and thus create solid interconnected scientific infrastructure will be leveraged and used for effective dissemination. Joint activities such as seminars, workshops, trainings, articles and open days are going to continue also in next period.

2.11 Cooperation and References with Companies

Since the completion of the Czech testbeds, there will be an increasing motivation (also within EDIH and TEF implementation) to disseminate intensifying collaboration with companies, both large corporates (such as Škoda Auto/VW, Siemens or KUKA) and SMEs and start-ups in a large pool of activities. This creates a great potential for further development of joint experimentation, prototyping and testing of manufacturing tools, technologies, and techniques to benefit primarily test-before-invest services. All of these elements and activities will be encouraged as far as possible with high regard for any confidentiality agreement that the company may insist on.

3 Conclusion and Outlook

The deliverable 7.6 Dissemination Material Update builds on the deliverable 7.1 Dissemination strategy and Standards, which was finalized in May 2020 as a comprehensive concept for sharing project results with identified audiences for the whole period of the RICAIP, Phase II.

The dissemination plan is always a living document that needs to be constantly evaluated, considering whether it addresses the target groups in the most effective way possible.

Therefore, this delivery aimed primarily at evaluating already set up channels and implemented activities which form a basis for the revision of dissemination materials targeting, on the path to building confidence and the entire RICAIP eco-system. At the same time, the document should also serve as a springboard for updating well-established tools for utilizing the project results and the design of new awareness-raising measures.

Each chapter that describes a specific dissemination channel and tools, therefore, contains both an evaluation of whether the desired goals were achieved by this tool and, at the same time, also recommendations for further development.

The covid-19 period has clearly increased the importance of online tools in particular. Given that the D7.1 Dissemination Strategy and Standards counted on the significant involvement of online channels from the beginning, we achieved the set goals even during the pandemic.

The outlook related to key dissemination tools is summarized in the table below:

Dissemination channels	Outlook of concrete activities
Scientific publications	Active work with the publications - more intensive promotion of the selected best ones, primarily via social networks and visibly on the RICAIP website.
Events	• Preparing of specialized events targeting internal RICAIP members with an accent on mutual collaboration between young scientists. • For selected events, there will be created specialized printed materials in the form of brochures, primarily conferences and open days. • Creating of slide decks for different types of events/target groups/topics (e. g. RICAIP testbeds presentation for potential collaboration with companies/for public/for education usage of academia etc.).

Dissemination channels	Outlook of concrete activities
Testbeds	The ceremonial opening of testbeds in Prague and Brno in 2022 opens space for various dissemination activities which will be supported significantly by the successful launch of the synergic projects, primarily EDIH and TEF: • Intensification of cooperation with companies – expertise, experiments etc., • Demonstrations and specialized showcases, • Targeted education activities for companies and academia, • Presentation of I4.0 benefits for wide public.
Online tools	The main channel, the **RICAIP website**, will pay maximum attention to: • Demonstrations and showcases, their promotion will be supported by slide decks, papers, videos, • Presentation of RICAIP testbeds and their services in the form of short introductory videos, video guided tours, video presentation of the four-industry revolution context, etc. • New RICAIP Young Investigator Award section In case of **social media**, the plan is continue creating a stable community with the potential to spread RICAIP´s content and develop well-established profiles on LinkedIn and Twitter through quality and regular content. The relatively new and already very well-integrated instrument, the **Internal newsletter**, informs on the latest publications and experiments within RICAIP. The focus will be extended by workshops, lectures, and visits related to the testbeds. The **Annual report** was introduced in July 2021 and summarizes all dissemination activities for the whole year. The recommendation for the future consists mainly of combining digital content and a printed version.
Offline tools	For particular purposes, such as presentations at trade fairs, the specific demonstrators will be labelled by **RICAIP labels**, containing information on the title of the demonstrator, partnering organization and reference to the RICAIP. For dissemination purposes, there are planned **updates of banners and rollups**, mainly used for the presentation of concrete solutions or collaborations with industrial partners. **Testbed facilities profile cards** will be prepared as handy new tools connected to the testbeds with the general description, list of offered services, and equipment factsheets – customized for different audiences.

