INTERNATIONAL YEAR OF LIGHT 2015

« Smart lighting »

Rolando Ferrini

EPFL, 30.10.2015

LASSIE-FP7

SEVENTH FRAMEWORK PROGRAMME

Heterogeneous Technology Alliance

SWISS PHOTONICS

BASF The Chemical Company

REGENT LIGHTING

VTT

Fraunhofer IISB

Fraunhofer IIS

LFoundry

GAIKER

AMIRES

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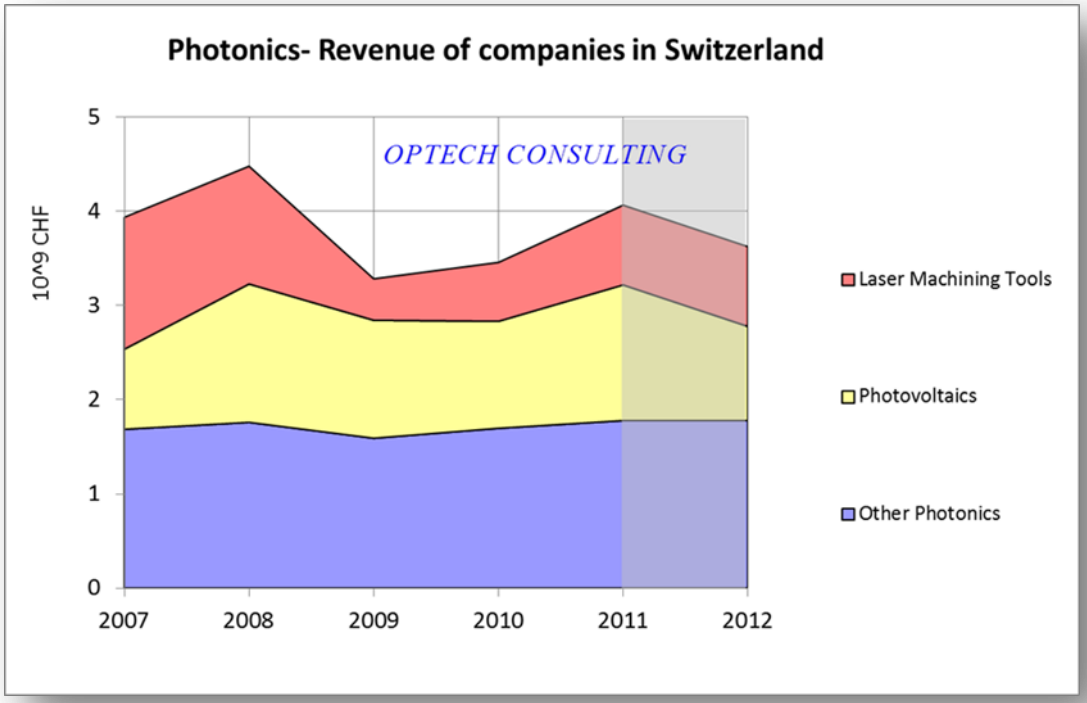
Photonics in Switzerland



- **Industry**
  - 4 BCHF/year, 15'000 people (150 companies tracked)

SWISS PHOTONICS

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Swiss National Laboratory for Solid State Lighting (SSSL)

SWISS PHOTONICS

CTI – Start-up and Entrepreneurship, R&D Funding, KTT Support

- **Swissphotonics** is the Swiss national thematic network (NTN) for photonics, supported by the Swiss Innovation Promotion Agency (CTI).
  Mission: advocacy for photonics, national and international networking (e.g. Photonics 21, EPIC), workshops, partner and fund matching.

