

# **Italian partners co-package 2 5G photonics**





## Italian partners co-package 2 5G photonics

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### This is the title slide

Silicon Photonics Has Become An Industrial Reality  
Chip Volume Increase CPO = Co-Packaged Optics  
Link distance

### State aid: Commission approves EUR2 billion Italian scheme under the

Brussels, 25 April 2022 The European Commission has approved, under EU State aid rules, a EUR2 billion Italian scheme made available through the Recovery and Resilience Facility ('RRF') to roll out high

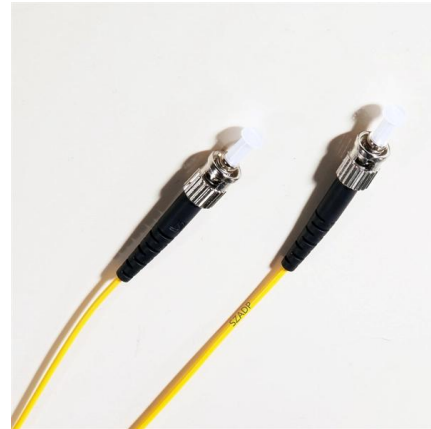


### 2D Photonics unit secures EUR211M EU-approved Italian grant

The facility is scheduled to become operational in 2028 and is expected to create over 150 jobs in photonics engineering, materials science and semiconductor manufacturing.

### Why Co-Packaged Optics Are a Game Changer , RealIZM

Nevertheless, the most mature technology for such co-packaged solutions is still silicon photonics as an interposer. What is your opinion about the general



### **Integrating silicon photonics with complementary metal-oxide**

Complementary metal-oxide-semiconductor-integrated silicon photonics offers a practical path forward by combining high-volume manufacturing with mature photonic building blocks.



### **Italy Gives EUR211 Million to Data Center Tech Firm 2D Photonics**

Italy awarded a EUR211 million (\$249 million) grant to a company seeking to speed up processing at artificial intelligence data centers as part of a bid to support local startups.



### **2D Photonics subsidiary granted EUR211 million in EC-approved state aid**

CamGraPhIC, the wholly owned subsidiary and research arm of 2D Photonics, is tackling this problem head-on with graphene-based optical input/output (Optical I/O) technology that replaces





## NATO Innovation Fund invests in CamGraPhIC to

In line with the NATO Innovation Fund's goal to boost the deep tech innovation ecosystem across the 24 nations backing us, CamGraPhIC Srl will use



## NVIDIA Announces Spectrum-X Photonics, Co

NVIDIA today unveiled NVIDIA Spectrum-X(TM) and NVIDIA Quantum-X silicon photonics networking switches, which enable AI factories to connect

## Graphene research, innovation and collaboration , Graphene Flagship

Graphene photonics for the 5G era is one of the Graphene Flagship's six introductory Spearhead Projects that are now coming to an end, enabling further discovery and industrial application beyond

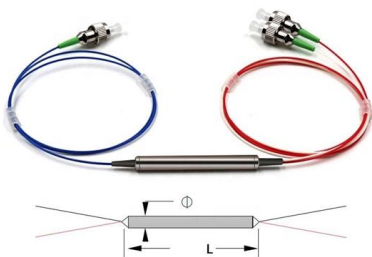


## \$SIVE 2025 annual report analysis. TLDR: Extremely Bullish. Sivers

TLDR: -> Win Semi implied capacity lock in during CW laser bottleneck -> Hints of new group of hyperscaler suppliers testing/qualification for pluggable transceivers, which is massive TAM



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Mon Sep 17 00:00:00 2001 From: Dong Yuwei  
Date: Sat, 18 Nov 2023 21:42:03 +0800 Subject:  
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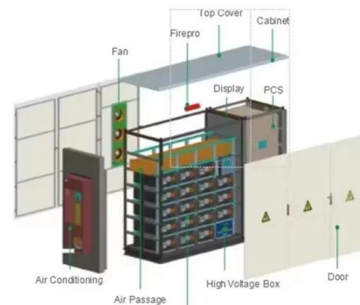


### 2D Photonics

2D Photonics , 2.686 follower su LinkedIn.  
Revolutionising AI and Data Transfer with Ultra-Efficient Graphene Photonics , We develop ultra-high bandwidth, low latency optical interconnect transceivers

### Testing Strategies for Next-Generation Optical Interconnects: Co

W H I T E P A P E R This paper discusses industry trends in Integrated Photonics and how market participants are adapting to test and mass produce next-generation optical interconnects in a cost



### Italian deep tech firm gets EUR211M for graphene optical chips

CamGraPhIC, a deep-tech firm, secured EUR211 million in Italian state aid to scale its graphene-based photonics technology, a move aimed at breaking the data-transfer bottleneck that



## Silicon Photonics Networking for Agentic AI , NVIDIA

NVIDIA co-packaged optics with silicon photonics deliver 5x power efficiency and 10x resiliency, enabling scalable, high-performance networking for agentic AI.



