



Empowering biomedical engineering SMEs to participate in EU research

Journée de l'innovation

Monthey - June 10th 2009

Eric Plan



info@smbiopower.eu



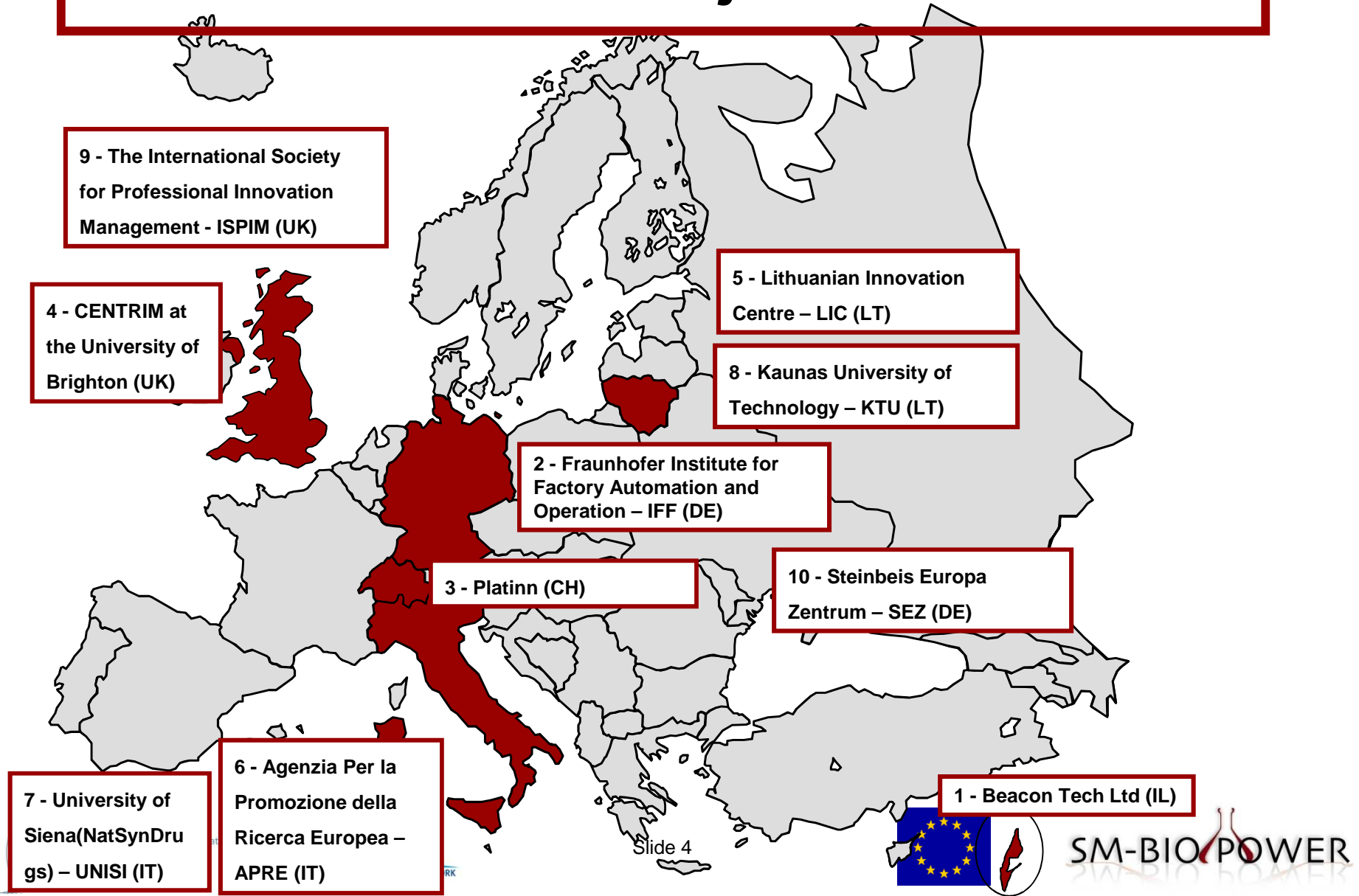
Agenda

- What is Biomedical Engineering (BME)?
- What is this initiative ?
- How does it work ?
- What is your benefit ?
- What is the potential ?
- How getting involved ?

What is SM-BIOPOWER ?

- FP7 funded project (Health Theme)
 - Ten partner organisations
 - 30 Month duration (9.2008 to 02.2011)
 - Unique approach to promoting participation of SMEs, operating in the biomedical engineering and other medical technology sectors (BME/MT), in FP7
-
- --> 15% SMEs participation in EU projects

SM-BIOPOWER Project Consortium



Definition

- **Biomedical engineering (BME)** is the application of engineering principles and techniques to the medical field.
- It combines the design and problem solving skills of engineering with medical and biological sciences to improve healthcare diagnosis and treatment.
- By nature interdisciplinary !