- **Swiss National Laboratory for Solid State Lighting (SSSL)** serves as a one-stop entrance point for requests of companies active in SSL.
  Mission:
  - Consulting and contract R&D services with focus on Swiss SMEs (but not only):
    - Feasibility and case studies
    - Supply of test components, characterization and metrology
    - Access to standard know-how and equipment in SSL
  - Building a national SSL cluster
  - Seminal talks and Workshops

csem EMPA Materials Science & Technology EPFL ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE Zürcher Hochschule für Angewandte Wissenschaften zhaw Lucerne University of Applied Sciences and Arts HOCHSCHULE LUZERN

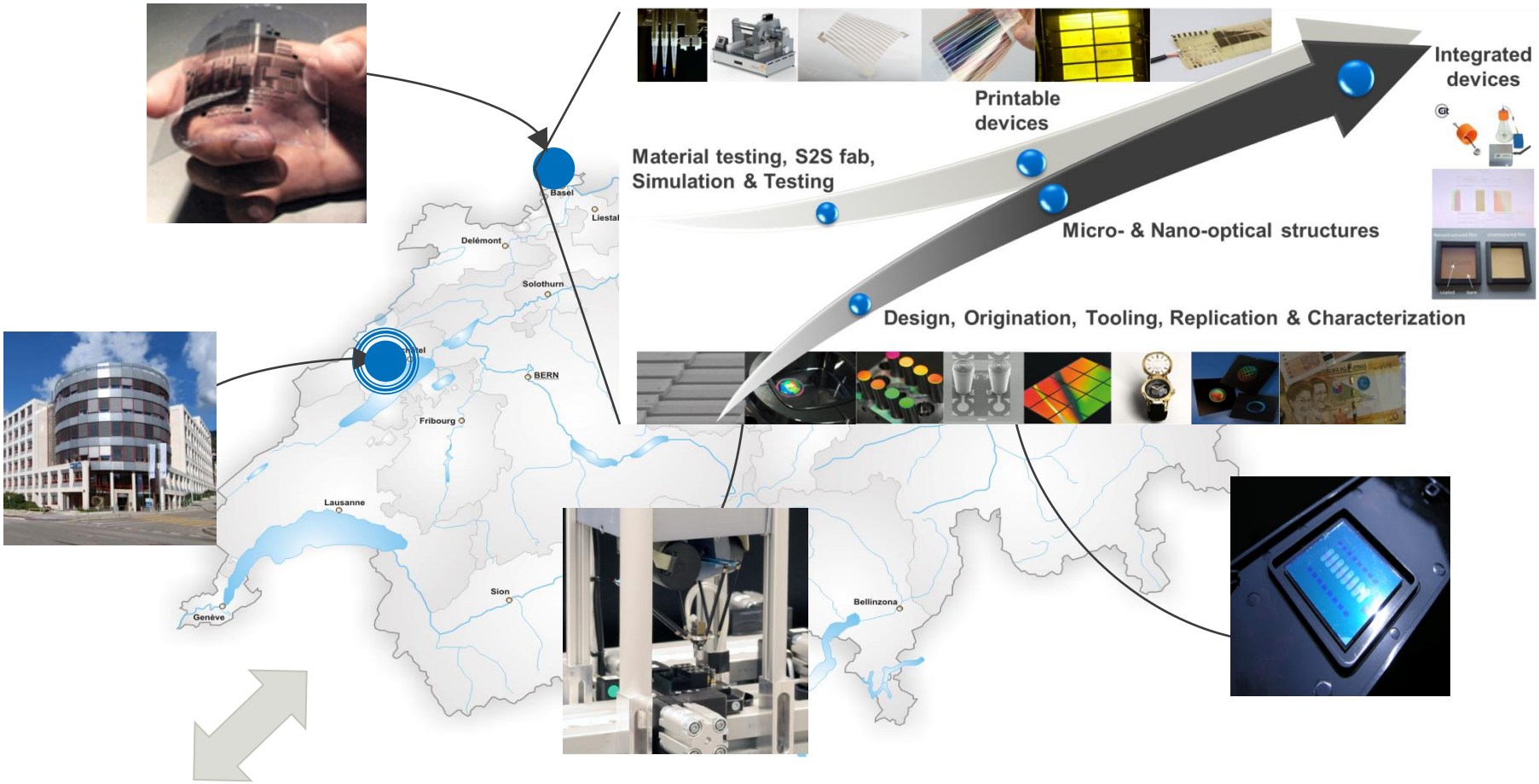
CSEM at a glance

Our mission

Development and transfer of microtechnologies to the industrial sector – in Switzerland, as a priority – in order to reinforce its competitive advantage

