PHOTONICS PUBLIC PRIVATE PARTNERSHIP

PHOTONICS 21

European Commission

Innovation hub with photonics competencies ACTPHAST

One-Stop-Shop
for
Supporting European Companies
driven by
their Photonics Innovation Needs

especially adapted to the needs of SMEs

What is it?

- a **single stop shop**
- dedicated to **photonics** and **non-photonics** European **SME's**
- to **support** them with **photonics solutions and innovation**
- driven by their **business needs**

What is it aiming for?

- boosting the competitiveness of **European SME's**
- in a variety of industry sectors
- by **co-innovation** of **new photonics-enhanced products**
- With a focus on creating **new jobs** and **increased revenues**
- to enable **growth and durability**

How does it work ?

OUTREACH

*A European **outreach team** of professional business developers informs thousands of companies from different industry sectors about the innovation opportunities that photonics has to offer and how ACTPHAST can help.*

***Regional clusters** are facilitators in this process.*

QUALIFICATION AND SUPPORT

*A **single central contact office** handles the incoming support requests.*

***Scouts** visits the companies to discuss the innovation challenges*

*Expert teams are appointed to prepare **project proposals** for support*

*Project proposals are **evaluated** with a focus on potential impact*

*Companies receive **photonics innovation support by the best experts** and the **best technologieS***

IMPACT

***Ex-ante and ex-post impacts are measured**, based on the companies' business plans.*

Creation of EU jobs, increase of new revenues, and growth in venture capital funding are key performance indicators

Achieved results after 28 months

- *55 innovation projects in 12 EU countries*

- *58 % of these companies receive EU support for the first time*

- *25 % of these companies use photonics innovation for the first time*

- *average cost per project is 110k€ of which 45k€ ACTPHAST funding*

- *R&I expenditure leverage factor is 2,5*

- *Companies very satisfied with ACTPHAST support (average score 80/100)*

- *10 of the 55 projects target 21,3 million € of additional VC funding*

- *45 of the 55 projects target 184 million € new revenues in the next 5 years*

- *together the 55 companies expect to create 560 new EU jobs in the next 5 years*

First success stories: 1 company creates 5 new EU jobs

SKYLANE optics

optical transceivers

POF RCLED transceivers for FTTH

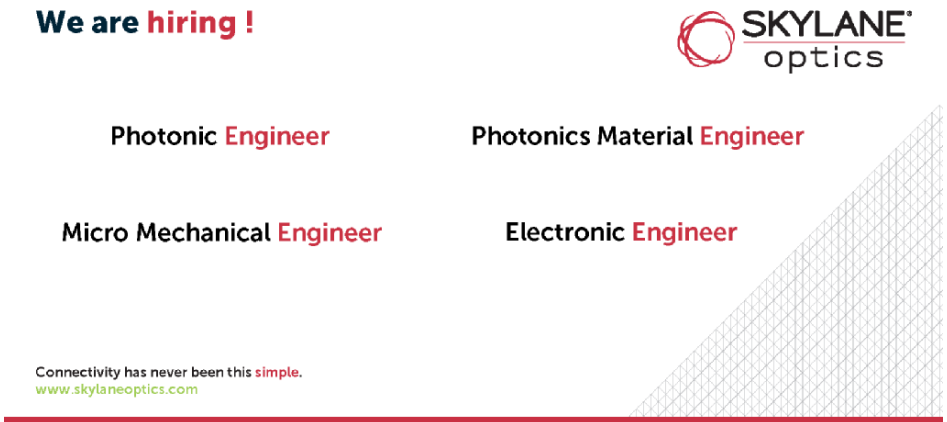
VUB
KIT
VTT

SKYLANE optics

Skylane Optics We are hiring !

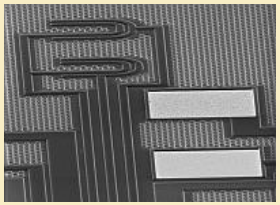
Telecom Engineer

Skylane Optics is working on a state-of-the-art GPON product and looking for an engineer with multiple competences: A Telecom Engineer to develop and support a GPON product. Qualifications Bachelor or master in Information Technology or Telecom....

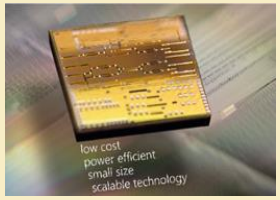


First success stories: 1 company €3.5 m VC funding

sicoya



Silicon-based Data transmitters



surface emitting DFB lasers for Si

HHI

09 Nov 2015

Target Partners invests €3.5 million in Sicoya

Silicon photonics based integrated microchips enable data centers to manage the explosive growth of Internet traffic

Munich/Berlin, November 9, 2015: Munich-based venture capital firm Target Partners (www.targetpartners.de) today announced a €3.5 million Series A investment in Sicoya GmbH (www.sicoya.de) based in Berlin. Sicoya develops integrated silicon photonics based microchips for optical interconnects. Mobile devices, social networking, cloud computing and other applications like virtual reality technologies all require scalable data centers to keep pace with the ever-increasing demand for fast, reliable and cost-effective data interconnects.

