



Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate (organization) / representative (person).

**- Letter of Nomination -  
Photonics21 Board of Stakeholders  
Election 2018**

## Photonics21 Board of Stakeholders - Letter of Nomination

*§ 5 BOARD OF STAKEHOLDERS (6) b....A candidate nomination will always contain the name of the candidate organisation together with its proposed BoS Representative, and voting on a candidate implies voting on this combination.*

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

Inuru GmbH

### **2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address (in case the candidate is elected, the affiliation needs to pay an annual service fee according the Photonics21 Terms of Reference §5 (10)):**

Inuru GmbH  
Johann-Hittorf-Strasse 8  
1289 Berlin Germany

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

Patrick Andreas Barkowski

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

*Extract Photonics21 Terms of Reference<sup>1</sup>: “§ 5 BOARD OF STAKEHOLDERS; ...(6) Election of BoS Members: “Description of the activities of, and information about the added value and contribution to the BoS by both the nominated BoS member and the BoS Representative”*

#### **a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidates organization) will bring to the BoS<sup>2</sup>**

Inuru revolutionizes brand communication by bringing light on packaging, labels and ads. The patented technology that allows the incorporation of these functionalities in packaging materials - like folding boxes and labels - is paper-thin, flexible and can be applied like standard paper or labels.

The core technology, a printed light emitting diode, is based on proprietary advanced materials inks that allow to print organic light emitting diodes. The inks are compatible with standard industry printing equipment and can be processed under normal atmospheric conditions. No vacuum processing is needed which significantly cuts the cost for infrastructure invest-

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<sup>1</sup> Photonics21 Terms of reference are available at [https://www.photonics21.org/download/about-us/structure/ETP\\_Photonics21\\_Terms\\_of\\_Reference\\_C3.pdf?m=1513688127&m=1499877714](https://www.photonics21.org/download/about-us/structure/ETP_Photonics21_Terms_of_Reference_C3.pdf?m=1513688127&m=1499877714)

<sup>2</sup> The candidate is aware and accepts that according to the Photonics21 Terms of Reference a service agreement and a service fee invoice is to be signed / paid with the Photonics21 association.

## Photonics21 Board of Stakeholders - Letter of Nomination

ment and results in costs for the whole system that are comparable with standard packaging in the near future. The core IP relies on special material combinations, process know how and ink formulations.

Inuru thereby also takes care of marketing the technology by promoting the application in packaging and marketing materials. The company works together with major players from the industry on a global scale. Its efforts have received critical acclaim and have been awarded with four major industry awards: German Packaging Award 2017, German Design Award 2018, German Innovation Award 2018, Promotional Gift Award 2018.

Inuru was established after 4 years of development in 2016 as a limited liability company in Berlin. It is located in one of Europe most vibrant technology parks in Adlershof. The company has a deep and successful cooperation with the Prof. Norbert Koch and Prof. Emil-List Kratochvil from the Humboldt Universities. Inuru started its core development with a project funded by the German Ministry for Technology and Innovation (BMWi). The project grant is called Exist Forschungstransfer and is only given to projects that show excellence in science and business. The company was founded and developed by Patrick Barkowski (CTO) and Marcin Ratajczak (CEO) and today is backed amongst other by Techstars, a top tier early stage venture capital company.

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

Patrick Barkowski is an expert in the topic of upscaling lab-scale technology into mass production of products containing this technology. He has profound knowledge about printed electronics and is a core expert in the field of printed organic light emitting diodes. Based on his knowledge which he started acquiring 2008 as a graduate student in the field of organic electronics by studying doping effects in solution processed organic semiconductors, he managed to utilize the experience in developing fully multilayer printed organic light emitting diodes in the company Inuru GmbH he founded with his friend Marcin Ratajczak in 2016. He combines advanced material expertise into usable products for industry tackling usual problems like stable supply chain and material quality, machinery and necessary infrastructure, quality management and documentation in the field of optoelectronic devices.

He is the project leader in the international german-japanese collaboration project ORIGAMI funded by the german ministry of education and science, in which current technologies in flexible electronics are being brought together to develop the packaging of the future.

The experience by which Patrick Andreas Barkowski has established a running industry process of printed organic light emitting diodes, starting from scratch materials, will be mostly

## Photonics21 Board of Stakeholders - Letter of Nomination

helpful to identify future hurdles in establishing any lab-to-industry production and upscaling of photonic technologies.

### *Final information from the Photonics21 secretariat:*

- *We recommend limiting the BoS nomination letter to 3-4 pages max.*
- *Letters of nominations should be either submitted via the Photonics21 website*

<https://www.photonics21.org/bos-election/index.php>

or via e-mail to [secretariat@photonics21.org](mailto:secretariat@photonics21.org).

- *It is highly recommended to consult the Photonics21 Terms of Reference before submitting the nomination.*
- *Please note that the deadline for providing BoS nominations to the Photonics21 Secretariat is the **21<sup>st</sup> September 2018.***