- Cooperation agreements with established companies
- Creation of start-ups

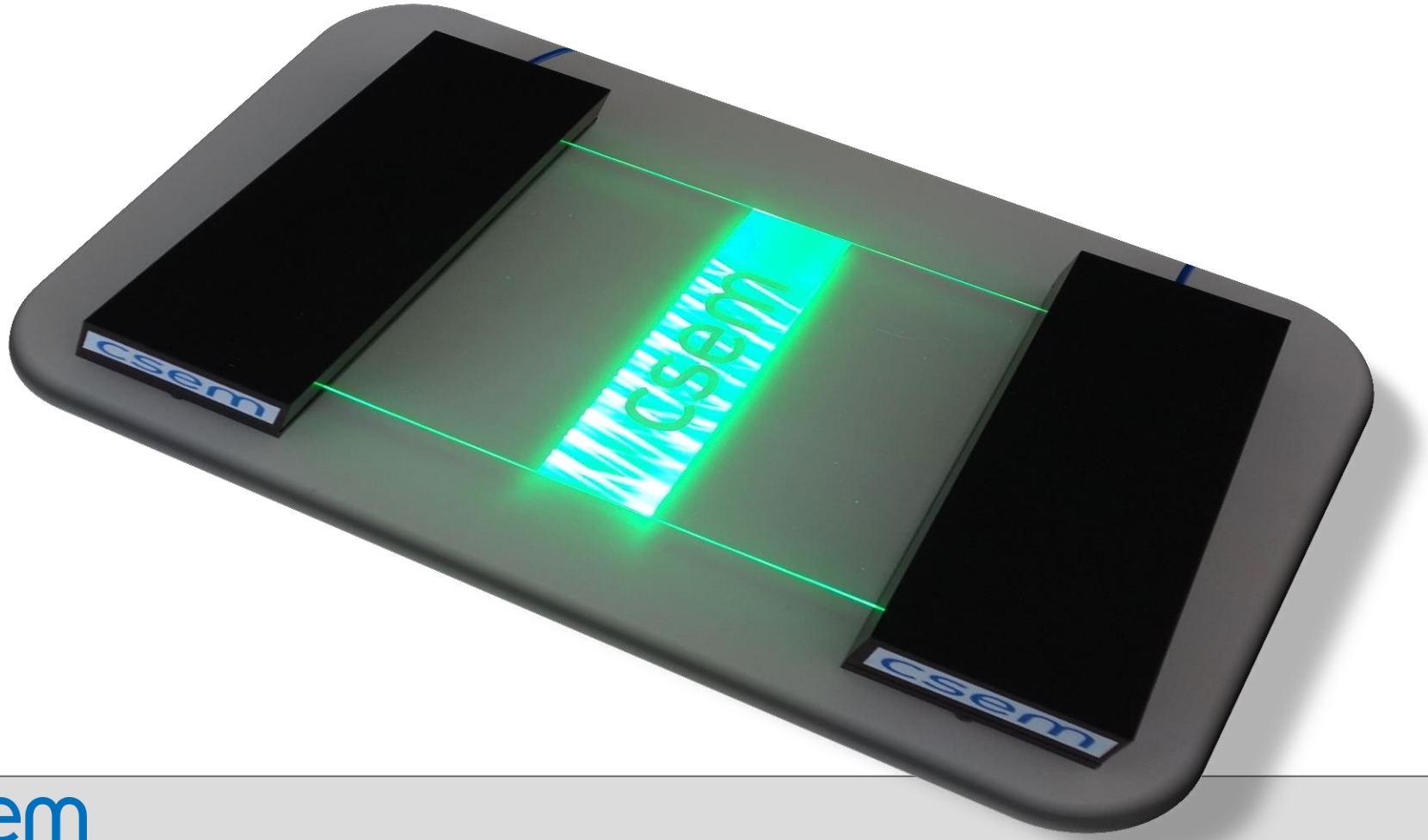
Closer to industry …



csem brasil

INTERNATIONAL
YEAR OF LIGHT
2015

… come and see our demos!



