D5.2: Dissemination Plan and Dissemination Report

Work Package	Dissemination Plan and Dissemination Report
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Document History

Date	Main changes	Name

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1. Executive Summary

This report describes the Dissemination Plan and dissemination activities carried out by the MIRAI consortium. The primary objective for dissemination is to awareness about the MIRAI project and technologies, at the national and European level, with the aim of multiplying its impact and subsequent exploitation chances. We describe the activities performed

The main goal is raising the interest of the industry and other relevant shareholders in the use of data analytics as paradigm for their products and the technologies and tools delivered by MIRAI.

A set of dissemination activities among those target stakeholders has been carefully designed.

2. Introduction & Dissemination Plan

This report describes the Dissemination Plan and dissemination activities carried out by the MIRAI consortium.

2.1. Dissemination Plan

The following channels of dissemination are being explored:

1. Disseminating the project outcomes in exhibitions and trade fairs events, to establish two-way communication channels between the consortium members and potential end-users.
    - Activities of fair participation listed in Section 3.1.

2. Organize consortium workshops to project outcomes. Two public events for promoting the MIRAI results to the industrial and scientific community. Identify and observe other research projects for partnering in the organization of said workshops and further boost result exchange.
    - Identified relevant projects are listed in Section 2.4.
    - Events organized by the consortium are listed in Section 3.2.

3. Promote technical papers and tutorials at recognized conferences, to share the MIRAI outcomes with the scientific community and keep enhancing the underlying MIRAI concepts.
    - Conferences and journals identified to publish MIRAI results listed in Section 2.3.
    - Publications produced or submitted so far are described in Section 3.3

4. Promote realization of theses (M.Sc. or Ph.D.) in the scope of the project goals to enhance the innovation impact of the solutions developed under MIRAI.
    - Theses concluded or undergoing under MIRAI are listed Section 3.4.

5. Development and maintenance of a website and social media presence to provide easy access to the project and regular updates to all project shareholders.
    - Online and social media outlets are described in Section 3.5

6. Promotion of selected project results in non-technical platforms (e.g. via newspaper articles) to reach potential end-users.
    - Listed in Section **Error! Reference source not found.**

A system for quantifying the reach of these activities will be set up (described in Section 2.5).

2.2. Shareholders

Stakeholders that may be interested in the main outcomes of the MIRAI project are identified next:

- MIRAI partners
- Industrial entities that are part of the value chain (either technology providers, system integrators, or final consumers) related to the UCs addressed by MIRAI, notably distributed renewable energy systems, water consumption monitoring, traffic management, secure Internet provision, and control of dyeing machines.
- Other industrial entities interested in AI/ML at the edge applications.

- Consortiums of related projects (see Section 2.4).
- Funding institutions -- Innoviris (BE), Tubitak (TR), ANI (PT) – and Eureka clusters.
- Academic institutions working on AI, ML and edge.
- General public aware to the application of AI and ML in the everyday life.

2.3. Tentative Conferences & Journals

The following conferences have been identified as potential targets to publications resulting from MIRAI work and outputs

- IEEE RTSS - http://2020.rtss.org/
- IEEE RTAS - https://2020.rtas.org/
- Usenix Security Symposium - https://www.usenix.org/conference/usenixsecurity20
- IEEE WCNC - https://wcnc2020.ieee-wcnc.org/
- IEEE WoWMoM - http://www.cs.ucc.ie/wowmom2020/
- IEEE WFCS - https://www.cister-labs.pt/wfcs2020/
- IEEE INFOCOM - https://infocom2020.ieee-infocom.org/

2.4. Related Projects

The following projects have been identified as having relevant connections to the MIRAI project.

- KDT (former ECSEL) DAÏS - https://dais-project.eu/
- PENTA SunRISE - https://www.project-sunrise.eu/

2.5. KPIs

To ascertain the reach of the Dissemination Activities carried out by the MIRAI consortium, the following metrics will be used.

Table 2-1 - KPIs to ascertain reach of dissemination activities.

Channel	KPI	Means of verification
Conferences/Fairs	Audience reached	Event official statistics
Papers	Downloads	Repository Analytics; # citations
Online presence / Social media	Visits and Followers	Platform analytics

2.6. Document Structure

The remainder of this report has the following structure:

- Section 3 reports all dissemination activities carried out by the consortium as of December 2022.
- Section 4 lists planned dissemination activities.
- Section 5 presents a conclusion to the document.

3. List of Activities Carried Out (as of December 2022)

3.1. Participation in Fairs

Table 3-1 - Participation of the MIRAI consortium in Fairs and Events.

