

pAVis

Patient and Environment Aware Adaptive Intelligent Sensor Systems

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Glossary

Abbreviation / acronym	Description
μC	Microcontroller
AD(C)	Analog-to-Digital (Converter)
AI	Artificial Intelligence / Adaptive Intelligence
ASIC	Application Specific Integrated Circuit

1. Executive Summary

The document describes the plan for using and disseminating the knowledge in the context of the PAVIS project, through various means including internal and external communication channels, the distribution of dissemination material and participation in dissemination activities.

More specifically, the document includes the PAVIS dissemination strategy, describing the target audience active in the domain of professional healthcare diagnostic and therapy applications such as MRI scanning and (non-)invasive neuromodulation. Furthermore, the planned and performed dissemination activities are presented, including the participation in conferences and other relevant events and the publications in scientific journals.

2. Introduction

This deliverable describes the plan for dissemination in the context of WP5 of the PAVIS project. The document starts with a brief description of the dissemination strategy (chapter 2), followed by a listing of templates which will be used to report the project dissemination activities (chapter 3).

3. Dissemination Strategy

3.1 Introduction

The dissemination activities will present the project results and establish feedback from the community, particularly to the main innovative aspects coming from the research activities within the project. The approach to ensure effective dissemination of the project results is:

- distribute and share the knowledge;
- ensure the visibility and public awareness of the project;
- safeguard the scientific integrity;
- guarantee industrial relevance;
- support the adoption of its results in the European industries (electronics, health, space, smart cities and others) and its related research communities.

The target groups for the project are the general public, scientific experts, and potential business partners. The dissemination will be achieved through distribution of the project goals and results via internal and external channels:

- A number of internal communication channels will allow members to collaboratively communicate, disseminate and exploit the project results and related material.
- Public channels aim to raise awareness of the project and include the project website, brochures, and general presentations at conferences and trade fairs.
- Academic activities aim to present various results of the project and include dissemination of individual results as they arise via presentations at conferences and publications in journals.

3.2 Internal communication channels

The PAVIS project includes 12 partners from 5 countries will provide deliver a new architecture for intelligent sensor systems with at its core a sensor module embedding a mixed-signal processing chain, which throughout will consist of new adjustable components. The adjustment settings will be determined in real-time based on the sensor signal itself or by exploiting integrated auxiliary detectors. To increase computational power-efficiency and miniaturize the system, a dedicated neuromorphic engine will be used for AI acceleration. Embedded AI algorithms will be developed with a specific focus on resource efficiency. Given the low-power requirements for sensor systems, a novel, distributed, power management system will be developed.

Efficient internal communication channels are needed to ensure that practical information reaches those partners who need it, that documents can be exchanged smoothly and that project results can be disseminated in a timely, coordinated manner. Email reflectors are introduced to ease the communication between partners, at the project level and at the level of work packages and use cases. For exchanging, storing and collaborative work on documents a file sharing system is deployed with easy access for consortium members. To exchange reporting data the PENTA portal will be used to some extent.

From the early start of the project bilateral and multi-lateral meetings were organized for discussing and tuning of the project results and the effort of the partners working together. Further, to stimulate cooperation between researchers short term visits of researches to other partners and research sessions (symposia, poster sessions) in conjunction with general consortium meetings or organized at the partner or use case level are stimulated.

3.3 Public channels

Communication will be implemented through tools like a dedicated website, conferences, newsletters, information materials, and social media. Press releases directed to relevant publications in the participating countries will be developed and distributed. This will aid in the project communication towards the general population as well as towards patient organisations and policy makers.

3.3.1 Awareness

A PAVIS project identity was created in a uniform way by developing a project logo (re-using PENTA program colors) and a publication and presentation layout. Furthermore, a dedicated PAVIS website was developed and implemented (<http://www.pavis-project.eu/>) The website was designed for external communication and dissemination and public access to PAVIS documents such as reports, presentations, brochures and marketing materials as well as published electronic publication, as far as allowed by copyright policies of the publishers, and links to social media platforms.

[Home](#) [Events](#) [Dissemination](#) [Contact](#) [Project Team Only](#)

pAvIs

Patient and Environment Aware Adaptive Intelligent Sensor Systems

The pAvIs project is developing innovative electronics and intelligent sensor systems for professional healthcare diagnostic and therapy applications such as scans and vital signs monitoring. It aims to deliver a paradigm shift from today's 'one-size fits all' to sensor-based systems with real-time adaptability to individual patients and the operating environment. These systems will employ embedded AI algorithms to modify both the settings of individual components and the complete signal acquisition system. Plus, by integrating high-efficiency AI (Artificial Intelligence) algorithms and hardware AI accelerators, the systems will be optimized for low-power usage as well as for optimal diagnosis and treatment of each patient.

