



NEWSLETTER #6 - September 2026

Dear reader,

As 2D-PRINTABLE comes to an end today, we would like to take a moment to reflect on this incredible three-year journey. Together, we have explored new frontiers in two-dimensional materials, and delivered results that help advance the future of printable electronics.

None of this would have been possible without the dedication, expertise, and collaboration of our project partners as well as involved stakeholders. We are proud of what we have achieved together and grateful to everyone who contributed to the success of the project.



A special thank you also goes to our readers and followers for joining us throughout this journey, whether through our website, newsletters, events or social media.

While the project may be ending, its results and impact will continue long into the future.

Thank you for being part of the 2D-PRINTABLE journey!

NEWS

2D-PRINTABLE at Graphene Week 2026

In September 2026, the graphene and 2D materials community gathered in Porto, Portugal, for **Graphene Week 2026**, held from 21-25 September 2026. As Europe's flagship conference for graphene and other two-dimensional materials, Graphene Week brought together researchers, engineers, entrepreneurs and industry leaders to explore the latest developments shaping the field, from fundamental research and novel materials to scalable technologies and real-world applications.

With more than 500 participants in attendance, the event featured a packed programme of plenary and keynote talks, technical sessions, poster presentations, industry and innovation forums, and numerous opportunities for networking and collaboration across academia and industry.



The **2D-PRINTABLE** community was strongly represented throughout the week, with several project partners contributing to the scientific programme. Highlights included invited talks from **Jonathan Coleman (TCD)**, **Paolo Samori (UNISTRA)**, **Francesco Bonaccorso (BeD)**, **Zdenek Šofer (VSCHT)** and **Claudia Backes (UKa)**, who shared insights spanning the diverse landscape of 2D materials research and innovation.

Francesco Bonaccorso (BeD) also participated in the **Innovation Forum**, contributing to discussions on one of the most important challenges facing the sector today: how graphene and other 2D materials can successfully transition from laboratory research to commercially viable products and applications.

Graphene Week 2026 brought together leading researchers, innovators and industry representatives to share the latest advances in graphene and other 2D materials. For the 2D-PRINTABLE consortium, the event provided an excellent opportunity to present project results, exchange ideas with peers, strengthen existing collaborations and explore new avenues for future research and innovation in printable 2D-material technologies.

The conference highlighted the continued growth and maturity of the 2D materials community, with participants from academia and industry coming together to address key scientific and technological challenges and discuss the future directions.

Discover more highlights from Graphene Week 2026 on the [Graphene Flagship LinkedIn page](#) and stay up to date with the latest news from 2D-PRINTABLE by following our LinkedIn page [here](#).

Source pictures: Graphene Flagship



2D-PRINTABLE Final Review Meeting

On 29 September 2026, the 2D-PRINTABLE consortium held its final Review Meeting, bringing together project partners, the Project Officer and external reviewers to assess the project's achievements and impact.

During the meeting, partners presented the significant scientific and technological progress made throughout the project, highlighting advances in 2D materials discovery, synthesis, ink formulation, printed nanosheet networks, device fabrication, and advanced characterisation. The consortium also showcased the successful demonstration of high-performance printed electronic and optoelectronic devices, validating the project's vision for future printed digital technologies.

The reviewers provided positive feedback on the project's achievements, scientific excellence, and dissemination activities. Discussions also focused on the exploitation potential of the project's key results, opportunities for future collaboration, and pathways for further research and industrial uptake beyond the project's lifetime.

The meeting concluded with a reflection on 2D-PRINTABLE's successful delivery of its objectives and its contribution to advancing the state of the art in printed 2D materials and electronics.

2D-PRINTABLE successfully reaches final project milestones

We are proud to announce that 2D-PRINTABLE has successfully achieved its final project milestones, marking an important step forward in the development of printable electronic and optoelectronic devices based on 2D materials.



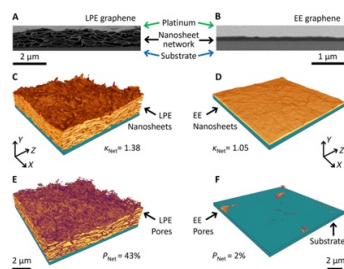
A major achievement of the project was the successful demonstration of the targeted performance metrics for transistor technologies based on 2D nanosheets. While realised through individual nanosheet-based semiconductor and dielectric components, the essential building blocks required for all-nanosheet thin-film transistors (TFTs) were successfully developed and validated. These results confirm the feasibility of the targeted device architecture and provide a strong foundation for future integrated 2D-material electronic devices.

The project also demonstrated nanosheet-based heterojunction photovoltaic and light-emitting devices, highlighting the versatility of solution-processed 2D materials for optoelectronic applications. Through extensive process development and optimisation, the consortium established reliable methods for fabricating advanced 2D-material heterostructures and validated key concepts for both photovoltaic and electroluminescent technologies.

