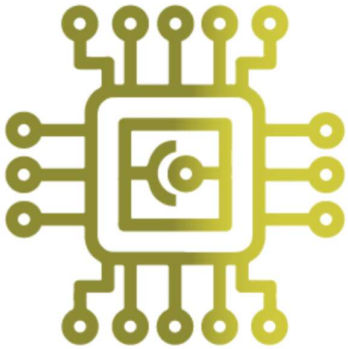
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CONVOLVE

Seamless design of smart edge processors

GRANT AGREEMENT NUMBER: 101070374

Deliverable D8.6

Final Dissemination plan and reports

Disclaimer

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Executive Summary

This deliverable, D8.6 Final Dissemination Plan and Report, provides an overview of the dissemination activities carried out within the CONVOLVE project and assesses their performance against the defined objectives.

Over the course of the project, CONVOLVE has achieved strong dissemination results, particularly in scientific output and engagement with the research community. The project has produced a substantial number of peer-reviewed publications, exceeding the target defined for scientific dissemination, and has maintained active participation in international conferences through papers, presentations, and invited talks. These activities have ensured visibility of project results across relevant academic and industrial audiences.

Dissemination activities have been supported by structured reporting through project repositories, enabling the collection and monitoring of publications and events. In parallel, project outputs have been made accessible through European Commission channels, including the Funding & Tenders Portal and CORDIS, ensuring transparency and availability of results.

Additional dissemination efforts, such as training activities, workshops, and outreach initiatives, have contributed to knowledge transfer and engagement beyond the core research community. Dissemination materials, including project leaflets, were produced and used at events to support visibility, although their distribution was not systematically tracked.

While the available data provides a reliable baseline for assessing dissemination performance, it should be noted that the collection of inputs from partners has presented challenges, and some dissemination activities may not be fully captured. The reported figures, therefore, represent a conservative baseline, and the overall dissemination reach of the project is likely broader than reflected.

Looking ahead, dissemination will continue beyond the formal project duration through ongoing updates to the project website, including new publications and records of event participation. Demonstrators are currently under development and will be disseminated once finalised. In addition, selected key exploitable results are planned for publication on the Horizon Results Platform following the finalisation of the project's IPR and exploitation framework.

Overall, CONVOLVE has met or exceeded its dissemination objectives and has contributed to strengthening the visibility and impact of European research in energy-efficient edge AI systems.

1. Introduction

This document, D8.6 Final Dissemination Plan and Report, is a deliverable of Work Package 8 "Dissemination, Communication & Exploitation of Results", specifically Task T8.2 "Dissemination to the scientific and industrial community", led by CAIRNE. It provides an overview of the dissemination activities carried out throughout the project and assesses their performance against the initial plan and defined objectives.

Dissemination activities aim to maximise the impact of the project's research results by supporting their uptake within the scientific community, industry, and relevant stakeholder groups. This includes enabling access to and reuse of project outcomes, such as publications, tools, and technical results. Dissemination is distinct from communication activities, which focus on raising awareness of the project's goals, activities, and results among both professional audiences and the general public. Awareness-oriented and public-facing activities are reported in D8.4 "Final Communication Plan and Reports", while this deliverable focuses on the dissemination of technical results.

Building on the initial dissemination plan defined in D8.5 "Initial Dissemination Plan and report", this deliverable reflects the implementation of dissemination activities over the course of the project. It draws on structured reporting through project repositories and European Commission channels to provide a consolidated overview of outputs and engagement.

Together with D8.1 "Project Identity Set and Website" and D8.4 "Final Communication Plan and Reports", D8.6 forms part of the overall Communication and Dissemination framework of CONVOLVE. Dissemination activities have been coordinated within WP8, ensuring alignment across partners and consistency in the presentation and promotion of project results.

2. Target Groups

Dissemination activities within the CONVOLVE project are directed towards stakeholders that can directly make use of, build upon, or further develop the project results. The target groups and stakeholder segmentation are defined in detail in D8.4 "Final Communication Plan and Reports". In alignment with this framework, dissemination activities primarily address audiences within the sphere of influence, focusing on stakeholders able to use, develop, or build upon project results.

The primary dissemination target groups include:

- Scientific and research community, including universities, research institutes, and academic networks working on AI, edge computing, hardware architectures, and compiler technologies. These stakeholders contribute to the advancement and reuse of project results through publications, collaborations, and further research.
- Industry and technology developers, including semiconductor companies, hardware and system designers, EDA/IP providers, and SMEs working on AI and edge computing technologies. These stakeholders represent potential adopters and integrators of CONVOLVE outputs, including tools, methodologies, and hardware–software co-design approaches.
- Innovators and developers, including open-source contributors and technical communities engaged in the development of software frameworks, compilers, and AI systems. These groups are particularly relevant for the uptake and further development of the open-source tools released within the project.

Dissemination activities focus on these technically oriented audiences, while communication activities addressing broader outreach are described separately in D8.4 "Final Communication Plan and Reports".

