



D8.6 – Dissemination Plan and follow-up reports - version 2

Due date of deliverable: 31/03/2024

Responsible partner: USE



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DOCUMENT DETAILS

Title	Title	
Deliverable No.	D8.6	
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Abstract	D8.6 is a revised version of D8.2. It describes the strategy by the REXASI-PRO consortium for the Communication and Dissemination (C&D) of the project and includes new paragraphs with updates on the C&D activities carried out up to M18.	
Keywords	Communication, dissemination	
Dissemination level:		
PU	Public	X
RE	Restricted to a group specified by the consortium (including Commission Services)	
CO	Confidential, only for members of the consortium (including Commission Services)	

CHANGE HISTORY

Version	Date	Changed by	Changes made
v_1.1	20/03/2024	Maria Jose (USE)	Creation of the document
V_1.2	26/03/2024	Mario Conci (SPXL)	Integration of communication activities
V_1.3	28/03/2024	Maria Jose (USE)	Harmonization of contents
V_2	31/03/2024	Leonardo Napoletani (SPXL)	Final check and Submission

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EXPLANATION OF ACRONYMS AND ABBREVIATIONS

Acronym	Full name
C&D	Communication and dissemination
JCR	Journal Citation Report

OVERVIEW OF THE DELIVERABLE

Scope

This report serves to describe the communication and dissemination defined in the REXASI-PRO project. The overall purpose of communication and dissemination is to increase the visibility and impact of the REXASI-PRO project. This not only increases the significance of the project, but also ensures the project meets the obligations outlined in the Horizon Europe Grant Agreement (Article 17). Dissemination and communication are closely linked, therefore D8.2 will describe not only dissemination but also communication activities.

Audience

This deliverable is categorized as Public.

Summary

D8.6 is an update of D8.2 focusing mostly on the consolidation of the communication and dissemination strategies and reporting the activities carried up to M18. D8.2 was not amended, but all the updates are reported since Par.6 onwards. Paragraph 6 reports updates on objectives and KPI. Paragraph 7 is a report of the D&C activities.

1. INTRODUCTION

1.1. REXASI-PRO in brief

REXASI-PRO - the acronym chosen stands for REliable & eXplAinable Swarm Intelligence for People with Reduced mObility - aims to release an engineering framework for mobile devices designed for the autonomous movement of people with reduced mobility. Smart wheelchairs, provided with on-board sensors, to be trained with navigation algorithms in indoor and outdoor locations. Drones whose cooperation can be used to study environments, monitor them, and detect fixed or moving entities. Virtual Reality and Imitation Learning able to anticipate multiple operational scenarios and allow algorithms to be adapted, case by case, on the basis of previous experience. Bio-inspired navigation models, trained through implicit and explicit user communication, also with the aim of increasing users' confidence in the technologies used.

	Project details
Project acronym	REXASI-PRO
Project title	REliable & eXplAinable Swarm Intelligence for People with Reduced mObility
Starting date	01/10/2022
Duration	36 months
Call identifier	HORIZON-CL4-2021-HUMAN-01-01
Grant agreement no.	101070028

Table 1: Project details

1.2. Purpose of this document

This document presents the project's "Plan on Communication and Dissemination of Results". The purpose of this document is to define the strategy and implementation measures envisioned to efficiently communicate and disseminate project outputs in order to ensure the best exploitation of its results, as part of Work Package 8 – "Exploitation, Dissemination, and Communication". It serves as a management tool to ensure that the REXASI-PRO communication and dissemination activities are well planned, timely and properly implemented.

1.3. Maintenance of this document

This document is planned to be a living item. Therefore, contents will be updated throughout the project and follow-up reports will be released at M18 and M36.

Versions management		
Version	Due date	Description
V1 (M3)	31/12/2022	Preliminary plan
V2 (M18)	31/03/2024	Consolidated plan
V3 (M36)	30/09/2025	Collection of C&D results

Table 2: Maintenance of D8.2

2. COMMUNICATION AND DISSEMINATION STRATEGY

2.0. Communication and Dissemination objectives

The strategy involves progressively increasing the communication and dissemination of project activities and results throughout the project timeline. Individual communication and dissemination actions will be linked to the achievement of key project results and milestones, such as pilot test completion. The methods implemented will be dependent on the message being communicated and the target audience.

The strategy should ensure the key work plan and outcomes of REXASI-PRO:

Objectives	Starting
Raise awareness of the REXASI-PRO project	M6
Develop REXASI-PRO presence in the media and social networks	M6
Engage end users and stakeholders interested in REXASI-PRO solution	M6
Dissemination of results at scientific events	M12
Showing REXASI-PRO in public events via demos	M18
Use cases to exhibit and demonstrate activities and results	M24

Table 3: Communication and Dissemination objectives

The triggering of individual communication and dissemination actions will be linked with the achievement of key project deliverables and milestones. Some partners are also members of conferences and journal advisory boards which will be leveraged for publications and for the organization of special issues or events.

2.1. REXASI-PRO Value Proposition and key messages

The following focus areas and key messages of the REXASI-PRO project have been defined in order to maximise the effect of the communication, dissemination, and exploitation efforts. These may be subject to modification throughout project implementation, based on stakeholders' involvement and feedback, as well as the results of the testing and pilots as they become available.

Focus area	REXASI-PRO key messages
Technology	The REXASI framework is a trustworthy AI system in which the knowledge base and operations can be traced with the assurance that the system will not perform unintended or unpredictable actions.
Society	The software developed is free from bias and ensures that in the mixed team (human, robot). The human is always in the loop and in control.
Industry	Certification of safe autonomy, with reference to trusted sensing for event detection using redundant and diverse technologies, in presence of environmental disturbances, performance degradations, and other uncertainties. Industry uptake of the final solution(s).

Table 4: REXASI-PRO key messages

2.2. Identification of the target groups

External communication and dissemination address relevant stakeholders at different levels (general public, scientific community, and industry) and REXASI-PRO partners will leverage on their European and international-wide networks to get in contact with both potential customers of the REXASI-PRO solution as in Figure 1.

	Scientific community and projects	Industry	End-users	Policy makers
MOTIVATIONS	<ul style="list-style-type: none"> Scientific Dissemination Ad-hoc communication Exploitation actions Cross domain collaboration/ cooperation at national, European and international level 	<ul style="list-style-type: none"> Ad-hoc communication Exploitation actions Technology transfer Leverage on data for service customisation 	<ul style="list-style-type: none"> Ad-hoc communication Awareness Involvement in the project activities Costs-benefits presentation 	<ul style="list-style-type: none"> Scientific Dissemination Ad-hoc communication Exploitation actions Draft of a roadmap towards the certification and commercialization of autonomous wheelchairs
EXAMPLES	<ul style="list-style-type: none"> Researchers in artificial intelligence Researchers in robotics Scientists in digital technologies 	<ul style="list-style-type: none"> Wheelchairs manufacturers Manufacturers drones for indoor navigation AGVs for indoor navigation 	<ul style="list-style-type: none"> Wheelchairs users and their families Caregivers Users of other considered autonomous vehicles 	<ul style="list-style-type: none"> Governments/ Institutions at European and international level Standardisation and certification bodies

Figure 1: Main groups of interests for REXASI-PRO

Activities will include development of marketing strategies, participation in fairs and events aiming at nurturing synergies with other academic and commercial partners in the value chain. Stakeholders identified so far include:

- Wheelchair’s manufacturers (e.g., Ottobock, ALBA Robot)
- Automated Guided Vehicles (e.g., BlueBotics)
- Companies certified ISO-27001 (or similar), especially CPS/IT/OT producers interested in Cybersecurity Risk Assessment Methodology
- Use case end-users (people need a wheelchair/wheelchair users)
- Caregivers
- Governments/policy makers
- Scientific/research community active in the involved fields

2.3. Communication and dissemination strategies

REXASI-PRO will combine numerous communications and dissemination actions to achieve its expected impacts and maximise its societal, scientific, and technological repercussions. The boundaries between communication and dissemination are often blurry and can sometimes overlap (see Section 1.1). Briefly, communication activities are focused on promoting the project itself as well as the results to a wide range of audiences including the general public. Dissemination involves the sharing of results to various target groups.

Dissemination activities will be undertaken as a part of an overall strategy composed by three types of actions:

- i. **Scientific dissemination:** publication of papers in highly relevant international conferences and journals. Research results should always be published in peer-reviewed open access journals in accordance with the principles of Open Science.

Similarly, research data not suitable for commercial use will be publicly available in an open repository in accordance with the principles of Open Data.

- ii. **Organization of and participation in international workshops and communities:** international workshops will be organized around the topic addressed within REXASI-PRO for face-to-face contact of the partners. The workshops organized by REXASI-PRO may also be open to interested third parties, stakeholders, outside researchers and students. In addition, the participation in selected workshops will be leveraged in a view of bringing additional value to the scientific activities.

2.4. Communication and dissemination KPI

To measure the quality of the communication activity, the following KPIs have been identified.

Communication Tool	KPI	Expected M36
Project presentation/poster	Nr. of presentations	10
Press releases	Nr. of copies	10+
Project News	Nr. of news on the website	12+
Social Networks	Nr. of posts	100+
Multimedia informative materials (video, interviews)	Nr. of media	10
Publications in professional magazines	Nr. of articles published	10
Participation in events/conferences	Nr. of events	6+
Organization of events/workshops	Nr. of events	4+

Table 5: Communication KPI

To measure the quality of the dissemination activity, the following KPIs have been identified.

KPI description	KPI target
Scientific publication to journals supporting REXASI-PRO approach	At least 10 journals and 20 conference papers
Impact factor of journals considered for publication	Greater than 1
Number of workshops attended/organized	At least 20/3 (one per year)
Percentage of ISI indexed journal	90%
Ranking of conferences (according to CORE or similar)	90% must belong to tier 1 A or tier B2

Table 6: Dissemination KPI

2.5. Implementation Plan Timeline

In these first months of the project the consortium has focused on the definition of the branding, the creation of the communication kit and of the website. Starting M4 the partners will agree on an editorial plan which will define the roadmap for the creation of communication and dissemination materials along the results achieved. Here below a preliminary table for the implementation C&D activities.

