



To Photonics21 Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate
SCANLAB GmbH / Holger Schlüter

**- 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):

SCANLAB GmbH

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).)*

Siemensstrasse 2a
82178 Puchheim
Germany

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

Dr. Holger Schlüter

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 BoS¹

SCANLAB GmbH is a global leader in the development and production of high-precision laser beam deflection systems. With over 30 years of experience, the company plays a critical role in enabling advanced laser applications across industries such as electronics, additive manufacturing, medical technology, automotive, and semiconductor processing.

SCANLAB's core activities include:

- **Design and manufacturing of galvanometer-based scan heads**, control electronics, and software for laser beam steering.
- **Development of high-speed, high-accuracy solutions** for industrial laser processing, including 2D and 3D scanning systems.
- **Integration of smart technologies** to support digital manufacturing and Industry 4.0 environments.
- **Collaboration with OEMs, integrators, and research institutions** to co-develop next-generation laser systems.

As a nominated member of the BoS, SCANLAB GmbH is expected to contribute:

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

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- **Technological expertise** in beam deflection systems, which are essential components in nearly all laser-based manufacturing processes.
- **Insight into industrial needs and application trends**, based on its global customer base and cross-sector experience.
- **Support for innovation and standardization**, drawing from its active participation in European R&D projects and industry consortia.
- **Commitment to sustainability and digital transformation**, helping shape future-ready photonics solutions.
- **Strategic perspective on enabling technologies**, ensuring that component-level innovation is aligned with system-level and market-level developments.

SCANLAB's involvement will help ensure that the BoS benefits from the perspective of a key enabling technology provider, contributing to the advancement of European photonics leadership through precision, innovation, and collaboration.

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

Dr. Holger Schlüter is a seasoned expert in industrial laser technology with over 35 years of experience spanning research, development, and executive leadership. His career trajectory reflects a deep commitment to advancing laser-based technologies across multiple industries and continents.

After earning his PhD from RWTH Aachen in 1996 with a dissertation on laser surface ablation—a work that led to a patent and the founding of CLEAN Lasersysteme—Dr. Schlüter joined TRUMPF, where he played a pivotal role in the development of high-power laser systems. His contributions included:

- Leading the development of **diffusion-cooled coaxial CO₂ lasers**, which remain in use today for via-hole drilling applications and play a pivotal role in the generation of the ignition laser system of modern EUV lithography systems.
- Overseeing the **manufacturing of 4-kW Nd:YAG lasers** for automotive body welding.
- Driving innovation in **high-power diode lasers**, including 60-W 937-nm lasers for solid-state laser pumping.

He held several leadership roles at TRUMPF, including **General Manager of TRUMPF Photonics** in Cranbury, NJ, and **Vice President of TRUMPF Inc.** in Farmington, CT, where he managed development, production, sales, and service of high-power lasers in North America.

Following his tenure at TRUMPF, Dr. Schlüter served as **COO and CTO of Technolas Perfect Vision GmbH**, a company specializing in ophthalmological surgical laser systems for LASIK and cataract procedures. He later became **Managing Director of HIGHYAG Laser Technology GmbH**, a subsidiary of II-VI Inc., focusing on laser materials processing.

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Since 2015, Dr. Schlüter has led **Business Development at SCANLAB GmbH**, the global leader in laser beam deflection systems. In this role, he has been instrumental in identifying emerging markets, guiding strategic partnerships, and shaping the company's innovation roadmap.

Dr. Schlüter's expected contributions to the BoS include:

- **Strategic foresight** into industrial laser applications and market trends.
- **Technical expertise** in laser system design, manufacturing, and integration.
- **Leadership in innovation**, with a track record of translating research into commercial success.
- **Global perspective**, having worked extensively in Europe and the U.S.
- **Strong industry network**, enabling cross-sector collaboration and knowledge exchange.

Representing SCANLAB GmbH, Dr. Schlüter brings the voice of a key enabling technology provider to the BoS. SCANLAB's systems are foundational to a wide range of laser-based manufacturing processes, and its commitment to precision and innovation aligns closely with the BoS's mission to advance European photonics leadership.