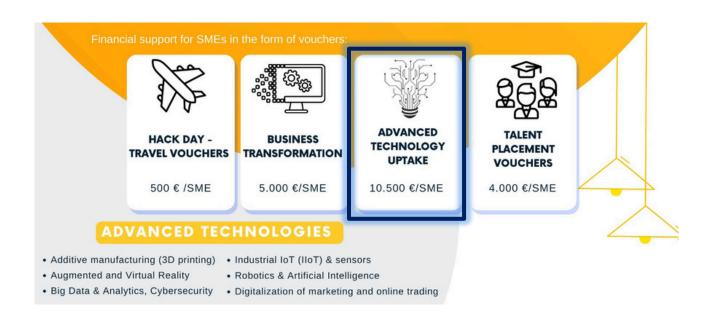






# SILEO Advanced Technology Uptake Projects & FSTP Open Calls









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#### **Premises**

The **SILEO Eurocluster project**, co-financed by the EU's Single Market Programme (SMP/COSME Pillar), aims to support European Small and Medium-sized Enterprises (SMEs) in the lighting and furniture sectors to recover from the COVID-19 crisis, enhance their resilient, foster sustainable practices and strengthen connections with industrial and technological ecosystems. The Consortium brings together seven key lighting and furniture clusters across Europe:

- 1. ELCA European Lighting Cluster Alliance (Italy)
- 2. Cluster Lumière (France)
- 3. **CICAT Lighting Cluster** (Spain)
- 4. Rete di Imprese Luce in Veneto (Italy)
- a) Business Upper Austria OÖ. Wirtschaftsagentur GmbH Building Innovation Cluster (Austria)
- 5. TFC Transylvanian Furniture Cluster (Romania)
- 6. Cluster Legno, Arredo e Sistema Casa FVG (Italy)















SILEO project focuses on empowering SMEs to embrace digitalization, adopt circular economy practices, and strengthen their capacity to navigate supply chain challenges. Through an open innovation ecosystem, SILEO proposes direct financial support through financial support to third parties (FSTP - cascade funding), joint talent placement services and internationalization initiatives. These measures aim to accelerate recovery, enhance competitiveness, and position European SMEs as proactive players in the digital and green transition.

#### SILEO FINANCIAL SUPPORT TO THIRD PARTIES (FSTP)

The SILEO Consortium defined **5 types of Financial Support to Third Parties (FSTP)** that were activated through open calls during the project's implementation. The total SILEO budget allocated for financial support (FSTP) amounted to €1,050,000.



**SILEO Hack Day Travel Vouchers** (financial support through lump sums)

To encourage the development of ideas and investment projects, travel vouchers were made available to support lighting and furniture SMEs, as well as tech-savvy companies, in participating in two international hackathon events organized in Romania and Italy. During these hackathons, participants actively engaged in matchmaking activities, fostering collaboration and innovation.

- → Hack Day in Romania, Cluj-Napoca: Call opened from 20.02.2024 to 26.04.2024.
- $\rightarrow$  Hack Day in Italy, Padua: Call opened from 29.04.2024 to 28.06.2024.









**SILEO Business Digital Transformation Projects** (financial support through lump sums)

This Call provided financial support (EUR 5.000) to SMEs in the lighting and furniture sector to implement business digital transformation projects in collaboration with digital technology providers/facilitators.

- $\rightarrow$  1° Open Call: opened from 17.04.2023 to 20.06.2023.
- $\rightarrow$  2° Open Call: opened from 22.01.2024 to 25.03.2024.



**SILEO Advanced Technology Uptake Projects** (financial support through lump sums)

This call supported lighting and furniture SMEs in implementing, developing, or integrating new advanced technologies into their business operations to enhance resilience and digital and green transformation, in collaboration with technology providers.

- → 1° Open Call: opened from 12.02.2024 to 12.04.2024.
- $\rightarrow$  2° Open Call: opened from 26.08.2024 to 25.10.2024.



**SILEO Talent Placement Projects** (financial support through lump sums)

This call helped SMEs attract talent (particularly young graduates) to reinforce their company's digitalization and circular economy transitions while facilitating job placement for new graduates entering the workforce.

 $\rightarrow$  Open Call: opened from 27.11.2023 to 06.02.2024.