One of the most significant outcomes of 2D-PRINTABLE has been the development of robust fabrication procedures for producing high-quality 2D-material heterostacks. The resulting device architectures exhibited strong exciton formation efficiencies, underlining the quality of the developed heterostructures and creating an excellent platform for future advances in solution-processed 2D-material LEDs and related technologies.

Together, these achievements represent an important step towards scalable, printable, and sustainable 2D-material technologies, strengthening the foundations for future research, innovation, and real-world applications.

We are delighted to announce that all 2D-PRINTABLE deliverables have now been successfully completed. These final results demonstrate the project's progress in printable electronics based on two-dimensional materials (2DMs), covering computational materials discovery, materials design, heterostructure development, characterisation, device fabrication, exploitation, and data management. Below is a summary of the project's latest deliverables.



nanosheets while enabling light-responsive electrical behaviour.

D3.5 – Second Generation of Printed Network Heterostructures (TCD): Demonstrated chemically cross-linked MoS₂ and graphene heterostructures with enhanced carrier density and improved charge transport across nanosheet networks.

D4.4 – Characterisation of Networks and Heterostructures (TCD): Established a comprehensive set of advanced characterisation methods to assess nanosheet quality, morphology, interfaces, and device performance.

D5.3 – Electrical Characterisation of Films and Vertical Heterostructures (UniBW M): Investigated charge transport in printed films and demonstrated reversible light-controlled electrical responses in hybrid heterostructures.

D6.4 – Nanosheet-Based Memory Devices (UNISTRA): Successfully developed high-performance ferroelectric memory devices with stable switching behaviour, long retention times, and excellent endurance.

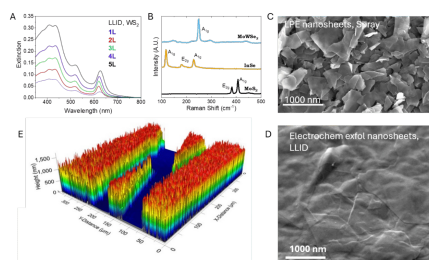
D7.4 – Final Exploitation Plan (UNR): Defined ownership structures, commercialisation pathways, and exploitation roadmaps to maximise the long-term impact of the project's key results.

D8.5 – Final Data Management Plan (TCD): Established a framework for preserving, managing, and maintaining project data and outputs beyond the project's lifetime, in line with FAIR data principles.

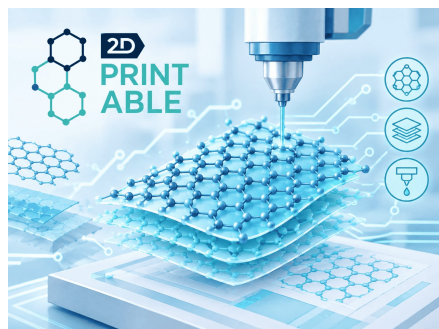
Together, these deliverables reflect the strong scientific, technological, and innovation achievements of 2D-PRINTABLE and provide a solid foundation for future research, industrial exploitation, and the continued development of printable 2D material technologies. Interested in learning more? Explore all 2D-PRINTABLE deliverables on our website [here](#).

D1.6 – Other Properties of Monolayers and Multilayers (EPFL): Identified 54 promising 2D materials with strong optoelectronic potential from a database of more than 2,700 candidate monolayers, providing new targets for future research and device development.

D2.4 – Second Generation of Discrete Assemblies of 2DMs (UNISTRA): Developed a molecular assembly strategy that improves connectivity and charge transport between



2D-PRINTABLE publications



Over the course of the project, 2D-PRINTABLE has generated **60 peer-reviewed scientific publications**, reflecting the consortium's commitment to excellence in research and innovation. From novel 2D materials and advanced heterostructures to printable devices and characterisation techniques, these publications highlight the project's key scientific achievements.

Explore our [Publications](#) section to discover the latest research results from across the consortium.

Project Partners

2D-PRINTABLE joins a multi-disciplinary consortium with 7 Universities and 2 SMEs, located in 7 European countries including Ireland, France, Italy, Germany, Czechia, Switzerland and the Netherlands, to advance the field of 2D materials and unlock the full technology's potential to play a significant role in the future of European digital electronics manufacturing.



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



U N I K A S S E L
V E R S I T Ä T



EPFL

Facts & Figures

Acronym: 2D-PRINTABLE

Duration: 36 months

Start date: 1st October 2023

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EC Funding: 3,999,996.00€



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Voor een goede ontvangst voegt u projectsupport@uniresearch.com toe aan uw adresboek.