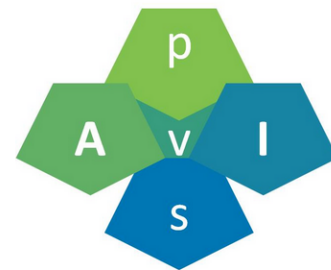


Figure 1 Screenshot of PAVIS website

3.3.2 Workshops and trade shows

The project will take advantage of commercial and academic workshops and trade shows to present the project consortium and goals.

3.4 Academic channels

All partners will work towards dissemination by publications in international, refereed journals and at

targeted conferences, and will also be active in individual promotion.

3.4.1 Conferences and papers

Academic activities aim to present various results of the project and include dissemination of individual results as they arise via presentations at, amongst others conferences and publications in journals. All partners will be reminded to upload copies of relevant publications to the file share for internal dissemination. Partners will be reminded to properly acknowledge PAVIS and PENTA in their publications. Once or twice per year all partners will be reminded to verify publication lists and to provide links to new PAVIS related public research results. See paragraph 4.2 (Form 1 and 2) for a summary of publications and presentations the PAVIS results have been disseminated in.

3.4.2 Courses and talks

Dissemination activities of each partner with regard to courses, lectures and presentations at symposia etc. related to PAVIS results are listed in paragraph 4.2 (Form 3 and 4).

3.4.3 External collaborations

The PAVIS project aims to make links with external activities via collaborations with external partners (such as standards bodies) and other projects (EU and national). As an example, PAVIS representatives are involved in Joint Working Group for TS 10974 (see also D5.2 Standardization Plan).

4. PERFORMED DISSEMINATION ACTIVITIES

In the following tables the formats are suggested that will be used to provide an Excel overview of the dissemination activities. Currently during the first year with the COVID-19 crisis the dissemination activities were very limited, we expect to catch-up at a later stage in the project.

Some suggestions on the way of working:

- List the dissemination activities (name, date, location, type & goal of event and contribution) and partner who is responsible for the dissemination briefly.
- Do not squeeze too much information into these tables as this prevents you from benefiting from the good, quick overview the template provides.
- Record the details of all communication activities as they take place (date/year).
- Keep records of conferences and workshops, your scientific publications, courses, lectures and talks.
- Add all other information that may be important as notes with references to the activity within the dissemination plan (Form 4).

4.1 Active participation in conferences and workshops

Identification No.	Title	Main presenter (partner)	Date/ Location	Type & goal of event	Contribution	Partners involved
1	Challenging the Status Quo in Medical Devices: How the European PAVIS Consortium Will Make Future Implantable Devices Fully Tailored to Each Individual Patient	Guy Fierens (Cochlear)	10/02/2022	Conference for MedTech industry	Presentation	Cochlear (presenter)

4.2 Scientific papers and other publications

No.	Title	First author (partner)	Journal/ Volume/ Year/Pages	Partners involved	Permanent identifiers ¹ (if available)	Is/Will open access ² provided to this publication ?

¹ A permanent identifier should be a persistent link to the published version full text if open access or

abstract (if article is pay per view) or to the final manuscript accepted for publication (link to article in repository)

² Open Access is defined as free of charge access for anyone via Internet. Please answer “yes” if the open access to the publication is already established and also if the embargo period for open access is not yet over, but you intend to establish open access afterwards.

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4.3 Courses and talks

No.	Title	Main presenter	Type & Goal to present	Date & location	Audience: type/size	Partners involved

4.4 Other dissemination activities

No.	Type & Goal of activity	Main partner	Date/location	Audience: type/size
1	Newsletter	Philips	25-2-2022, Best, The Netherlands	Philips MRI R&D community
2	Project leaflet	AENEAS, All	14 september 2021, online	Aeneas public

5. Conclusions

The dissemination activities are structured to attract the attention of the public. In the first year they are mainly based on electronic measures (web site, press releases, and use cases).

The dissemination in the second year will more and more include scientific and technological presentations at various conferences and scientific publications.

In the future scientific contributions will be presented in conferences and publications and additionally market driven activities arise like distribution of application notes and validation reports.