Annexes

Annex 1: List of Publications

Author(s)	Publication	Journal/Conference	Year
E Stenborg, **T Sattler**, L Hammarstrand	Using Image Sequences for Long-Term Visual Localization	IEEE International Conference on 3D Vision (3DV) 2020	2020
N Pion, M Humenberger, G Csurka, Y Cabon, **T Sattler**	Benchmarking Image Retrieval for Visual Localization	IEEE International Conference on 3D Vision (3DV) 2020	2020
Zichao Zhang, **Torsten Sattler**, Davide Scaramuzza	Reference Pose Generation for Long-term Visual Localization via Learned Features and View Synthesis	International Journal of Computer Vision, Special Issue on Performance Evaluation in Computer Vision, 2020	2020
Jan Glos, Lukáš Otava, **Pavel Václavek**	Non-Linear Model Predictive Control of Cabin Temperature and Air Quality in Fully Electric Vehicles	IEEE Transactions on Vehicular Technology Volume: 70, Issue: 2	2021
Kunz, J.; Fialka, J.; Pikula, S.; Beneš, P.; Krejcí, J.; **Klusácek, S.; Havránek, Z.**	A New Method to Perform Direct Efficiency Measurement and Power Flow Analysis in Vibration Energy Harvesters	SENSORS	2021
Mikolov, T.; Hudcova, B.	Computational Hierarchy of Elementary Cellular Automata		2021
M. Suda	Vampire with a Brain Is a Good ITP Hammer.	Frontiers of Combining Systems. 13th International Symposium, FroCoS 2021, Birmingham Springer, Cham	2021
N Froleyks, M Heule, M Iser, M Järvisalo, **M Suda**	SAT Competition 2020	Artificial Intelligence Journal	2021
M Suda	Improving ENIGMA-style Clause Selection while Learning From History.	Platzer A., Sutcliffe G. (eds) Automated Deduction – CADE 28. CADE 2021. Lecture Notes in Computer Science, vol 12699. Springer, Cham.	2021
F Bártek, M Suda	Neural Precedence Recommender.	Automated Deduction – CADE 28. 28th International Conference on Automated Deduction, Pittsburgh, 2021. p. 525-542. Lecture Notes in Artificial Intelligence. vol. 12699. Springer, Cham,	2021
M Janota, et.al	Fair and Adventurous Enumeration of Quantifier Instantiations.	Proceedings of the 21st Conference on Formal Methods in Computer-Aided Design – FMCAD 2021 p. 256-260. Conference Series: Formal Methods in Computer-Aided Design.	2021
J Araújo, Ch Chow, **M Janota**	Filtering Isomorphic Models by Invariants.	27th International Conference on Principles and Practice of Constraint Programming (CP 2021) MontpellierSaarbrücken: Dagstuhl Publishing, 2021. p. 1-9. vol. 210.	2021