Communication and Dissemination	Expected	Responsible partner
Communication Kit (branding, ppt, template)	M3	SPXL
Project website	M4	SPXL
Project Editorial plan	M6	SPXL
Social network accounts	M6	SPXL
Project Video	To be defined in the Editorial plan starting M6.	ALL partners involved
Project public deliverables		
Publications in professional magazines		
Publications overview of peer-reviewed journals/conference-proceedings		
International workshops and communities		

Table 7: C&D implementation timeline

2.6. Internal communication and dissemination

Ensuring effective internal communication and dissemination among the Consortium partners represents an important key success element for the REXASI-PRO Project. All REXASI-PRO's partners are important for dissemination for two reasons. Firstly, they are potential users of REXASI-PRO project results themselves and secondly, they represent "influencers" because of their huge impact on the associated scientific and industrial sectors. Particularly REXASI-PRO consortium partners comprise important academic and market players in various segments, and this constitutes a natural channel for the dissemination of the project and its results to other potential users. In this respect, the dissemination activities rely on the effort and the possibility of each partner in exploiting opportunities to present the project and its results. Therefore, it is important to communicate information about REXASI-PRO project and its results to partners' management, consultants, and people responsible for their marketing and sales. Additionally, it is necessary to encourage them to share this information further to their customers and business partners. The internal communication strategy also pursues the objective to maintain all partners fully informed about planning, work in progress and existing or potential problems. All partners are invited to actively communicate with Communication and dissemination responsible partners (SPXL and USE). Documents and files for internal communication can be uploaded on the Project Collaborative space set-up on the Sharepoint Platform.

3. COMMUNICATION AND DISSEMINATION TOOLS

Depending on the message to be communicated and the target group, appropriate methods will be implemented, beginning from press releases, social media posts, news



on project website, publications through conferences, workshops, and direct interaction with stakeholders.

Based on the occasion, we will reach out stakeholders using different channels. As for the everyday communication, REXASI-PRO will use flexible and dynamic digital channels such as newsletter, social networks, and website. Traditional tools as publications, posters, flyers, and branded gadgets (t-shirt, cups, etc) will be chosen for dissemination of results in public events.

Below is a description of the main tools we are going to use in REXASI-PRO Project. A **communication and dissemination kit** including the branding, template and ppt will be integrated with a project leaflet and project website by M6.

3.1. Project presentation

The main objective of the project presentation is to provide our audiences with an attractive project overview and a summary of the main project objectives and characteristics. It introduces the main idea, the approach, and the expected outcomes of the REXASI-PRO project. All partners' logos are also displayed. The presentation will be updated based on the objectives of the event and or meeting.

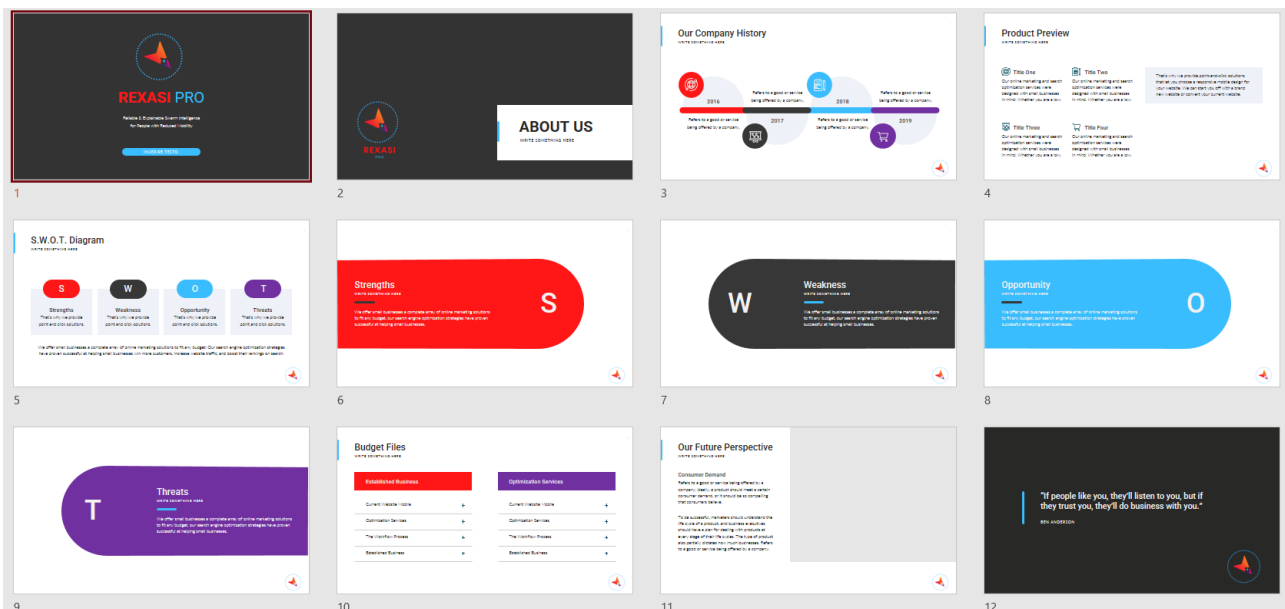


Figure 2: Project presentation template

3.2. Project Flyer

As for the project presentation, the main objective of the project leaflet is to provide our audiences with an attractive and written project overview and a summary of the main project objectives and characteristics. It includes the website address and contact info. All partners' logos are also displayed. Differently from the project presentation, the leaflet can be circulated in printed form (e.g. it can be handed over at conferences or other events) and in an electronic version sent via email or downloadable from the website.

3.3. Project website

The website is the main dissemination portal for the project. The website will be online at M4. It performs two functions: the first is institutional, the second is designed to attract attention from industry and stakeholders. It also provides materials and news to be communicated to a wider audience.

3.4. Project News

Articles, interviews, and background information can be found in the news section of the project website, which is constantly updated with new project developments. This section of the website is the main communication and dissemination channel of the project.

3.5. Press releases

Press Release is a formal announcement to the national or specialised/technical press. Goal of the press release is to present a short overview of the REXASI-PRO project to the public and its following achievements. A template has been created. Each partner will draft their own press releases focusing on country or business specific points. The first press release was published after the REXASI-PRO kick off meeting on 20/10/2022.

3.6. Social network accounts

The consortium will decide upon the usage of social networks. Options include Twitter, ResearchGate, and LinkedIn. The Twitter and LinkedIn accounts will be mostly operated by SPXL, whereas ResearchGate will be managed by USE. Rules will be defined for the engagement of all partners that will be encouraged to follow the project social profiles and share new posts both as organizations and individuals.

3.7. Multimedia materials

Multimedia materials include photos, videos, audio interviews and video materials from the use cases from project events. They are tools intended for a wider audience than just specialists.

3.8. Project public deliverables and reports

Upon approval by the European Commission all deliverables indicated as public in Annex 1 to the Grant Agreement must be made available in public domain. Public access will be made to deliverables in forms other than a report (e.g. demos), while deliverables in a form of reports will be published on project website for downloading, presented during the events organised inside as well as outside the project. The table below lists public deliverables in a form of a report to be published on the REXASI-PRO website.

ID	Deliverable title	Lead	Due date
D4.8	3D safety layer software stack with precomputed deceleration volumes for the specific platforms	DFKI	September 2024
D7.6	Assessment of qualitative and quantitative performance criteria for smart wheelchairs in individual operation	DFKI	September 2025
D7.7	Evaluation and test results for flying robots with respect to reduced power consumption and secure communication	HSOL	September 2025

Table 8: Public deliverables (report)

3.9. Publications in professional (online) magazines

REXASI-PRO results and developments will be published in professional magazines and international news agencies from the science and technology sectors. The consortium collected a list of potential magazines to contact for publishing REXASI-PRO's results. Main professional magazines are identified below.

Scientific magazines	Website
New Scientist	https://www.newscientist.com/
Scientific American	https://www.scientificamerican.com/
WIRED	https://www.wired.com/
The Smithsonian	https://www.si.edu/
Cosmos Magazine	https://cosmosmagazine.com/
Science News	https://www.sciencenews.org/
The Conversation	https://theconversation.com/uk
AlphaGalileo	https://www.alphagalileo.org/en-gb/
EurekAlert	https://www.eurekalert.org/

Table 9: List of potential online magazines and news agencies

3.10. Publications in peer-reviewed scientific journals

Papers in peer reviewed scientific journals will serve as a tool for disseminating the results towards the scientific community for an uptake to further advancements in science and technology. The table below presents a non-exclusive list of scientific journals which can be used for REXASI-PRO dissemination towards the scientific community (Sensors, vision and networks, Robotics and Control Systems, swarm robotics, verification techniques, autonomous vehicles, Internet of Things, HCI, Computer Vision, Cybersecurity). Main scientific journals are identified below.

Scientific journals	Ranking (JCR)	Category (JCR)
Nature	1/73	Multidisciplinary Sciences

Science	2/73	Multidisciplinary Sciences
Procs of the National Academy of Sciences of USA	9/73	Multidisciplinary Sciences
Neural Networks	15/139	Computer Science, Artificial Intelligence
Artificial Intelligence	11/139	Computer Science, Artificial Intelligence
IEEE Transactions on Neural Networks and Learning System	3/53	Computer Science, Hardware & Architecture
International Journal on Software Tools for Technology Transfer	88/110	Computer Science, Software Engineering
Journal of Machine Learning Research	19/65	Automation & Control System
IEEE Robotics & Automation Magazine	9/30	Robotics
Swarm Intelligence	13/30	Robotics
Future Generation Computer Systems	51/70	Computer Science, Theory & Methods
IEEE Transactions on Intelligent Transportation Systems	19/276	Engineering, Electrical & Electronic
Journal of Computer Security	209/246	Computer Science, Information & Systems
Journal of Reliable Intelligent Environments		
Discover Artificial Intelligence		
Special Issue on robotics for assistance from Paladin, Journal of Behavioural Robotics - De Gruyter		

Table 10: List of scientific journals

3.11. List of events and conferences

REXASI-PRO partners will participate and present the project at a variety of target group-oriented events such as professional conferences, exhibitions and trade shows, meetings, and workshops. Main target academic conferences are identified below (place and date will be updated every year).

