



Photronics21 Strategic Multiannual Roadmap – Proposed timeline

Until mid-July 2018:	<p>Follow-up Photronics21 workshops if needed</p> <p>We kindly ask you to let us know by mid-May if you plan a further workshop.</p>
End of August 2018:	<p>First draft of the introduction chapter provided by the Photronics21 Secretariat, circulation for feedback</p> <p>First draft of the Work Group chapters, circulation to Photronics21 Work Groups for feedback</p>
End of September 2018:	<p>Second draft of the Work Group Chapters, circulation to the Board of Stakeholders</p>
Until November 2018:	<p>Provide good photos of photonics application areas to the Photronics21 Secretariat which will be used to illustrate the Strategic Multiannual Roadmap</p> <p><i>(Official template for the publication & copyright of photos will be provided)</i></p>
End of October 2018:	<p>Final draft of the Photronics21 Strategic Multiannual Roadmap</p> <p>Circulation to the Board of Stakeholders (BoS) in preparation of the BoS meeting</p>
November 2018:	<p>BoS meeting and final approval of the Photronics21 Strategic Multiannual Roadmap</p>
December 2018 and January 2019:	<p>Final editing & layout of the Strategic Multiannual Roadmap</p>
Spring 2019:	<p>Publication of the Photronics21 Strategic Multiannual Roadmap alongside the Photronics PPP Annual Meeting 2019</p>

Photonics21 Strategic Multiannual Roadmap 2021-2028

1. Executive Summary

2. Introduction

- **Objectives and Missions**

- i. Challenges and Missions addressed incl. overview table:
missions / markets addressed by Ph21 work group

- **Photonics Ecosystem in Europe**

- i. Photonics21/Cluster/National Technology Platforms
- ii. Photonics Digital Innovation Hubs

3. Unleash the innovation potential of Digital Technologies

- i. Leaving the technology silo - key to speed up innovation pace
– examples of cross sectoral cooperation addressing megamarkets
- ii. Improve boundary conditions– better link up R&I policy with other EU policies addressing societal challenges and markets
- iii. Eye level Partnership needed for successful implementation of industrial strategy

4. Expected impact for Europe

- i. Key Performance Indicators to measure success

5. Photonics Research and Innovation Challenges

Proposed structure per work group chapter:

Work Groups

1. Information & Communication
2. Industrial Manufacturing & Quality
3. Life Sciences & Health
4. Emerging Lighting, Electronics & Displays
5. Security, Metrology and Sensors
6. Design and Manufacturing of Components and Systems
7. Photonics Research, Education and Training

(+ two additional application areas)

8. Automotive & Transport
 9. Agriculture & Food
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- **Main socio-economic challenges addressed** (≈1 page)

This part should briefly describe the most relevant missions of the Photonics21 vision document and markets to be addressed by the work group's technical field

- **Major photonics research & innovation challenges** (≈2 pages)

Based on the identified missions this section should describe the major photonics research & innovation challenges which will contribute to address the adjunct markets.

- **Cooperation needs with other disciplines or fields** (≈0.5-1 page)

This section should mention any relevant cooperation partners to successfully reach the identified missions.

- **Roadmap for 2021 – 2028** (≈1-3 pages)

This part should be structured in form of a table, see the draft table on the following page.

Proposed template roadmap table (~1-3 pages)

Proposed roadmap for 2021 - 2028

	2021	2022/2023	2024/2025	2026/2027	2028
Overview Technology Challenges					
Critical milestones to move from Science to Market					
Photonics Research (R) & Innovation (I) Challenges					
Joint actions required with other disciplines (e.g. Artificial Intelligence) or fields (e.g. robotics)					