#### **SILEO Best Company Story-telling Video Contest** (Cash prizes)

To enhance companies' visibility and international appeal, lighting and furniture SMEs were invited to participate in the SILEO International Contest for the "Best SME Storytelling" video, showcasing their green and/or digital transition success stories.

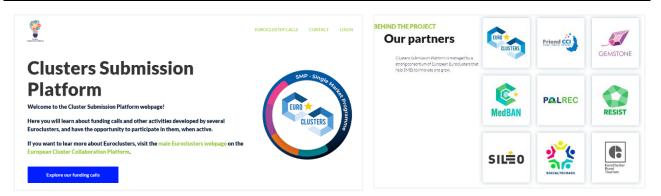
→ Open Call opened from 14.11.2024 to 10.01.2025.

All SILEO Open Calls were hosted on the **Cluster Submission Platform** (<a href="https://clustersubmissionplatform.eu/">https://clustersubmissionplatform.eu/</a>), developed in collaboration with Cluster IDiA. This platform played a key role in managing the application processes for the SILEO project and eight other Eurocluster projects. The collaborative effort was highly appreciated by the beneficiaries for its efficiency and user-friendly approach.









Cluster Submission Platform homepage & partners

# 1. Outlook of SILEO Advanced Technology Uptake Projects

The SILEO Open Calls for Advanced Technology Uptake Projects successfully supported SMEs in the lighting and furniture sectors in integrating cutting-edge technologies and digital solutions into their business operations. The main goal of the SILEO Open Calls was to leverage advanced technologies and digital solutions to help SMEs develop new strategic products and services, improve existing processes, and identify new growth opportunities within a digital and circular economy framework. Before committing to large-scale transformation, it was crucial for SMEs to test and validate these technologies on a small scale to assess their feasibility and long-term potential. The Open Call provided funding (up to € 10.500) for the practical implementation of new technologies through the following activities implemented in collaboration with technology providers:

- a) Prototyping of new products or services: this activity helped SMEs develop prototypes of new products or services using advanced technologies or digital solutions that were strategic for business growth. Technology providers assisted SMEs in bridging the gap between concept and reality, ensuring that innovative ideas were successfully transformed into functional prototypes.
- b) Pilot application: This phase focused on testing and validating new prototypes or advanced technologies to confirm their effectiveness and potential for full-scale implementation. The goal was to ensure that the technology aligned with business objectives and contributed to digital and green business growth.
- c) Combined prototyping and pilot application: this category merged prototyping and pilot application phases, allowing SMEs to develop a prototype and test its integration into real business operations simultaneously.

The SILEO Consortium provided a maximum funding amount of € 10.500 per project. Each SME could undertake one project under this initiative. The activities were delivered in collaboration with technology providers selected from the SILEO Pool of Technology Uptake Facilitators.

#### 1.1 SILEO Pool of Technology Uptake Facilitators

To support SMEs in identifying qualified technology providers, the **SILEO Consortium** developed targeted **Expression of Interest (EOI) Calls**. These calls were designed to identify and select technology providers and sustainability experts capable of assisting lighting and furniture SMEs within the Advanced Technology Uptake Projects and Business Digital Transformation Projects financial support schemes.







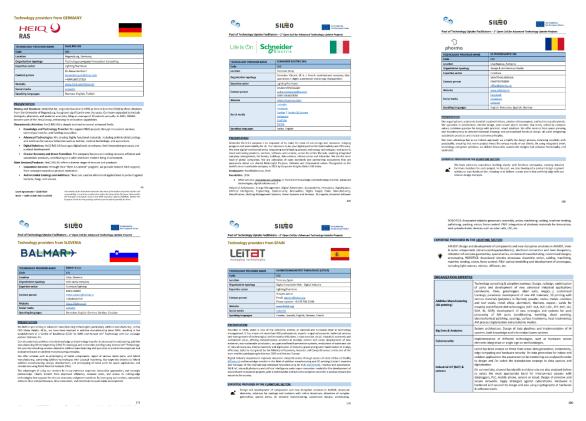
The EOI Calls were launched before the main Open Calls for SMEs and closed two weeks prior to the Open Call deadlines. This approach allowed SMEs to nominate their preferred technology providers in advance, ensuring that applications for inclusion in the facilitator pool were submitted before the final deadline.