Date	*Partner involved*	*Event*	*Location*	*Nature of Activity*	*URL*	*Link/location to evidences (photos, certificates, etc.)*	*Notes (any relevant remarks; e.g., contacts made)*	*Number of people that attended event*
20-10-2021	Sirris	ACUMEN2021	Brussels, Belgium	Presentation on "How to innovate with smart products?"	Link	Link	Presentation on the Shayp case	
29-04-2021	3E's webinar series	Power System Flexibility Present and future, challenges and solutions	Brussels, Belgium	Power System Flexibility Present and future, challenges and solutions	Link	For more information, please contact webinars@3E.eu	presenting our use cases and solutions (from real-time monitoring to self consumption and flexibility control)	
15-06-2021	3E's yearly webinar	WEBINAR: MARKET TRENDS IN SOLAR & WIND	Brussels, Belgium	Storage; what? Why? How?	Link	For more information, please contact webinars@3E.eu	Presenting storage value stacking for self consumption and flexibility control	
9-10-11-2021	3E's yearly event	SynaptiQ Connect Days	Brussels, Belgium	New features of SynaptiQ plaftform	Link	For more information, please contact webinars@3E.eu	SynaptiQ new features in real-time monitoring and control	
12-09-2021	Macq, Sirris	EluciDATA Tech Talk: How to fully exploit the data generated by your assets?	Brussels, Belgium	Macq testimonial on "Exploiting multi-source mobility data"	Link		Presentation from Macq	
03-02-2022	Sirris	TRAIL kick-off meeting	Brussels, Belgium	Presentation on "The needs and solutions on data compression in edge computing"			Presentation from Sirris	
03-08-2022	NOS, SIRRIS,	NOS Innovation Days	Lisboa, Portugal	Presentation of MIRAI project				
06-10-2022	Macq	ITS congress Brussels	Brussels	Presentation "Transfer of ANPR technology to the domain of the vulnerable road user"				
	Macq	ITEA City Advisory Board	Barcelona					

3.2. Organized Events

Table 3-2 - Events organized by the MIRAI consortium.

Date	Partner involved	Event	Location	Nature of Event	Link/location to evidences (photos, certificates, etc.)	URL	Notes (any relevant remarks; e.g., contacts made)	Attendance
25-06-2021	All	1st workshop on "Distributed AI in Resource-Constrained Environments", part of AIAI conference	Online	Consortium-organized workshop	Papers in dedicated sub-folder	Link	Two sessions: one for papers; second with invited speakers	

3.3. Participation in Conferences & Papers

Table 3-3 - Papers published by the MIRAI consortium.

Date	Partner involved	Title	Authors	Presented at	Location	Event URL	Link/location to evidences (paper, certificates, etc.)	Status
25-06-2021	All	An Initial Analysis of the Shortcomings of Conventional AI and the Benefits of Distributed AI Approaches in Industrial Use Cases	Anna Hristoskova, Nicolás González-Deleito, Sarah Klein, Joana Sousa, Nuno Martins, João Tagaio, João Serra, Carlos Silva, João Ferreira, Pedro M. Santos, Ricardo Morla, Luís Almeida, Baris Bulut, and Sencer Sultanoglu	1st DARE workshop, part of EANN AIAI conference	Online	Link	Internal folder	Published
25-06-2021	NOS, ISEP, U.Porto	Towards a Distributed Learning Architecture for Securing ISP Home Customers	Pedro M. Santos, Joana Sousa, Ricardo Morla, Nuno Martins, João Tagaio, João Serra, Carlos Silva, Mário Sousa, Pedro Souto, Luís Lino Ferreira, João Ferreira, and Luís Almeida	1st DARE workshop, part of EANN AIAI conference	Online	Link	Internal folder	Published
25-06-2021	Sirris	PFilter: Privacy-aware and secure data Filtering at the edge for distributed edge analytics	Annanda Rath, Anna Hristoskova, and Sarah Klein	1st DARE workshop, part of EANN AIAI conference	Online	Link	Internal folder	Published
05-09-2022	Sirris, Shayp	Anomaly detection on compressed data in resource-constrained smart water meters	Sarah Klein, Anna Hristoskova, Annanda Rath, Renaud Gonce	17th Conference on Computer Science and Intelligence Systems (FedCSIS)	Sofia, Bulgaria	Link	Internal folder	Published
26-04-2023	U.Porto, ISEP	Impact of Training Set Size on the Performance and Memory Footprint of Machine	Barikisu A. Asulba, Nuno Schumacher, Pedro F. Souto, Pedro M. Santos, Luis Almeida	19th IEEE International Conference on Factory Communication	Pavia, Italy	Link	N/A	Submitted

		Learning Models for Intrusion Detection Systems		Systems (WFCS 2023)				

3.4. Theses

Table 3-4 - Theses produced under MIRAI.

