

**AMIRES offer**  
**Technical Assistance and Project Management Services**  
**for the Coordination and Operation of the PIXEurope Pilot Line**  
**at ICFO**

Proposer: AMIRES s.r.o.  
Na Okraji 335/42  
162 00 Praha 6  
VAT: CZ24173720  
Represented by: Ing. Rudolf Fryček, Ph.D.  
CEO  
Contact person: Lenka Bajarová  
[bajarova@amires.eu](mailto:bajarova@amires.eu)

Prepared in Prague, 3/9/2025

## 1. Objective

This offer has been prepared in **reaction to a tender published under expedient number 2025.SE.001 by ICFO looking for a “Technical Assistance and Project Management Services for the Coordination and Operation of the PIXEurope Pilot Line at ICFO”**. This offer summarizes the availability and willingness of the AMIRES company to provide support to ICFO in:

- Administrative management, and quality assurance of the project execution (Project management, Quality assurance and Risk management).
- Provision of expert services related to dissemination, communication, and networking activities, events organization and Pilot Line promotion, including website, promotional materials and social media (Dissemination, Communication and Networking activities).
- Assistance in Open Access and Gateway of the Pilot Line supporting ICFO and other Research and Technology Organization (RTOs) in the management flows of the single-entry point (SEP).

**Guided by the motto “Experienced professionals provide support in strategically oriented innovations for business impact,” AMIRES offers an integrated set of services tailored to the full lifecycle of European R&D&I projects.** This includes the initiation, planning, and submission of proposals under H2020 and Horizon Europe, as well as their **seamless execution and long-term management**. Beyond traditional project coordination, AMIRES brings deep expertise in the **development and operation of pilot lines, including open-access infrastructures and Single Entry Point models**. The company also supports the **deployment of digital platforms such as Ecosystem Management Platform (EMP) for ecosystem coordination, data governance, and user access**. **AMIRES combines technical excellence with strategic insight to ensure impactful outcomes aligned with European innovation priorities.**

This offer **outlines AMIRES’ extensive experience in consultancy and details the proposed services**, which include project management, quality assurance, risk and resource management, dissemination, communication, networking, data governance, training, IP strategy, and exploitation planning, all supported by the **company’s proven qualifications and accompanied by the financial quotation**.

## 2. AMIRES in nutshell

**AMIRES s.r.o, founded in 2011 in the Czech Republic, is a consulting company specializing in research, development, and innovation projects**, with strong ties to **AMIRES S.a.r.l.**, established in 2009 in Switzerland and to **AMIRES, The Business Innovation Management Institute, z.u.** (founded in 2020), which supports strategic development and knowledge sharing across the AMIRES ecosystem. **All AMIRES entities operate as an integrated group, working in close coordination and sharing not only personnel but also infrastructure, methodologies, and strategic goals. Their collaboration is deeply embedded in all activities** – from project design and proposal preparation to implementation and long-term innovation support. This interconnected structure ensures a seamless flow of expertise, best practices, and insights across borders and disciplines, enabling AMIRES to deliver consistently high-quality services and to respond dynamically to the evolving needs of clients and partners throughout Europe and beyond.

Since its foundation, AMIRES has built extensive expertise in project preparation, management, consultancy, and strategic innovation support. The company's mission

is to turn invention into innovation, supporting projects that deliver business and societal impact across Europe and beyond.

AMIRES provides comprehensive services including **strategic partnering** through a network of over 800 contacts, **innovation opportunity analysis** aligned with client profiles, **technology assessment** using a proprietary SME-focused methodology, **full proposal preparation** from initiation to negotiation and **complete project management** throughout the lifecycle. Additionally, AMIRES offers **specialized Intellectual Property services** such as assisted IP search, patentability and freedom-to-operate analysis, IP strategy workshops, and trademark registration.

With a **success rate exceeding 50% in Horizon 2020 and Horizon Europe** (compared to the EU average of 10–15%), AMIRES has **managed projects with a cumulative budget of over 800 million euros, involving more than 700 project partners**. The company's strategic focus includes **Deep Tech** (covering advanced manufacturing, AI, flexible electronics, photonics, quantum technologies, and 2D materials), **Health & BioTech** (covering biomaterials, biosensors, eHealth, medical technologies, personalized and regenerative medicine), and **Energy & Sustainability** (addressing circular economy, energy management and storage, renewable energy and fuels, sustainable materials, and water treatment).

**From its start, AMIRES has been a key driver of innovation in photonics and pilot line development since its foundation, actively contributing to numerous high-impact European projects.** Among its flagship initiatives are **PI-SCALE**, which established a flexible OLED pilot line, and **InPulse**, a pilot line for Indium-Phosphide Photonic Integrated Circuits (PICs), both designed to bridge the gap between research and industrial application. **MedPhab**, the first European pilot line for photonics-based medical devices, showcases AMIRES' commitment to advancing healthcare technologies. Projects like **PHABULOUS** and **INSPIRE** highlight leadership in microoptics and hybrid photonic integration, enabling scalable manufacturing of optical components and combining InP and SiN photonics through wafer-scale micro-transfer printing. AMIRES has also supported flexible electronics and printed technologies through **SmartEEs2** and **InSCOPE**, which provided open-access pilot lines for SMEs and innovators. Another strategic initiative supported by AMIRES is **Qu-Pilot**, the first European pilot line for quantum technologies, offering experimental production capabilities across multiple quantum platforms. It supports SMEs and startups through open-access services, accelerating innovation in quantum computing, communication, and sensing. Cutting-edge projects such as **Next-2Digits** and **MatEI** explore hybrid optoelectronic integration using 2D materials and graphene-based photodetectors, while **HyperImage** develops a universal spectral imaging platform for industrial and agricultural applications. **NanoQI** and **POSEIDON** pushed the boundaries of nano-material characterization and on-chip photonic device assembly, contributing to the future of miniaturized and high-performance systems. In addition, AMIRES has been involved in projects like **RoLA-FLEX** and **ECOTRON**, which address sustainability and performance challenges in flexible electronics, and **LASER-PRO**, which strengthens regional photonics ecosystems through collaboration with academic and industrial partners. Additionally, AMIRES has developed and supports **SNS JU funded project, X-TREME 6G's** project which relies on a unique industry led consortium to provide a foundational open microelectronics platform in Europe with the objective to create and design key disruptive next generation chiplets and chipsets for 6G use cases. **These projects collectively reflect AMIRES' strategic focus on enabling innovation in the strategic domains of semiconductors and photonics,**

supporting SMEs, and building competitive European value chains across sectors such as healthcare, energy, manufacturing, and digital technologies.

The company also accelerates startups through **investments in KETMarket, betthera, SusDAT, and MagnetFab companies**, helping innovators navigate regulatory affairs, data systems, and advanced manufacturing. **AMIRES continues to be a trusted partner in transforming innovation into impactful solutions.**

Further references are also available on: <https://www.amires.eu/testimonials/>.

### 3. Services offered

Following the tender specifications, AMIRES is proposing following methodology to assist ICFO in the following services:

#### External Advisory Board coordination

AMIRES proposes to establish and coordinate an **External Advisory Board (EAB)** composed of **leading experts** from the scientific, industrial, and technological communities with recognised expertise in **PIC technologies and applications**. The EAB will provide independent guidance, strategic advice, and validation of project progress throughout the project's lifetime.

Specifically, the EAB will be coordinated in order to:

- Support the Steering Committee (SC) during the **technical specification phase** at the start of the Pilot Line.
- **Validate results** and confirm the continuity of high-quality objectives prior to the mid-term review.
- Advise on **result exploitation** and the transition towards innovative products and new market opportunities.
- **Assess project progress and ecosystem impact**, while providing input for long-term strategic planning.

To guarantee efficient operation of the EAB, AMIRES proposes to:

- **Assist the Steering Committee in selecting high-level representatives** from end-users, industry, and research and technology organisations (RTOs) to ensure a balanced mix of perspectives from designers, suppliers, manufacturers, and vertical integrators.
- **Organise and coordinate annual EAB meetings**, either virtually (via professional videoconferencing tools) or in person alongside consortium meetings.
- **Provide full logistical and administrative support**, including invitations, agenda preparation, documentation, and follow-up.
- **Facilitate structured discussions**, ensuring that the EAB's recommendations are systematically captured, disseminated within the consortium, and integrated into the project's activities.

Through these activities, AMIRES will ensure that the EAB delivers **continuous, independent, and high-level guidance**, thereby reinforcing the project's quality assurance, innovation potential, and exploitation strategy.

#### Project management, Quality assurance and Risk management

AMIRES proposes to support ICFO in establishing and executing robust project management procedures that facilitate **effective and efficient implementation and reporting**, while ensuring full compliance with the contractual framework and recognised best practices. The management approach will be detailed in a **Project**

**Management Handbook** Deliverable, which will include the operational procedures, appointments of managerial bodies, and committee structures.

AMIRES will support the implementation of ICFO's management structure, which addresses four main areas of activities:

- **Technical and development activities in related technical WPs** – under the supervision of the SC.
- **Operational activities** (procurement, installation of equipment) and **Open Access** – coordinated by the **Management and Coordination Team (MCT)**.
- **Strategic activities** (dissemination, communication, exploitation) – overseen by the MCT, assisted by the **General Assembly (GA)**.
- **Overall project management (WP1)** – led by the MCT.

This structure ensures balanced representation and timely decision-making across operational, strategic, and technical dimensions.

More specifically, AMIRES's support will focus on four main areas, as required:

1. **Technical project follow-up and quality assurance**
2. **Exploitation and innovation management**
3. **Risk contingency management**
4. **Resources management**

---

## **Ad 1.) Technical Project Follow-up and Quality Assurance**

The project will be managed and directed in line with the work plan authorised by the EC. AMIRES, in collaboration with ICFO, will ensure that all requirements concerning reporting and information flow are met.

Technical activities within each Work Package (WPs) will be under the responsibility of the **Work Package Leaders (WPLs)**.

AMIRES proposes to:

- Assist the **Steering Committee (SC)** (composed of all WPLs) in coordinating quality assurance activities.
- Support the **monitoring of WP progress**, ensuring that milestones and deliverables are achieved to the agreed quality.
- Facilitate **monthly PSC meetings** to ensure continuous project monitoring and conformity with requirements.
- In cases of unforeseen technological changes, assist the SC in investigating the issue and recommending corrective actions, which will be implemented by the WPLs.