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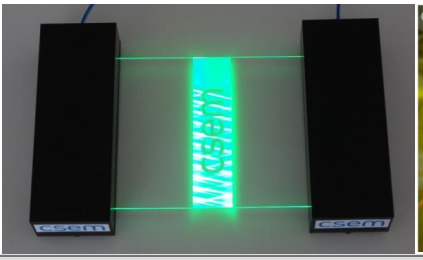
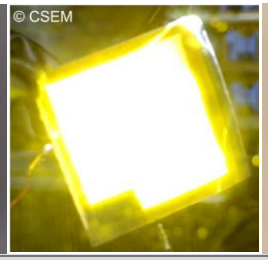
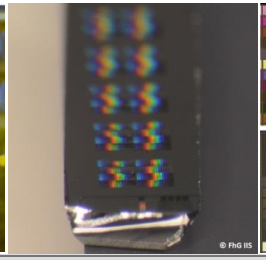
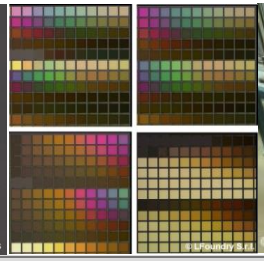
LASSIE-FP7

Large Area Solid State Intelligent Efficient Luminaires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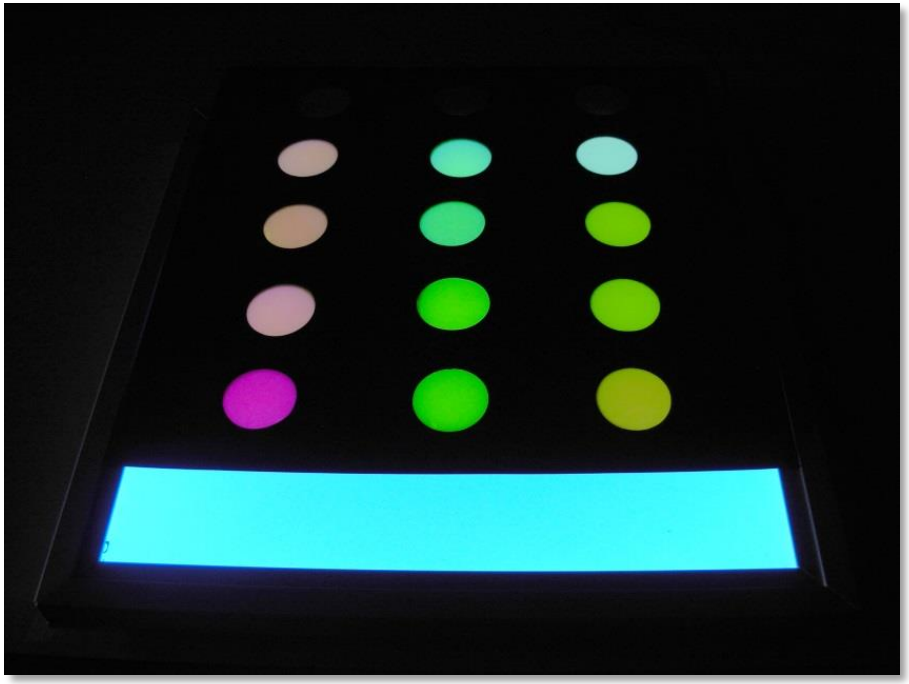
How to improve the quality of LED lighting?