International conferences	Acronym	Place	Date
International Conference on Machine Learning	ICML	Hawaii (USA)	July 2023
IEEE Conference on Computer Vision and Pattern Recognition	CVPR	Vancouver (Canada)	July 2023
International Conference on Artificial Neural Networks	ICANN	Crete (Greece)	September 2023
International Conference on Computer-Aided verification	CAV	Paris (France)	July 2023
International Conference on Availability, Reliability and Security	ARES	Benevento (Italy)	September 2023
Conference on Neural Information Processing Systems	NeurIPS	TBD	TBD
ACM/IEEE International Conference on Cyber-Physical Systems	ICCPS	Texas (USA)	May 2023



ACM International Conference on Hybrid Systems: Computation and Control	HSCC	Texas (USA)	May 2023
IEEE International Conference on Cyber Security and Resilience	IEEE-CSR	Venice (Italy)	July 2023
International Conference on Computer Safety, Reliability and Security	SafeComp	Toulouse (France)	September 2023
International Symposium on Trustworthy Autonomous Systems	TAS	Edinburgh (UK)	July 2023
International Symposium on Robot and Human Interactive Communication	RO-MAN	Busan (Korea)	August 2023
International Conference on Rehabilitation Robotics	ICRR	Boston (USA)	April 2023
IEEE/RSJ International Conference on Intelligent Robots and Systems	IROS	Detroit (USA)	October 2023
IEEE Computer Security Foundations Symposium	CSF	Dubrovnik (Croatia)	July 2023
IEEE Symposium on Security and Privacy	S&P	California (USA)	May 2023
IEEE Euro Security and Privacy	Euro S&P	Delft (The Netherlands)	July 2023
European Symposium on Research in Computer Security	ESORICS	The Hague (The Netherlands)	September 2023

Table 11: List of events

This will also include organisation of dedicated sessions, workshops at these events to ensure a larger visibility of the project, develop networking relationships with stakeholders and liaison with ongoing initiatives. Conferences where we will look for the opportunity to organise a dedicated session are:

International events	Place	Date
https://cps-iot-week2023.cs.utsa.edu/	Texas (USA)	May 2023
https://www.icra2023.org/	London (UK)	May 2023
https://cdc2023.ieeecss.org/	Marina Bay Sands (Singapore)	December 2023
https://www.ieee-csr.org/	Venice (Italy)	July 2023
https://safecomp2023.cnrs.fr/	Toulouse (France)	September 2023
https://symposium.tas.ac.uk	Edinburgh, UK	July 2023
https://www.ieee-security.org/TC/SP2023/	California (USA)	May 2023

Table 12: List of events for joint sessions

REXASI-PRO will organize 4 thematic workshops. The consortium will decide the most suitable ways for organizing them. They might be in presence or online and will be possibly organized in conjunction with other bigger events. Here below the table that shows a tentative scheduling of the workshops.

Thematic workshops	Partner	Place	Date
--------------------	---------	-------	------

Computational Topology and Green, Reliable and Explainable AI Workshop	USE	Sevilla (Spain)	May 2023
Indoor Navigation Workshop	HSOL	Madrid (Spain)	May 2024
Exploitation Workshop	EURONET	Online	May/ June 2025
Swarm Intelligence for People with Reduced mObility Workshop	SPXL	Trento (Italy)	September 2025

Table 13: Tentative list of thematic workshops

4. REXASI-PRO BRANDING

This section provides the visual identity of REXASI-PRO. It includes project logo, project colours, and fonts and text formatting.

4.1. Project Logo

The project logo should appear in any communication and dissemination material. Modified versions of the logo (e.g. monochromatic, vertical alignment...) might be created during the project.

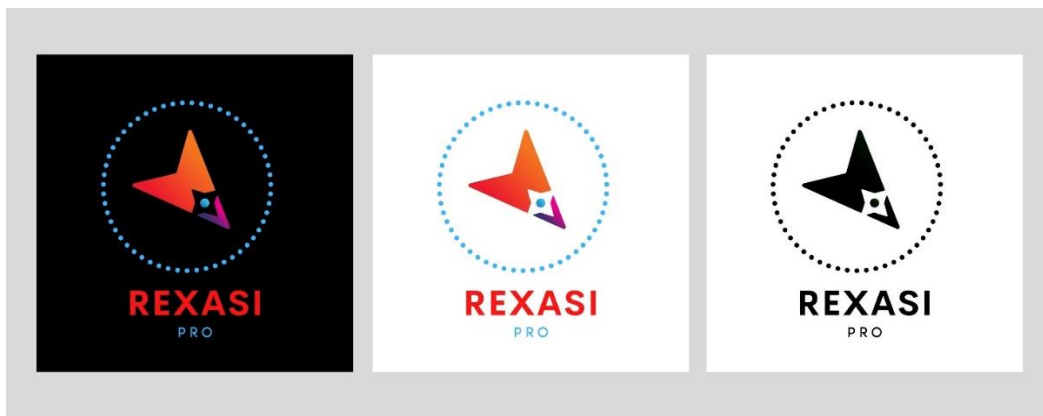


Figure 3: Project logo

4.2. Project colours

The following colours should be used to outline the visual identity of any communication material.



Figure 4: Colour palette

4.3. Project fonts

Two types of fonts will be used for written contents in REXASI-PRO. ‘Montserrat’ is to be used mostly for written materials (documents and flyer), whereas ‘Lato’ for visual materials (web and ppt).

Font	Usage
Montserrat <i>Montserrat</i> Montserrat	for written materials (documents and flyer)
Lato <i>Lato</i> Lato	for visual materials (web and ppt).

Table 14: Fonts of the project

5. RULES AND POLICIES FOR COMMUNICATION AND DISSEMINATION ACTIONS

5.1. Communication and dissemination management

To manage the external communication and the publication of REXASI-PRO messages in whatever form (magazines, presentations, papers etc.) the Consortium should refer to the guidelines described in this report and inform Communication Lead (SPXL) and Dissemination Lead (USE). Each partner will appoint internal persons that will oversee the accomplishment of the foreseen communication and dissemination tasks.

5.2. Roles and responsibilities of project partners

All partners of the consortium are responsible for getting engaged and actively supporting REXASI-PRO communication and dissemination activities, especially within their area of expertise and project tasks. Activities should be performed using all available tools and includes participating and giving presentations at conferences, publishing papers, networking etc to maximise the impact of REXASI-PRO results for future adoption and successful commercialisation.

Responsibilities:

- Overview of the dissemination and exploitation plan

- Preparation of press releases
- Publication of project news on partner website
- Input to the project news
- Stakeholder engagement and interaction via own channels and networks
- Creation of multimedia materials
- Participation in industry and networking events
- Organization of stakeholder meetings
- Publications in peer-reviewed journals
- Participation to scientific conferences
- Overall communication and dissemination coordination
- Development of project communication tools
- Release of the project website and project newsletters
- Newsletter translation
- Creation of local, regional, and national press releases

5.3. Obligations

According to both Grant Agreement and Consortium Agreement, all partners are expected to disseminate their results as soon as feasible, in a publicly available format, subject to any restrictions due to the protection of intellectual property, security rules or legitimate interests (art. 17).

5.3.1. Dissemination Policy

Before results can be disseminated protection of the results must be considered. As per art. 17 of the Grant Agreement.

5.3.2. Advanced notice

Advanced notice of the dissemination of results is required as per Article 17 of the Grant Agreement. A beneficiary that intends to disseminate its results must give at least 15 days advance notice to the other beneficiaries (unless agreed otherwise), together with sufficient information on the results it will disseminate. Any other beneficiary may object within (unless agreed otherwise) 15 days of receiving notification if it can show that its legitimate interests in relation to the results or background would be significantly harmed. In such cases, the results may not be disseminated unless appropriate steps are taken to safeguard those interests.

5.3.3. Disclaimer

Publications and reports should contain a disclaimer. If the document is confidential, the results may not be disseminated unless appropriate steps are taken to safeguard those interests.

“Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union, which cannot be held responsible for them. This document contains information, which is proprietary to the REXASI-PRO consortium. Neither this document nor the information contained herein shall be used, duplicated, or communicated by any means to any third party, in whole or in parts, except with the prior written consent of the REXASI-PRO consortium. This restriction legend shall not be altered or obliterated on or from this

document. Neither the European Commission nor the REXASI-PRO project consortium are liable for any use that may be made of the information that it contains."

5.3.4. Acknowledgement of EU funding

Beneficiaries of EU funding must display the EU flag and the following funding statement in all their public communication and dissemination activities and any infrastructure, equipment, vehicles, supplies or major result results funded by the grant.

"This work was partially supported by the REXASI-PRO project that has been funded by the European Union's Horizon 2020 research and innovation program under grant agreement No 101070028-2. The content reflects the views of the authors only. The European Commission is not liable for any use that may be made of the information contained herein. "

The EU flag and funding statement must be displayed in a way that is easily visible for the public and with sufficient prominence. EU funding must moreover be acknowledged in all types of public outputs (including patent applications, EU standardisation of results), media contacts and other public statements.