Quality assurance will follow a structured internal review process, whereby technical, operational, and strategic deliverables are reviewed sequentially by WPLs, the Pilot Line Manager, the Exploitation and Innovation Manager, the Pilot Line Coordinator, and the SC before submission to the Chips JU/EC.

---

## **Ad 2.) Exploitation and Innovation Management**

AMIRES will support the definition and monitoring of **Key Performance Indicators (KPIs)**, elaborated in the first six months and reviewed every six months thereafter. This process will ensure that project progress remains on track and that innovations are effectively linked to an **optimum exploitation trajectory**.

AMIRES will:

- Assist in collecting and evaluating inputs from use cases to assess the market readiness of solutions and technologies.
- Facilitate KPI monitoring in collaboration with the Management and Coordination Team (MCT), ensuring that the generated know-how is translated into sustainable services and exploitation opportunities.
- Provide input to performance evaluation summaries, which will inform remedial actions if necessary.

---

### Ad 3.) Risk Contingency Management

AMIRES proposes to apply a structured **four-step methodology** for risk management:

1. **Risk identification** – potential risks will be continuously screened across technical, operational, and strategic areas.
2. **Risk evaluation** – each risk will be assessed in terms of probability and impact.
3. **Risk response** – mitigation and corrective measures will be proposed, prioritised, and implemented.
4. **Risk control and reporting** – outcomes and lessons learned will be documented and included in the periodic activity and management reports.

### Critical Risks and Risk Management Strategy

AMIRES recognises that one of the primary challenges in large-scale initiatives of this kind lies in the **coordination of a diverse range of partners**. While each brings distinct expertise, robust collaboration and interoperability are critical to the timely and cost-effective delivery of services. Without a proactive strategy, risks such as delays, supply chain disruption, or reduced quality of outputs could jeopardise the project's success.

To mitigate these challenges, AMIRES proposes to:

- Support the development of a **well-structured operational model** centred around the **Pilot Line Gateway**, a core component for managing communication flows and process efficiencies.
- Ensure that the Gateway team (covering technical, business, project management, and administrative expertise) continuously monitors performance, addresses bottlenecks, and streamlines processes.
- Enable **continuous monitoring and strategic interventions** through a dedicated digital platform, ensuring early detection of risks and swift implementation of corrective measures.

AMIRES will also assist ICFO in maintaining a **comprehensive risk register**, identifying the main risks, their potential impact, mitigation measures, and likelihood of occurrence. This structured approach will enhance the project's resilience, ensure operational continuity, and maximise the impact of PIXEurope.

---

### Ad 4.) Resources Management

AMIRES will support ICFO in the **financial and resource management** of the project. ICFO, as Coordinator, will distribute financial support among partners in line with the Hosting Agreement, while each partner remains responsible for its own resources.

AMIRES's role will include:

- Monitoring and reporting of operational costs and compliance with expected specifications and best practices.
- Tracking project execution time against milestones and actual efforts.

- Producing **bi-annual internal reports** comparing planned vs. actual results, costs, and efforts per WP and partner. These will form the basis for the periodic reports submitted to the EC.

This framework will prevent incorrect, inappropriate, or unauthorised changes and ensure transparent, efficient use of resources.

---

## **Summary**

By implementing this structured management and risk strategy, AMIRES will ensure:

- Effective coordination of technical, operational, and strategic activities.
- Continuous quality assurance and proactive risk monitoring.
- Efficient resource allocation and transparent financial management.
- Measurable progress towards exploitation and long-term sustainability of the Pilot Line.
- Strengthened resilience of the European PIC manufacturing ecosystem through early risk detection and robust mitigation.

## **Data Management Plan and Digital Platform**

AMIRES proposes to assist ICFO in developing the procedure and digital platform, that is software and interfaces for the data management plan for HE, DEP as well as JP agreements by:

- 1. establishing a comprehensive Data Management Plan (DMP)**
- 2. establishing platform and monitoring**
- 3. developing archiving strategy**
- 4. implementing FAIR data principles in line with HE, DEP and JP requirements**

### **Ad 1.) DMP**

DMP for PIXEurope will be aligned with Horizon Europe, DEP and JP requirements, and fully adhering to the FAIR principles (Findable, Accessible, Interoperable, and Re-usable). A **first version of the DMP** will be delivered during the initial months of the project, and will be continuously updated throughout its lifetime to reflect new data streams, updated requirements, and evolving exploitation opportunities.

The DMP will cover both **data collected and reused** (e.g., specifications sheets, internal research data from partners required for IPR or cost-benefit analyses, use case data for performance or LCA studies) and **data generated** in the project (e.g., experimental data from material testing, technology development, process flows, pilot line operation metrics, and supply chain performance data).

### **Ad 2.) Platform and monitoring**

To ensure effective implementation, AMIRES will **assist ICFO in developing the digital platform and interfaces** for data management. This platform will:

- Record and manage information related to end-user projects, process flows, design kits, equipment installation, supply chain performance, costs, and revenues.
- Provide role-based access to ensure that confidential data is securely shared only among authorised partners.
- Integrate monitoring dashboards to continuously track compliance with the DMP and ensure timely updates.

**The platform proposed is based on ownCloud: an open-source software project and online service that provides users with a platform for secure file storage, sharing, and content collaboration**, similar to services like Google Drive or Dropbox. Its key

differentiator is that it allows individuals and enterprises to host their data on their own servers, or on a trusted service provider's infrastructure, thus maintaining digital sovereignty and control over their data.

### **Ad 3.) Archiving and Access strategy**

AMIRES will ensure PIXEurope adheres to inclusivity, transparency, and non-discrimination principles to ensure broad access. Facilities, resources, and expertise will be available to a diverse range of users, including academia, industry, and research institutions, with clear and detailed information on criteria, processes, and terms for access. Access will be granted non-discriminately, avoiding preferential treatment based on geographic location or affiliation. To manage excessive demand, clear criteria and mechanisms will be established to ensure fairness and equal opportunity. Lastly, access to virtual assets, including Process Design Kits (PDKs) and Assembly Design Kits (ADKs), will be provided with a high degree of openness and clear usage terms, ensuring broad accessibility and usability.

All data collected and generated within PIXEurope will be archived following a clear strategy:

- **Confidential data** (e.g., specifications, sensitive process parameters, partner-internal research, commercial information, IPR-related analyses) will be stored on internal data servers of the respective partners, in line with their internal security and IP protection procedures. This data will not be shared publicly.
- **Non-confidential data** (e.g., anonymised experimental results, benchmarking data, selected supply chain performance metrics) will be deposited in **trusted open-access repositories**, primarily Zenodo, ensuring persistence and long-term availability. Each dataset will be assigned a **persistent identifier (DOI)** and described with **rich metadata** (author, title, publication venue, grant details, abstract, licensing terms).
- **Metadata** of all open data will be made publicly accessible under CC0 licence, ensuring discoverability through Zenodo and OpenAIRE indexing.
- **Duration of storage:** data in internal repositories (OwnCloud or equivalent) will be preserved for 5 years beyond project completion, while data deposited in Zenodo or similar repository will be maintained for the lifetime of the repository.

### **Access restrictions**

Any restrictions on data access will be clearly justified in line with the project's goals, IP protection needs, or commercial sensitivity. For example, data that could lead to patentable results will only be shared publicly once the relevant protections are in place.

### **Governance and responsibility**

Each partner will appoint a **data management officer** responsible for local compliance, while central coordination will be overseen by the **Project Coordinator and Project Manager**. The External Advisory Board (EAB) will be engaged to validate the effectiveness of the DMP strategy, particularly in relation to end-user data and exploitation potential.

### **Ad 4.) Implementing FAIR data principles**

**AMIRES proposes to manage the data in line with the following principles, in line with the HE, DEP and JP requirements:**

**Making data findable:** The assignment and management of persistent identifiers (PIDs), globally unique and long-lasting references to digital and non-digital objects, to the data, will be assessed in the first year of the project, starting with an evaluation

of available PID services (either managed by the European Commission or third party organisations).

**Making data accessible:** ensuring the consortium is making research data openly available, whenever possible to achieve the project's main objectives, allow dissemination, validation and reuse of research results. Research data needed to validate the results in the scientific publications will be deposited in a data repository at the same time as a publication. Non-public research data will be archived at the repository using a restricted access option. PIXEurope will further increase data accessibility by collaborating with Governmental (Member States) and European organizations.

**Making data interoperable:** All data sets will be described using standard descriptive metadata, such as Dublin Core and DataCite Metadata Schema, to ensure metadata interoperability for indexing and discoverability. All relevant documentation will be made available along with the data to guarantee intelligibility and reproducibility and validate the project findings. Partners will convert all shareable data from proprietary formats to allow data exchange and reuse among researchers, institutions, organisations, countries, etc. They will make them available in well-known and documented, possibly open, formats, as much as possible compliant with available (open) software applications.

**Increase data reuse:** PIXEurope will distribute the shareable data by adopting licenses that allow other scholars and stakeholders to reuse the data and their sets in their entirety. Unless otherwise stated, the data sets are made available under Creative Commons (CC) BY 4.0 or CC0. In general, data are made openly available as underlying data necessary to validate the research results immediately after public reports and scientific papers are published. Data are given full citations from official publications and websites and made available through institutional or public data repositories compliant with OpenAIRE requirements.

**Data storage, protection, and curation:** Making data FAIR requires an investment of money and researchers' time. In PIXEurope, the cost of data preservation after the project's end is null because the chosen repositories do not charge fees for archiving and data curation. During the Pilot Line existence, cloud storage, Teams and SharePoint, will be adopted to share data among partners. The cost to activate and maintain it for the duration of the project will be covered by the project budget.

**Data privacy:** Data subjects' privacy will be secured by fully complying with the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council). The project consortium has appropriate technical and organisational measures in place to protect data during the project. Existing or potential IPR will also govern accessibility to data. If, after project closure, permission to reuse the data is required, it will be granted, providing there are no IPR or confidentiality issues involved or any direct overlap of research questions with the primary research. If reuse requires permission, it will be provided by contacting the Coordinator. The Pilot Line consortium will decide on a justification for a possible case-specific embargo for published data. An embargo will be sought primarily concerning any potential commercial exploitation or patent application based on project results.

## External Training Activities

AMIRES proposes to assist and advise ICFO in the development, organisation, and implementation of **comprehensive training courses on PIC manufacturing**, capitalising on the specialised knowledge and expertise gained through the set-up and operation

of the PIXEurope Pilot Line. These courses will ensure that the advanced capabilities of the Pilot Line are effectively transferred to internal partners, European SMEs, start-ups, and industrial end-users, thereby supporting Europe's long-term competitiveness in integrated photonics.