Sicoya's unique product solutions comprise novel patented modulator concepts and co-integration of ultra-small optical and electrical circuits into one single chip. This next generation technology is ideally suited to allow scalable, reliable and power efficient data interconnects outperforming legacy copper based solutions and first generation optical transceivers.

Sicoya is planning to increase the financing round together with further investors and public funding sources to at least €5 million in equity and R&D financing on top. This infusion of capital will go towards product development and the expansion of global sales activities.

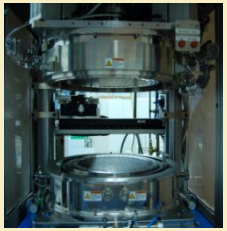
PHOTONICS 21

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

First success stories: EU Jobs

LAMBDA-X
ADVANCED VISION & METROLOGY

Head-up displays for avionics

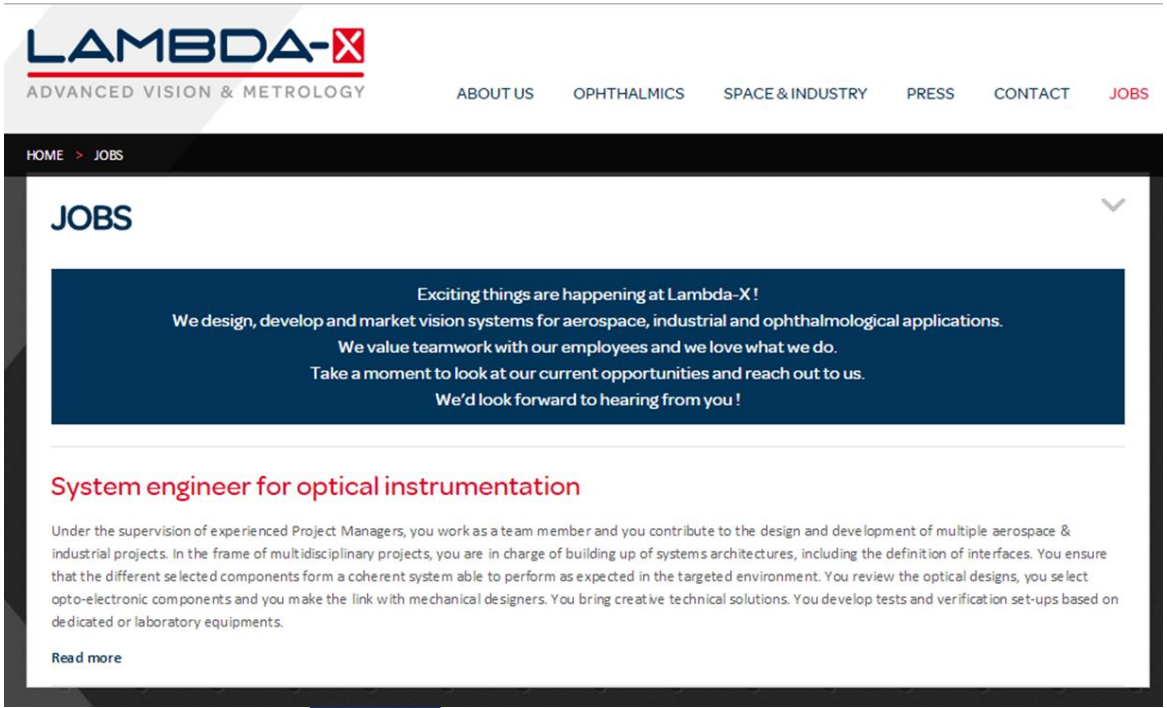


hot embossing of free-form optics

VUB
KIT

Lambda-X : new business and EU jobs

	Year 1	Year 2	Year 3	Year 4	Year 5
New revenues in k€	150	500	700	700	700
Additional number of Full Time Equivalent jobs	0	2	4	4	4



Why is it successful?

focus on the company's innovation challenge

subsidized innovation lowers company's innovation threshold

centralized contact point quick guidance

single-stop shop top experts and technology

low administrative overhead for company

timely support

What to add to make it an innovation hub?

- **Most SME's lack the skills to devise good business plans. ACTPHAST will include a support instrument to mitigate this shortcoming**

- **SME's need access to fresh capital to develop and commercialize their new photonics-enhanced products. ACTPHAST will grow the European Photonic Venture Forum in Brussels with satellite meetings in the European regions to team up companies and investors.**

- **To further grow in a durable way ACTPHAST needs to team up with the European regions so that regional efforts and regional funding can be aligned with ACTPHAST's efforts on a European scale**

ERRIN European Regions Research and Innovation Network

- **ACTPHAST could include the photonics pilot lines as new complementary technology platforms to its already existing technology platforms and facilitate access to SME's**