Through this targeted approach, dissemination activities ensure that CONVOLVE results are not only visible but also accessible and usable by the stakeholders most relevant for their further development and impact.

3. Dissemination tools and materials

Dissemination of CONVOLVE results has been carried out through a structured set of activities targeting relevant scientific, industrial, and technical audiences. These activities include peer-reviewed publications, participation in conferences and workshops, training actions, and the release of technical tools and frameworks. Together, these channels support validation, reuse, and uptake of project results within the broader research and innovation ecosystem.

3.1. Scientific Publications

The project has produced a substantial body of peer-reviewed scientific publications, including journal articles, conference papers, and workshop contributions. These outputs reflect the technical breadth of the project, covering areas such as edge AI architectures, hardware acceleration, compiler technologies, security, and energy-efficient computing.

Publications have appeared in established and high-impact venues, including IEEE and ACM journals and conferences. The consistent presence of project results in peer-reviewed venues supports external validation and contributes to the scientific credibility of the work carried out within CONVOLVE.

In line with European Commission requirements, partners explicitly acknowledged EU funding in their publications using standardised formulations. These acknowledgements were included in accordance with the requirements of the respective publication venues, typically in footnotes or dedicated acknowledgement sections. Guidance and materials, including the EU emblem and multilingual funding statements, were provided through the project's internal communication framework to ensure consistency and compliance.

Publications were made available through open access routes wherever possible, either via publisher platforms or recognised repositories. Persistent identifiers (DOIs) were systematically used to ensure traceability and long-term accessibility of results.

3.2. Participation in Conferences, Workshops, and Events

3.2.1. Scientific Conferences and Workshops

Project results were disseminated through active participation in major international conferences and workshops. These activities included paper presentations, poster sessions, invited talks, and keynote contributions at events such as DATE, ASPLOS, ISCA, DAC, HiPEAC, VLSI-SoC, and DTTIS (Figure 1).

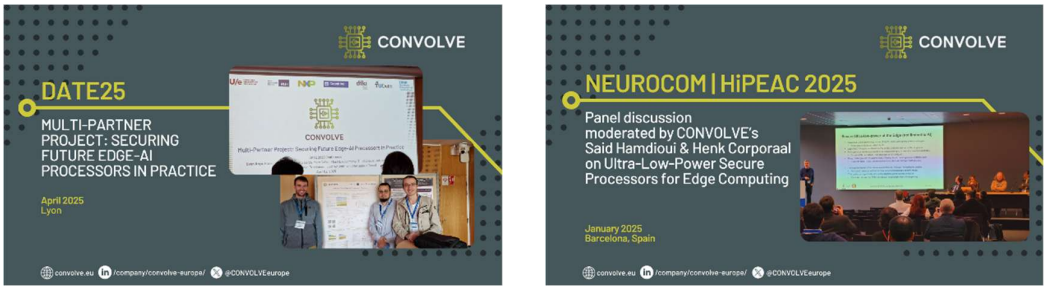


FIGURE 1. CONVOLVE DISSEMINATION AT INTERNATIONAL CONFERENCES AND WORKSHOPS.

Such participation enabled direct interaction with the research and innovation community, providing opportunities to present results, receive expert feedback, and position CONVOLVE within the broader landscape of edge AI and hardware systems research.

3.2.2. Training Activities

Training activities supported the structured dissemination of project methodologies and technical results to external audiences. These included specialised courses, workshops, and tutorials targeting both academic and industry participants.

Examples include contributions to international training programmes such as the MEAD courses on hardware-efficient edge AI. In addition, project partners contributed to external workshops and training events, including xDSL workshops at HiPEAC and ASPLOS, as well as training schools and international summer schools, such as MLIR and the KU Leuven Semiconductor School (**Figure 2**).



FIGURE 2. CONVOLVE TRAINING ACTIVITIES SUPPORTING DISSEMINATION OF PROJECT RESULTS.

These activities provided participants with practical insights into accelerator design, compiler optimisation, and cross-layer design methodologies developed within the project. Training activities were directly linked to project outputs, ensuring that dissemination was grounded in concrete technical results and supporting their uptake by the community.

3.3. Dissemination of Technical Tools

A key component of dissemination has been the release of technical tools, frameworks, and design methodologies developed within CONVOLVE. These outputs support the practical application and further development of project results beyond the consortium.

Examples include open-source frameworks for design space exploration, accelerator modelling, compiler development, and hardware–software co-design. These tools are publicly available through open-source repositories and are accompanied by documentation to support reuse and further development.

The dissemination of these tools enables reproducibility and facilitates further innovation by researchers and developers. In several cases, the tools are directly supported by scientific publications, which document the underlying methods and provide validation of their effectiveness.

Demonstrators were planned as part of the dissemination activities and are currently under development. At the time of reporting, they are not yet finalised and will be disseminated once completed.

3.4. Dissemination through European Commission Channels

Project results have also been disseminated through relevant European Commission channels to ensure accessibility and visibility of outcomes. Dissemination activities and publications have been reported via the Funding & Tenders Portal and reflected in CORDIS.

