



Follow-up Workshop Photonics R&I priorities for Horizon Europe work programme 2025

Photonics21 Work Group Meeting “Climate, Mobility & Energy”

5 June 2023, 14:00 – 15:30
Online

14:00	Welcome & outline of the workshop objectives	Jan-Erik Källhammer Santiago Royo Heinz Seyringer
14:15	<p>Discussion on photonics R&I topics for the upcoming Horizon Europe work programme 2025 to:</p> <ul style="list-style-type: none">• Define research topics (TRL 1-5) and innovation topics (TRL >5)• Describe the area where Horizon Europe funding is requested<ul style="list-style-type: none">• Application domains• Targeted applications• Location in the end-users Value Chain• Propose research and/or innovation topics in Horizon Europe work programme 2025<ul style="list-style-type: none">• Expected outcome• Scope• Impact on European objectives and missions• Value of EU funding	all
15:15	Wrap-up and next steps	Jan-Erik Källhammer Santiago Royo Heinz Seyringer
15:30	End of meeting	

Template for setting research and innovation priorities for Horizon Europe work programme 2025 (circulated to the WG Chairs)



Photonics Partnership
Photonics21 Research and Innovation Topics for the Horizon Europe Work
Programme 2025

WORK GROUP: X

Per work group define*

1. Research topics: Time to market ~6-10 years (TRL 1-5)
2. Innovation topics: Time to market ~3 years (TRL > 5)

**For CSA proposals see separate template*

Preamble:

To apply for EU funding for Photonics21-related CSA topics under the Horizon Europe programme, the following needs to be met:

Defining in more detail than the level of description provided in the Multiannual Strategic Roadmap the specific CSA actions which could be candidates for inclusion in the WP 2025

Prioritizing proposed CSA candidates (incl. the definition of the respective budget figures) for their inclusion in the ICT WP 2025.

The purpose of this document is therefore to request from each of the WG, specific inputs regarding items 1 and 2 above. In case one theme area requires more than one CSA - please note that separate inputs are requested for

I. Description of the area where Horizon Europe funding is requested (1 page max)

1. Area to be addressed

- Application domains (e. g. "Automotive")
- Targeted applications (e.g., "Sensors for automotive safety")
- Location in the end-user value chain (where applicable – e.g., harvesting or food processing)

II. Proposal for Research and/or Innovation Topic(s) (2-page max) in Horizon Europe WP 2025

For each Research and/or Innovation topic, please provide a few lines of description.

Please note: Innovation actions can be in the form of a pilot production line, a demonstration action, a combination of these or any other form of action.

Research and/or Innovation Topic (*the title should specify explicitly the nature of the topic, i.e., "Research" or "Innovation"*):

1. Expected Outcome:

- *What shall be reached by the projects funded (bullet points)*
- *Potential Exit criteria / Stage Gates*

2. Scope

- *Description of the topic*
- *What is in/what is out / value proposition*
- *What is/are the concrete business case(s)?*
- *Challenges (Opportunities and Risks/Road Blockers) to be addressed*
- *Collaborations with other partnership/programmes/initiatives needed*

3. Impact on European objectives and missions:

- *Contribution to the overwriting EU objectives Technological Sovereignty, Green Deal, Digital Transformation and Competitiveness*
- *What is the estimated direct market potential [market fig.]/ Impact on End user markets [market fig.]; where could be synergies with other markets*
- *How does the Value Chain look like – are the majority/essential parts in EU or abroad?*
- *How will industry leverage EU investments / spill-over effects*
- *Expectation of creating additional/new of jobs (fig.) – direct and indirect*
- *Which new job profiles will be created / needed in Europe –along all levels of jobs/hierarchies?*
- *Would there be a need for new/adopted standards and regulations?*

4. Value of EU funding

- *Budget required/requested*
- *Why should it be funded at EU level - Need for EU investment rather than national, regional or local investment?*
- *Is there a possibility for co-funding with other member states and/or other organizations?*
- *Need for international funding / cooperation*
- *What could be the share of financing requested under Horizon Europe compared to the overall investment required (only for innovation actions)?*
- *How will industry leverage EU investments / spill-over effects*

RIA / IA ACTIONS

Template for setting Coordination and Support topics for Horizon Europe work programme 2025 (circulated to the WG Chairs)



Photonics21
Coordination and Support Actions (CSA) Topics
for the Horizon Europe Work Programme 2025

CSA ACTIONS

Preamble:

To apply for EU funding for Photonics21-related CSA topics under the Horizon Europe programme, the following needs to be met:

1. Defining in more detail than the level of description provided in the Multiannual Strategic Roadmap the specific CSA actions which could be candidates for inclusion in the WP 2025
2. Prioritizing proposed CSA candidates (incl. the definition of the respective budget figures) for their inclusion in the ICT WP 2025.

The purpose of this document is therefore to request from each of the WG, specific inputs regarding items 1 and 2 above. In case one theme area requires more than one CSA - please note that separate inputs are requested for

Description of the CSA (Area & Need, Scope, Outcome, Impact, Value of EU funding)

1. Area (Work Group-, Market-, Research-, Cross Cutting Items) to be addressed by the CSA
2. What is the challenge/market gap that requires an EU funded CSA Action?
3. What would be the participants and the target group(s) of the CSA – who needs to be involved / who should be addressed?
4. What shall be reached in the CSA in concrete terms? What should be the Outcome
5. What are the Exit / Sunset-clauses to end the CSA?
6. What is the expected impact on European main objectives and missions?
 - Green Deal / Climate
 - Technological Sovereignty
 - Digital Transformation
 - Competitiveness of European economy (Growth and Jobs)
7. What is the specific EU added value: Why should it be funded at EU level rather than national or local level or by private organizations?
8. Can there be a co-funding by member states, regions or local authorities / can there be an overlap with other budgets (e.g., structural funds, cohesions funds)?
9. Requested funding – Duration of the CSA - Starting Date