## **Training scope and content**

AMIRES will support the development of training courses that cover the **full spectrum of Pilot Line activities**, including:

- PIC design, simulation and use of PDKs, ADKs, and TDKs;
- Fabrication processes and cleanroom protocols;
- Packaging and assembly methods;
- Testing, validation, and reliability assessment;
- Equipment operation, particularly for the transition from early-stage process development to scalable manufacturing.

These courses will combine **online and hands-on formats**, enabling broad outreach while ensuring in-depth, practical experience at partner sites.

## **Internal and external training**

- **Internal training courses** will be developed for PIXEurope partners, with a particular focus on new hires. This will ensure that all partners are fully competent across Pilot Line technologies, beyond their immediate areas of expertise, and create a more coherent and integrated consortium.
- **External training courses** will be designed for industrial users, particularly **SMEs and start-ups**, as well as engineers and company managers. The aim is to strengthen their knowledge of advanced PIC manufacturing processes, accelerate adoption of PIXEurope's standardised technologies, and encourage sustainable European-based manufacturing routes.

All courses will be designed and delivered in close collaboration with the **European Competence Centres**, ensuring alignment with broader European photonics training initiatives.

## **Formats and delivery**

AMIRES will assist ICFO in establishing a **structured training programme**, comprising:

- **online courses** (open to all registered users);
- **hands-on courses** at partner sites, each lasting 3–4 days, where participants will gain direct experience with advanced equipment and processes;
- specialised one-to-one or small-group sessions for highly targeted skill-building.

The courses will follow a **hybrid model**, where participants can engage first through online modules and then progress to hands-on training. A key success metric will be the transition rate of participants from online to in-person courses, demonstrating strong commitment and long-term engagement with the Pilot Line.

## **Organisation and management**

AMIRES, leveraging experience from **PhotonHub Europe and a number of Pilot Lines and similar flagship initiatives**, will take responsibility for:

- Coordinating with ICFO and the Pilot Line Gateway to manage scheduling, logistics, and partner-site training;
- Promoting training opportunities, handling registrations, and maintaining visibility of courses as **open-access services via the digital platform**;
- Monitoring attendance, impact, and participant feedback to continually refine the programme.

## Dissemination, Communication and Networking Activities

AMIRES proposes a comprehensive dissemination and communication strategy to ensure that the results of the PIXEurope project are widely disseminated to the European research and industrial community, while also reaching all relevant stakeholders and maintaining continuous interaction with the general public, policymakers, industries, end-users, and the scientific and technical community.

At project start, AMIRES will assist the consortium in preparing a living **Dissemination and Communication Strategy Document**, which will be periodically updated throughout the project. This document will define the objectives, audiences, communication channels, and monitoring measures to maximise outreach and impact.

### Dissemination activities

AMIRES will support the consortium in implementing a structured set of dissemination measures, including:

- **Project Website:** development and continuous update of a comprehensive, user-friendly website that provides access to results, public deliverables, project news, and multimedia content.
- **Promotional Materials:** design and distribution of high-quality brochures, roll-ups, leaflets, newsletters, and other branded assets for use at conferences, exhibitions, and stakeholder events.
- **Social Media Campaigns:** implementation of a professional social media strategy (LinkedIn, X/Twitter, YouTube) to communicate project progress, key results, and success stories to a broad audience.
- **Scientific and Industrial Publications:** support in preparing high-impact publications in peer-reviewed journals, industrial magazines, and conference proceedings, with strict compliance to EC/Chips JU dissemination rules and approval procedures.
- **Clustering and Networking:** active engagement with other Chips JU initiatives, European Pilot Lines, Digital Innovation Hubs, and standardisation bodies to ensure knowledge transfer and strengthen the European photonics ecosystem.
- **Stakeholder-tailored Dissemination:** targeted engagement activities such as training workshops, Open House events, demonstrator showcases, and participation at leading trade fairs and conferences (Photonics West, ECOC, Medica, Electronica, ISSCC, etc.).

To prevent interference with exploitation activities, strict internal review procedures for dissemination will be applied. All peer-reviewed publications and research data will follow an open-access policy in line with EC requirements.

### Communication activities

AMIRES will implement a two-way communication approach to ensure that PIXEurope not only informs but also engages with its audiences. Communication will focus on conveying the project's overarching vision:

**“PIXEurope will develop a European Photonic Pilot Line to provide all European citizens with the socioeconomic benefits of advanced photonics technologies, strengthening innovation capacity and supply security in Europe.”**

To deliver this message effectively, AMIRES will deploy the following channels:

- **Project Webpage:** an interactive online platform, including news updates, FAQs, videos, newsletters, and visual storytelling.

- **Social Media & Digital Outreach:** a coherent online presence supported by professional content production (short videos, interviews, blog posts, interactive posts).
- **Communication Kit:** development of a strong project identity (logo, templates, post designs, press release text packages) for consistent outreach.
- **Press Engagement:** preparation and circulation of press releases to international and national media outlets.
- **Event Participation:** proactive organisation and participation in workshops, symposia, and open community-building events, with a focus on feedback collection and two-way interaction.

All communication activities will be tracked against **predefined KPIs** (website visits, social media followers, distribution of materials, number of publications, video views, workshops delivered, stakeholder participation). Monitoring and feedback loops will allow continuous refinement of the strategy to ensure maximum impact.

### Implementation plan

AMIRES proposes a phased implementation strategy:

1. **Initial Awareness Phase (M0–24):** preparation of the dissemination and communication plan, visual identity creation, website launch, initial database building, and stakeholder network consolidation.
2. **Targeted Dissemination Phase (M25–42):** enriched communication campaigns, updated website content, first press release, conference and workshop participation, interim impact assessment, and fine-tuning of key messages.
3. **Results Presentation Phase (M43–60):** intensive outreach activities showcasing the Pilot Line achievements, exploitation opportunities, and European impact; final dissemination event; consideration of engaging a professional communications agency for maximum visibility.

### **Role of ICFO and Contractor**

ICFO will lead dissemination and communication activities, supported by AMIRES, who will ensure professional execution, coordination, and compliance with the EC/Chips JU rules. AMIRES will also ensure alignment of PIXEurope's communication with other Pilot Lines, Competence Centres, and EU-level initiatives, leveraging synergies to amplify outreach.

### **Intellectual Property (IP) management**

AMIRES proposes to provide comprehensive support to the consortium in monitoring, analysing, and managing Intellectual Property (IP) throughout the duration of the Pilot Line project.

Specifically, AMIRES will:

- **Monitor IP developments** by conducting regular reviews of relevant patent landscapes (recent applications, granted patents) across all technology areas, based on the inputs provided by Partners.
- **Provide structured reports** on both external developments (potential risks or blocking patents) and internal results (inventions and IP generated within the consortium).
- **Advise partners** on IP strategy, including implications of the Chips JU framework, freedom-to-operate assessments, and optimal protection routes.
- **Maintain an IP inventory** that consolidates state-of-the-art research, consortium inventions, and patent applications linked to the project.

- **Support exploitation planning** by ensuring that IP protection and ownership principles are correctly applied, following EU IPR conditions, semiconductor industry practices, and the Consortium Agreement.

In addition, AMIRES will coordinate and support the implementation of IP landscaping studies, Freedom-to-Operate analyses, and the preparation of patent applications where appropriate. All activities will be fully aligned with the open access service model of PIXEurope, ensuring a clear distinction between foundry IP and designer IP, and enabling end-users to confidently adopt Pilot Line technologies.

Through this approach, AMIRES will deliver regular IP reviews, actionable strategic advice, and practical support for IP protection, thereby safeguarding the consortium's innovation capacity and ensuring the successful exploitation of results.

## Exploitation Strategy and Innovation Roadmap

AMIRES proposes to advise and support the consortium in defining, analysing, and implementing the exploitation and commercialisation strategy of the Pilot Line.

In particular, AMIRES will:

- **Identify outcomes and exploitable results** of the project, ensuring clarity on ownership and IP rights.
- **Analyse market potential**, including customer and competitor mapping, market barriers, and opportunities across the full value chain.
- **Define Unique Selling Points (USPs)** for Pilot Line services and technologies, aligned with the needs of European industry and global competitiveness.
- **Develop business cases** to demonstrate the value of Pilot Line outputs for different end-user groups, including SMEs, start-ups, and large enterprises.
- **Prepare a commercialisation roadmap** beyond the project lifetime, including recommendations for sustainable business models and integration with the broader European photonics ecosystem.

AMIRES will collect inputs from all consortium partners and ensure alignment with both research and industrial priorities. Particular attention will be paid to:

- Supporting Pilot Line services that directly benefit designers, suppliers, manufacturers, and vertical integrators, enabling them to grow and capture market opportunities.
- Facilitating **technology transfer and IP exploitation**, strengthening European manufacturing capacity, and fostering collaboration between industry and RTOs.
- Advising on opportunities for **spin-offs and start-ups**, leveraging project-generated IP and know-how as the basis for new ventures that may themselves become Pilot Line users.

AMIRES will also deliver **periodic exploitation reviews**, ensuring that strategies remain current with evolving market conditions, customer needs, and competitor activities. These will provide a structured framework for maximising project impact and securing the long-term sustainability of the Pilot Line.

Through this approach, AMIRES ensures that the exploitation and commercialisation activities of PIXEurope are professional, market-driven, and directly supportive of Europe's strategic objectives in photonics manufacturing.

## Collaborations

AMIRES proposes to advise and support ICFO and all project partners in building strong collaborations that reinforce PIXEurope's role within the European photonics and

semiconductor ecosystem. The objective is to ensure that the Pilot Line is fully embedded in Europe's innovation landscape, creating synergies with complementary initiatives at both European and national levels.

In PIXEurope, a **dedicated task** will be implemented to strengthen collaborations with the existing Chips JU Pilot Lines (CPL1–4) and with other large-scale European and national semiconductor initiatives such as the new European Design Platform and European Competence Centres. AMIRES will provide active support in planning, coordinating, and monitoring these collaborations to ensure effective outcomes.

