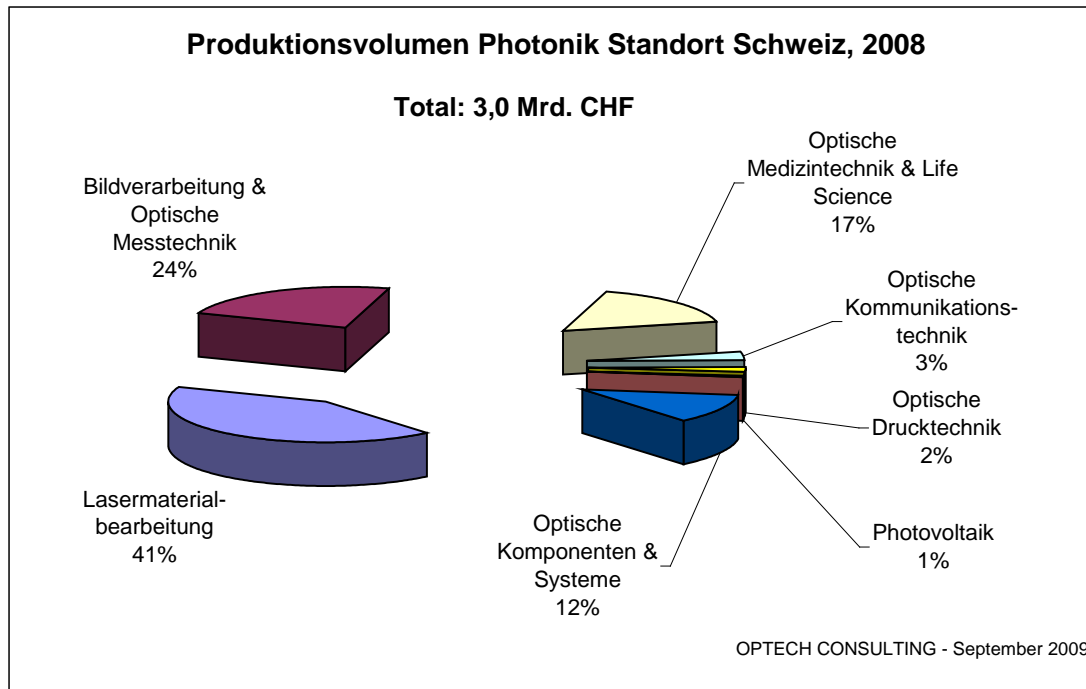


SWISSLASER NET

Christoph Harder, President
www.Swisslaser.Net, November 3, 2010

Swisslaser == Swissphotonics



- 3'000 Mio/year revenue
 - Number 2 in Europe photonic revenue/capita
- Photonics industry in Switzerland is dominated by material processing and input/output (Bildverarbeitung, Life science, optische Komponenten) technologies

Swiss Photonic Market Overview

Market	Laser Processing	Input/Output	Optical Comm.	Photovoltaic	Lighting
	43%	53%	3%	1%	na
Submarket	Laser Processing	Optical Measuring	Optical Communication	PV material	Lighting Material
	Laser Printing	Optical Components	Optical Interconnects	PV Processing	Luminaires
	Laser Surgery	Optical Life Science			
Industry	Bystronic	Balzers	Enablence	3 S Swiss Solar	BASF
	Dätwyler	Baumer	Beam Express	Flexcell	Epispeed
	Lasag	Cedes	Bookham	Flisom	Huntsman
	Leister	Fisba Optik	Diamond SA	Fluxim	Novagan
	Lüscher	Haag-Streit	Huber&Suhner	Huntsmann	Oerlikon
	Oclaro	Leica Geosystems	Xenlux	Meyer- Burger	Zumtobel
	Oerlikon	Leica Microsystems	+10 (see industry rep.)	Oerlikon	
	One-Five	Roche-Diagnostics		Pramac	
	Silitec	Schott Guinchard		Solaronix	
	Soudronic	SwissOptic		Solterra	
	Synova	Swissray		Sputnik Engineering	
	Time-Bandwidth	Tecan		Studer Innotec	
	Trumpf	Vectronix		Swiss Wafers	
		+50 (industry rep.)		VHF Technologies	
Research Org	CSEM	CSEM	CSEM	CSEM	CSEM
	EMPA Thun	EPFL	EPFL	EMPA Dübendorf	EMPA Dübendorf
	EPFL	ETH	ETH	EPFL	EPFL
	ETH/Inspire	UAS Biel	IBM	ETH	ETH
	UASs Burgd., Windisch	UAS Buchs	UniGe		
	UniBe				

Swiss National Technology Policy

➤ **Switzerland lacks strong national policy for technology leadership:**

- International science is important (SNSF)
- Direction is given by international experts (EU, ESA)
- Company R&D needed for technology leadership is not funded (CTI)

➤ **Today: Swiss companies are at a disadvantage in international competition**

- Data (Swiss government funding programs >100 Mio)

Program	Funding Mio CHF	Program Direction	Program Type	Institute R&D	Company R&D
SNSF	650	International experts	Bottom up	Funded	No
EU R&D	300	International program	Top down	Funded	Funded
ESA Space	120	International program	Top down	Funded	Funded
CTI	130	National experts	Bottom up	Funded	No



Swisslaser = Swissphotonics

- The Swiss Photonics Innovation Network
 - **Includes ALL Photonics industries**, laser beam machining tools, optical interconnects and photovoltaics
 - **Covers the WHOLE of Switzerland** and is internationally networked
 - Supports technology transfer **ALL THE WAY** from **Swiss national science foundation to CTI and Swiss industry as well as the European technology platform “Photonics 21”**
 - Is the **Swiss Photonics Technology Platform** (counterpart to the European Technology Platform)
- Swisslaser
 - Has more than 70 members (institutes and companies)
 - Gives seed money (5000.-, [www. swisslaser.net](http://www.swisslaser.net)) to support submissions of CTI projects
 - Is member of international photonics networks (EPIC, IOA, OIDA, OSA) and supports finding international funding.
 - Organizes workshops in order to bring the optimal partners of industry and academia together for technology transfer
 - Funding of CTI Swisslaser network projects has been 6 Mio/year



HOME

INFO FOR
COMPANIES

INFO FOR
INSTITUTES

WORKSHOPS

▣ UPCOMING

▣ PAST

SWISS PHOTONICS

PHOTONICS21

SNAPP

SNSF PHOTONICS

LASERFEST

ECOC 2011

DOWNLOADS

LINKS

SLN - THE
ASSOCIATION

SLN - THE TEAM

Upcoming events

Mi, 03.11.2010 Biomedical Photonics, University Bern

Do, 04.11.2010 inspire Laserkolloqium, ETH Zentrum

Do, 11.11.2010 Photonics as a Key Enabling Technology, CSEM SA,
Neuchatel

Do, 02.12.2010 3D Measuring (SLN) & 50 Jahre Laser (SSOM), NTB
Innerstaatliche Hochschule für Technik Buchs



Translate

Agenda

- 03.11.2010: University Bern
Biomedical Photonics
- 04.11.2010: ETH Zentrum
inspire Laserkolloqium
- 11.11.2010: CSEM SA,
Neuchatel
Photonics as a Key Enabling Technology
- 02.12.2010: NTB
Innerstaatliche Hochschule für Technik Buchs
3D Measuring (SLN) & 50 Jahre Laser (SSOM)

News:

50th Birthday of the
Laser

Supported by:

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Förderagentur für Innovation KTI