





Assessment of financial market gap in the Photonics sector in Europe



Moving Europe towards a global leader in photonics

Three points to cover today:

1

The role of the EIBG in the EU photonics industry

- EIB Group supporting innovation
- Lending, blending, advisory

2

EIB Advisory Services

- Innovation & Digital Advisory Services
- InvestEU Advisory Hub

3

Photonics market study

- Background and Project overview
- Key findings
- Key recommendations









EIB Group supporting innovation in Europe

Largest multilateral lender and borrower in the world

- We raise our funds on the international capital markets
- We pass on favourable borrowing conditions to clients

Over **€1.5 trillion** invested since 1958

- More than 14,400 projects in over 160 countries
- Crowding-in bank: € 4.8 trillion overall investment mobilised

Headquartered in Luxembourg

- Around 3,800 staff: In addition to finance professionals, engineers, economists and socioenvironmental experts
- 54 offices around the world

EIB Group financing in 2021 reached **€95 billion**

- .. of which EIF € 30.5 bn
- Leading provider of **green finance 43**% of our financing in 2021 supported climate action and environmental sustainability

Support to Innovation, Digital and Human Capital of € 20.7 billion

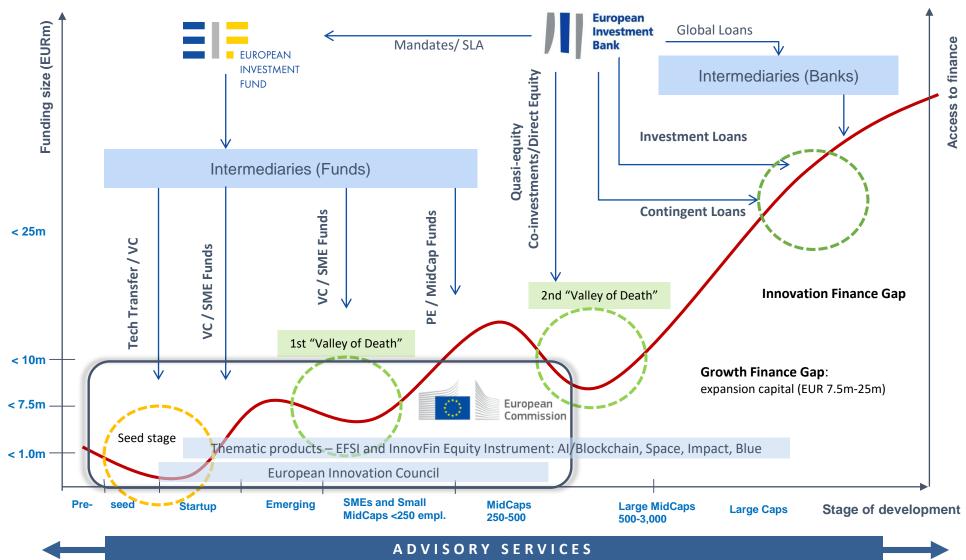
- Development of new technologies, skills, digital infrastructure
- Deployment and wider adoption







EIB GROUP: Serving companies of all sizes and stages of life



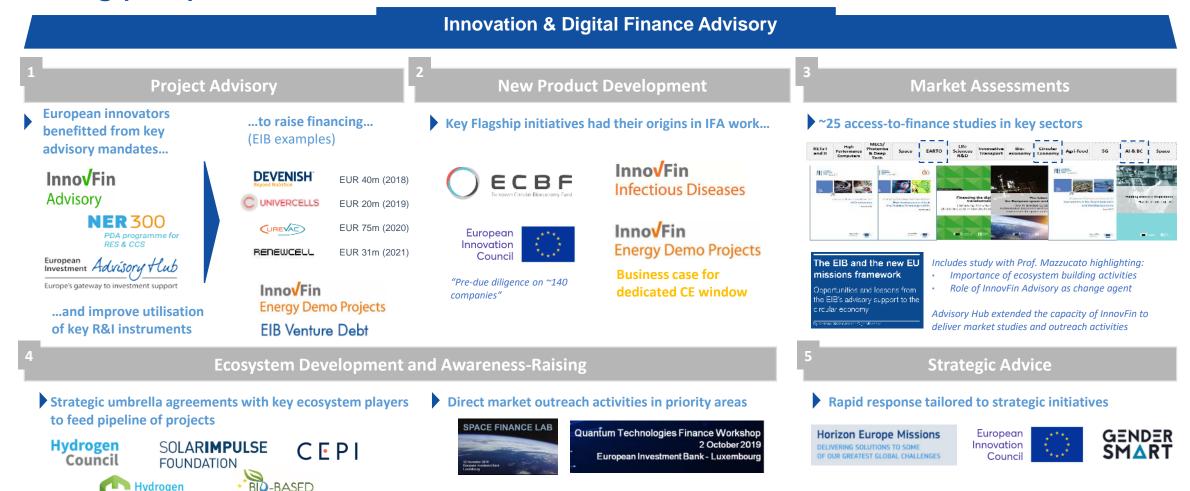




OVERVIEW OF ACTIVITIES: INNOVATION & DIGITAL FINANCE ADVISORY



Advising innovative promoters, supporting new product development and informing policy decisions