In particular, AMIRES will:

- **Support engagement with the existing Pilot Lines (CPL1–4):** leverage the involvement of PIXEurope partners already active in CPL-1 NanoIC (IMEC, TNI, VTT), CPL-2 FAMES (CEA-LETI, TNI, VTT), CPL-3 Heterogeneous Integration Systems (CSIC), and CPL-4 WBG (FBK, SAL, VTT). The strong existing links, will be used to identify and drive joint activities such as training, workshops, and the development of common standards.
- **Support collaboration with the European Design Platform:** support the development and rollout of standardised Design Kits (PDKs, ADKs, TDKs), ensuring PIXEurope's integration into the European design ecosystem.
- **Work closely with European Competence Centres:** co-develop and disseminate online and hands-on training courses, with particular attention to addressing gaps identified by end-users and Competence Centres.
- **Foster partnerships with large-scale initiatives** such as PhotonHub Europe, Europractice, JePPIX, and ePIXfab, leveraging the consortium's strong representation within these networks to accelerate joint opportunities.
- **Support national-level collaborations**, including with regional funding agencies, to facilitate access for local companies and researchers to Pilot Line services.

By building on already established relationships and partner involvement in the existing Pilot Lines, AMIRES will ensure that PIXEurope benefits from strong synergies, avoids duplication, and maximises its visibility and positioning in the European innovation ecosystem. This coordinated collaboration approach will contribute to long-term sustainability and reinforce Europe's global leadership ambitions under the Chips Act.

## Pilot Line Operations, Interoperability and Cost Models

AMIRES will advise and support ICFO and all partners in the establishment and optimisation of the distributed Pilot Line operations, ensuring seamless interoperability across the complete supply chain. This work will be implemented in close coordination with ICFO, and other Partners, drawing on the consortium's contractor's collective experience from prior Pilot Lines (PIXAPP, JePPIX, MedPhab, PhotonHub, Phabulous and others) and ongoing Chips JU activities.

### Pilot Line Gateway

AMIRES proposes to support ICFO in establishing and operating a centralised Pilot Line Gateway at ICFO's facilities in Barcelona. The Gateway will serve as the Single Entry Point for all end-users, ensuring smooth engagement with the distributed Pilot Line. AMIRES will assist in defining, documenting, and optimising operational workflows, and in embedding Customer Relationship Management (CRM) and performance-monitoring systems fully integrated with the Digital Platform.

Specifically, AMIRES will:

- Assist ICFO in staffing the Gateway with technical, project management, and administrative expertise to ensure efficient processing of user requests, scheduling, invoicing, and communication.
- Support the coordination with Service Managers to be appointed by WP leaders, ensuring seamless interoperability across the supply chain.
- Ensure that all operational procedures are fully defined and established by due date defined by ICFO.

## **Demonstrator-Based Optimisation**

AMIRES will provide methodological and operational support to WP10 in leveraging demonstrators developed in WP9 to evaluate and optimise Pilot Line efficiency. These demonstrators will be used as benchmarks to refine workflows and processes. AMIRES will help document, assess, and implement improvements, enabling a seamless transition from the Development Phase to a sustainable Operation Phase beyond the grant period.

## **Open Access**

### **Digital Platform Development and Operation**

AMIRES will actively support ICFO in the development, operation, and maintenance of a robust digital platform for data management. This includes:

- **Software and Interfaces:** Set up of interoperable software tools and user interfaces to support data collection, archiving, and sharing across HE, DEP, and JP agreements.
- **Interoperability:** Ensuring seamless integration and data exchange between platforms hosted by different partners.
- **Functionality Coverage:** The platform will support recording and management of:
  - End-user projects and interactions
  - Process flows and design kits (PDKs, ADKs)
  - Equipment installation, availability, and usage
  - Supply chain data and performance metrics
  - Cost and performance analytics
  - Operational expenses and income tracking

---

### **Open Access Strategy and Key Results Dissemination**

AMIRES will contribute to the preparation and dissemination of key project results on an Open Access basis. These results will include:

- **Pilot Line Design Kits:** Including chip, package, and test design kits.
- **Open Innovation Resources:** Tools and data supporting process development.
- **Equipment Access:** Information and interfaces for accessing process, test, and metrology equipment.
- **Analytical Models:** Technology, process, test data analytics, and cost model analytics (in collaboration with TNO).
- **Training Materials:** Courses and educational content developed within the project.

AMIRES will support ICFO and the consortium in making all resources available through the digital platform and/or selected repositories, with clear usage terms and broad accessibility to academia, industry, and research institutions. AMIRES will ensure inclusivity, transparency, and non-discrimination in access policies, and will implement mechanisms to manage demand fairly.

## Methodology proposed for the relationship with ICFO and for the relationship with the rest of the project members

AMIRES proposes to build on the well-defined PIXEurope management structure to ensure **efficient collaboration, transparent communication, and smooth coordination** with ICFO and all project partners. Our methodology is based on clearly assigned responsibilities, streamlined decision-making mechanisms, and proactive conflict-resolution procedures.

### Relationship with ICFO (Coordinator):

- ICFO, as Pilot Line Coordinator, will serve as the central point of contact for strategic and operational matters. AMIRES will work in **close alignment with ICFO's coordination team** (Coordinator, Administrative Executive, Project Manager, and Technology & Operation Manager) to ensure that strategic decisions are translated into actionable tasks at the operational level.
- AMIRES will contribute actively to the preparation of deliverables, reporting, and administrative tasks, supporting ICFO in meeting deadlines and ensuring compliance with Chips JU requirements.
- To ensure smooth collaboration, AMIRES will maintain **regular communication with ICFO** through bi-weekly teleconference updates and task tracking tool which will be selected and set up in collaboration with ICFO. Escalation channels for any issues that may arise will be maintained.

### Relationship with Consortium Members:

- AMIRES will engage closely with Work Package Leaders (WPLs) and Service Managers appointed at each hosting site, ensuring that technical contributions are aligned, interoperable, and fully integrated into the distributed Pilot Line.
- AMIRES will **participate in and support the Pilot Line Steering Committee (SC)**, where operational and technical progress is monitored. AMIRES will also contribute to the General Assembly (GA) as required, ensuring that our input supports strategic decision-making.
- For day-to-day collaboration, AMIRES will apply **agile project management practices**, including short coordination meetings, shared documentation platforms, and workflow monitoring tools.

### Innovation Management:

- AMIRES will support ICFO and the consortium in establishing a structured process for **monitoring innovation performance**. Key Performance Indicators will be reviewed and analysed at six-month intervals to ensure that Pilot Line processes and technology innovations follow an **optimum exploitation trajectory**.
- Inputs from use cases will be systematically collected and assessed to evaluate the market readiness of Pilot Line solutions and technologies.
- AMIRES will also assist the **Exploitation and Innovation Manager** in ensuring that a robust IP strategy is always in place to protect results and maximise exploitation opportunities for all partners.

### Reporting to Chips JU and the European Commission:

- AMIRES will support ICFO in maintaining a **transparent and cooperative relationship** with the appointed Chips JU/EC Pilot Line Officer(s) and external reviewers.
- AMIRES will contribute to the preparation of high-quality deliverables, reports, and meeting minutes, ensuring they are available in the consortium's secure online archive for review.

- In the event of deviations from the work plan, AMIRES will work with ICFO to prepare proactive notifications and propose contingency measures, ensuring confidence in project execution.

### **Decision-Making and Conflict Resolution:**

- AMIRES will follow the established PIXEurope governance scheme, where decisions are taken at the appropriate level (GA for strategic, SC for executive/technical, MCT for operational).
- AMIRES will support ICFO in **proactively identifying potential risks or conflicts** and help prepare mitigation strategies. If escalation is required, we will contribute constructively to GA or SC deliberations to ensure timely resolution.

### **Communication and Meeting Structure:**

- AMIRES will participate in all scheduled GA, SC, and WPL meetings, providing timely input and ensuring our activities are fully aligned with project objectives.
- To support efficiency, AMIRES will prepare all required documentation ahead of meetings (e.g., progress reports, risk assessments, technical updates) and use collaborative tools (e.g., Teams, shared repositories) to maintain transparency.
- AMIRES will also contribute to dissemination and communication activities led by ICFO, ensuring that outcomes are visible to external stakeholders and aligned with exploitation objectives.

### **Added Value of AMIRES's Approach:**

- By combining strong experience in managing distributed infrastructures with a proactive, collaborative approach, AMIRES will **strengthen the relationship between ICFO and all partners**.
- AMIRES's involvement will ensure that operational processes are not only implemented but also continuously optimised, supporting both the development and long-term sustainability of PIXEurope.
- Through structured innovation management and proactive reporting to Chips JU/EC, AMIRES will help secure the Pilot Line's credibility, transparency, and impact at the European level.

### **Identification of risks or critical points of the service, and measures proposed to resolve these risk situations**

AMIRES will actively support ICFO in monitoring, assessing, and mitigating risks throughout the entire lifecycle of the PIXEurope Pilot Line. Our role is to provide ICFO and the consortium with structured methodologies, proven tools, and expert guidance to ensure that risks are identified early, addressed proactively, and continuously monitored. By embedding risk management into day-to-day operations and governance processes, we will strengthen resilience, safeguard timely delivery, and maximise the impact of the Pilot Line.

### **Risk Monitoring and Governance**

- The **Steering Committee (SC)** will oversee risk management with monthly reviews, supported by structured reporting from all partners. We will provide templates, dashboards, and KPIs to monitor the number of risks materialising, effectiveness of mitigation actions, and impact on milestones, budget, and end-user satisfaction.
- **Structured risk reporting** will be integrated into Periodic Activity and Management Reports, ensuring transparency with Chips JU and the EC.
- **KPIs** will include: number of risks resolved vs. open, budget deviations, milestone delays, and risk impact on end-users.

**Adaptive Risk Management:** AMIRES will introduce feedback loops so that lessons learned from mitigation efforts are applied across the Pilot Line lifecycle (development, operation, sustainability). This adaptive model ensures that risk management evolves as the project scales.

**Contingency Planning:** For high-impact risks, AMIRES will prepare contingency plans, including reserve time, resources, and technical alternatives. This ensures the Pilot Line can continue to operate even under unforeseen circumstances.

**Transparent Communication:** AMIRES will maintain open and transparent communication channels with ICFO, partners, and stakeholders. All significant risks and responses will be communicated promptly, ensuring alignment and collective ownership of solutions.

**Our Commitment:** By applying this structured and proactive methodology, AMIRES will help ensure that risks are not only minimised but also turned into opportunities for improvement. This approach strengthens resilience, maintains service quality, and ensures PIXEurope achieves its strategic objectives without disruption.