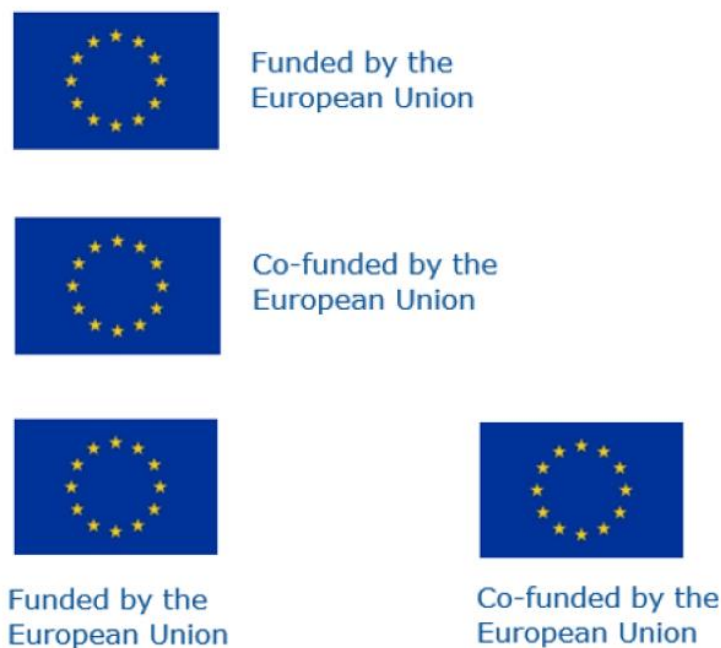


Figure 5: EU Flag images

The EU flag and funding statement are available in the Grant Agreement and on the European Union website ([Link](#)) and also in REXASI-PRO Sharepoint (WP8\Communication).

5.3.5. Open access to scientific publications

As required by the Grant Agreement, the beneficiaries must ensure open access to peer-reviewed scientific publications relating to their results. In particular, they must ensure that:



- at the latest at the time of publication, a machine-readable electronic copy of the published version or the final peer-reviewed manuscript accepted for publication, is deposited in a trusted repository for scientific publications (e.g. arXiv)
- immediate open access is provided to the deposited publication via the repository, under the latest available version of the Creative Commons Attribution International Public Licence (CC BY) or a licence with equivalent rights; for monographs and other long-text formats, the licence may exclude commercial uses and derivative works (e.g. CC BY-NC, CC BY-ND) and
- information is given via the repository about any research output or any other tools and instruments needed to validate the conclusions of the scientific publication.

Beneficiaries (or authors) must retain sufficient intellectual property rights to comply with the open access requirements.

Metadata of deposited publications must be open under a Creative Commons Public Domain Dedication (CC 0) or equivalent, in line with the FAIR principles (in particular machine actionable) and provide information at least about the following: publication (author(s), title, date of publication, publication venue); Horizon Europe or Euratom funding; grant project name, acronym and number; licensing terms; persistent identifiers for the publication, the authors involved in the action and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for any research output or any other tools and instruments needed to validate the conclusions of the publication. Only publication fees in full open access venues for peer-reviewed scientific publications are eligible for reimbursement.

5.3.6. Open science: research data management

The beneficiaries must manage the digital research data generated in the action ('data') responsibly, in line with the FAIR principles and by taking all of the following actions:

- establish a data management plan ('DMP') (and regularly update it)
- as soon as possible and within the deadlines set out in the DMP, deposit the data in a trusted repository; if required in the call conditions, this repository must be federated in the EOSC in compliance with EOSC requirements
- as soon as possible and within the deadlines set out in the DMP, ensure open access — via the repository — to the deposited data, under the latest available version of the Creative Commons Attribution International Public License (CC BY) or Creative Commons Public Domain Dedication (CC 0) or a licence with equivalent rights, following the principle 'as open as possible as closed as necessary', unless providing open access would in particular:
 - be against the beneficiary's legitimate interests, including regarding commercial exploitation, or
 - be contrary to any other constraints, in particular the EU competitive interests or the beneficiary's obligations under this Agreement; if open access is not provided (to some or all data), this must be justified in the DMP
- provide information via the repository about any research output or any other tools and instruments needed to re-use or validate the data.

Metadata of deposited data must be open under a Creative Common Public Domain Dedication (CC 0) or equivalent (to the extent legitimate interests or constraints are safeguarded), in line with the FAIR principles (in particular machine-actionable) and provide information at least about the following: datasets (description, date of deposit, author(s), venue and embargo); Horizon Europe or Euratom funding; grant project name, acronym and number; licensing terms; persistent identifiers for the dataset, the authors involved in the action, and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for related publications and other research outputs.

CONCLUSIONS

In this document we presented the initial overall strategy adopted by the REXASI-PRO consortium in order to manage the dissemination and communication activities that will be conducted during the upcoming stages of the project lifecycle, so to raise the awareness level of the outside world in relation to the challenges and goals that are planned to be achieved.

As described, a multidisciplinary approach will be implemented, ranging from the attendance to workshops and seminars to the end-user groups engagement activities. The scientific milestones will reach an appropriate dissemination level through the publication on journals and posters and the social channels will provide constant updates for both intra and extra consortium communications.

An update of this deliverable will be conducted at M18 and M36 by all the involved partners to finetune and monitor the implementation of the foreseen communication and dissemination plans.

6. UPDATE OF D6.2

In this paragraph an update of the D&C activities is reported with regard to the objectives and strategies defined at M3.

Depending on the message to be communicated and the target group, appropriate methods were implemented, beginning from press releases, social media posts, news on project website, publications through conferences, workshops, and direct interaction with stakeholders.

The project is in line with the objectives and KPI described in the previous sections.

C&D Objectives	Expected	Status
Communication Kit (branding, ppt, template)	M3	Achieved
Project website	M4	Achieved
Project Editorial plan	M6	Achieved
Social network accounts	M6	Achieved
Project Video	M12	Achieved
Project public deliverables	Ongoing	Partially achieved
Publications in professional magazines	Ongoing	Partially achieved
Publications in journals or conference	Ongoing	Partially achieved
International workshops	Ongoing	Partially achieved

Communication and Dissemination objectives

C&D KPI	KPI expected --> M36		M18
Project presentation/poster	Nr. of presentations	10	6
Press releases	Nr. of copies	10+	3
Project News	Nr. of news on the website	12+	16
Social Networks	Nr. of posts	100+	90
Multimedia (video, interviews)	Nr. of media	10	4
Publications in magazines	Nr. of articles published	10	2
Participation in events/conferences	Nr. of events	6+	1
Organization of events/workshops	Nr. of events	4+	2
Publications for Conferences	Nr. of articles published	20	7
Publications for Journals	Nr. of articles published	10	5

Communication and Dissemination KPI

Below is a description of the main achievements up to M18 including the flyer and website developed in M6. Based on the occasion, stakeholders were reached out using different channels. As for the everyday communication, REXASI-PRO used flexible and dynamic digital channels such as LinkedIn and the website.

Communication and dissemination actions have been linked with the achievement of key project deliverables and milestones. Some partners are also members of conferences and journal advisory boards, which were leveraged for publications and for the organization of special issues or events.

With regard to the target groups, due to the nature of the results, which deal with research achievements, the main target groups of C&D activities have been the research community and wider audience interested in ethical aspects. Other target users from

the market will be reached out as part of the exploitation task in the second half of the project.

The two main drivers of REXASI-PRO communication and dissemination activities have been the editorial plan and the Trustworthy AI Cluster described below.

6.1. Editorial plan

The partners agreed on an editorial plan which defines the roadmap for the creation of communication and dissemination materials along the results achieved. The editorial plan was created based on the list of deliverables and outcomes foreseen in the project.

The editorial plan is basically a calendar where for each month we defined main contents, that is project's outcomes foreseen for that month, and additional contents which can be created in parallel. The types of content we collected for C&D purposes are: public deliverable, article on magazine, images and video.

As a results, in the editorial plan we have scheduled at least 2 contents each month which are multiplied using the REXASI-PRO communication channels namely the LinkedIn page and the project website.

6.2. Trustworthy AI Cluster

The nine projects funded by the HORIZON-CLA-2021-HUMAN-01 call have gathered together to form the TrustWorthy AI Cluster <https://rexasi-pro.spindoxlabs.com/networks/>. The funded projects propose standardisation methods to foster AI industry, helping to create, and guarantee trustworthy and ethical AI, and in support of the Commission regulatory framework. Our sibling projects are AutoFair, ENEXA, EVENFLOW, TUPLES, SAFEXPLAIN, SustainML, TALON, and ULTIMATE.

The aim of the cluster is to promote possible collaborations, mainly in the overlapping topics and help each other with the dissemination and communication activities. A cross-projects communication strategy with the aim of increasing outreach by leveraging on each project's communication channels. All projects have been invited to dedicate a webpage on their websites describing the cluster and a social network campaign is also in progress. The cluster is also organizing joint events on common topics. A joint webinar is planned for next May 2024.

7. C&D REPORT

7.1. Project Flyer

As for the project presentation, the main objective of the project leaflet is to provide our audiences with an attractive and written project overview and a summary of the main project objectives and characteristics. It includes the website address and contact info. All partners' logos are also displayed. The leaflet can be circulated in printed form (e.g. it can be handed over at conferences or other events) and in an electronic version sent via email or downloadable from the website ([ABOUT\Outcomes\Flyer](#)).



REXASI PRO

REliable & eXplainable Swarm Intelligence for People with Reduced mObility

The REXASI-PRO project aims to release a novel engineering framework to develop greener and Trustworthy Artificial Intelligence solutions. The project will develop in parallel the design of novel trustworthy-by-construction solutions for social navigations and a methodology to certify the robustness of AI-based autonomous vehicles for people with reduced mobility.

GREENER AI SOLUTION
Planet-caring is a dimension on which we cannot neglect, today. We will develop an AI-Based system to orchestrate the fleet of AI-Based Swarm and a dataset optimisation for REXASI-PRO algorithm which is based on topology (in order to compress the dataset without compromising data). Both systems will reduce costs and power consumption.

TRUSTWORTHY BY CONSTRUCTION
The functioning of AI system requires appropriate respect for potentially vulnerable persons and groups, such as persons with disabilities and others at risk of exclusion.

ROBUST, SAFE, SECURE & RELIABLE AUTONOMOUS WHEELCHAIR
In the context of social robotic navigation, trustable environmental sensing is essential to guarantee robustness against uncertainties, malfunctions, and disturbances. A smart-sensing subsystem will be designed with the aim of providing trusted event detection.