Date	*Partner*	*Student*	*Title*	*Degree*	*Degree Granting Institution*	*Document URL*
July 2022	U.Porto, ISEP	Nuno Schumacher	Anomaly Detection Models for Cloud-Edge Intrusion Detection in Customer Networks	M.Sc.	U.Porto	Link
Ongoing	U.Porto	Barikisu Ahmed	TBD	Ph.D.	U.Porto	N/A
Ongoing	U.Porto	Yimin Zhang	TBD	Ph.D.	U.Porto	N/A
July 2023	ISEP	Pedro Vicente	Deployment of ML mechanisms for Cybersecurity in Resource-Constrained Embedded Systems	M.Sc.	ISEP	N/A

3.5. Online Presence and Social Media

Selected Online and Social Outlets

- Webpage: easy to reach, serves as go-to reference to project.
- LinkedIn: professional social network where stakeholders are more likely to be found.

Discarded (and why):

- Facebook, Instagram: too general public-oriented; reduced impact on stakeholders; additional effort in maintaining multiple social networking outlets (unfit for small consortium).

3.5.1. LinkedIn

Link: https://www.linkedin.com/company/itea-mirai-project/

Publication plan:

- Regular monthly posts, having one MIRAI UC in focus
- Event-driven posts, e.g., publication accepted or participation in event

Current KPIs (as of Feb. 2023):

- Visits: 135
- Followers: 43

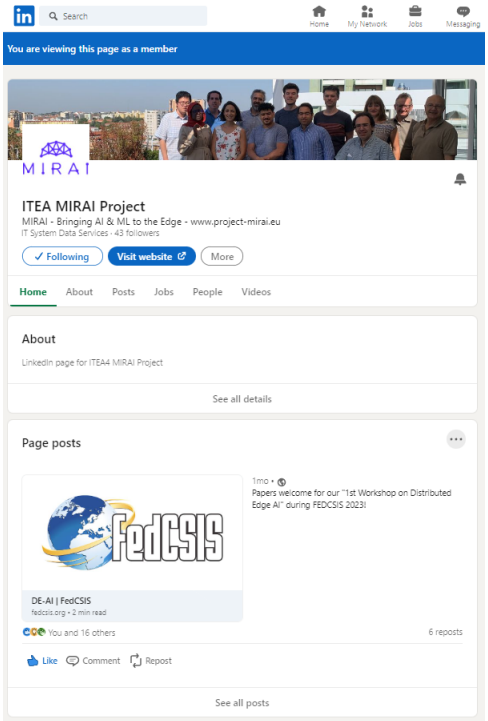

Figure 3-1 - MIRAI LinkedIn webpage.

3.5.2. Website

URL: https://project-mirai.eu/

Structure/Contents:

- Frontpage
- About MIRAI
- Consortium
- Use-Cases
- News & Media
- Deliverables

Front Page:

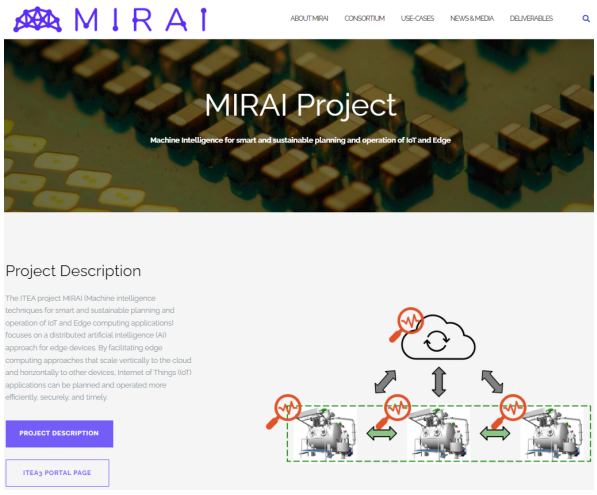

Figure 3-2 - MIRAI Webpage - Frontpage

4. Future Activities

Tentative Activities:

Date	*Activity*	*Event / Title*	*Location*	*URL*	*Partern(s) involved*	*Required preparations (papers)*	*Notes*
2023 H1							
	Event	Macq's 100 years anniversary					
	Event	NOS Tech Days					
	Publication				Eliar / Enforma		
	Event	ITMA 2023	Milano		Eliar		
2023 H2							
	Workshop	FedCSIS 2023	Warsaw	https://fedcsis.org			
	Presence	RDK Tech Summit					

5. Conclusion

The present report describes the dissemination activities carried out by the MIRAI consortium as of December 2022. Future activities are also listed.