Based on our experience with previous Pilot Lines, we foresee the following potential risks that could impact the success of the Pilot Line and propose mitigation strategies as outlined below:

- **Consortium stability:** If a partner leaves, AMIRES will work with ICFO to rapidly redistribute tasks thanks to overlapping expertise and maintain service continuity. AMIRES also proposes to pre-identify potential external partners who could step in if required.
- **Loss of key personnel:** AMIRES will ensure each critical role has a designated deputy and that partners maintain a pool of qualified staff able to assume responsibilities without disruption.
- **Interoperability challenges:** Poor integration between partners could affect the supply chain. To address this, we will leverage our experience with digital platforms (e.g. JePPIX), implement proven CRM tools, and run early alignment workshops to standardise workflows.
- **Capacity limitations:** AMIRES will introduce real-time monitoring to detect bottlenecks early and support load balancing across partner sites during peak demand.
- **Fragmentation of standards:** To reduce delays and complexity, AMIRES will actively contribute to standardisation efforts and promote the adoption of internationally recognised PIC design and packaging standards.
- **External competition:** AMIRES will continuously benchmark PIXEurope against global offerings, ensure complementarity with European initiatives, and strengthen the brand visibility of PIXEurope as a unique open-access, sovereign European Pilot Line.
- **Supply chain vulnerabilities:** To address risks in material supply, AMIRES will work with partners to establish strategic relationships, promote dual sourcing, and reduce reliance on custom materials.
- **Delays in demonstrators:** AMIRES will spread demonstrator responsibilities across multiple partners and ensure redundancy so that delays in one area do not compromise training or user engagement.

## 4. Qualification (economic, technical)

### Economic solvency requirement

Based on its submitted annual accounts, the company confirms that it meets the billing volume requirement as specified. The financial data demonstrates that the billing volume for the best year within the last three available exceeds the average annual estimated value of the contract (120.000 €).

Please note that the supporting documents are provided in Czech, as they reflect the company's official filings in the Czech Republic. **The billing volume for 2024 reached 4.374.000 CZK as shown in the Profit and loss statement below under the caption I. "Tržby z prodeje výrobků a služeb". This amount corresponds to 178.968 €.**

IČ:	24173720
-----	----------

**Výkaz zisku a ztráty pro podnikatele - druhové členění,  
v plném rozsahu  
ke dni 31.12.2024**

(v celých tisících CZK)

	Název položky	běžné účetní období	minulé účetní období
		1	2
I.	Tržby z prodeje výrobků a služeb	4374	2941
A.	Výkonová spotřeba	8286	1981
A.2	Spotřeba materiálu a energie	867	249
A.3	Služby	7419	1732
D.	Osobní náklady	17963	15900
D.1.	Mzdové náklady	13493	11938
D.2	Náklady na sociální zabezpečení, zdravotní pojištění a ostatní náklady	4470	3962
D.2.1.	Náklady na sociální zabezpečení a zdravotní pojištění	4399	3891
D.2.2.	Ostatní náklady	71	71
III.	Ostatní provozní výnosy	26334	18587
III.3.	Jiné provozní výnosy	26334	18587
F.	Ostatní provozní náklady	464	219
F.3.	Daně a poplatky	71	3
F.5.	Jiné provozní náklady	393	216
*	Provozní výsledek hospodaření (+/-)	3995	3428
VII.	Ostatní finanční výnosy	1432	308
K.	Ostatní finanční náklady	569	90
*	Finanční výsledek hospodaření (+/-)	863	218
**	Výsledek hospodaření před zdaněním (+/-)	4858	3646
L.	Daň z příjmů	1144	705
L.1.	Daň z příjmů splatná	1144	705
**	Výsledek hospodaření po zdanění (+/-)	3714	2941
***	Výsledek hospodaření za účetní období (+/-)	3714	2941
*	Čistý obrat za účetní období = I. + II. + III. + IV. + V. + VI. + VII.	4374	

The 2024 annual accounts were approved and deposited with the Registry court (this refers to a repository of official documents (such as company filings, statutes, financial statements, etc.) maintained by the registry court, typically in connection with business or corporate registrations), as shown in the document below.

## Collection of documents

### AMIRES Ltd.

#### Basic identification data

**File number:** C 185496 kept at the Municipal Court in Prague

**Business name:** AMIRES Ltd.

**Identification number:** 241 73 720

#### Address

**Company headquarters:** On the outskirts 335/42, Veleslavín, 162 00 Prague 6

#### Charter

**Mark:** C 185496/SL34/MSPH

**Type:** financial statements [2024] - submitted through the income tax administrator

**When was it created:** 29.7.2025

**When was it to be founded:**

**When did she arrive:** 29.7.2025

**When was it founded:** 29.7.2025

#### Contents

**Digital form:** [UZ-451100348330-20250724-093312.xml \(4 KB\)](#)

[Amires sro Appendix to the financial statements 2024\(1\).pdf \(344 kB, number of pages: 5\)](#)

[UZ-451100348330-20250724-093312.pdf \(221 kB, number of pages: 3\)](#)

## Technical solvency requirement

### Company experience in similar work

AMIRES has successfully coordinated and managed multiple complex European R&I projects involving international consortia. Specifically, AMIRES has played a leading or key coordination role in several multi-partner projects funded under Horizon 2020, Horizon Europe within the past seven years, demonstrating robust experience in both technical and operational project management. The supported projects are listed below.

<b>HORIZON 2020</b>	<b>Photonics Solutions at Pilot Scale for Accelerated Medical Device Development (MedPhab)</b>
<b>Coordinated by:</b> Technical Research Centre of Finland (VTT), Finland	
<p>MedPhab is Europe's first pilot line dedicated to the manufacturing, testing, validation, and upscaling of photonics technologies for medical diagnostics. Running from January 2020 to September 2024, the project aims to accelerate the development and market entry of innovative medical devices by reducing R&amp;D costs and timelines. Photonics technologies—used in diagnostics, surgical tools, and therapeutics—face challenges due to their diversity and the complexity of medical regulations. MedPhab addresses these by offering a collaborative environment between ISO13485-certified companies and research organizations, ensuring compliance and efficiency in the medical domain.</p> <p>More information available at: <a href="http://www.medphab.eu">www.medphab.eu</a></p>	

	<p><b>Indium-Phosphide Pilot Line for up-scaled, low-barrier, self-sustained PIC ecosystem (InPulse)</b></p>
<p><b>Coordinated by:</b> Technische Universiteit Eindhoven (TUE), Netherlands</p>	
<p>InPulse was a European initiative aimed at transforming the photonic integrated circuit (PIC) industry by establishing a manufacturing pilot line for Indium-Phosphide (InP) PICs. Running from January 2019 to December 2023, the project sought to shift the industry from a vertically integrated model—where all capabilities are housed within a few specialized companies—to an open-access, horizontal model accessible to innovators across Europe.</p> <p>The project enabled broader access to mature, high-performance, and fast-turnaround InP PIC production, helping to accelerate time-to-market and foster sustainable, scalable value chains for photonics innovation.</p> <p>More information available at: <a href="http://www.inpulse.jepix.eu">www.inpulse.jepix.eu</a></p>	
	<p><b>Pilot-line providing highly advanced &amp; robust manufacturing technology for optical free-form micro-structures (PHABULOU\$)</b></p>
<p><b>Coordinated by:</b> Centre Suisse d'Electronique et de Microtechnique SA (CSEM), Switzerland</p>	
<p>PHABULOU\$ was a European pilot line initiative focused on the design, manufacturing, and integration of free-form micro-optical components (FMLAs) into high-value products. These components are essential for advanced applications in augmented and virtual reality (AR/VR), automotive lighting, and life sciences. Running under the Horizon 2020 framework, the project aimed to bridge the gap between research and industrial deployment by offering open-access services to SMEs and large companies. It enabled faster prototyping, validation, and scaling of micro-optics technologies, supporting Europe's leadership in photonics innovation.</p> <p>More information available at: <a href="http://www.phabulous.eu">www.phabulous.eu</a></p>	
	<p><b>One-Stop-Shop Open Access to Photonics Innovation Support for a Digital Europe (PhotonHub)</b></p>
<p><b>Coordinated by:</b> Vrije Universiteit Brussel (VUB), Belgium</p>	
<p>PhotonHub was a pan-European initiative aimed at accelerating the uptake of photonics technologies by industry, particularly SMEs and mid-caps. Running for 52 months starting in January 2021, the project established a single Photonics Innovation Hub that integrated top-tier photonics technologies, facilities, and expertise from 53 partners across Europe. It provided open access to training, “test before invest” innovation support, business and IP advisory services, and investment-readiness coaching. PhotonHub also worked closely with regional photonics hubs to promote best practices and ensure long-term sustainability through the creation of the PhotonHub Europe Association.</p> <p>More information available at: <a href="http://www.photonhub.eu">www.photonhub.eu</a></p>	

	<p><b>Sustainable ecosystem for the adoption, ramp-up and transfer of emerging electronics solutions (SmartEEs2)</b></p>
<p><b>Coordinated by:</b> Commissariat à l'Énergie Atomique et aux Énergies Alternatives (CEA), France</p>	
<p>SmartEEs2 was a European Digital Innovation Hub aimed at accelerating the adoption of flexible and wearable electronics by SMEs and mid-caps. Building on the success of the original SmartEEs project, SmartEEs2 provided a unique digitalization experience through experimentation, testing, and support to manufacturing. The project linked promising flexible electronics technologies with real-world business cases, offering access to technical expertise, business support, and funding opportunities. It fostered a collaborative ecosystem to drive innovation and market deployment of organic and printed electronics across Europe.</p>	
<p>More information available at: <a href="https://ecosystem.smartees2.eu">ecosystem.smartees2.eu</a></p>	
	<p><b>International Smart Collaborative Open-access hybrid Printed Electronics pilot line (InSCOPE)</b></p>
<p><b>Coordinated by:</b> Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek (TNO), Netherlands</p>	
<p>InSCOPE was a European project that established an open-access pilot line for Hybrid TOLAE (H-TOLAE) technologies, enabling the sampling of products at TRL 6–7. Positioned between R&amp;D and industrial deployment, the project aimed to validate and mature H-TOLAE product prototypes for applications in automotive, healthcare, smart packaging, and smart buildings. The pilot line was modular and distributed across leading European research and technology organizations, ensuring interoperability and comprehensive process integration. InSCOPE accelerated the uptake of printed electronics by offering a public handbook with production guidelines and by validating its services through showcases and development cases targeting SMEs.</p>	
<p>More information available at: <a href="http://www.inscope-project.eu">www.inscope-project.eu</a></p>	
	<p><b>Open Testing and Experimentation for Quantum Technologies in Europe (Qu-Test)</b></p>
<p><b>Coordinated by:</b> Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek (TNO), Netherlands</p>	
<p>Qu-Test is a Horizon Europe project that brings together a federated network of testbeds to support the European quantum ecosystem. It offers open access to testing and validation services for quantum computing, communication, and sensing technologies. The project aims to create a trusted supply chain by validating quantum devices, chips, and systems through independent third-party assessments. It also works toward harmonizing methodologies and parameters to support standardization in quantum technologies. With additional services such as IPR support, business coaching, and innovation management, Qu-Test provides a holistic one-stop-shop to accelerate the development and commercialization of quantum technologies across Europe.</p>	
<p>More information available at: <a href="http://www.qu-test.eu">www.qu-test.eu</a></p>	