Work Packages

- WP - I: Project Management and Coordination
- WP - II: Requirements for the development of REXASI framework
- WP - III: Design of trustable solutions for social robotic navigation
- WP - IV: Verification and Validation of the REXASI framework
- WP - V: Explainable AI methods to increase the reliability of AI systems
- WP - VI: Decision Science and Topology-based methods for Greener AI
- WP - VII: Demonstration of REXASI-PRO for people with reduced mobility
- WP - VIII: Exploitation, dissemination, and communication

Ethics
The functioning of AI system requires appropriate respect for potentially vulnerable persons and groups, such as persons with disabilities and others at risk of exclusion. We will create a multi-phase framework for assessing ethical issues of a Multi-Robot Systems and Data Collection Platform supporting people with mobile disabilities gap.

Exploitability
We will work on the definition of a roadmap of the certification and commercialization of autonomous wheelchairs by developing an exploitation strategy to support the adoption solution in the market. It will include an analysis of the main non-economic aspects relevant for a successful implementation.

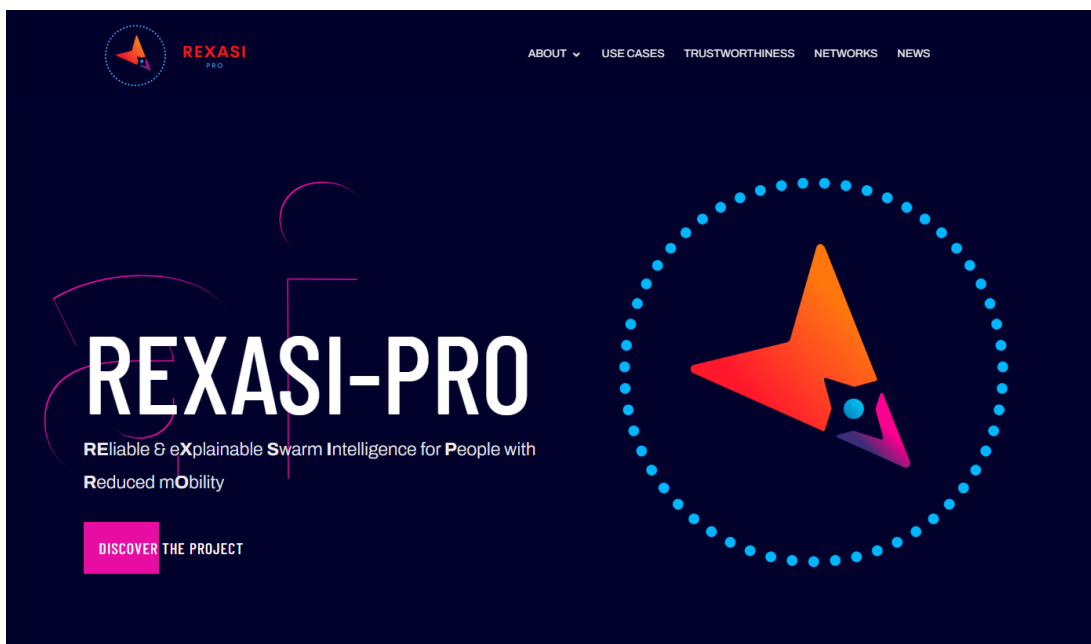
DISCOVER THE PROJECT

Partners: Spinbox LABS, KINOS, SUPSI, EURONET, LIS, aitek, DEVERP, V-Research

Funded by the European Union
Call: HORIZON-CL4-2021-HUMAN-01
Duration: 01/Oct 2022 - 30/Sept 2025
Project ID: 101070028

7.2. Project website

The website is the main dissemination portal for the project. The website is online since M4. It performs two functions: the first is institutional, the second is designed to attract attention from industry and stakeholders. It also provides materials and news to be communicated to a wider audience.



REXASI PRO

ABOUT | USE CASES | TRUSTWORTHINESS | NETWORKS | NEWS

REXASI-PRO

REliable & eXplainable Swarm Intelligence for People with Reduced mObility

DISCOVER THE PROJECT

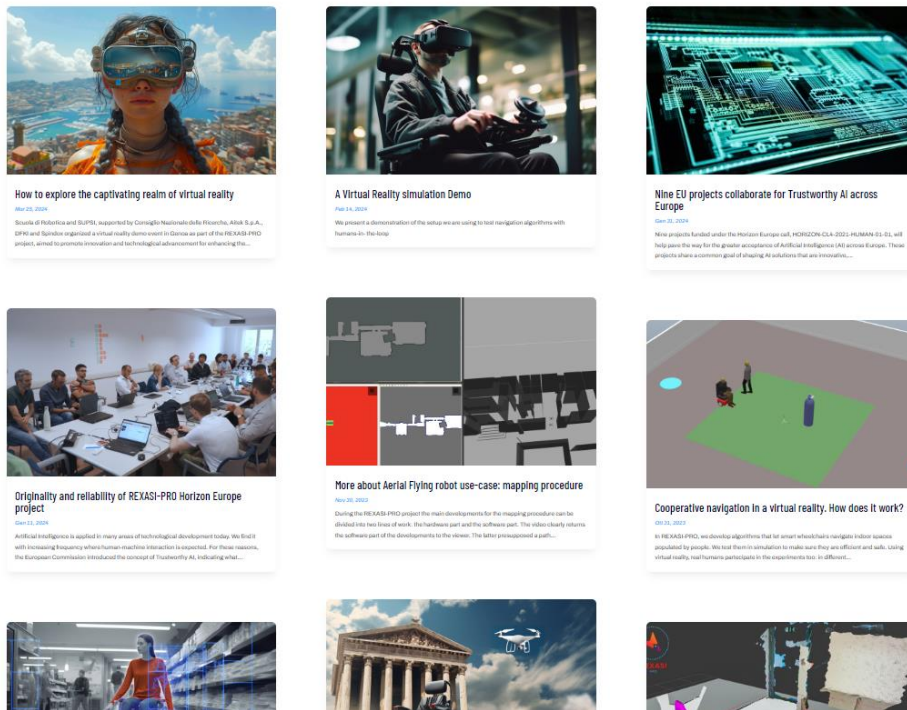
The website has been designed collecting all the partners' feedback. It is constantly updated and enriched with new sections based on the needs for communication. The

URL of the website was set under the coordinator's website domain (rexasi-pro.spindoxlabs.com) as per latest indications from the EC.

7.3. Project News

Articles, interviews, and background information can be found in the news section of the project website, which is constantly updated with new project developments. This section of the website is the main communication and dissemination channel of the project. This section contains 16 news at M18 (rexasi-pro.spindoxlabs.com/news/).

News & Updates



- How to explore the captivating realm of virtual reality**
04/25/2024
Source: © iRobotica and SUPPE, supported by Consiglio Nazionale delle Ricerche, At&S S.p.A., DFG and Spindox organized a virtual reality demo event in Genoa as part of the REXASI-PRO project, aimed to promote innovation and technological advancement for enhancing the...
- A Virtual Reality simulation Demo**
04/25/2024
We present a demonstration of the setup we are using to test navigation algorithms with humans-in-the-loop.
- Nine EU projects collaborate for Trustworthy AI across Europe**
04/25/2024
Nine projects funded under the Horizon Europe call, HORIZON-CIA-2021-HEUMAN-01-01, will help pave the way for the greater acceptance of Artificial Intelligence (AI) across Europe. These projects share a common goal of shaping AI solutions that are innovative...
- Originality and reliability of REXASI-PRO Horizon Europe project**
04/11/2024
Artificial intelligence is applied in many areas of technological development today. We find it with increasing frequency where human-machine interaction is required. For these reasons, the European Commission introduced the concept of 'Trustworthy AI', indicating what...
- More about Aerial Flying robot use-case: mapping procedure**
04/25/2024
During the REXASI-PRO project the main developments for the mapping procedure can be divided into two lines of work: the hardware part and the software part. The robot-ready returns the software part of the developments to the viewer. The latter preprocessed a path...
- Cooperative navigation in a virtual reality. How does it work?**
04/25/2024
In REXASI-PRO, we develop algorithms that let smart wheelchairs navigate indoor spaces populated by people. We test them in simulation to make sure they are efficient and safe. Using virtual reality, real humans participate in the experiments too. In different...
- Human-robot interaction in a virtual reality environment**
04/25/2024
The REXASI-PRO project aims to develop a virtual reality environment where people can interact with a robot. This environment will be used to test navigation algorithms with humans-in-the-loop.
- Human-robot interaction in a virtual reality environment**
04/25/2024
The REXASI-PRO project aims to develop a virtual reality environment where people can interact with a robot. This environment will be used to test navigation algorithms with humans-in-the-loop.
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- Human-robot interaction in a virtual reality environment**
04/25/2024
The REXASI-PRO project aims to develop a virtual reality environment where people can interact with a robot. This environment will be used to test navigation algorithms with humans-in-the-loop.

7.4. Project video

At M12 we created a project video aimed at introducing REXASI-PRO and its first-year achievements to a wider audience. The video includes interviews to the coordinator and to the partners engaged in the use cases. It can be watched from the Home page of the website.



REXASI-PRO

The REXASI-PRO project aims to release a novel engineering framework to develop greener and Trustworthy Artificial Intelligence solutions. The project will develop in parallel the design of novel trustworthy-by-construction solutions for social navigations and a methodology to certify the robustness of AI-based autonomous vehicles for people with reduced mobility.



7.5. Multimedia

REXASI-PRO partners have been requested to create multimedia materials to be used for communication purposes. Among these materials are images, videos and animated gif that were used in our news section and reposted on LinkedIn.

The following ones are examples of multimedia contents embedded into the project website:

- Cooperative navigation in a virtual reality. How does it work? [LINK](#)
- More about Aerial Flying robot use-case: mapping procedure [LINK](#)
- Software module and hardware components for the REXASI-PRO 3D Driving Assistant [LINK](#)

Other multimedia contents were used for social media purposes.

7.6. Workshops and (online) events

REXASI-PRO partners participated in and organized events and workshops. Here below a brief description.

