Horizon 2020 and the Photonics PPP

Khalil Rouhana
Director Components and Systems
DG CONNECT, European Commission
Horizon 2020
The EU Framework Programme for Research and Innovation: 2014-2020

EC proposal: 80 B€

- **Societal challenges**
  *Health & Ageing, Energy, Transport, Resource Efficiency, Climate Challenge, …*

- **Industrial Leadership**
  *Leadership in Enabling Technologies (ICT, Nanotechnology materials, Biotechnology, Production Technologies, …)*

- **Excellent Science**
  *ERC, Marie Curie actions, FETs, Research infrastructures*

http://ec.europa.eu/research/horizon2020
Implement Photonics in Horizon 2020 through a PPP

- The proposed Horizon 2020 legal text foresees a potential PPP for Photonics
- ~1.8 B€ foreseen for both photonics and micro-and nano-electronics
Photonics Strategy in Horizon 2020

**Objectives**

- Address and strengthen the full innovation and value chain in photonics
- Reinforce excellent cooperation of photonics stakeholders in Europe to accelerate the development of new technologies, the innovation process and the time to market
- Mobilise, pool and leverage public and private resources to provide successful solutions for the major societal challenges facing Europe

**A public private partnership in Photonics**

- A long-term commitment between the EC and the Photonics Stakeholders to invest in Europe with the aim to: Secure EU’s industrial leadership in those application areas where photonics is driving innovation and Europe is strong or where there is potential for creating new markets

**Support R&I activities based on a business-driven Strategic R&I Agenda**
 Photonics PPP: Rationale

Strong foundation:
- Close cooperation with community and within community
- Strong and visible community (1150 companies and institutions in Photonics21)
- Industry oriented strategy

What the PPP brings:
- Formalise with a real partnership
- Long term commitment from both public and private side
- Greater impact on innovation and leverage effect on complementary sources of financing

More partnership, more commitment and more leverage!
PPP Implementation: What will a PPP mean for you?

WHAT DOES NOT CHANGE

■ The financial rules are those of Horizon 2020

■ Final responsibility for Work Programme stays with European Commission and is subject to comitology

■ Implementation remains with the Commission: selection of proposals, negotiation, review of progress and payments

WHAT DOES CHANGE

■ Long-term commitment from Commission to process and budget

■ Long-term commitment by industry to invest, with a need to demonstrate its fulfilment

■ Greater focus on innovation activities with economic growth and job creation as overall goal

■ Evidence based and monitoring of performance ➔ KPIs and their monitoring

■ Large potential to leverage financing from other sources such as structural funds and the EIB
Photonics PPP

A large set of R&I Measures & Instruments

- Disruptive and Roadmap based R&D
- Pilot manufacturing lines; Large scale demonstration activities
- Innovative SMEs: light touch open schemes; access to technology and support services
- Innovation Support Actions: Inducement prizes; Pre-commercial procurement actions & public procurement initiatives; Support to collaboration among and with innovation clusters
- Coordination with national programmes (e.g. through ERANET+)
- Coordination and support actions: Education, training and skills development; Standardization; International Cooperation; Outreach, …
Timeline for EU Decision Making

2011
- 09 FEB: Green Paper on Horizon 2020
- 30 NOV: Legislative proposals

2012
- Horizon 2020 decisions
- Definition of ICT work programme 2013
- Last ICT FP7 Calls

2013
- Definition of Horizon 2020 Work programme 2014
- Launch of PPPs in Horizon 2020
- Horizon 2020 First Call

- 30 June: Multi-annual Financial Framework (MFF) proposal for 2014-2020
- Multi-annual Financial Framework decision
Roadmap towards Photonics PPP

**Nov 2012 – Feb 2013**
- Photonics Multiannual Strategic Research and Innovation Agenda (SRIA)
- **Open consultation** on PPP objectives, SRIA, governance, …

**Mar – Apr 2013**
- Final version of SRIA
- Establishment of the PPP legal entity
- Formal submission of the PPP proposal

**May – Oct 2013**
- Evaluation of PPP proposal
- Establishment of the PPP
- Signature of the PPP Contractual Agreement

Preparation of Horizon 2020 WP 2014-16
It includes

- Vision and Strategic Objectives
- Multi-annual Research and Innovation roadmap
- Industry Commitment
- Expected Impacts
- Implementation and monitoring the performance of the PPP
- Governance
Some Final Messages for the PPP

- **A must:** represent the broad stakeholders community
- Extend stakeholders to include other partners in the value chain, in particular the end-users – continue to involve the Member States!
- Build on the secure foundations already established in Photonics21!
- **A must:** operate in open & transparent set-ups (no “closed shops”)
  ➔ Governance structure
- Must also address cross-cutting activities with other KETs and the Societal Challenges
- Potential to leverage resources beyond Horizon 2020: regional funds, EIB, …

WE LOOK FORWARD TO THE PPP!
THANK YOU!