	<p><b>Experimental Production Capabilities for Quantum Technologies in Europe (Qu-Pilot)</b></p>
<p><b>Coordinated by:</b> Technical Research Centre of Finland (VTT), Finland</p>	
<p>Qu-Pilot is a Horizon Europe project aimed at developing and providing access to the first federated European pilot production capabilities for quantum technologies. The project connects and builds on existing infrastructures across Europe to support quantum computing, communication, and sensing. It offers services through 13 service-provider organizations, with a focus on supporting SMEs and startups. Qu-Pilot also contributes to the development of European standards and ensures that critical intellectual property remains within the EU. The project validates its services through at least 20 industrial use cases and lays the foundation for a sustainable European quantum supply chain.</p>	
<p>More information available at: <a href="http://www.qu-pilot.eu">www.qu-pilot.eu</a></p>	
	<p><b>Additive Manufacturing Using Metal Pilot Line (MANUELA)</b></p>
<p><b>Coordinated by:</b> Chalmers Tekniska Högskola AB (Chalmers), Sweden</p>	
<p>MANUELA was a Horizon 2020 project aimed at deploying an open-access pilot line for metal additive manufacturing (AM) using two major technologies: Laser Powder Bed Fusion (LPBF) and Electron Beam Melting (EBM). The project covered the entire production sequence—from design and simulation to fabrication, post-processing, and quality control. MANUELA integrated advanced instrumentation, process monitoring, and automation to improve reliability and scalability. The pilot line was validated through industrial use cases in sectors such as automotive, aerospace, energy, and healthcare. It brought together a consortium of industrial end-users, suppliers, and leading research institutes to demonstrate the full potential of metal AM for industrial production.</p>	
<p>More information available at: <a href="http://www.manuela-project.eu">www.manuela-project.eu</a></p>	
	<p><b>Open Access Single entry point for scaleup of Innovative Smart lightweight composite materials and components (OASIS)</b></p>
<p><b>Coordinated by:</b> Fundación Tecnalia Research &amp; Innovation (Tecnalia), Spain</p>	
<p>OASIS was a Horizon 2020 project focused on accelerating the industrial uptake of nano-enabled multifunctional lightweight composites, particularly polymer-matrix and aluminum composites. The project established a comprehensive Open Innovation Test Bed (OITB) that integrated 12 pilot lines and a wide range of services, including modeling, characterization, regulatory support, and business development. OASIS aimed to reduce time-to-market and development costs for SMEs and large companies by offering a single-entry point to access advanced manufacturing capabilities and expertise across Europe.</p>	
<p>More information available at: <a href="http://oasis-composites-oitb.com/">oasis-composites-oitb.com/</a></p>	

<b>HORIZON 2020</b>	<b>Open Innovation Ecosystem for Sustainable Nano-functionalized Flexible Plastic and Paper Surfaces and Membranes (FlexFunction2Sustain)</b>
<b>Coordinated by:</b> Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V. (Fraunhofer), Germany	
<p>FlexFunction2Sustain was a Horizon 2020 project that established an Open Innovation Test Bed (OITB) to accelerate the development and market uptake of sustainable and nano-functionalized flexible plastic and paper surfaces. The project connected nine complementary lab-to-fab pilot lines across Europe, covering all major nanosurface processing techniques. It provided SMEs and industry with access to technical services, business development support, and regulatory guidance. The initiative aimed to foster circular economy solutions and reduce environmental impact by enabling the commercialization of innovative materials and products for packaging, electronics, and membrane applications.</p> <p>More information available at: <a href="http://www.flexfunction2sustain.eu">www.flexfunction2sustain.eu</a></p>	
<b>HORIZON 2020</b>	<b>Converting Facilities Network for Accelerating Uptake of Climate Neutral Materials in Innovative Products (Convert2Green)</b>
<b>Coordinated by:</b> National Technical University of Athens (NTUA), Greece	
<p>Convert2Green is a Horizon Europe project that establishes an Open Innovation Test Bed (OITB) to help material suppliers integrate innovative, circular, and carbon-neutral material solutions into key European value chains. These include clean autonomous vehicles, smart health, industrial IoT, low-carbon industry, and clean energy. The project offers unique services such as full eco-impact analysis, TRL4–7 process chains for smart textiles and electronics, and pilot facilities for recycling and bio-based materials. It also pioneers licensing models, a multilingual digital platform for service integration, and novel financing tools to support SMEs and accelerate market entry.</p> <p>More information available at: <a href="http://www.convert2green.eu">www.convert2green.eu</a></p>	
<b>HORIZON 2020</b>	<b>InP on SiN Photonic Integrated circuits REalized through wafer-scale micro-transfer printing (INSPIRE)</b>
<b>Coordinated by:</b> Technische Universiteit Eindhoven (TUE), Netherlands	
<p>INSPIRE was a Horizon 2020 project aimed at revolutionizing photonic integrated circuit (PIC) technology by combining Indium Phosphide (InP) and Silicon Nitride (SiN) photonics into a single platform using wafer-scale micro-transfer printing. This integration enabled the combination of high-performance III-V opto-electronic components with the low-loss passive functionality of SiN on 200mm wafers. The project validated its technology through use cases in distributed fiber sensing, microwave photonics, and datacenter switching. By eliminating costly assembly steps and enabling high-throughput integration, INSPIRE strengthened Europe's industrial leadership in photonics and laid the groundwork for scalable, high-performance PIC manufacturing.</p> <p>More information available at: <a href="http://www.inspire-h2020.eu">www.inspire-h2020.eu</a></p>	

	<p><b>PZT and Graphene MATerials innovations for advanced opto-Electronic applications in AR and biosensing (MatEl)</b></p>
<p><b>Coordinated by:</b> National Technical University of Athens (NTUA), Greece</p>	
<p>MatEl is a Horizon Europe project focused on developing a hybrid photonic integration platform that combines silicon nitride (Si<sub>3</sub>N<sub>4</sub>) with active materials like graphene and high-quality PZT. The project introduces a novel on-chip integration scheme using Laser Digital Processing—Laser Transfer and Laser Soldering—for precise and efficient bonding of optoelectronic integrated circuit (OEIC) components. MatEl aims to demonstrate two next-generation devices at TRL5: a 2D light source for AR displays and a bio-photonic sensor for antibody detection. By enabling high-performance, multifunctional, and miniaturized optoelectronic devices, MatEl supports the advancement of European photonics and microelectronics industries.</p> <p>More information available at: <a href="http://www.project-matel.eu">www.project-matel.eu</a></p>	
	<p><b>The next generation of sensors and imagers enabled by 2D materials digital integration (Next-2Digits)</b></p>
<p><b>Coordinated by:</b> National Technical University of Athens (NTUA), Greece</p>	
<p>Next-2Digits is a Horizon Europe project that addresses the integration of 2D materials into photonic and optoelectronic integrated circuits (PICs and OEICs). The project aims to develop next-generation sensors and imaging systems by leveraging the unique properties of 2D materials such as graphene. It is part of the Graphene Flagship initiative and contributes to advancing Europe's strategic autonomy in 2D materials technologies. Through its innovations, Next-2Digits supports the commercialization of graphene-based solutions and strengthens the European supply chain for advanced electronics and photonics.</p> <p>More information available at: <a href="http://www.next-2digits.eu">www.next-2digits.eu</a></p>	
	<p><b>Ultra-Sound Combined with Bioelectrical Impedance Analysis and Graphene Field Effect Transistor Enhanced Wearable Sensing for Decentralised Health-Monitoring (UltraSense)</b></p>
<p><b>Coordinated by:</b> National Technical University of Athens (NTUA), Greece</p>	
<p>UltraSense is a Horizon Europe project developing a next-generation wearable device that combines ultrasound, bioimpedance, and graphene-based biosensors to enable continuous, non-invasive health monitoring. Designed to support both active lifestyle management and early detection of metabolic syndrome, the platform offers real-time insights into body composition and sweat biomarkers. With a strong focus on sustainability, the project also aims to reduce CO<sub>2</sub> emissions through green material synthesis, while targeting large-scale market deployment by 2032.</p> <p>More information available at: <a href="http://www.ultrasense.eu">www.ultrasense.eu</a></p>	