M Janota, A Morgado, J S Fragoso, V Manquinho	The Seesaw Algorithm: Function Optimization Using Implicit Hitting Sets.	27th International Conference on Principles and Practice of Constraint Programming (CP 2021) MontpellierSaarbrücken: Dagstuhl Publishing, 2021. p. 1-16. vol. 210.	2021
J Hůla, D Mojžíšek, M Janota	Graph Neural Networks for Scheduling of SMT Solvers.	IEEE 33rd International Conference on Tools with Artificial Intelligence (ICTAI), Washington Los Alamitos: IEEE Computer Society, 2021. p. 447-451.	2021
J Jakubův, M Janota, A Reynolds	Characteristic Subsets of SMT-LIB Benchmarks.	Proceedings of the 19th International Workshop on Satisfiability Modulo Theories co-located with 33rd International Conference on Computer Aided Verification (CAV 2021), Los AngelesAachen: CEUR Workshop Proceedings, 2021. p. 53-63. vol. 2908.	2021
C E Brown, M Janota	First-Order Instantiation using Discriminating Terms.	Proceedings of the 19th International Workshop on Satisfiability Modulo Theories co-located with 33rd International Conference on Computer Aided Verification (CAV 2021), Los AngelesAachen: CEUR Workshop Proceedings, 2021. p. 17-22, vol. 2908.	2021
A Jafarzadeh, M López Antequera, P Gargallo, Y Kuang, C Toft, F Kahl, T Sattler	CrowdDriven: A New Challenging Dataset for Outdoor Visual Localization	ICCV: IEEE International Conference on Computer Vision 2021	2021
S Bhayani, T Sattler, D Barath, P Beliansky, J Heikkila, Z Kukelova	Calibrated and Partially Calibrated Semi-Generalized Homographies	ICCV: IEEE International Conference on Computer Vision 2021	2021
E Brachmann, M Humenberger, C Rother, T Sattler	On the Limits of Pseudo Ground Truth in Visual Camera Re-localisation	ICCV: IEEE International Conference on Computer Vision 2021	2021
Vladimir Guzov, Aymen Mir, Torsten Sattler, Gerard Pons-Moll	Human POSEitioning System (HPS): 3D Human Pose Estimation and Self-localization in Large Scenes from Body-Mounted Sensors	CVPR: Conference on Computer Vision and Pattern Recognition 2021	2021
P.-E. Sarlin, A.Unagar, M.Larsson, H. Germain, C.Toft, V. Larsson, M.Pollefeys, V. Lepetit, L.Hammarstrand, F. Kahl, T Sattler	Back to the Feature: Learning Robust Camera Localization from Pixels to Pose	CVPR: Conference on Computer Vision and Pattern Recognition 2021	2021
Kunal Chelani, Fredrik Kahl, T Sattler	How Privacy-Preserving are Line Clouds? Recovering Scene Details from 3D Lines	CVPR: Conference on Computer Vision and Pattern Recognition 2021	2021
Qunjie Zhou, T Sattler, Laura Leal-Taixe	Patch2Pix: Epipolar-Guided Pixel-Level Correspondences	CVPR: Conference on Computer Vision and Pattern Recognition 2021	2021
A Sunegard, L Svensson, T Sattler	Deep LiDAR localization using optical flow sensor-map correspondences	CVPR: Conference on Computer Vision and Pattern Recognition 2021	2021
Zehao Yu, Songyou Peng, Michael Niemeyer, Torsten Sattler, Andreas Geiger	MonoSDF: Exploring Monocular Geometric Cues for Neural Implicit Surface Reconstruction NeurIPS 2022	2022 Conference on Neural Information Processing Systems NeurIPS	2022

Jonáš Kulhánek, Erik Derner, **Torsten Sattler,** Robert Babuska	ViewFormer: NeRF-free Neural Rendering from Few Images Using Transformers	European Conference on Computer Vision (ECCV), 2022.	2022
Vojtech Panek, Zuzana Kuikelova, **Torsten Sattler**	MeshLoc: Mesh-Based Visual Localization	European Conference on Computer Vision (ECCV), 2022.	2022
Aikaterini Adam, **Torsten Sattler,** Konstantinos Karantzalos, Tomas Pajdla	Objects Can Move: 3D Change Detection by Geometric Transformation Consistency	European Conference on Computer Vision (ECCV), 2022.	2022
Martin Suda	Vampire Getting Noisy: Will Random Bits Help Conquer Chaos? (System Description)	International Joint Conference on Automated Reasoning 2022	2022
Michael Rawson, **Martin Suda,** Petra Hozzová and Giles Reger	Reuse of Introduced Symbols in Automatic Theorem Provers	PAAR'22: 8th Workshop on Practical Aspects of Automated Reasoning, August 11–12, 2022	2022
Snehal Bhayani, Viktor Larsson, **Torsten Sattler,** Janne Heikkila, Zuzana Kukelova	Partially calibrated semi-generalized pose from hybrid point correspondences	IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023.	2023

Annex 2: Selected Organized Events

In this section, we do not provide a list of all events that took place within the RICAIP project. But here at the selected events, we want to show how the events are designed, that thanks to them we aim at different target groups, and also what we present within them (from expert contributions to popularization) and in connection with the dissemination of results.

