

Why a Photonics European Partnership in Horizon Europe 2021-2027?

Key take-away messages are summarized under the "Draft criteria Framework for European Partnerships in Horizon Europe" proposed by the European Commission and adopted at the ERAC Plenary meeting in Brussels on the 6 December 2018.

• Effectiveness and Efficiency

The **Photonics21 contractual public private partnership (cPPP) was ranked first out of the ten existing cPPP's**, by an Independent Expert Group, during the Mid-term review of the contractual Public Private Partnerships under Horizon 2020.



• Coherence & Synergy

A photonics European Partnership would underpin the future and first ever European Commission Digital Europe Programme, which will seek to strengthen Europe's world leadership in the digital transformation.

The recent 2018 European Commission and European Investment Bank report on "Financing the digital transformation: Unlocking the value of photonics and microelectronics", is direct and states that **"the Photonics sector is an essential key enabling technology and represents an important building block of the next digital revolution, which will be based on deep technologies"**



• Long-term Commitment of the Partners

The current Photonics21 partnership (cPPP) established in Horizon 2020, has demonstrated **a very high > 4 leverage factor with respect to private to public funding**, as recently highlighted by DigitalEurope. More importantly, European Photonics SMEs are committed to invest more than €10 billion per year into R&I in Europe during the time period of Horizon Europe.



The Photonics 21 partnership is actively complemented by a **very strong and active European Photonics Industry Consortium bringing together over 600 Photonics Industry CEO's from around the world.**

• EU Value Added and Additionality



PHOTONICS²¹

The Photonics21 cPPP has played a key role **in creating a network of National Photonics associations and Prototyping and Pilot Production Networks**, who are now strongly engaged in the development of sustainable regional and national competitiveness photonics policy and ecosystems.

One result of this proactive engagement is the decision of the Netherlands in December 2018 to invest €238 million in photonics development. The PhotonDelta initiative involves government, 3 regions, the Dutch national photonics association, several industrial members of EPIC and research members of Photonics21.

• Openness and Transparency

By **involving more than 3000 photonics experts representing more than 1700 SME industry and research organisations, the Photonics21 PPP is seen as a role model** for any future European partnership in Horizon Europe in terms of openness and transparency.