

CSEM

*technologies
that make **the** difference*

*Mario El-Khoury
Neuchâtel 2016*

CSEM at a glance

- **Our mission**

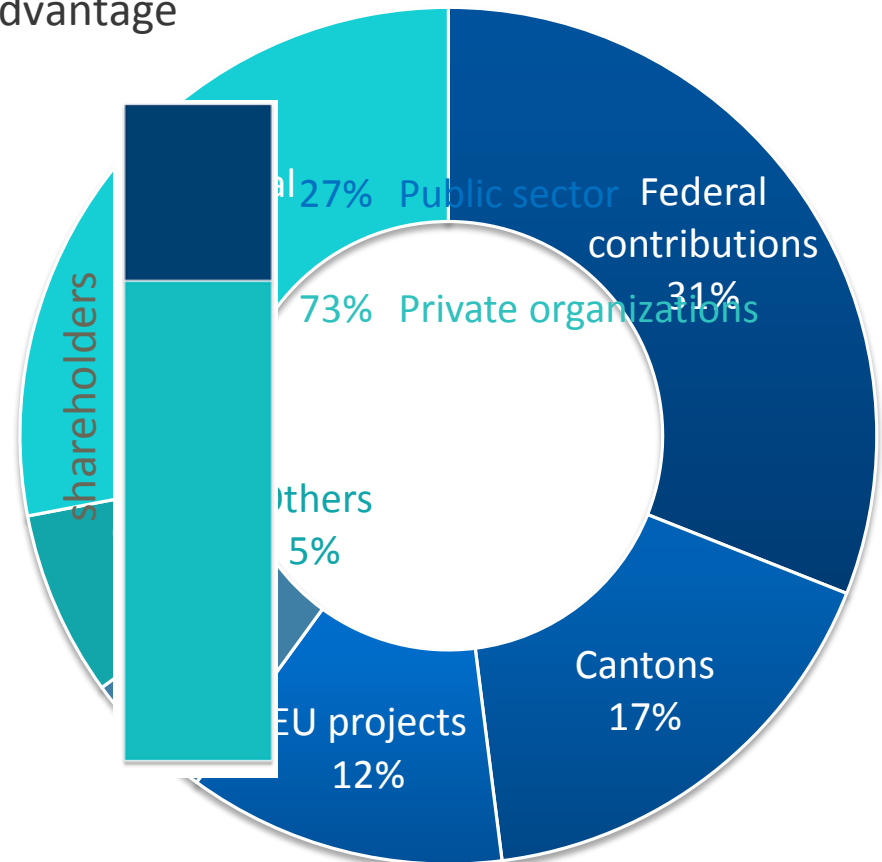
Development and transfer of microtechnologies to the industrial sector in order to reinforce its competitive advantage