Conference Special Track:

- "xAI for Trustworthy & Responsible AI". The World Conference on eXplainable Artificial Intelligence. Chairs: Dr. Maurizio Mongelli, Dr. Rocio Gonzalez Diaz CNR, USE, 27/07/2023 - [LINK](#)

Workshops:

- "Formal Methods and Cyber-Security Workshop. Department of Informatics, King's College London." KCL, V-Research, Sep-23. - [LINK](#)
- "Computational Topology-Neural Networks Meeting", Sevilla, Spain, November 8-10, 2023. Organised by Universidad de Sevilla, some members of the project, from SPINDOX, SUPSI, CNR and USE, gathered, together with other experts, to discuss



about cutting-edge interactions between Computational Topology, Robotics and Neural Networks. - [LINK](#)

Online webinar:

- Cybersecurity Summit: navigare nel mosaico normativo (Feb 28th) VRE organized a workshop with an Italian legal office about the legal regulations with regard to Cybersecurity. The contents of the webinar were also communicated in English via LinkedIn in our pills dedicated to Cybersecurity. - [LINK](#)
- Seminario sull'AI-ACT: SDR in collaboration with AIT, CNR and SPXL organized a workshop dedicated to the AI ACT and impacts on AI-driven research activities (03/04/2024)

Demo session:

- "A Virtual Reality simulation Demo", organised by AITEK, CNR IEIIT, School of Robotics, 24-02-2024 at School of Robotics, Genova. - [LINK](#)

Invited speaker:

- "Topology Tools for Explainable and Green Artificial Intelligence (topology inside REXASI-PRO)". R Gonzalez-Diaz. Sixth EACA International School on Computer Algebra and its Applications. Santiago De Compostela, Spain, July 18-21, 2023 - [LINK](#)
- **Invited talk:** Research talk TED3: Introduction to REXASI-PRO project. Matteo Rucco. I Forum Artificial Intelligence and Sustainability, organised by Google and USE, 25-26 September 2023, Sevilla, Spain. - [LINK](#)

7.7. Publications in peer-reviewed scientific journals

Publication	Partner
Gonzalez-Diaz, R., Manuel Soriano-Trigueros, and A. Torras-Casas. "Partial matchings induced by morphisms between persistence modules." Computational Geometry 112 (2023) https://doi.org/10.1016/j.comgeo.2023.101985	USE
Ali, Dashti, Aras Asaad, Maria-Jose Jimenez, Vidit Nanda, Eduardo Paluzo-Hidalgo, and Manuel Soriano-Trigueros. "A survey of Vectorization Methods in Topological Data Analysis" IEEE Transactions on Pattern Analysis and Machine Intelligence (2023) https://doi.org/10.1109/TPAMI.2023.3308391	USE
Narteni, Sara, Marco Muselli, Fabrizio Dabbene, and Maurizio Mongelli. "Trustworthy artificial intelligence classification-based equivalent bandwidth control." Computer Communications 209 (2023): 260-272. https://doi.org/10.1016/j.comcom.2023.07.005	CNR
Carlevaro, Alberto, Marta Lenatti, Alessia Paglialonga, and Maurizio Mongelli. "Multi-Class Counterfactual Explanations using Support Vector Data Description." IEEE Transactions on Artificial Intelligence (2023). https://doi.org/10.1109/TAI.2023.3337053	CNR
G. De Bernardi, S. Narteni, E. Cambiaso and M. Mongelli, "Rule-Based Out-of-Distribution Detection," in IEEE Transactions on Artificial Intelligence (2023), https://doi.org/10.1109/TAI.2023.3323923	CNR
Gonzalez-Diaz, Rocío, Paluzo-Hidalgo, Eduardo, and Gutiérrez Naranjo, Miguel-Ángel. "Trainable and Explainable Simplicial Map Neural Networks."	USE

<https://arxiv.org/html/2306.00010v2> Accepted for publication in Information Sciences 2024

7.8. Conference papers

Publication	Partner
Francesca Cairoli, Nicola Paoletti, and Luca Bortolussi. 2023. "Conformal Quantitative Predictive Monitoring of STL Requirements for Stochastic Processes". In Proceedings of the 26th ACM International Conference on Hybrid Systems: Computation and Control (HSCC '23). Article 1, 1–11. https://doi.org/10.1145/3575870.3587113 ;	KCL; May-23
Franca Corradini, Francesco Flammini, and Alessandro Antonucci. 2023. "Probabilistic Modelling for Trustworthy Artificial Intelligence in Drone-Supported Autonomous Wheelchairs". In Proceedings of the First International Symposium on Trustworthy Autonomous Systems (TAS '23). Article 52, 1–5. https://doi.org/10.1145/3597512.3599716 ;	SUPSI; Jul-23
Carlevaro, G. De Bernardi, M. Lenatti, S. Narteni, M. Muselli, A. Paglialonga, F. Dabbene, M. Mongelli, "Are Digital Twins Suitable To Drive Safe AI?," BUILding a Digital Twin: requirements, methods, and applications, BUILD-IT workshop, Oct. 19-20 2023, Rome, Italy. http://inm.cnr.it/buildit2023/ http://inm.cnr.it/buildit2023/wp-content/uploads/2023/09/34_mongelli.pdf ;	CNR; Oct-23
De Bernardi, G., Narteni, S., Cambiaso, E., Muselli, M., Mongelli, M. (2023). "Weighted Mutual Information for Out-Of-Distribution Detection". In: Longo, L. (eds) Explainable Artificial Intelligence. xAI 2023. Communications in Computer and Information Science, vol 1903. Springer, Cham. https://doi.org/10.1007/978-3-031-44070-0_16 ;	CNR; Jul-23
Gianmarco Veruggio, Maurizio Mongelli, Fiorella Operto. "Roboethics in the Loop: the REXASI-PRO European Project". ICRES 2023: 8th International Conference on Robot Ethics and Standards, Utrecht, The Netherlands, 17-18 July 2023. https://clawar.org/icres2023/wp-content/uploads/2024/01/ICRES2023-Proceedings-Manuscript.pdf ;	CNR, SDR; Jul-23
Sara Narteni, Alberto Carlevaro, Fabrizio Dabbene, Marco Muselli, Maurizio Mongelli. "CONFIDERA: a novel CONFormal Interpretable-by-Design score function for Explainable and Reliable Artificial Intelligence". Proceedings of Machine Learning Research 204:1–3, COPA 2023 Conformal and Probabilistic Prediction with Applications https://proceedings.mlr.press/v204/narteni23a/narteni23a.pdf ;	CNR; Sep-23
Cairoli, Francesca, Luca Bortolussi, and Nicola Paoletti. "Learning-based approaches to predictive monitoring with conformal statistical guarantees." In International Conference on Runtime Verification, P. Katsaros and L. Nenzi (Eds.): RV 2023, LNCS 14245, pp. 461–487, 2023. https://doi.org/10.1007/978-3-031-44267-4_26 ;	KCL; Oct-23

7.9. LinkedIn activities

The consortium decided to use LinkedIn as the main social account. Partners were encouraged to follow the project profile and share new posts both as organizations and individuals. All partners are also administrator of the profile, so each is free to post their updates. We created a template for posting key messages and scheduled in the editorial



plan two series of 'REXASI-PRO Pills' dedicated respectively to Cybersecurity and to Ethics.

The list below contains the posts on REXASI-PRO LinkedIn profile up to M18. (We did not include images and links for readability reasons, but all contents can be seen here: <https://www.linkedin.com/company/rexasi-pro/>)

--- 16. 02. 2023



REXASI-PRO - REliable & eXplAinable Swarm Intelligence for People with Reduced mObility



The kick-off meeting of REXASI-PRO, a project funded by the European Commission within the framework of the HORIZON - Research and Innovation Actions programme, was held in Rome on 10-11 October. Its aim is to support people with reduced mobility by means of autonomous and trustworthy social navigation systems based on Artificial Intelligence.



The project aims to release an engineering framework to support trustworthy autonomous wheelchairs for people with reduced mobility. Smart wheelchairs, provided with reliable on-board sensors, will be trained with smart intelligence navigation algorithms in indoor and outdoor environments. Smart drones will be cooperating with smart wheelchairs to properly map unknown environments and accurately monitor any fixed or moving entities. Virtual Reality and Imitation Learning will be used to anticipate multiple operational scenarios and allow algorithms to be adapted, case by case, on the basis of previous experience. Bio-inspired navigation models, trained through implicit and explicit user communication, will be used with the aim of increasing users' confidence in the technologies employed.



The project started on October 1st 2022 and the consortium is being coordinated by @Spindox Labs Managing Director, @Cristiano Carlevaro. It includes @Consiglio Nazionale delle Ricerche (CNR), @German Research Center for Artificial Intelligence (DFKI), @Royal Holloway and Bedford New College, @Universidad de Sevilla, @University of Applied Sciences and Arts of Southern Switzerland (SUPSI), @Euronet Consulting, @AITEK Spa, @Autosystems Hovering Solutions and @V-research Srls.



The meeting agenda between the project partners led to the definition of an operational programme for the achievement of the project goals. The programme is expected to be completed in three years, with end date set on September 30th 2025.

Good work to us!

--- 28. 02. 2023



2 March 2023 | Establishing the next level of "intelligence" and autonomy



REXASI-PRO will take part in the Clustering Workshop organized by the EU-funded project TALON in close collaboration with the projects AutoFair, ENEXA, EVENFLOW, SAFEXPLAIN, SustainML, TUPLES, and ULTIMATE funded under the HORIZON-CL4-2021-HUMAN-01-01 topic.



The event aims at bringing together projects and experts for exploring synergies and identifying actions that can be pursued in common in the area of verifiable robustness, energy efficiency and transparency for trustworthy AI.

--- 07. 03. 2023



We are mentioned in the research portal of the Universidad de Sevilla, one of our project partners. 🙌 🙌

Stay in touch with us! 😊

[Expertos de la US trabajan en un sistema que permita el desplazamiento autónomo de personas con movilidad reducida en el interior de un edificio](#)



--- **13. 03. 2023**

Special issue of Sensors: Advanced IoT Systems in Smart Cities [#iot #smartcities](#)
<https://lnkd.in/dH4Ztdyx>

Maurizio, from CNR is the guest editor of this special issue that specifically focuses on IoT technologies. Contributions presenting techniques (methods, tools, ideas, or even market evaluations) that contribute to the future roadmap of IoT in smart cities and papers combining both the control and communication of IoT devices are welcome, together with the support of requirements of IoT applications as well as real-world scenarios are relevant for proposal and evaluation.

