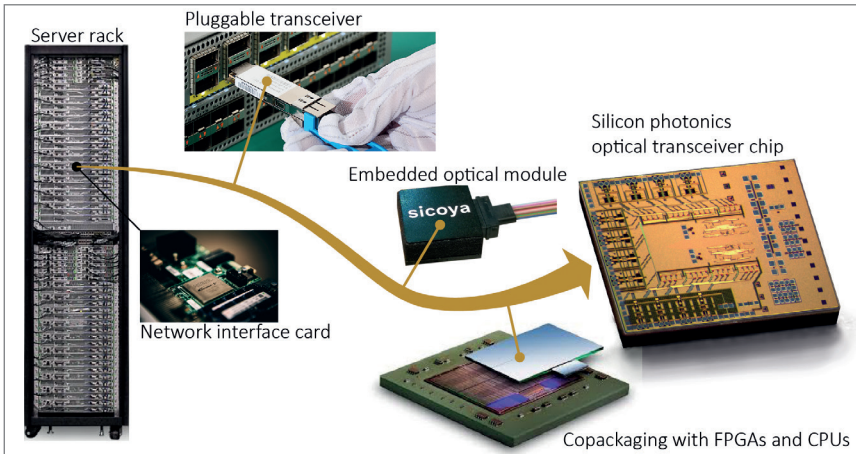




**Start Up
Energy Transition
Award**

Start Up Energy Transition Award – The nominated companies



Sicoya

- **Founded:** 2015 in Berlin, Germany
- **Founders:** Dr. Sven Otte, Dr. Stefan Meister, Dr. Hanjo Rhee, Dr. Christoph Theiss, Dr. Marco Vitali
- **Product:** Low cost, power efficient and scalable optical transceiver chips for server interconnects.
- **Website:** www.sicoya.com

sicoya

The idea

Annual global IP traffic is expected to exceed the Zettabyte threshold in 2017 and will continue to grow by 20 % CAGR in the next coming years. A lot of internet technologies will lead to a lot of energy consumption and all of this data has to be connected within data centers. The challenge is to lower the energy consumption in the big data centers.

- Sicoya designs, packages and sells silicon photonics based application specific photonic integrated circuits (ASPICs) for low cost optical data center interconnects with superior performance.
- Sicoya's advanced data center solutions are based on the co-integration of ultra-small optical modulators and detectors with electrical drivers and amplifiers into one single chip.

Sicoya and its foundry IHP microelectronics fabricating cointegrated transceiver chips using a so-called SiGe-BiCMOS process enabling Sicoya to realize the integrated designs with both the analog electronics and the optics on the same silicon chip with lithographic precision. This approach enables a variety of customer segments and individualized applications for the end user. This leads to a drastic reduction of the amount of assembly steps for the packaging. This allows for significant cost degression effects for data centers and energy consumption worldwide.

Award Category: Future Production and Manufacturing

The Internet of things will mean plenty of new services and enable opportunities for smart technical infrastructure that saves energy and harnesses fluctuating energy generation levels.

Dr. Sven Otte

CEO and co-founder

“ Sicoya offers a disruptive change with silicon photonics and our packaging concept. After ten years of development we are very excited to bring first products to the market. Our transceiver chips will be sold in a business-to-business relationship to only a few big customers. This is following a demand driven “build to order” approach to customized chip designs. ”

The Award

The Start Up Energy Transition Award is the international competition for start-ups and young companies worldwide, who are working on ideas affecting global energy transition and climate change. For the 2017 edition, more than 500 candidates from 66 countries applied for the six different categories. The Start Up Energy Transition is an initiative launched by the the Deutsche Energie-Agentur – the German Energy Agency (dena).

Platinum Sponsors



Gold Sponsors



Silver Sponsors



Powered by



国家电网
STATE GRID

驻欧洲办事处
EUROPEAN REPRESENTATIVE OFFICE