Eligible technology providers included public or private legal entities, with a minimum of three years of experience and demonstrable capacity in technology transfer related to advanced technologies and sustainable practices. The range of eligible providers includes, but is not limited to, the following categories:

- Knowledge and technology providers
- Circular economy facilitators and green transition experts
- Tech-savvy companies (e.g., technology companies)
- Digital Innovation Hubs
- Competence Centers
- Academia, universities, and specialized research groups
- Research centers and upscaling entities
- Freelance professionals registered as legal persons

Once validated by the SILEO Consortium, these organizations were included in the SILEO Pool of Technology Uptake Facilitators, an official registry of approved technology providers. This pool served as a resource for SMEs participating in SILEO financial support schemes, enabling them to select pre-approved and qualified facilitators for their projects.

Through this structured approach, the SILEO Consortium ensured both transparency and efficiency in connecting SMEs with suitable technology providers, fostering innovation and sustainable growth.



Example of technology providers from the SILEO Pool of Technology Uptake Facilitators







#### 1.2 Advanced technologies and digital solutions

As the ambition of the Advanced Technology Uptake Projects was to enable SMEs to explore the potential of digitalisation processes and/or uptake of advanced technologies implementation to support their green and digital transition, SILEO Partners conducted preliminary yet methodical research to identify the most requested and relevant advanced technologies. The following technologies (not an exhaustive list) were identified as paramount for lighting and furniture SMEs:

<del></del>
3D

#### Additive Manufacturing (AM) - 3D printing

This technology improved resource efficiency in both production and usage phases by allowing manufacturing processes and products to be redesigned for AM. Additionally, it extended product life through repair, remanufacturing, and refurbishment while fostering stronger producer-consumer relationships and more sustainable socio-economic patterns.



#### **Augmented and Virtual Reality (VR)**

These technologies supported the implementation of smart products and enhanced customer experience by enabling hyper-customization for designers and end-users. Customization through VR led to fewer product errors and reduced waste, contributing positively to a low-carbon economy.



#### **Big Data & Analytics**

SMEs utilized data-based analysis tools to visualize bottlenecks and risks in real time, making data more comprehensible and enabling better decision-making.



#### Cybersecurity

Since many modern building facilities were equipped with grid-connected products, including lighting, electricity, and heating, cybersecurity became essential. The Internet of Things (IoT) sensors integrated into lighting fixtures made them potential targets for cyber-attacks, necessitating the implementation of cybersecurity technologies in smart lighting products.



#### Industrial IoT (IIoT) & sensors

IIoT increased safety and efficiency at production sites, reduced human errors, and improved logistics and distribution, making SMEs more resilient to supply chain crises. The integration of sensors and printable codes enabled raw material tracking and precise management of lighting systems, leading to optimized energy consumption.



#### Pohotics

Efficient robotic implementations—such as material handling, Metal Inert Gas (MIG) welding, spot welding, and arc welding—helped SMEs improve safety standards, product quality, and resource efficiency.



#### **Artificial Intelligence (AI)**

Al was leveraged for product proposals via apps and product development, enhancing customization, reducing errors, and increasing creativity in production processes.



#### Digitalisation of marketing and online trading

Marketing gradually shifted to digital platforms, such as video, audio, and other online channels, allowing businesses to reach their target audiences more effectively. Digital marketing strategies transformed traditional activities such as commerce, customer management, sales e-commerce, and B2B commerce into digital formats.



#### Image scripting technologies

This technology enabled the creation of photorealistic images for furniture and lighting products, making them showcase-ready for online platforms. Customers could zoom in, rotate, and explore products in detail without losing quality or clarity. Additionally, hidden components and features could be revealed using interactive functionalities.









#### Web-based Augmented Reality (WebAR)

WebAR helped businesses bring products to market faster and allowed them to effectively communicate the value of complex, high-cost products in B2B transactions. As a sales tool, it enabled customers to visualize products within their own environments using AR-based digital models.



#### **Machine learning**

Al-driven machine learning was used to create personalized buying experiences for customers, allowing businesses to tailor recommendations and interactions more effectively.