--- **21. 03. 2023**

- 📌 Overdata talks about our project in its latest issue!
- 📖 The Spindox magazine is dedicated to the topics of Artificial Intelligence and Tech Culture.
- 📖 The full issue is freely available at this link <https://lnkd.in/dvNWADSi>

--- **13. 04. 2023**



«A team from the University of Seville, led by Professor Rocío González Díaz, is working on a European project focused on making society see Artificial Intelligence as a safe and reliable environment».

If you want to know more about the REXASI-PRO project's objectives, read the full interview. 🗣️

[Abriendo la caja negra de la inteligencia artificial | Revista Universidad de Sevilla \(us.es\)](#)

--- **03. 05. 2023**

The launch of the three use cases, the deepening of ethical issues, and the sharing of a communication strategy. These and more were the results achieved in these first six months.

And some satisfaction on our faces at the first project plenary meeting 😊

--- **05. 06. 2023**

The Consortium decided to launch a small challenge on Twitter! 🗣️

Students of Universidad de Sevilla created some 3D images about REXASI-PRO and we collected the best results in three groups on Twitter. 🎓

This is the first one 🗣️

https://twitter.com/REXASI-PRO_EU/status/1664625999026192384

The most voted will win the challenge and will be mentioned on the REXASI-PRO website.

You can vote them before June 15th!

--- **07. 06. 2023**

The Consortium decided to launch a small challenge on Twitter! 🗣️

Students of Universidad de Sevilla created some 3D images about REXASI-PRO and we collected the best results in three groups on Twitter. 🎓

This is the second one 🗣️

https://twitter.com/REXASI-PRO_EU/status/1664628950662774784

The most voted will win the challenge and will be mentioned on the REXASI-PRO website.

You can vote them before June 15th!

--- **12. 06. 2023**

The Consortium decided to launch a small challenge on Twitter! 🗣️

Students of Universidad de Sevilla created some 3D images about REXASI-PRO and we collected the best results in three groups on Twitter. 🎓

This is the third one 🗣️

https://twitter.com/REXASI-PRO_EU/status/1664628950662774784

The most voted will win the challenge and will be mentioned on the REXASI-PRO website.



You can vote them before June 15th!

--- **13. 06. 2023**

Hey, you! 😊

Remember the news section to keep you updated on the progress of the project! 📌

[Accepted paper at HSCC 2023 - Rexasi Pro \(spindoxlabs.com\)](https://spindoxlabs.com)

--- **23. 06. 2023**

You may not have missed the results of our graphic modeling competition? 🤖

[Graphic modelling contest | REXASI-PRO \(spindoxlabs.com\)](https://spindoxlabs.com)

--- **04. 07. 2023**



Ethical Requirements for the design and the development of REXASI-PRO

--- **12. 07. 2023**

Stay updated on project developments through the news section of the website! 🤖

[Safety Analysis Workshop - Rexasi Pro \(spindoxlabs.com\)](https://spindoxlabs.com)

--- **18. 07. 2023**

Project research does not stop!

These days in Santiago de Compostela with Prof. Rocio Gonzalez-Diaz. 📌

[Sixth EACA International School on Computer Algebra and its Applications - Rexasi Pro \(spindoxlabs.com\)](https://spindoxlabs.com)

--- **19. 07. 2023**

📌 Delighted to inform you that the following project paper has been accepted by the BUILD-IT 2023 – Workshop on Digital Twins - CNR 🖱️

📌 A. Carlevaro, G. De Bernardi, M. Lenatti, S. Narteni, M. Muselli, A. Paglialonga, F. Dabbene, M. Mongelli, "Are Digital Twins Suitable To Drive Safe AI?," BUILDing a Digital Twin: requirements, methods, and applications, BUILD-IT workshop, Oct. 19-20 2023, Rome, Italy

🔍 Yet another REXASI-PRO paper for trustworthy. It briefly outlines the simulation-based search of hazards. Very hot topic!

<http://inm.cnr.it/buildit2023/>

--- **24. 07. 2023**

🗣️ "Roboethics in the Loop: the REXASI-PRO European Project"

This is the title of the paper presented at the International Conference on Robot Ethics and Standards (ICRES 2023) – Utrecht, Netherlands, 17-18 July



--- **26. 07. 2023**

📌 XAI 2023 - Cultural Centre of Belem | Lisbon | Portugal

📅 July 27th at 2:30pm

🕒 Special track on xAI for Trustworthy and Responsible AI

🗣️ Chairs: Maurizio Mongelli - Rocio | Hosted by REXASI-PRO

[Special track on xAI for Trustworthy & Responsible AI \(CNR+USE\) - Rexasi Pro \(spindoxlabs.com\)](https://spindoxlabs.com)

--- **02. 08. 2023**



🔗 Software module and hardware components for the REXASI-PRO 3D Driving Assistant
Is the title of the latest post edited by [Deutsches Forschungszentrum für Künstliche Intelligenz \(DFKI\)](#) colleagues. Don't miss it! 🖱️ <https://rexasi-pro.spindoxlabs.com/rexasi-pro-3d-driving-assistant/>

--- **25. 08. 2023**

The [REXASI-PRO](#) project will develop the design of novel trustworthy-by-construction solutions for social navigations and a methodology to certify the robustness of [#ai](#)-based [#autonomous](#) vehicles for people with [#reduced](#) [#mobility](#). V-ResearchIT and King's College London are the key partners for the [#cybersecurity](#) research and engineering. Stay tuned to [#discover](#) more about [#riskassessment](#)!

--- **31. 08. 2023**

When talking about [#cybersecurity](#), [#riskassessment](#) is one of the first step to identify, assess and prioritize risks of information systems.
In [REXASI-PRO](#), we are going to do a risk assessment on some very [#interesting](#) use cases!

--- **18. 09. 2023**

When talking about [#cybersecurity](#), [#riskassessment](#) is one of the first step to identify, assess and prioritize risks of information systems.

In [REXASI-PRO](#), we are going to do a risk assessment on some very [#interesting](#) use cases!

The University of Seville is opening a Ph.D. position related to the research line «Computational Topology for Green Artificial Intelligence». It is supported by the European project «REliable & eXplAinable Swarm Intelligence for People with Reduced mObility (REXASI-PRO)» with GRANT AGREEMENT NO.101070028.

In particular, the tasks carried out by the employer should be to showcase how novel topological methods can be used to:

- 1) reduce ML power consumption by optimizing the training dataset, and
- 2) the ML solutions do not contain any biases.

The contract duration is from 12/01/2023 until 09/30/2025. The gross salary is 1.935,45 euros. Health insurance is included.

Official call (in Spanish, page 6): <https://lnkd.in/dhg8fczs>

If you are interested, the instructions to apply are at: <https://lnkd.in/dw4g3UjW>

Do not forget to select position INV-IND-09-2023-I-015.

* Application date: September 8 to 21, 2023.

--- **19. 09. 2023**



The 'I Global Forum on Artificial Intelligence and Sustainability' will be held on 25 and 26 September at the Universidad de Sevilla. The initiative will be supported by Google Spain.



The first panel will feature Matteo Rucco, Expert in Data Science for complex bio-inspired systems and one of the promoters of REXASI-PRO. The third panel will be moderated by Rocío González-Díaz, Professor of the Department of Applied Mathematics I of the Universidad de Sevilla and Director of the US node that participates in the project.

The link below contains the full programme and directions to attend the proceedings. 🖱️

[Events - University of Sevilla \(us.es\)](#)

--- **20. 09. 2023**

Open Workshop about [#formal](#) [#methods](#) and [#cybersecurity](#) in collaboration with [REXASI-PRO](#) and [King's College London](#). Check the complete program in the article ;)

A [#great](#) [#opportunity](#) to [#learn](#) something new about [#cybersecurity](#), [#ai](#), [#chatgpt](#) and a lot more!

--- **26. 09. 2023**





Last week we organized a workshop about "Formal Methods and CyberSecurity". The workshop included representatives from our project and also from sermas_eu, both Horizon Europe projects. The programme featured talks by Marco Rocchetto and Michele Ambrosi (V-ResearchIT) about threat and risk assessment in the real world and the gaps surrounding security legislation and policies; Luca Viganò and Megha Quamara about explainable security and formal co-design and analysis of safety and security requirements; and Nicola Paoletti about data-driven verification of cyber-physical systems and multi-agent systems.

--- 2. 10. 2023

Remember to check our news section? 📰

In the coming days we will be presenting at the important International Conference in Thessaloniki a tutorial paper focuses on efficient methods to predictive monitoring (PM).

Stay in touch with us! 😊

<https://rexasi-pro.spindoxlabs.com/learning-based-approaches-to-predictive-monitoring/>

[Luca Bortolussi](#) | [Francesca Cairoli](#) | [Nicola Paoletti](#)

[King's College London](#) | [Università degli Studi di Trieste](#)

--- 10. 10. 2023



The first General Assembly of REXASI-PRO is being held in Trento.

One year after its start-up, the partners were called to an internal discussion on the progress of activities, as well as a Light Review. The agenda also included space for a Technical Workshop on tools and methodologies in use.

The two days were intense, but there was no lack of social moments. Like this one!

--- 11. 10. 2023

Hey, you! 😊

Remember the news section to keep you updated on the progress of the project! 📰

[How to recognise people trajectories. \(spindoxlabs.com\)](#)

--- 12. 10. 2023

How can #Neurosymbolic #AI help robots move around in factories? Have a look at the "Industry 4.0" use case by Evenflow project.

--- 16. 10. 2023



You can find here the interview realized by Andalusia TV in which Professor Rocio Gonzalez-Diaz explained the role of topology in IA in general and in REXASI-PRO in particular. A good way to start our week! 😊

<https://www.youtube.com/watch?v=VwaYplJe5KA>

--- 31. 10. 2023



How the design of REXASI System could provide value to the end user?