- **A public-private partnership**

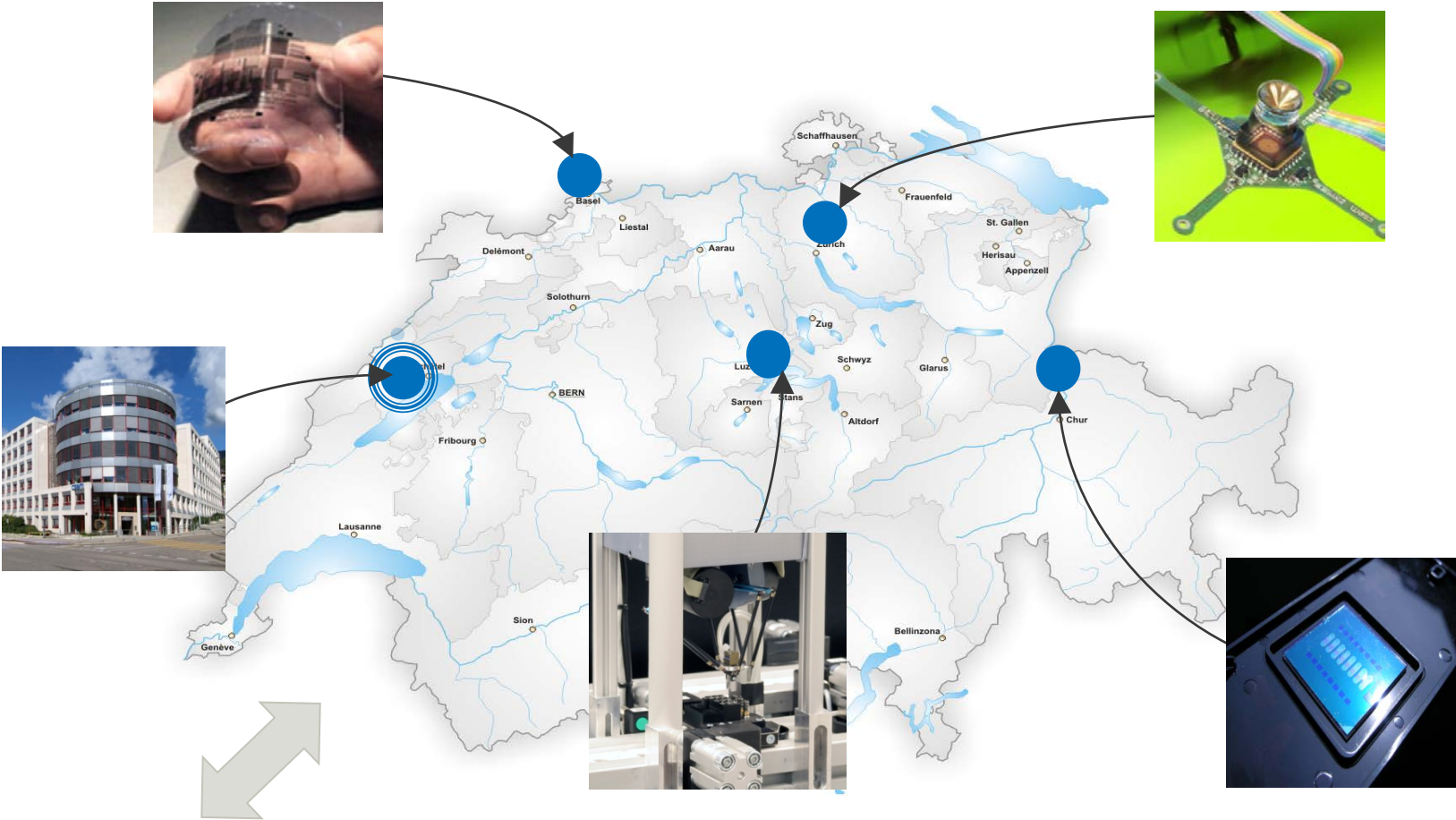
- 27 % public
- 73 % private

- **Key figures (2014)**

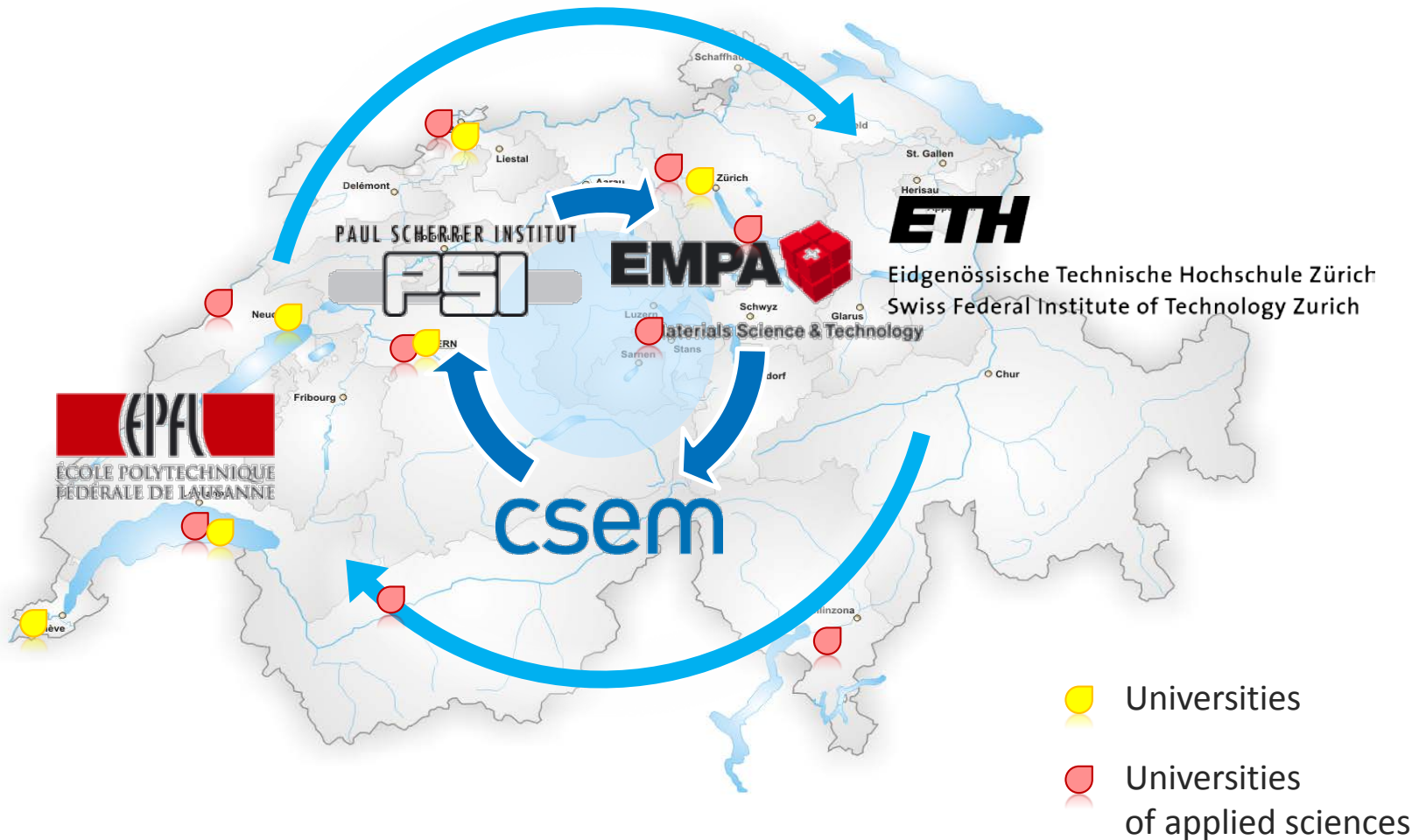
- Revenues ~ CHF 83 mio
- Employees ~ 450



Closer to industry ...

