To Photonics21 Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate VIGO Photonics / Adam Piotrowski.

- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2025

Photonics21 Board of Stakeholders - Letter of Nomination

1. **Full legal name of the affiliation nominated as BoS Member (candidate's organisation):**

   VIGO Photonics S.A.

2. **Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address** *(In accordance with the Terms of Reference §5, which the Affiliation acknowledges having received, an Annual Service fee will be invoiced every year during the first quarter to the BoS Member. By signing the present letter, the BoS candidate agrees to pay this Membership Fee. The Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12b).)*

   Ul. Poznańska 129/133
   Ożarów Mazowiecki
   Poland

3. **Name of the suggested BoS Representative (the personal candidate)**

   Adam Piotrowski

4. **Information about the BoS candidate and the BoS representative**

a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidate's organisation) will bring to the BoS[1]

As a pioneer in infrared detector technology and a key representative of the SME sector in Central and Eastern Europe, VIGO Photonics will bring to the Board of Stakeholders unique experience in commercializing advanced technologies and will be a strong voice for the companies driving innovation in the European photonics industry. Established in 1987, following development of unique and innovative IR detectors operating without cryocooling, the company has ever pursued technological excellence and commercial success. Its breakthrough innovation has contributed to introduction of new sensing techniques outside of R&D laboratories, leading to novel applications in industry, environmental or medicine. For the last 30 years VIGO Photonics has been developing better, faster and more sensitive detectors, contributing to success of its many customers and helping introducing new sensor products to the global market, including emissions monitoring, detection of explosives and hazardous substances, industrial processes control or breath analysers. VIGO detectors on board of NASA Mars Curiosity rover, as well as on European Space Agency ExoMars mission, are paramount examples of VIGO Photonics technological superiority.

VIGO has extensive experience in integrating infrared optoelectronic technologies, including:

- Epitaxial growth of complex HgCdTe and III-V structures.

[1] The candidate is aware and accepts that according to the Photonics21 Terms of Reference (§ 5 (10) a member ship fee - as determined by the General Assembly of the Association - needs to be paid to the Photonics21 association.

- Photolithography-assisted processing of IR devices.
- Monolithic integration of micro-optics with IR sensors.
- Integration of sensors with Peltier coolers and device packaging.
- In-house design, development, and fabrication of electronics integrated with detectors and lasers

The key to VIGO Photonics commercial success and technological prowess has always been excellent co-operation with both the academic world, as well as other companies. Since many years we have been building strong relation with academic society - i.a. Fraunhofer Institute, Princeton University, Rice University, University of Western Australia, Military University of Technology in Warsaw, Warsaw University of Technology and Institute of Electron Technology. Several joint projects on development of HgCdTe, graphene and type II SL detectors have been implemented. Vigo is also collaborating with European community on mid IR sensors and epitaxial wafers. We have contributed to many projects in FP7, H2020 and Horizon Europe.

Effective co-operation with VIGO Photonics technology partners and customers, many of whom are small and medium-sized companies, being foundation of European photonics market, is another reason of the Company development for the last 30 years. As a fairly small organization, which is typical for this high-tech market, VIGO Photonics has always sought innovative methods to meet customers satisfaction. The company's key competitive advantages are its flexibility and ability to manufacture highly customized wafers and devices. Moreover VIGO Photonics is able to combine its efforts together with producers of complementary components (QCL lasers, laser drivers, optics) to help its customers in faster development of new products, thus reducing time from conception to commercialization. Currently it employs more than 220 technicians and engineers, many of whom with PhD degrees. Since November 2014 it has been listed on Warsaw Stock Exchange and since than it has multiplied its market capitalization.

The Company is currently undertaking major investment programme, including development of a next generation of fast and convenient MWIR detectors, as well as new production capacity and manufacturing technology especially in the area of Mid Infrared Photonic Inte-grated Circuits (PICs) under HyperPIC project within IPCEI programme. The ultimate goal of this programme is to substantially lower the price of mid IR components, thus contributing to broaden the possible application of photonics technologies in industry, life science and health (such as exhaust emissions monitoring or non-invasive screening methods based on infrared techniques).

VIGO Photonics is an active member of Photonics21 society. As a member of the Board of Stakeholders, VIGO Photonics will actively support and represent the interests of small and medium-sized enterprises, which are the foundation of the European photonics industry. We will share our proven models for effective collaboration between science and industry, providing blueprints for other emerging technology pioneers in Europe.

b) Description of the activities and information about expected contribution and value added the BoS Representative (candidate / person) will bring to the BoS.

Education. Dr Adam Piotrowski graduated from the Warsaw University of Technology in 2002 with a master's degree in electronics engineering. In 2008 he received a Ph.D. degree in technical sciences at the Military University of Technology.

Professional. Dr Adam Piotrowski has been working at VIGO Photonics S.A. since 2002, climbing from the entry-level engineer up to the position of the Chief Executive Officer. His notably professional achievements has been i.a. development of MOCVD based MCT growth technology, introduction of several new products to the market as well as creation of new strategy for the company in 2016. He is also author of many publications on methods of manufacturing and applications of infrared detectors. His current goal is to upscale the production of the mid-IR infrared components, decrease the cost of components and enable introduction of new technologies. Dr Piotrowski has been leading Vigo works in several national and European research projects. He has also taken a role of a leader in multiple internal development projects having full hands-on laboratory, simulation or testing roles. He has been working with Vigo customers on multiple troubleshooting and brainstorming sessions to analyse cur-rent status, create new systems or establish directions for future development of mid-IR sensors.

Service for the community. Besides professional and scientific career dr Adam Piotrowski has played a key role in bringing together various Polish scientific institutions and enterprises and forming common platform for co-operation for the Polish photonic industry. Dr Piotrowski was one of the initiators of establishing of the Polish Technological Platform of Photonics and its Vice-chairman in the years 2015-2017. In 2017 the PPTF was transformed into a union of employers, becoming an official partner for dialogue between the government and the photonics industry, and dr Piotrowski was elected Chairman of the PPTF. In 2017 he was chosen by Polish Minister of Development as a member of Scientific Council of Institute of Electron Technology in Warsaw. He is also acting member of board of directors and part of investment committee in VIGO WE Innovation - a financial vehicle established to help in introduction of new photonics related technologies to the market. Since 2021, Adam Piotrowski is also a member of the Board of European Photonics Industry Association (EPIC) and member of Strategic Advisory Board to European Commission for Quantum Technologies and member of Supervisory Board for company listed on Warsaw Stock Exchange: Creotech Instruments. He was also a member of High Level Group for mid term review of Horizon Europe.

As a BoS representative dr Adam Piotrowski will contribute at such areas:

- **Technical Expertise:** Leveraging his extensive experience, Dr. Piotrowski will significantly contribute to the work carried out within the area of sensors and their applications, which will be critical when defining priorities and making decisions on EU and PPP funding.
- **SME Representation:** With his deep knowledge of the challenges and prospects of SMEs in the European photonics market, he will be an effective advocate for these companies, which are indispensable to the market's growth and development.

- **Regional Integration:** Dr. Piotrowski will actively work to bring together stakeholders from the rapidly developing regions of Central and Eastern Europe, adding significant value and a broader perspective to the work of Photonics21.VIGO Photonics is offering a mixture of civilian, dual use and military applications. We would like to promote a scheme to use solutions developed for industry and consumer markets for defence and safety applications.
- **Civilian-Defense Synergy:** Drawing on VIGO's experience with civilian, dual-use, and military applications, Dr. Piotrowski will promote a scheme to use solutions developed for industry and consumer markets for defense and safety applications, thereby strengthening Europe's strategic capabilities.