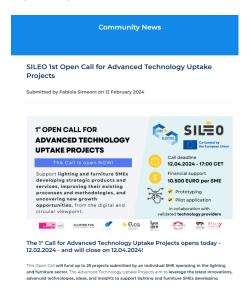
# 2. Implementation of Advanced Technology Uptake Projects Open Calls

The allocation of SILEO Advanced Technology Uptake Projects to SMEs was conducted through an Open Call procedure, strictly adhering to EU standards and the Grant Agreement's provisions regarding support to third parties (FSTP). Two open calls were scheduled:

- 1st Open Call for Advanced Technology Uptake Projects: open from 12.02.2024 to 12.04.2024
- 2nd Open Call for Advanced Technology Uptake Projects: open from 26.08.2024 to 25.10.2024

A total of 50 projects were planned for allocation across the two calls, with a total budget of € 525.000,00.

Both SILEO Calls were widely promoted across multiple platforms, including the European Cluster Collaboration Platform, the Funding & Tenders Portal, and the websites of SILEO project partners. Additional promotional efforts were carried out through project communication channels, institutional networks, regional authorities (such as local Enterprise Europe Network nodes), and various social media channels. Some examples of promotion:

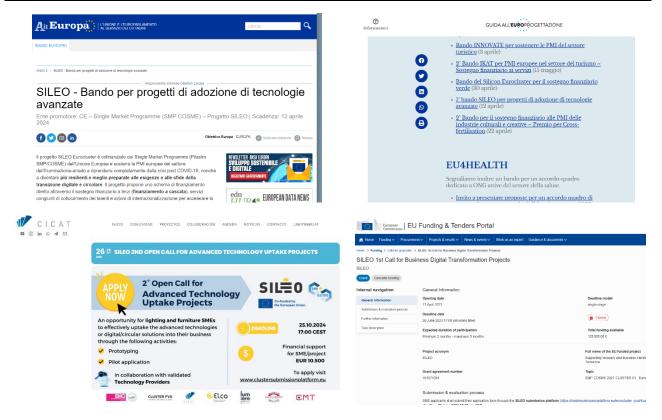












As the SILEO Coordinator, ELCA European Lighting Cluster Alliance organized **dedicated info sessions** for each Open Call to offer detailed guidance on the application process, eligibility criteria and to answer questions from interested SME applicants. Recordings of these sessions were later uploaded to the Call page on the Cluster Submission Platform for easy reference.

Additionally, SILEO partners held their own local info sessions in the respective national languages, ensuring accessibility and clear communication for lighting and furniture SMEs across various regions.









#### 2.1 SILEO Submission Platform

Both Calls were made accessible through the **Cluster Submission Platform** (<a href="https://clustersubmissionplatform.eu/">https://clustersubmissionplatform.eu/</a>), which provided applicants with all necessary information and resources for participation in the SILEO Application Process.

The platform featured a **dedicated homepage**, where the key details of each call were outlined, including its core objectives. This ensured that applicants clearly understood the purpose of the call and how it aligned with their projects. Additionally, the homepage offered a **comprehensive set of downloadable resources** to assist applicants, including:

- **SILEO Guide for Applicants**, which provided detailed instructions on eligibility criteria, the application process, and required documentation.
- **Application Form Template Technical Part**, which was required for completing the technical documentation on project relevance, implementation, and impact.
- A collection of FAQs, addressing common questions and clarifications about the call.

Furthermore, the homepage featured slides and a recording of the information webinar, designed to support applicants by explaining the specifics of the call and answering live queries. Applicants also had access to the SILEO Pool of Technology Uptake Facilitators.

•	cts aims to leverage the latest innovations, advanced technologies, ideas, and insights to support lighting and d services, improving their existing processes and methodologies, and uncovering new growth opportunities, fro
, ,	test the technology out on a small scale to determine its level of success and growth potential. SILEO support (lump sum) for prototyping and/or pilot applications.
Vithin the SILEO Call for Advanced Technology ligital/circular solutions into their business throu	Uptake Projects, lighting and furniture SMEs can effectively integrate the selected advanced technologies gh the following activities:
A) PROTOTYPING OF NEW PRODUCTS OR S	BERVICES
) PILOT APPLICATION	
PROTOTYPING + PILOT APPLICATION  Under this SILEO 2 <sup>nd</sup> Call, the SILEO Consortiu	m will select up to <b>25 projects (= 25 beneficiary SMEs)</b> . Awarded SMEs will have from <b>3 to 6 months</b> to eive <b>up to 10.500 EUR per 1 Advanced Technology Uptake Project (project budget)</b> .
PROTOTYPING + PILOT APPLICATION  Under this SILEO 2 <sup>nd</sup> Call, the SILEO Consortiun applement expert consultancy selected and received.	
PROTOTYPING + PILOT APPLICATION  Under this SILEO 2 <sup>nd</sup> Call, the SILEO Consortiu	eive up to 10.500 EUR per 1 Advanced Technology Uptake Project (project budget).
PROTOTYPING + PILOT APPLICATION  Inder this SILEO 2 <sup>nd</sup> Call, the SILEO Consortiu  mplement expert consultancy selected and rece  Maximum amount per project  Estimated no. of projects to be funded	10.500 EUR lump sum for a project/SME
n) PROTOTYPING + PILOT APPLICATION  Inder this SILEO 2 <sup>nd</sup> Call, the SILEO Consortiu  mplement expert consultancy selected and rece  Maximum amount per project	10.500 EUR lump sum for a project/SME  25 projects (=25 SMEs)