Moving Europe towards a global leader in photonics

Request to **EIB Advisory Services** from the Lithuanian Ministry of the **Economy and Innovation** to undertake a **Photonics market** study – in collaboration with EPIC



- assess the Photonics market;
- assess the potential need for specific financing instruments to support Photonics companies;
- to define the investment gap; and
- provide guidelines for a successful structuring and implementation of a financial instrument

Major sources of information with great co-operation from EPIC

- Interviews with photonics companies
- Survey of photonics companies
- Dataset of photonics companies
- Interviews with investors
- Financial data of photonics companies
- VC activity in relation to photonics companies











Main funding gaps: most apparent need for early stage and growth equity funding

AVAILABILITY OF FUNDING FOR PHOTONICS COMPANIES Lack of early-stage funding Lack of growth funding Annual investment gap Annual investment gap €300-350m €150-250m **Large MidCaps Large Caps** Seed Early growth **Small MidCaps** Pre-seed Mid Caps (500-3000 emp.) (<250 emp.) stage (250-500 emp.)

Total estimated annual investment gap **€450-600m**

- **COMPANY MATURITY STAGE**
- Lack of early-stage capital to commercialize the prototypes and fund the first stages of business development
- Growth is the second confirmed funding gap driven by the lack of investors with both the
 expertise needed to invest in scaling the photonics businesses and significant resources
 associated with such investments
- The funding gap is more apparent in equity funding (as opposed to debt)











PHOTONICS STUDY

Guidelines for the investment strategy: Recommendations on early-stage funding gap

	Overview of investment structure
Investment size	 ✓ €650 million (over a 5y period) ✓ Combine public (InvestEU, RRF etc.) and private sources
Expected impact Duration	 ✓ To close around 40% of the total funding gap ✓ Signalling and crowding-in effects ✓ To provide finance for up to 130 early-stage photonics companies Investments shall be concluded for 10-15 years
Financial intermediaries	 ✓ NPIs who can deploy funding programmes on a national level ✓ VC Funds providing capital in the form of equity, with experience of investing in or knowledge of the photonics sector
Investor return	✓ Capped return on EU-backed investment or other form of enhanced return to the financial intermediary
Recommended structure	✓ Investment into VC fund where the EU institution acts as the LP











PHOTONICS STUDY

Guidelines for the investment strategy: Recommendations on growth-stage funding gap

	Overview of investment structure
Investment size, participation by EU institutions	✓ €500 million (over a 5y period)✓ Combine public (InvestEU, RRF etc.) and private sources
Expected impact	 ✓ To close at least 40% of annual funding gap ✓ Signalling and crowding-in effects ✓ To provide finance for up to 25 growth-stage photonics companies
Duration	Investments shall be concluded for 10-15 years
Financial intermediaries	 ✓ VC and PE funds providing capital in the form of equity, with experience of investing in or knowledge of the photonics sector ✓ EIBG through enabling traditional debt and/or venture debt funding opportunity would complement the equity round
Investor return	✓ Equal participation principle
Recommended structure	✓ Co-investment into an investment proposal on a case-by-case basis







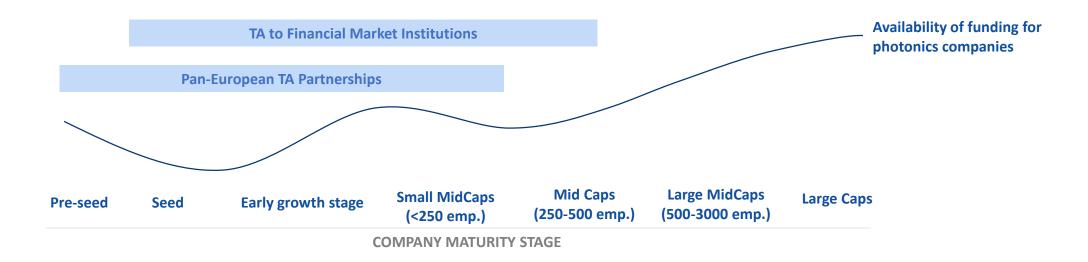




PHOTONICS STUDY

Technical assistance (TA) facility applicability for photonics companies

- TA to Financial Market Institutions would target support to early-stage and growth-stage investments, particularly with assessing technology potential, company valuation and risk assessment, serving the reduction of funding gap by reducing the perceived risk
- TA to Pan-EU Partnerships would target early-stage (and growth-stage to a lesser extent) efforts to support the photonics companies willing to develop and attract funding, increasing the perceived value of external funding and the probability to successfully raise it















Conclusions and way forward

What the EIBG can provide

Market intelligence

Support to specific projects

Sectoral development support

- Access to finance studies
- Ecosystem development initiative

Direct corporate lending

- Access to EIB lending where a project has an investment programme of scale
 - Venture Debt finance
 - Corporate loans

Intermediated lending

through Banks, NPIs and Funds

Advisory support

 Provide promoter with guidance and support to review, refine and finalise a business plan to improve bankability

2018 Financing the digital transformation: Unlocking the value of photonics and microelectronics



2021 Lithuania: Long-term support for Brolis EIB venture debt from European Guarantee Fund



NOT EXHAUSTIVE







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