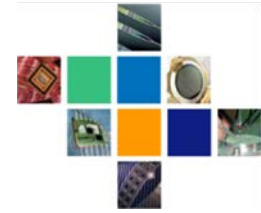


CSEM's national network





Source. André laville



CSEM's European network



Division Recherche Technologique

Grenoble

Empl. 2'000

Turnover : 191 M€

Clean room : 8'000 m²



Neuchâtel

Empl. 400

Turnover: 57 M€

Clean room : 1200 m²

csem



Espoo, Oulu

Empl 2'800

Turnover : 278 M€

Clean room : 2450 m²



Dresden, Berlin, München

Empl. 1'800

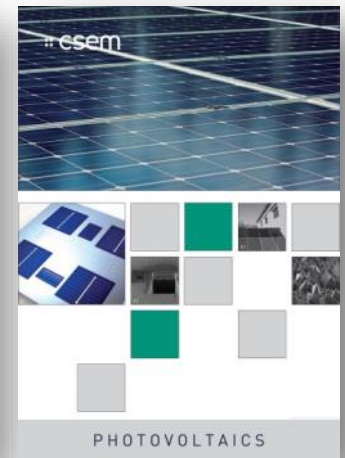
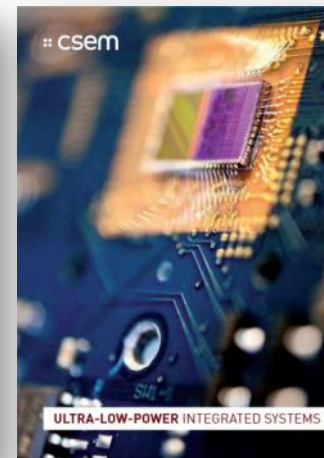
Turnover : 220 M€

Clean room : 8450 m²



CSEM's technology programs

- MEMS
- Surface engineering
- Systems
- Ultra-low-power integrated systems
- PV and Energy Management



A history of “firsts”

1967 – The first electronic watch in the world: Beta 1

1991 – The first commercial standalone AFM in Europe

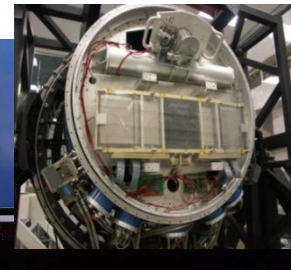
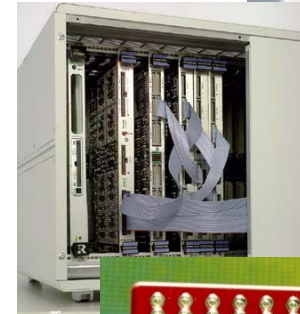
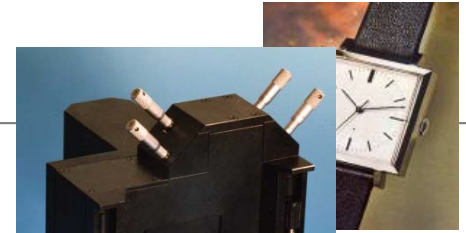
1992 – The first optical trackball in the world

1997 – The first UMTS (3G) demonstrator in the world

2003 – The first commercial 3D TOF camera

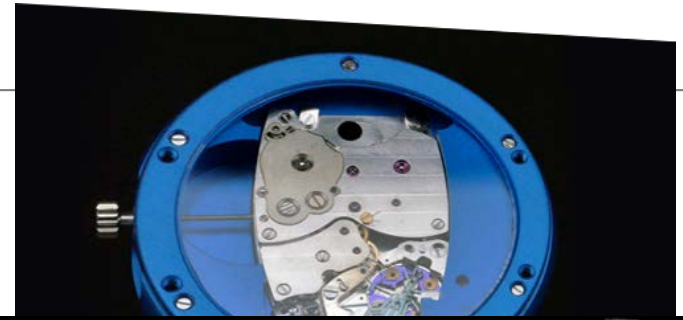
2007 – The first stable Si hairspring in the world

2011 – The first cryogenic reconfigurable Mask
for the observation of old galaxies



And recently ?

- A revolution in the mechanical watch industry, a completely new movement principle
- Landing of Philiae on P67: the eyes of the scientists
- First world wide white Photovoltaics



Photonics – core technologies at CSEM



Photonics – core technologies at CSEM



Photonics – CSEM network



Thank you !