Example of the homepage for the 2<sup>nd</sup> Open Call for Advanced Technology Uptake Projects on the SILEO Submission Platform

The application process was structured into three distinct steps:

- 1. **STEP 1 Submission of administrative data:** in the first step, applicants submitted detailed administrative information about their organization, including company name, address, legal status, and contact details. This information was gathered to verify the applicant's eligibility.
- 2. **STEP 2 Upload of technical documentation:** in the second step, applicants were required to upload the *Advanced Technology Uptake Project Technical Part*, which was divided into four critical sections:







- **A. Project Information**, detailed descriptions of the business digital transformation project's scope and nature.
- **B. Project Relevance**, explanation of the objectives and its contribution to digital and/or green transformation.
- **C. Project Implementation**, activities to be implemented, timelines, methods, and required resources.
- **D. Project Impact**, expected outcomes and broader implications of the project.
- 3. **STEP 3 Upload of the signed Declaration of Honour**: the final step required applicants to upload the signed Declaration of Honour, which had to be signed by the legal representative of the company.

## 2.2 Evaluation process of submitted applications

The evaluation of submitted applications was conducted by internal reviewers from the SILEO Open Calls Quality Board (composed of SILEO partners) and external experts. These external evaluators, selected by the SILEO Consortium, had technical expertise in advanced technologies and digitalization, as well as in-depth knowledge of industrial processes in the lighting and furniture sectors. The evaluation process followed strict ethical standards, ensuring no conflicts of interest and maintaining confidentiality of all received information. All reviewers signed a Non-Disclosure Agreement (NDA) with the SILEO Coordinator to guarantee confidentiality. The evaluation was divided into two phases:

- Eligibility assessment: This initial phase determined the eligibility of both the applicant companies and their proposals. It ensured that applications met the criteria outlined in the Open Call guidelines, including company type, geographical requirements, and the proper submission of required documentation.
- Quality evaluation: Applications that successfully passed the eligibility check were then assessed for technical quality. The SILEO evaluators reviewed the proposals based on specific award criteria, evaluating the relevance of the submitted proposal, its implementation and coherence, as well as the potential impact on the SME's green and/or digital transition.

All eligibility and quality criteria were detailed in the SILEO Guidelines for Applicants. After individual evaluations, the results were compiled into a preliminary ranking list. Only proposals that met the minimum threshold for all individual criteria were considered eligible. This preliminary ranking was reviewed and approved by the SILEO Consortium in a dedicated decision-making meeting.

Finally, the selected SMEs were invited to sign a Sub-Grant Agreement (SGA) with the SILEO Consortium, which regulated the terms and conditions for funding disbursement.