	<p><b>NanoPhOtonic devices applying Self-assembled colloIDs for novel ON-chip light sources (POSEIDON)</b></p>
<p><b>Coordinated by:</b> Gesellschaft für Angewandte Mikro- und Optoelektronik mit beschränkter Haftung AMO GmbH (AMO), Germany</p>	
<p>POSEIDON was a Horizon 2020 project that developed a novel bottom-up approach for the on-chip self-assembly of active colloids to create scalable, cost-effective light sources for photonic integrated circuits. By enabling monolithic integration into CMOS chips, the project aimed to overcome major cost and complexity barriers in PIC manufacturing, with long-term potential to transform Europe's photonics industry and support advances in ICT, quantum technologies, and energy-efficient data centers.</p> <p>More information available at: <a href="http://www.poseidon-fet.eu">www.poseidon-fet.eu</a></p>	
	<p><b>X Transceivers &amp; RF front-ends made in Europe's Microelectronics light house to Enable new 6G use cases (X-TREME 6G)</b></p>
<p><b>Coordinated by:</b> STMicroelectronics Crolles 2 SAS (ST Micro), France</p>	
<p>X-TREME 6G is a Horizon Europe project aiming to establish a foundational open microelectronics platform in Europe to develop next-generation chiplets and chipsets for 6G applications. It focuses on enabling high-capacity radio access technologies such as sub-Terahertz wireless backhauling, Joint Communication and Sensing (JCAS), Non-Terrestrial Networks (NTN), and Network-as-a-Sensor (NaS). The project also supports energy-efficient 6G algorithms and AI/ML toolboxes, contributing to a sustainable, open, and democratized 6G ecosystem in Europe.</p> <p>More information available at: <a href="http://www.x-treme6g.eu">www.x-treme6g.eu</a></p>	
	<p><b>Quantum-enhanced benchtop NMR spectrometer (Quench)</b></p>
<p><b>Coordinated by:</b> Technische Universität München (TUM), Germany</p>	
<p>Quench is a Horizon Europe project developing a compact, quantum-enhanced benchtop nuclear magnetic resonance (NMR) spectrometer. By integrating nitrogen-vacancy (NV) center quantum sensors, the project aims to dramatically improve the sensitivity and resolution of NMR analysis in a portable format. This innovation opens new possibilities for molecular structure analysis in fields such as materials science, chemistry, and drug discovery, making high-performance NMR accessible outside traditional laboratory environments.</p> <p>More information available at: <a href="http://www.quench-project.eu">www.quench-project.eu</a></p>	
	<p><b>Spin-based quantum computer and simulator (SPINUS)</b></p>
<p><b>Coordinated by:</b> Fraunhofer Gesellschaft zur Förderung der Angewandten Forschung e.V. (Fraunhofer), Germany</p>	
<p>SPINUS is a Horizon Europe project developing scalable solid-state quantum simulation and computing hardware based on nuclear spin networks and dipole-dipole entangled electron spin qubits. It aims to establish experimental platforms for quantum simulation with over 50 quantum units and quantum computing with more than 10 programmable qubits at ambient temperatures. By leveraging optically polarized NV centers and color centers in diamond or SiC, SPINUS enables</p>	

exploration of strongly correlated models beyond current simulator capabilities, contributing to the European quantum ecosystem through collaboration with startups and flagship initiatives.

More information available at: [www.spinus-quantum.eu](http://www.spinus-quantum.eu)



## **PROtotypes of Magnetic Imaging Systems for Europe (PROMISE)**

**Coordinated by:** Fundacion Tecnalia Research & Innovation (Tecnalia), Spain

PROMISE is a Horizon Europe project advancing nitrogen-vacancy (NV) quantum technology by developing widefield NV magnetometer prototypes for magnetic imaging. These compact, user-friendly devices aim to reach TRL7 and enable real-time, high-sensitivity imaging without scanning. Validated across four use cases—semiconductors, materials science, biotechnology, and aerospace—the project targets market uptake through machine learning integration, standardization, and full value-chain collaboration.

More information available at: [www.promise-quantum.eu](http://www.promise-quantum.eu)



## **Roll-2-Roll and Photolithography post-processed with LAser digital technology for FLEXible photovoltaics and wearable displays (RoLA-FLEX)**

**Coordinated by:** National Technical University of Athens (NTUA), Greece

RoLA-FLEX was a Horizon 2020 project that developed innovative solutions to overcome performance and lifetime challenges in Organic and Large Area Electronics (OLAE). It focused on advanced materials, high-speed laser digital processing, and novel manufacturing techniques to demonstrate two TRL5+ prototypes: a smart energy platform for IoT devices powered by flexible OPVs, and a new generation of bezel-less, bendable smartwatches with ultra-bright OLCD/OTFT displays. The project aimed to boost EU competitiveness by enabling scalable, sustainable electronics production and opening new market opportunities in wearables and smart energy.

More information available at: [www.rola-flex.eu](http://www.rola-flex.eu)



## **Excellent Laser Technologies for the Sustainable Prosperity of Europe (LASER-PRO)**

**Coordinated by:** HiLASE Centre – Institute of Physics of the Czech Academy of Sciences (FZU), Czechia

LASER-PRO is a Horizon Europe Excellence Hub project aiming to build a sustainable, place-based innovation ecosystem in laser technologies across the Czech Republic and Lithuania. By fostering collaboration between academia, industry, government, and society, the project supports joint R&I strategies, cross-border research teams, and skills development. It focuses on advancing laser applications in manufacturing, healthcare, and semiconductors, while also mentoring Ukrainian partners and promoting regional smart specialization.

More information available at: [www.laserpro-eh.eu](http://www.laserpro-eh.eu)

<b>HORIZON 2020</b>	<b>Tumor and Lymph Node on Chip for cancer studies (Tumor-LN-oC)</b>
<b>Coordinated by:</b> National Technical University of Athens (NTUA), Greece	
<p>Tumor-LN-oC is a Horizon 2020 project developing a robust, automated tumor-lymph node-on-chip platform to study the interaction between primary tumors and lymph nodes using real patient samples. The platform integrates microfluidic chips, mid-IR spectroscopy, and advanced image analysis to monitor cell migration and identify molecular signatures of metastasis. Aimed at TRL5 validation, the project supports personalized cancer treatment and early market entry through regulatory alignment, with strong interdisciplinary collaboration across Europe.</p> <p>More information available at: <a href="http://www.tumor-ln-oc.eu">www.tumor-ln-oc.eu</a></p>	
<b>HORIZON 2020</b>	<b>Fabrication Of Sensor Packages Enabled by Additive Manufacturing (TINKER)</b>
<b>Coordinated by:</b> PROFACTOR GmbH (PROFACTOR), Austria	
<p>TINKER was a Horizon 2020 project that developed a cost- and resource-efficient pathway for fabricating RADAR and LiDAR sensor packages using additive manufacturing and inline feedback control. Aimed at the automotive and microelectronics industries, the project focused on miniaturization, improved automation, and enhanced reliability of sensor integration into vehicle bodies. The modular TINKER pilot line leveraged inkjet printing and nanoimprint lithography to support high-throughput, flexible production for advanced driver-assistance systems and autonomous vehicles.</p> <p>More information available at: <a href="http://www.project-tinker.eu">www.project-tinker.eu</a></p>	
<b>HORIZON 2020</b>	<b>Multimodal X-ray and Hyperspectral Thin-Film Nano-material Evaluation and Quality Imaging (NanoQI)</b>
<b>Coordinated by:</b> Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V. (Fraunhofer), Germany	
<p>NanoQI was a Horizon 2020 project that developed a real-time, in-line capable technique for characterising nano-structure and nano-dimensions of thin-film nano-materials. By combining area-detector based XRR and XRD with wide-angle hyperspectral imaging, the project enabled industrial-scale evaluation of nano-material geometry and morphology. Demonstrations included perovskite solar cell manufacturing, roll-to-roll polymer coating, and atomic layer deposition, supporting improved reproducibility, yield, and scalability in advanced materials production.</p> <p>More information available at: <a href="http://www.nanoqi.eu">www.nanoqi.eu</a></p>	

## Experience in Service Delivery Models and Single Entry Point (SEP) Operations

AMIRES proposes to apply its extensive expertise in **Service Delivery and Single Entry Point operations** to support the effective management of PIXEurope. We have successfully implemented SEP-based approaches in distributed infrastructures such as InPulse, MedPhab, Phabulous, FlexFunction2Sustain, SmartEEs, Convert2Green, where a centralised entry point ensured streamlined user access, contractual alignment, and operational efficiency across multiple service providers.

## Key aspects of our Service Delivery expertise include:

- **Centralised Contract Management:** AMIRES has developed and maintained **standardised contract templates** for Service Delivery Agreements, Non-Disclosure Agreements, and Terms of Service. This approach significantly **reduces negotiation times** with new clients and ensures a harmonised legal framework across all pilot line partners.
- **Transparent Service Level Agreements (SLAs):** Our SEP models establish **clear and transparent SLAs**, setting expectations for delivery times, service quality, and scope. This ensures consistent user experiences across distributed facilities and helps to **accelerate time-to-market by an order of magnitude** compared to fragmented service approaches.
- **IPR Advice and Management:** AMIRES has direct experience in **advising clients on IPR issues**, including ownership, protection, and licensing models. Within Pilot Lines, the SEP actively supported IPR discussions to safeguard partner contributions while enabling user innovation.
- **Flexible Customer Request Handling:**
  - AMIRES has managed requests that required **single-provider engagement** as well as those involving **multi-provider workflows**, ensuring smooth coordination.
  - In cases of **internal competition** between service providers, the SEP has acted as a **neutral arbiter**, assigning requests based on technical fit, service quality, delivery timelines, or geographical considerations.
- **Lifecycle Support of Use Cases:** AMIRES offers **end-to-end coordination** of customer use cases, from first contact through project delivery and follow-up, ensuring added value for both the client and the participating service providers. This includes proactive identification of additional services from the portfolio that could enhance project outcomes.

By bringing these practices into PIXEurope, AMIRES will ensure that the **Gateway operates as a professional, customer-facing SEP**, enabling:

- Fast and harmonised onboarding of new users.
- Transparent and fair allocation of requests across the distributed Pilot Line.
- Optimised contract negotiations and IP frameworks.
- Strong customer confidence through consistent service delivery and support.

This proven SEP-based approach guarantees that PIXEurope will be **efficient, scalable, and attractive for European and international users**, positioning it as a leading open-access infrastructure in PIC manufacturing.

## Expertise in Photonic Integrated Circuits (PICs)

AMIRES brings extensive experience in **photonics and photonic integrated circuits (PICs)**, spanning the full innovation and manufacturing value chain – from **design and simulation**, through **wafer-scale fabrication**, to **testing, packaging, and system integration**. We have been actively involved in multiple large-scale European projects at various **TRLs**, addressing both **technology-driven development** of PIC platforms and **application-oriented deployments**.

Our expertise covers:

- **End-to-End Value Chain Knowledge:** Through projects such as **INSPIRE** and **MatEI**, we have worked on the integration of III-V, SiN, and Si-based platforms, mastering the development of standardized **Process Design Kits (PDKs)**, heterogeneous integration, and hybrid packaging strategies. This enables us to

support projects from **early design stages** to **industrial prototyping and pre-production**.