The case of comfortable situation in wheelchair movement. 🙌🙌

--- 2. 11. 2023

Algorithms let smart wheelchairs navigate indoor spaces populated by people. Simulation makes sure they are efficient and safe. ♿🚗

Do you have a minute for the video? 🙌🙌

[Cooperative navigation in a virtual reality. How does it work? - Rexasi Pro \(spindoxlabs.com\)](#)

--- 9. 11. 2023





The first year of the project told through a video made by [Spindox](#) at the recent General Assembly. With a special focus on the three use cases. And many open work perspectives for the next 24 months!



[Spindox Labs](#) | [V-ResearchIT](#) | [Aitek S.p.A.](#) | [Scuola universitaria professionale della Svizzera italiana \(SUPSI\)](#) | [Consiglio Nazionale delle Ricerche](#) | [Universidad de Sevilla](#) | [Euronet Consulting](#) | [Hovering Solutions](#) | [King's College London](#) | [Deutsches Forschungszentrum für Künstliche Intelligenz \(DFKI\)](#)

[REXASI-PRO: Reliable & Explainable Swarm Intelligence for People with Reduced Mobility - YouTube](#)

--- 17. 11. 2023



Overdata talks about our project in its latest issue!



The [Spindox](#) magazine is dedicated to the topics of Artificial Intelligence and Tech Culture.



The full issue is freely available at this link <https://lnkd.in/eYUA9Gep>

--- 4. 12. 2023

REXASI-PRO developments for the mapping procedure. 🤖

Check out the video simulation! 🤖

[Raul Sosa San Frutos](#) | [Hovering Solutions](#)

[More about Aerial Flying robot use-case: mapping procedure \(spindoxlabs.com\)](#)

--- 8. 1. 2024

How to wish you a happy 2024? 🎉

We share with you a recent interview conducted by [Fiorella Operto](#) with [Roberto Larcher](#), Technical Project Leader of [Spindox Labs](#). Published in the news section of [Scuola di Robotica](#), it illuminates the characters of originality and reliability of the REXASI-PRO project.

Enjoy reading it! 📖

[#TrustWorthyAICluster](#)

--- 11. 1. 2024

In REXASI-PRO, [#ai](#) is a core component of the use cases' architectures and complex and advanced [#ai](#) requires new ideas for [#cybersecurity](#) [#analysis](#).

--- 15. 1. 2024

Hey, you! 🤖

Remember the news section to keep you updated on the progress of the project! 📌

[#TrustWorthyAICluster](#)

[Originality and reliability of REXASI-PRO Horizon Europe project \(spindoxlabs.com\)](#)

--- 19. 1. 2024

How to do a [#cybersecurity](#) [#risk](#) [#assessment](#)?

Define [#likelihood](#) and [#impact](#) scales

Define risk [#threshold](#)

Identify possible [#threats](#) for all the [#assets](#)

Define [#attack](#) scenarios

Estimate likelihood (numerically)

Estimate impact on the asset (numerically)

The product of [#probability](#) and impact produces the risk [#score](#)

If the risk score is above threshold, define [#mitigation](#) [#strategy](#)

See you the next week with an example! 😊



--- 24. 1. 2024

Let's take one [#asset](#), inspired by the REXASI-PRO use cases, as an example.
The Risk Score is [#above](#) threshold and [#unacceptable](#).
How could we reduce [#likelihood](#) or [#impact](#) to lower the Risk Score?
We cannot [#encrypt](#) the commands from the remote controller!
We cannot accept the risk either? Is there an alternative [#mitigation](#) [#strategy](#)?
Stay tuned to discover a possible way!
See you in the next post 😊

--- 31. 1. 2024

Let's remember the previous [#example](#) inspired by the REXASI-PRO use cases.
The [#Risk](#) [#Score](#) was above [#Threshold](#) and unacceptable.
How could we reduce likelihood or impact to lower the Risk Score?
We need to reduce the Risk Score and we choose not to encrypt remote commands since it would be too [#impactful](#) on the [#hardware](#).
Instead, we decided to introduce an [#emergency](#) mode.
In this way we lowered the [#Likelihood](#) and consequently the Threshold to an [#acceptable](#) [#level](#)!

--- 1. 2. 2024

[#TrustWorthyAICluster](#). That is, how to pave the way for greater acceptance of Artificial Intelligence (AI) throughout [#Europe](#). 🤖 Our project is a part of this mission. 🤝
[Nine EU projects collaborate for Trustworthy AI across Europe - REXASI-PRO \(spindoxlabs.com\)](#)

--- 8. 2. 2024

An online workshop on cybersecurity next Feb. 28. 📅
In partnership with REXASI-PRO Project. 🔗
Not to be missed! 🙌

--- 8. 2. 2024

Cybersecurity Pills by the partner [V-ResearchIT](#).

🔒 🌐 Cybersecurity Act e Direttiva NIS2: sicurezza unificata per un mondo sempre più digitale! Pt. 1 🔒 🌐
Il Cybersecurity Act è un regolamento europeo entrato in vigore nel 2019 che mira a unificare gli standard di sicurezza di prodotti, servizi e processi digitali grazie a un quadro europeo di certificazione comune.
L'interesse per il Cybersecurity Act sta crescendo. A seguito della recente approvazione della nuova Direttiva NIS2, a partire da ottobre 2024, anche molte PMI dovranno garantire un livello minimo di sicurezza, se coinvolte nella supply chain di prodotti, servizi e processi digitali.
A questo proposito, la Direttiva NIS2 stabilisce il principio dell'accountability: se il Cybersecurity Act delinea degli standard generali, sono poi i soggetti obbligati a dover calare tali regole nel concreto della propria realtà aziendale, adottando misure adeguate e proporzionate per prevenire o ridurre al minimo gli impatti degli incidenti informatici.

--- 9. 2. 2024

Cybersecurity Pills by the partner [V-ResearchIT](#).

🔒 🌐 Cybersecurity Act e Direttiva NIS2:
sicurezza unificata per un mondo sempre più digitale!

Pt. 2 🔒 🌐

ENISA, l'agenzia Europea per la Cybersecurity, sta delineando una serie di processi di certificazione per vari settori aziendali. Per le tecnologie informatiche, andando incontro anche alla direttiva NIS2, ENISA ha sviluppato uno schema di certificazione basato sullo standard ISO 15408, noto come Common Criteria. Questo standard mira a proteggere prodotti o servizi informatici con 3 principali richieste:







1. definire i “security target” come proprietà di cybersecurity che si vogliono garantire,
2. identificare e documentare i profili di protezione delle componenti informatiche,
3. definire le funzionalità di cybersecurity da utilizzare.

Lo standard fornisce un catalogo di funzionalità di cybersecurity (di riferimento) e definisce il processo di valutazione delle misure di sicurezza adottate. Durante la valutazione si verifica che il processo di sviluppo tenga conto delle misure di cybersecurity scelte (come l’uso di strumenti per l’analisi e testing di vulnerabilità) a cui segue una valutazione numerica del livello di cybersecurity raggiunto.

--- 11. 2. 2024

Cybersecurity Pills by the partner [V-ResearchIT](#).





  Reati informatici in azienda: la cruciale importanza della cybersecurity Pt. 1  

Negli assetti aziendali attuali, dove le informazioni vengono scambiate rapidamente e di continuo su dispositivi personali e aziendali, la sicurezza informatica diventa un tema essenziale.

Il Decreto Legislativo 231/2001 sulla responsabilità da reato degli enti estende la responsabilità amministrativa delle imprese anche ai reati informatici, prevedendo sanzioni cospicue a carico delle aziende – per così dire – responsabili di tali illeciti. Questo decreto richiede alle aziende di adottare adeguati sistemi di gestione e organizzazione per prevenire la commissione di reati, compresi quelli di natura informatica. Questo include, ad esempio, l’accesso abusivo a sistemi informatici, il danneggiamento di dati e sistemi informatici, le falsità in documenti informatici e il cyberterrorismo. Preservare la sicurezza dei dati e delle informazioni non è solo un obbligo legale, ma anche una responsabilità aziendale. Una buona prassi di cybersecurity può prevenire o ridurre al minimo tali rischi, proteggendo la reputazione dell’impresa e garantendo la fiducia dei clienti.

--- 13. 2. 2024

Cybersecurity Pills by the partner [V-ResearchIT](#).

  Reati informatici in azienda: la cruciale importanza della cybersecurity Pt. 2  

La cybersecurity viene comunemente vista come un argomento legato agli aspetti tecnici di componenti informatiche ma gli attacchi informatici spesso sfruttano vulnerabilità presenti nei processi aziendali.

Il processo di sviluppo (di un prodotto informatico, per esempio) è uno di processi in cui le misure di cybersecurity devono essere considerate. Gli standard come Common Criteria o ISA 62443 offrono una metodologia per garantire che la cybersecurity sia considerata nelle varie fasi di sviluppo di un prodotto: dai requisiti all’implementazione.

Il processo di sviluppo, però, è soltanto uno dei processi aziendali. Le risorse informatiche utilizzate nei processi aziendali (come procedure legate a HR o ad aspetti finanziari) sono un punto di attacco largamente sfruttato (come nel caso del phishing). Lo standard ISO 27001 definisce le misure di cybersecurity non solo per le tecnologie, ma anche per i processi aziendali e, di conseguenza, mira a garantire la resilienza dell’operatività aziendale.

Questo standard ha un approccio basato sull’analisi dei rischi cyber per prioritizzare l’investimento sulla protezione di processi e tecnologie.

--- 19. 2. 2024





Genoa, 28 February 2024

at Scuola di Robotica | Via Balbi 1A

h. 10-12; 15-17

Organised by [Aitek S.p.A.](#), [CNR-IEIIT](#), [Scuola di Robotica](#)

Don't miss your chance for an immersive experience! 

Explore the virtual scenarios of REXASI-PRO Project! 

[#TrustWorthyAICluster](#)

[A Virtual Reality simulation Demo | REXASI-PRO \(spindoxlabs.com\)](#)