# 3. Results of the 1° Open Call for Advanced Technology Uptake Projects

TOTAL APPLICATION SUBMITTED	A TOTAL OF 44 APPLICATIONS WERE SUBMITTED VIA THE SILEO SUBMISSION PORTAL.
EVALUATION PROCESS - ELIGIBILITY CHECK	<ul> <li>8 applications were deemed ineligible by the internal evaluators, validated by the SILEO Consortium, and did not progress further in the selection process.</li> <li>36 applications passed the eligibility criteria.</li> </ul>
EVALUATION PROCESS - QUALITY ASSESMENT	✓ After quality assessments, 36 applications met the required standards. Based on the available budget, the SILEO Consortium jointly agreed to increase the funding allocation to support all 36 applications that successfully passed the evaluation. Consequently, all 36 SMEs were invited to sign the SILEO Sub-Grant Agreement with the SILEO Consortium.
SMES FUNDED	A total of 32 SMEs were ultimately funded, as 4 companies withdrew their applications due to internal reasons. The funded 32 SMEs represented a diverse range of countries, including Czech Republic, France, Italy, Poland, Romania, Slovenia, Spain and Sweden operating in the lighting and furniture sector.  * The applications from Poland, Sweden, Slovenia and Czech Republic were included in the 10% of the supported SMEs from EU regions different from the countries of SILEO partners, as outlined in the mandatory indicator of the call for proposals Joint Cluster Initiatives (EUROCLUSTERS) for Europe's Recovery (SMP-COSME-2021-CLUSTER).
PERIOD OF PROJECT IMPLEMENTATION	The average duration of the business digital projects was 5 months, implemented between September 2024 and April 2025.
SILEO POOL OF TECHNOLOGY UPTAKE FACILITATORS	SILEO Consortium launched the <b>second Expression of Interest (EOI)</b> call with the goal of identifying organizations possessing the expertise and capacity to support SMEs participating in the 1st Open Call for Advanced Technology Uptake Projects. Opened in October 2023, the EOI remained active until two weeks prior to the closing date of the 1st Open Call. A total of <b>80 organizations</b> responded, enriching a diverse database designed to meet the specific needs of lighting and furniture SMEs. These organizations represented a broad geographic range, including countries such as Austria, Belgium, France, Czech Republic, Finland, Italy, Germany,

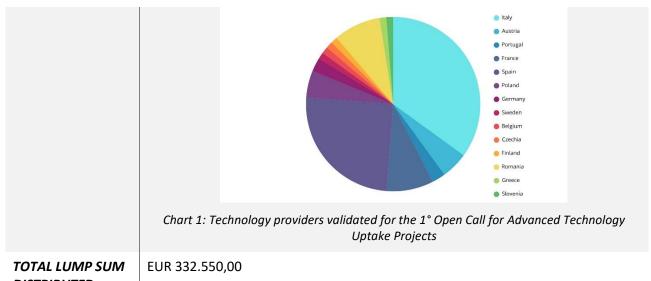
the chart below).

Greece, Poland, Portugal, Romania, Slovenia, Spain, and Sweden (as illustrated in









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# 4. Results of the 2° Open Call for Advanced Technology Uptake Projects

	TOTAL APPLICATION SUBMITTED	A total of 65 applications were submitted via the SILEO submission portal.
	EVALUATION PROCESS - ELIGIBILITY CHECK	<ul> <li>10 applications were deemed ineligible by the internal evaluators, validated by the SILEO Consortium, and did not progress further in the selection process.</li> <li>55 applications passed the eligibility criteria.</li> </ul>
	EVALUATION PROCESS - QUALITY ASSESMENT	<ul> <li>✓ Following the quality assessments, 2 applications did not meet the required quality threshold and were therefore rejected.</li> <li>✓ Based on the available budget, 33 applications that met the necessary standards were selected and invited to sign the SILEO Sub-Grant Agreement with the SILEO Consortium. These projects were chosen based on the highest final total quality scores, calculated as the average of the two evaluations.</li> <li>✓ Although 20 additional companies scored above the threshold, they could not be funded due to budget limitations.</li> </ul>
	SMES FUNDED	The funded 33 SMEs represented a diverse range of countries, including France, Spain, Italy, Poland, Austria, Romania, Slovenia and Ukraine, operating in the lighting and furniture sector.
		* The applications from Poland, Slovenia and Ukraine are included in the 10% of the supported SMEs from EU regions different from the countries of SILEO partners, as outlined in the mandatory indicator of the call for proposals Joint Cluster Initiatives (EUROCLUSTERS) for Europe's Recovery (SMP-COSME-2021-CLUSTER).
9	PERIOD OF PROJECT IMPLEMENTATION	The average duration of the advanced technology uptake projects was 5 months, implemented between January to July 2025.
	SILEO POOL OF TECHNOLOGY UPTAKE FACILITATORS	SILEO Consortium launched the <b>Third Expression of Interest (EOI) call,</b> specifically aimed at identifying organizations with expertise and capacity to assist SMEs in the 2nd Open Call for Advanced Technology Uptake Projects. The 3° EOI was opened in June 2024 and remained active until two weeks before the deadline for the 2nd Open Call. A total of <b>106 organizations</b> responded to the 3°