In addition, selected key exploitable results are being prepared for publication on the Horizon Results Platform, following alignment with the project's IPR and exploitation framework.

4. Dissemination Monitoring and Reporting

4.1. Monitoring and Reporting Process

All dissemination activities were collected through structured project repositories, including the publications and dissemination repositories, ensuring traceability, consistency, and alignment across partners:

- CONVOLVE Publication Repository, which collects all scientific outputs, including peer-reviewed publications, conference papers, and associated metadata (e.g. DOI, venue, open access status).
- CONVOLVE Dissemination Repository, which records dissemination activities such as conferences, workshops, training events, invited talks, and outreach actions.

Together, these repositories provide a structured overview of outputs and activities, supporting the tracking of dissemination performance against the project's Key Performance Indicators (KPIs).

However, despite the availability of structured templates and regular requests for input, the collection of complete and timely information from all partners proved challenging. As a result, while the repositories provide a robust overview of dissemination performance, some activities—particularly individual conference participations and presentations—may not have been systematically reported. This limitation is taken into account in Table 1.

4.2. KPI Assessment

The dissemination performance of CONVOLVE is assessed against the targets defined in the Description of Action (DoA) and the initial Dissemination Plan (D8.5). The assessment focuses on robust and verifiable indicators derived from the project repositories.

TABLE 1. KEY PERFORMANCE INDICATORS FOR CONVOLVE DISSEMINATION ACTIVITIES (AS OF 24 APRIL 2026).

Activity	Metric	Target	Status
Scientific dissemination	Number of flyers distributed	400+	Produced and distributed at events (not tracked)
	Number of conferences (papers, talks and presentations)	60+	62
	Number of scientific publications	60+	77
Exhibitions	Number of demos	3+	Under development – dissemination pending
European Commission tools	Number of EU tools participating in	2	2

Overall, the KPI data indicates that CONVOLVE has met or exceeded its planned dissemination targets.

Scientific dissemination has been particularly successful. The project has exceeded its target for scientific publications, with a substantial body of peer-reviewed outputs across journals and conference proceedings. These publications reflect sustained research activity across the consortium and contribute to the advancement of knowledge in areas such as energy-efficient edge AI, hardware acceleration, security, and compiler technologies.

Conference participation has also met the expected target, with partners actively presenting results through papers, talks, and keynote contributions at major international venues. These activities have ensured consistent visibility of project results within relevant research communities and facilitated exchange with both academic and industrial stakeholders.

Additional dissemination efforts, including training activities, workshops, and outreach initiatives, have further supported knowledge transfer and engagement beyond the core scientific community. Dissemination materials, such as project leaflets, were produced and made available at events, supporting broader visibility, although their distribution was not systematically tracked.

Dissemination through European Commission channels has been successfully implemented. Project outputs have been reported via the Funding & Tenders Portal and reflected in CORDIS, ensuring accessibility and transparency. Selected key exploitable results are planned for publication on the Horizon Results Platform once the project's IPR and exploitation framework has been finalised.

It should be noted that, despite the establishment of structured repositories for publications and dissemination activities, the collection of complete and consistent input from all partners has been challenging. As a result, some dissemination activities—particularly conference participations and presentations—may not be fully captured. The figures presented therefore reflect a consolidated and validated baseline, while the overall dissemination reach of the project is likely broader.

Taken together, the results indicate that CONVOLVE has met or exceeded its core dissemination objectives and achieved strong visibility across its target audiences, particularly within the European and international research community.

5. Conclusions

CONVOLVE has effectively disseminated its results, achieving the targets set for scientific output and engagement with the research community. The project has produced a substantial body of peer-reviewed publications and maintained strong participation in international conferences, ensuring visibility of its outcomes across relevant domains.

Dissemination activities have been supported by structured reporting through European Commission channels, including the Funding & Tenders Portal and CORDIS, providing accessible and transparent documentation of project results. Additional dissemination through training activities, workshops, and outreach initiatives has contributed to broader knowledge transfer.

While some dissemination activities may not be fully captured due to limitations in partner reporting, the available data provides a reliable baseline for assessing performance. Overall, the project demonstrates effective dissemination and a strong contribution to advancing European research in energy-efficient edge AI systems.

The implementation of dissemination activities highlighted several practical considerations. While scientific dissemination through publications and conferences performed strongly, the collection of dissemination data from partners proved challenging, leading to potential underreporting. In addition, certain planned activities, such as demonstrators and exhibitions, progressed more slowly than anticipated. These observations provide useful input for future projects, particularly regarding early establishment of reporting processes and alignment of dissemination planning with development timelines.

Looking ahead, dissemination will continue beyond the formal project duration through ongoing updates to the project website, including new publications and records of event participation as they become available. In parallel, demonstrators are under development and will be disseminated once finalised. Further visibility and uptake of project results will also be supported through the planned publication of key exploitable results on the Horizon Results Platform, following the finalisation of the project's IPR and exploitation framework. Dissemination activities directly support the future exploitation and uptake of project results.