- **Pilot Line Development and Manufacturing:** We have played a central role in establishing **open-access pilot lines** for InP-based PICs (**InPulse**) and medical photonics (**MedPhab**), reducing barriers to entry for SMEs and ensuring sustainable, scalable manufacturing capabilities in Europe. These activities include setting up operational workflows, qualification of foundry processes up to **TRL7**, and alignment with industrial quality standards.
- **Application-Driven Innovation:** Several projects focused on application domains where PICs deliver unique performance advantages. Examples include:
  - **High-speed datacom and microwave photonics** (INSPIRE, POSEIDON).
  - **Medical diagnostics and biosensing** (MedPhab, MatEl, Next-2Digits).
  - **Quantum and LiDAR systems** (Qu-PILOT, Next-2Digits).
  - **Wearable health monitoring and imaging** (UltraSense, HyperImage).
- **Technology Integration and Novel Materials:** AMIRES has worked on implementation of projects focusing on advanced **heterogeneous integration schemes** and wafer-scale methods (e.g., **micro-transfer printing, laser-based bonding, graphene/2D materials integration**) to enhance PIC functionality and scalability. These innovations are directly aligned with the semiconductor industry's requirements for **low-cost, high-performance, miniaturized solutions**.
- **Support for Exploitation and Innovation Strategies:** Beyond the technical expertise, we have consistently supported **innovation management, IP landscaping, and exploitation planning** within all the below listed PIC-related projects, ensuring that research outputs are translated into **industrial uptake, start-ups, and scalable business models**.

In summary, AMIRES combines **deep technical knowledge** of photonic integration technologies with **practical experience in pilot line operation, industrial validation, and market exploitation**. This unique positioning enables us to effectively support innovation strategies in photonic integrated circuits and to accelerate the **commercial deployment of PIC-enabled solutions across multiple sectors**.

## Experience in data governance and in the deployment or use of digital platforms

AMIRES has extensive experience in implementing digital platforms that support coordination, user access, and reporting across multi-partner infrastructures, in full compliance with EU data protection regulations.

As part of previous European pilot line initiatives, we have successfully deployed and operated the **Ecosystem Management Platform (EMP)**—a cloud-based Virtual Showroom designed to showcase service offerings, facilitate ecosystem building, and enable pan-European collaboration. This platform has been integrated into project webpages to support a Single Entry Point model, enhancing accessibility for SMEs, RTOs, and other stakeholders.

Our EMP is based on proprietary, cloud-native software modules developed by AMIRES, requiring no new platform development. It can be adapted to the specific needs of PIXEurope technology pilot line, as it has been done in case of Pilot Lines such as **SmartEEs, Phabulous, MedPhab, Qu-Test** and **Qu-Pilot** or **PhotonHub** where it currently serves as a scalable and open infrastructure for presenting service catalogues and integrating new offerings.

Furthermore, AMIRES has developed and successfully operated a comprehensive digital infrastructure for managing **open calls and coordinating multi-partner evaluation processes**. This system, built into the AMIRES web portal, has been deployed in several pilot line projects and is designed to ensure transparency, efficiency, and compliance with EU data protection regulations.

Key features and operational practices include:

- **Digitally Enabled Evaluation Workflow:** Evaluators are assigned through the AMIRES portal based on expertise, availability, and applicant-defined exclusions. Evaluators submit their assessments directly within the platform, ensuring secure and traceable data handling throughout the process.
- **Structured and Fair Evaluation Process:** Each application is reviewed by a pre-defined number of independent evaluators, with an assigned as rapporteur to compile the final Evaluation Summary Report (ESR). The system supports conflict-of-interest checks and automatic reassignment to avoid delays.
- **Defined Evaluation Criteria and Scoring System:** Applications are assessed against pre-defined core criteria, typically —Concept, Implementation, and Impact— using a standardized scoring scale. Thresholds are clearly communicated to applicants, and feedback is provided via Evaluation Summary Reports to support resubmission and continuous improvement.
- **Continuous Open Call Model:** The platform supports a rolling application process, allowing SMEs to apply at any time. This flexibility is complemented by indicative cut-off dates and a commitment to deliver evaluation results within one month of submission.
- **Eligibility and Selection Transparency:** All applications are screened for eligibility based on predefined criteria, including company location, readiness for a defined TRL development, and willingness to share demonstrator case information. Selection decisions are made by panels with complementary expertise in technology, business, and innovation. AMIRES has experience assigning the applications to panels.
- **Confidentiality Safeguards:** Application software allows applicants to exclude up to four consortium partners from evaluating their proposals, a feature integrated into the portal to address confidentiality concerns and ensure impartiality.
- **Dedicated Helpdesk Support:** A centralized Helpdesk, operated by AMIRES, provides both administrative and technical assistance to applicants. Enquiries are addressed within two working days, ensuring responsive and reliable support throughout the application process.

Further details of the pilot line projects where this system has been implemented are provided in the dedicated section of this application.

**The accreditation of the declared experiences is provided through Letter of Endorsement issued by clients (submitted through the electronic system).**

## Core team

For this offer, **AMIRES is ready to allocate the effort of experienced consultants, who collectively bring proven expertise** in coordinating multi-partner R&D&I projects, financial and data management in engineering and pilot line environments, technical knowledge in photonics and semiconductors, and operational experience with software tools for infrastructure and user management. Short CVs of each team member are listed below **(their full CVs are available in the electronic system) ensuring transparency and alignment with the evaluation criteria.**

## **Rudolf Fryček, PhD. (Founder and CEO of AMIRES)**

Rudolf Fryček is a seasoned innovation and technology leader with over 20 years of experience in EU-funded research and development. As the founder and CEO of AMIRES, he has built a 30-person consulting firm specializing in Horizon Europe, H2020, and FP7 projects. He is also a co-founder of four startups across Germany, France, and Czechia, where he designed business models, digital marketplaces, and operational strategies. Rudolf developed AMIPLEXUS, a business intelligence tool for stakeholder mapping, and has led consortium building and technical evaluations. His coaching work with PLATINN in Switzerland has supported over 60 SMEs in strategic innovation partnerships. Previously, he served as a Project Officer at the European Commission and as a National Contact Point for FP6 at the Technology Centre of the Czech Academy of Sciences. Rudolf holds a PhD and Master's in Material Engineering from the University of Chemistry and Technology in Prague. He is fluent in English and French, with basic Italian and native Czech.

## **Václav Smítka, PhD. (Chief Technology Officer at AMIRES)**

Václav Smítka is an innovation leader with over a decade of experience in EU-funded R&D, particularly in Energy, Sustainability, and Advanced Manufacturing. As CTO of AMIRES, he leads teams preparing new R&D&I project proposals, negotiates commercial contracts, and supports business development. He previously served as Chief Process Officer, standardizing proposal preparation processes and developing the Ecosystem Management Platform. His earlier roles include Programme Manager and Project Manager at AMIRES, and Assistant Professor at Czech Technical University in Prague. Václav holds a PhD in Geodesy and Cartography (Laser Scanning), along with master's and bachelor's degrees in the same field. He is fluent in English, with basic German and native Czech.

## **Marika Kůrová (DeepTech Programme Manager at AMIRES)**

Marika Kůrová is an experienced European Research Affairs Manager with deep expertise in EU-funded research and innovation policy. She leads teams preparing and implementing R&D&I projects in photonics, quantum technologies, material development, and additive manufacturing. Her experience includes managing Horizon 2020 and Horizon Europe projects, coordinating pilot line activities, and organizing ecosystem events. Marika previously worked at the University of Chemistry and Technology and the Technology Centre of the Czech Academy of Sciences in Brussels, where she promoted Czech R&I and collaborated with the IGLO network. She holds a master's in European studies from Masaryk University and two bachelor's degrees in Spanish for Business and International Territorial Studies. She is fluent in English and Spanish, with native Czech.

## **Roman Pašek (Quantum Community Manager at AMIRES)**

Roman Pašek is a consultant with over a decade of experience in R&D&I funding, specializing in DeepTech domains such as quantum technologies, AI, photonics, and additive manufacturing. He manages quantum technology projects and prepares proposals for European Commission funding. Roman has held roles at CzechInvest and Ricardo Innovations and serves as a Programme Board Member at the Technology Agency of the Czech Republic, evaluating international research collaborations and startup funding. He holds a master's in European studies and international Relations from Palacky University and a bachelor's in political science from Charles University. He is fluent in English, with basic French, Polish, and native Czech.

## **Martina Nešverová (Programme Manager at AMIRES)**

Martina Nesverova is a professional with extensive experience in European innovation projects, particularly in photonics and health applications. She leads project teams, manages complex Horizon Europe proposals, and coordinates ecosystem and business intelligence activities. Her previous roles at AGEL Research involved supporting clinical research and developing international partnerships. Martina holds a master's in international finance from Touro University and a bachelor's in international Trade from the Prague University of Economics and Business. She is fluent in English and native in Czech.

## **Raphael Denneulin (Project Manager at AMIRES)**

Raphael Denneulin is a project manager and consultant with five years of experience in international affairs, digital communication, and impact strategy. At AMIRES, he manages a project focused on 6G specification and supports proposal writing and business development. His previous roles include Trade and Export Advisor at Business France and communication consultant positions at JIN, Havas, and MC Group. Raphael holds a master's in public policy from Sciences Po and a bachelor's in political science and Eastern European Affairs. He is fluent in French, English, and German, with conversational Russian and basic Czech.

## **Ondřej Bajar (ICT & Multimedia Manager at AMIRES)**

Ondřej Bajar is an ICT professional with over 20 years of experience in software development, network architecture, and multimedia production. At AMIRES, he leads ICT strategy, infrastructure management, and multimedia content creation. He previously worked as an IT Specialist at the Technology Centre of the Czech Academy of Sciences and continues to operate as a freelance web developer. Ondřej is proficient in cybersecurity, UI/UX design, and Microsoft 365 administration, including Copilot AI deployment. He studied Electronic Computer Systems at Střední průmyslová škola elektrotechnická and is fluent in English and native in Czech.

## **5. Quotation**

The quotation for the above-mentioned services is offered as the **amount of 600.000 € (without VAT) for five years project** covering all the task described in above in the services offer.

## **6. Summary**

Proposed offer of AMIRES services is based on **long term experience of its team** with EU funding opportunities, EU R&D&I projects preparation and management.

In case of selection, **all activities under the contract will be carried out in full compliance with the applicable rules and guidelines established by the European Commission for Horizon Europe (HE) and Digital Europe Programme (DEP) projects.** This includes adherence to best practices in project management, financial control, and dissemination. AMIRES also guarantee **strict confidentiality** regarding any sensitive information or data accessed during the performance of its services. AMIRES team will fully comply with the **General Data Protection Regulation (GDPR)** and any relevant national or institutional data protection policies.

AMIRES also confirms its commitment to **providing qualified personnel throughout the duration of the service**, ensuring continuity of the core team during all key phases of project execution.