Title of the Event	Target Group	Programme (diss. focus)	Short Description	Venue	Date	Type of the event
RICAIP DAYS 2022: RICAIP Conference	Industrial and academia partners	Presentation of the RICAIP project, memoranda, testbed tours	Festive Opening of the Newly Refurbished and Equipped Testbed for Industry 4.0	CIIRC CTU	28/04/2022	Conference
RICAIP DAYS 2022: Open Days NCI4.0 in Testbed	Industrial partners and potentional partners	Testbed tours, presentations	Unique opportunity to learn about the NCI4.0's ecosystem, its partners and the services that they provide to small and medium-sized enterprises.	CIIRC CTU	29/04/2022	Open Day
Czech-French AI Workshop: Workshop on Artificial Intelligence	Experts, entrepreneur decision makers,	Talks, discussion, presentations	The aim is to bring together leading experts from various AI fields, entrepreneurs and decision-makers.	CIIRC CTU	12/09/2022 , 13/09/2022	Workshop
RICAIP TESTBED BRNO: Ceremonial Opening	Partners, decision makers, experts, politics	Cremonial speeches, RICAIP testbeds presentation, testbed tours, video	Ceremonial opening and final launch of the testbed in Brno in the presence of partners and collaborations	CEITEC BUT	30/11/2022	Conference / Open Day
RICAIP TESTBED BRNO OPENING: I4.0 Konference	Industrial, and academia partners	Presentation of the RICAIP project, talks, testbed tours	RICAIP Testbed Brno tours, talks about trends in modern production – digitization, flexible production, new technologies, networking.	CEITEC BUT	01/12/2022	Conference
RICAIP TESTBED BRNO	Employees, project partners, public	Testbed Tours	Guided tour of the testbed with demonstrations and a description	CEITEC BUT	02/12/2022	Open Day

Title of the Event	Target Group	Programme (diss. focus)	Short Description	Venue	Date	Type of the event
OPENING: Open Day			of the technologies.			
RICAIP Seminar Series	Researchers, experts, scientific community, academia, public	Talk, online video, contact list	Talks of interesting guests. The goal of the series is also to raise awareness of Industry 4.0, artificial intelligence, robotics, and the experimental factory of the future.	CEITEC BUT / online	16/09/2021 13/10/2021 02/11/2022 31/03/2022 10/05/2022	Talk & discussion
RICAIP Brain & Breakfast	Researchers, experts, scientific community, academia	Talk, online video	An informal business and/or scientific discussion in form of a round table with one or two speakers.	online	14/12/2022 28/06/2021	Talks & discussion
1rst RICAIP Training Workshop: HRC Training Course	Internal researchers from all four partners, namely PhD students	Talk, training	A way to share the existing knowledge and experience of the four core partners	ZeMA / online	08/12/2021	Workshop & Training
International Engineering Fair Trade in Brno	Potential industrial partners	Information about testbed services, partners, cooperation	The most important industrial fair in Central Europe. The majority of visitors are professionals.	Brno	Regularly	Fair Trade
Hannover Messe	Potential industrial partners	Online connection of testbeds, presentation of the RICAIP	One of the world's largest trade fairs, dedicated to the topic of industry development.	Hannover	Regularly	Fair Trade
Researcher's Night	Public	Testbed Tours, popularization of Industry 4.0, games	Nationwide event, when research centers are open all over the country.	Prague / Brno	Regularly	Public Event