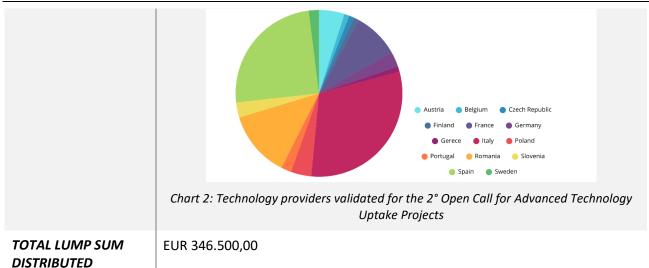
(see chart below).

EOI Call, contributing to a diverse and extensive database tailored to the specific needs of lighting and furniture SMEs. These organizations represented a wide geographic range, spanning Austria, Belgium, Czech Republic, Finland, France, Germany, Greece, Italy, Poland, Portugal, Romania, Spain, Slovenia and Sweden









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# 5. Conclusion: Impact analysis of the SILEO Open Calls for Advanced Technology Uptake Projects

The SILEO Open Calls for Advanced Technology Uptake Projects have demonstrated a strong and measurable impact in supporting the digital and green transformation of European SMEs in the lighting and furniture sectors. Through two competitive calls and a total funding allocation of € 679.050,00 SILEO project supported 65 SMEs across 11 EU and associated countries, helping them to prototype, pilot and adopt advanced technological solutions in partnership with expert facilitators. The results indicate a substantial transformation in several key areas:

- 1. Strong demand and pan-European participation: A total of 109 eligible applications were received across the two calls, indicating high interest and relevance of the scheme. The selected SMEs represented a geographically diverse profile, including countries outside the partner consortium, thus fulfilling the Euroclusters' requirement of broader EU engagement and regional spill-over. The expansion and activation of the SILEO Pool of Technology Uptake Facilitators with 80 and 106 validated organizations respectively across the two calls created an enduring pan-European ecosystem of trusted experts. These collaborations fostered new B2B relationships, know-how transfer, and post-project continuity.
- 2. Adoption of strategic technologies and solutions: Projects funded under SILEO Advanced Technology Uptake Calls covered a wide range of technologies aligned with EU priorities, such as AI-powered chatbots, IoT, cybersecurity, robotics, additive manufacturing, and immersive tech (VR/AR). These technologies played a pivotal role in modernizing production processes, enhancing customer experiences, and supporting circular business models.
- **3.** Waste reduction and environmental sustainability: Adoption of optimization tools led to average raw material waste reduction. Additionally, digital-first approaches minimized the use of physical resources and allowed more efficient product development cycles.
- **4. Acceleration of innovation and market readiness:** By combining prototyping and pilot activities, SILEO enabled SMEs to reduce the time-to-market of new products and services, test digital solutions within real operational environments, and de-risk investment in innovation.
- 5. Contribution to EU Recovery and Transition Goals: The supported projects directly contributed to the European Commission's objectives of resilience-building, twin transition (green and digital), and SME competitiveness. The outcomes of the SILEO scheme illustrate the practical and scalable role that Euroclusters can play in bridging innovation gaps for traditional manufacturing sectors.

In conclusion, the high relevance and technical merit of the submitted proposals prompted the SILEO Consortium to act with flexibility, reallocating available resources to support the maximum number of high-quality SME projects within the budgetary limits. The Advanced Technology Uptake Projects have effectively translated innovation ambitions into operational outcomes at SME level, triggering measurable advances in digitalisation, sustainability, and competitiveness. Beyond individual success stories, SILEO has established a replicable model of cascade funding, cross-border technology matchmaking, and rapid experimentation that demonstrates the added value of Eurocluster-based interventions and can serve as a blueprint for future EU-funded industrial and innovation programmes.







#### SMES AWARDED UNDER THE SILEO 1° OPEN CALL FOR ADVANCED TECHNOLOGY UPTAKE PROJECTS:











### SMES AWARDED UNDER THE SILEO 2° OPEN CALL FOR ADVANCED TECHNOLOGY UPTAKE PROJECTS:

