## Commission approves EUR211 million Italian State aid measure to

The European Commission has approved, under EU State aid rules, a EUR211 million Italian measure to support the development of photonic optical transceivers based on graphene by

## NVIDIA Corporation

1.6 Terabits Per Second Per Port Switches to Deliver 3.5x Energy Savings and 10x Resilience in AI Factories Joint Inventions and Collaborations



## CamGraphic secures EUR25 million in a Series A funding

2D Photonics SpA, a new company established to own and manage CamGraPhIC's activities in the UK and Italy, that it has raised EUR25 million in a



### The Italian deeptech making graphene-based optical chips gets

CamGraPhIC, the graphene photonics subsidiary of 2D Photonics, has received European Commission approval for EUR211 million in Italian state aid funding under the EU's State Aid



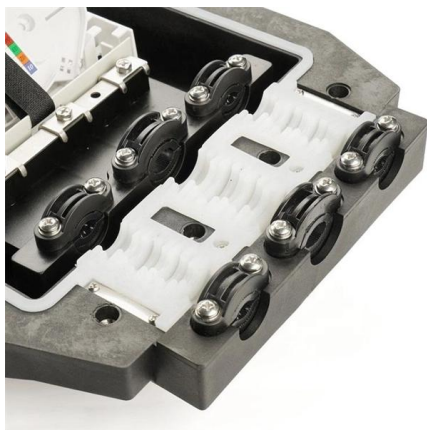
### CamGraPhIC secures a €25 million in Series A funding

Frontier IP, a specialist in commercialising intellectual property, today notes the following announcement from 2D Photonics SpA (the "Company"), a new company established to own and manage



### Commission approves EUR 211 million Italian State aid measure to

They are expected to improve the device's performance and efficiency. The project will take place in Pisa and Bergamo and involve collaboration with universities and research



### 2D Photonics group company approved for EUR211m grant

Graphene-based optical I/O to overcome AI data bottlenecks. 2D Photonics scales bandwidth density while reducing energy consumption for future computing.



### The Italian deeptech making graphene-based optical chips gets

CamGraPhIC, subsidiary of 2D Photonics, gets EU-approved EUR211M Italian grant to industrialise graphene-based optical interconnects for AI.



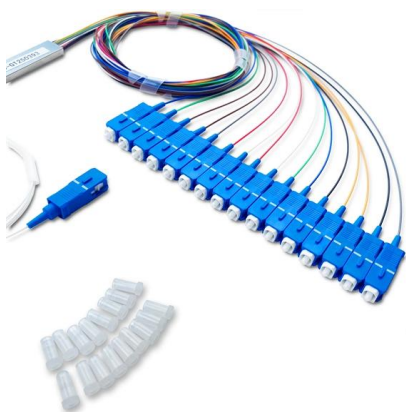
### Photonics for 5G

Silicon photonics is a key technology to satisfy the demanding challenges of next 5G networks: high bandwidth, low power consumption, small footprint. Silicon photonics optical interfaces have already



### 2D Photonics group company approved for EUR211m grant

By moving beyond the limits of traditional silicon and integrating graphene into next-generation photonic circuits, 2D Photonics delivers simplified designs with superior bandwidth



### Italian govt backs 2D Photonics with EUR 211 mln grant to boost AI

Italian startup 2D Photonics Group has secured approval from the European Commission for a EUR 211 million grant from the Italian state to develop graphene-based optical technology



## Scaling AI Factories with Co-Packaged Optics for Better

By eliminating bottlenecks of traditional electrical and pluggable architectures, these co-packaged optics systems deliver the performance, power



## Photonics Partnership , Photonics21

The purpose of the Association is to enter into the Memorandum of Understanding for the Co-programmed European Partnership for Photonics in Horizon Europe.

## Photonics PPP Services to European SMEs

Outreach to entrepreneurs included innovation workshops together with guidelines for open innovation in photonics, a European photonics start-up challenge, photonics investment events, boot camps and a



## Contact Us

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