Advanced integrated photonic devices for extended features and ultra-low power consumption (RIA) (Photonics Partnership)

Horizon Europe

PENDING

Code
HORIZON-CL4-2027-05-DIGITAL-EMERGING-03

Scope
International

Location
Europe

Curator
Marlene Faria

FINANCIAL DETAILS

Support type
Non-Refundable

Maximum Funding Rate
100%

Budget
25M€

Eligible Project Value
Up to 5M€

Maximum Duration
48 months

DATES & DEADLINES

Publication Date
June 15, 2026

Opening Date
November 17, 2026

Fase única
March 18, 2027 at 05:00 PM GMT+1

DESCRIPTION

Objectives

This Horizon Europe Research and Innovation Action (RIA) , implemented under the Photonics Partnership , aims to advance the development of next-generation integrated photonic devices and circuits with enhanced functionality, superior performance and ultra-low power consumption. The call seeks to strengthen Europe's leadership in photonics by enabling the wider deployment of photonic technologies across strategic sectors such as digital technologies, industry, automotive, healthcare and security. Projects are expected to improve the performance of electro-optic systems while reducing energy consumption and increasing the competitiveness of the European photonics ecosystem.

Funding

The topic is funded as a Horizon Europe Research and Innovation Action (RIA) with an indicative budget of €25 million . The call follows a single-stage submission process , opening on 17 November 2026 and closing on 18 March 2027 . Funding supports collaborative research projects capable of delivering breakthrough advances in integrated photonics and low-power electro-optic technologies.

ELIGIBLE EXPENSES

- Personnel Costs
- Travel and Subsistence costs
- Equipment costs
- Other goods, works and services costs
- Subcontracting
- Indirect Costs

ELIGIBILITY

Application Mode
Consortium / Copromotion

Action Types
Research and Innovation Actions

Eligible Sectors

- ICT & Software
- Industry

Company Typologies

- Micro
- SME
- Small Mid-Cap
- Mid-Cap
- Large
- Public entities

EU PROGRAMME DETAILS

Call ID
HORIZON-CL4-2027-05-DIGITAL-EMERGING-03

Cluster
Digital, Industry and Space (Cluster 4)

Destination
D3. Achieving open strategic autonomy in digital and emerging enabling technologies

Submission Mode
Single-stage

EU Contribution
Around €3,000,000.00 to €5,000,000.00 per project

Expected Projects
6

Funding Rate Rule
Up to 100% of eligible costs for Research and Innovation Actions (RIA)

OFFICIAL LINKS

Official Regulation
https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZON-CL4-2027-05-DIGITAL-EMERGING-03?order=DESC&pageNumber=1&pageSize=50&sortBy=relevance&keywords=HORIZON-CL4-2027-05-DIGITAL%20EMERGING-03&isExactMatch=true

Grantavia page
https://grantavia.com/en/incentives/advanced-integrated-photonic-devices-for-extended-features-and-ultra-low-power-consumption-ria-photonics-partnership

Schedule a meeting
https://calendly.com/filipa-silva-epsa/reuniao