CTI Project « New Color-changing films for lighting applications » (nr. 8184.1 EPRP-IW)

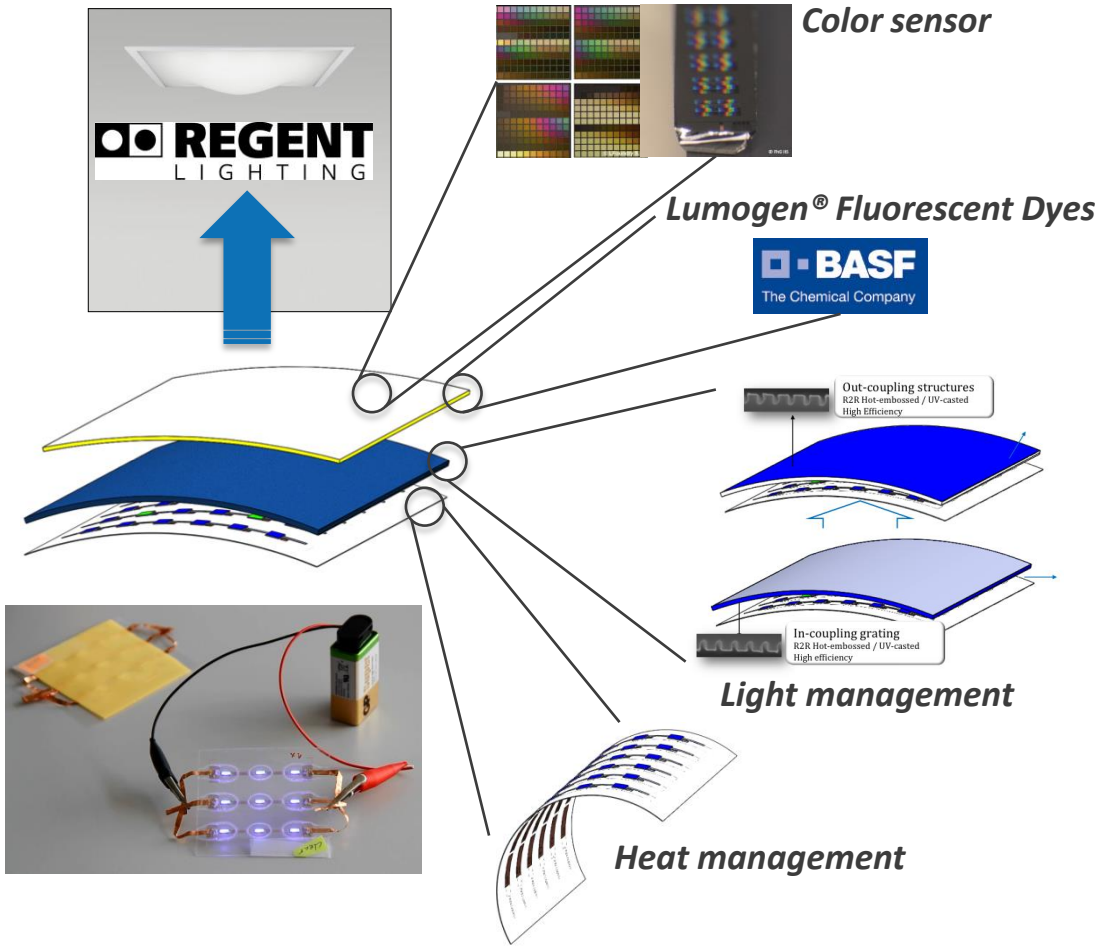
2006-2008

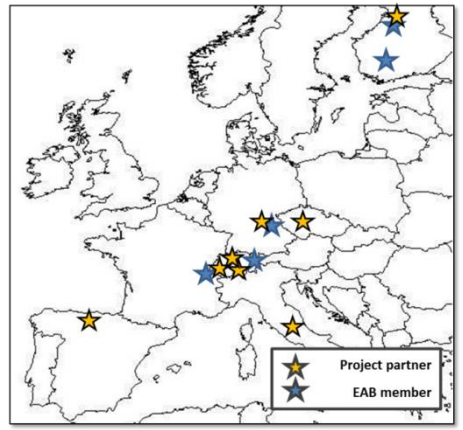


Patents

- EP08164280.3 & US 2010/0102251
- US 13/114.558 & PCT/IB2012/052577

Concept & Partners





… come and see our first conceptual demo!

http://www.bzbasel.ch/basel/baselbiet/intelligente-led-leuchten-oder-lassie-der-hellste-hund-aller-zeiten-129672029