

Photonics21 workshop session – Defining photonics call topics towards Horizon Europe

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PHOTONICS PUBLIC PRIVATE PARTNERSHIP



Step 2: Break down our research and innovation objectives in operable call topics and define which products/technologies/application development is needed to achieve the target

AREAS TO BE ADDRESSED

R&I: New materials for advanced photonics (theoretical and experimental study, modelling of materials and devices, new processing schemes)

E&T: Outreach

Empower gender diversity, starting from the youngest population

Increase the impact on general public

Address industry (including non-photonics industry)

E&T: Bridge academia and industry for E&T, including lifelong learning



Step 3: Further describe the area where Horizon Europe funding is requested according to the template

2. Position of Europe in the application/research/industry domain & evolution from now to 2022 ff

New materials: good different competences to be merged for enabling new photonics

Outreach and E&T: build on experience with the involvement of new actors and addressing new targets

3. What needs to be done?

Focus on new materials for Photonics having in mind the need of industries for breakthrough innovation

Outreach towards the youngest and general public, addressing gender diversity; address industry

E&T with the involvement of industry

Pan-European approach, networking! Target Innovation Hubs



Step 3: Further describe the research or innovation topic according to the template

4. When and why should the call be launched and how much funding is needed?

R&I New materials: 2021, 8-10M€, addressing at least two different material&technology platforms

E&T-Outreach: 2021, 6 M€, two large consortia for the two targets

E&T: 2022, 4-5 M€, including development of education and training kits targeting industrial needs (university and lifelong learning)

Impact on European economy, employment: enabling action

Impact on Societal Challenges and/or megatrends and megamarkets: address gender diversity

Value of EU funding: Increase EU competitiveness through a pan-European approach, Connecting remote Regions to photonics hotspots; reduce inequalities