• Source : Wikipedia



Slide 5



Technologies used in drug discovery: rapid growth of interdisciplinarity

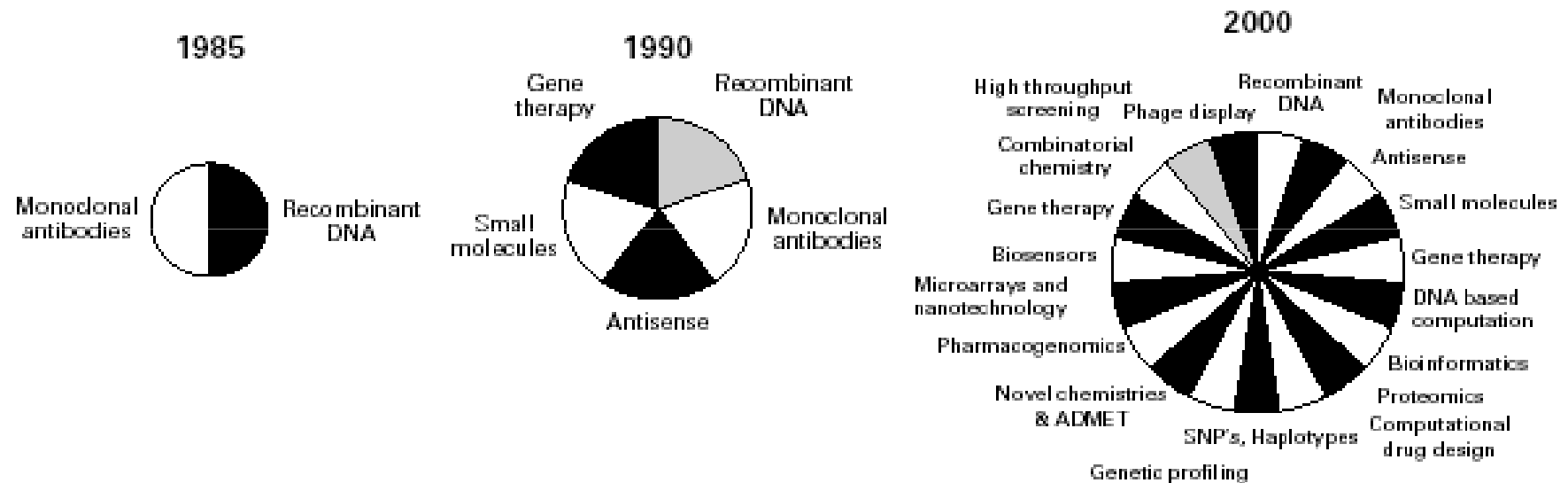


Figure 1.9 Technologies used in the drug discovery and development industry are increasing and the process is more complex (data adapted from Alta Partners slide presentation, 2004).

Source : Commercializing successful Biomedical Technologies, Shreefal S. Mehta, Cambridge Edition

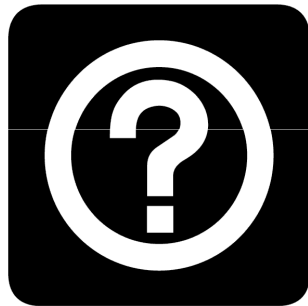
BME Segmentation

- Medical informatics, eHealth systems, health monitoring, and telemedicine
- Bioinformatics, computational genomics and proteomics
- Physiological modelling and multivariate biosignal processing
- **Biomedical instrumentation and medical electronics**
- Nanomedicine and cellular engineering
- **Biomedical devices, instrumentation, sensors, artificial organs, and nano technologies**
- Rehabilitation engineering, home care
- Clinical decision support systems
- Multidiscipline networks, synergy from different research fields, e.g. „from molecule to population“ approach
- **Medical imaging and diagnostics**

How does it work : SBP Services



- Representation**
- Your **voice heard** by European policy makers
 - International **visibility** for your company



Information

- Information on the **latest trends** in EU support for BME research
- **Best practice** examples from SMEs collaborating in EU projects
- Online helpdesk is available for registered users



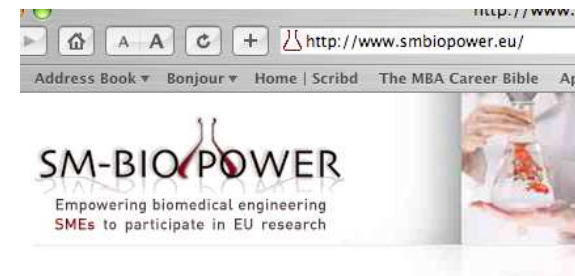
Opportunity Matching

- Personal assistance in identifying **funding opportunities**
- Opportunities to **identify and connect with** project partners for project development
- **Personalized updates** of digested information (call alerts, partner searches, project opportunities...)

How does it work : SBP Tools

www.smbiopower.eu

Access to many of our services and our unique helpdesk begins with registering on our website



PEER-BIO-NET

A group of consultants from six European countries provide one to one coaching. They also collaborate to connect you with potential project partners and to communicate your needs to the European Commission



Specific Interest Groups (SIGs)

Clustering complementary companies ensures that specific needs are met.



Your benefit

- **Make** your voice heard at EC level
 - **Gain** international visibility
 - **Learn** from others' experience
 - **Meet** possible partners
-
- Facilitation to EU R&D money access
-
- Registration : www.smbiopower.eu

What is the potential ?

4 Specific FP7 programs

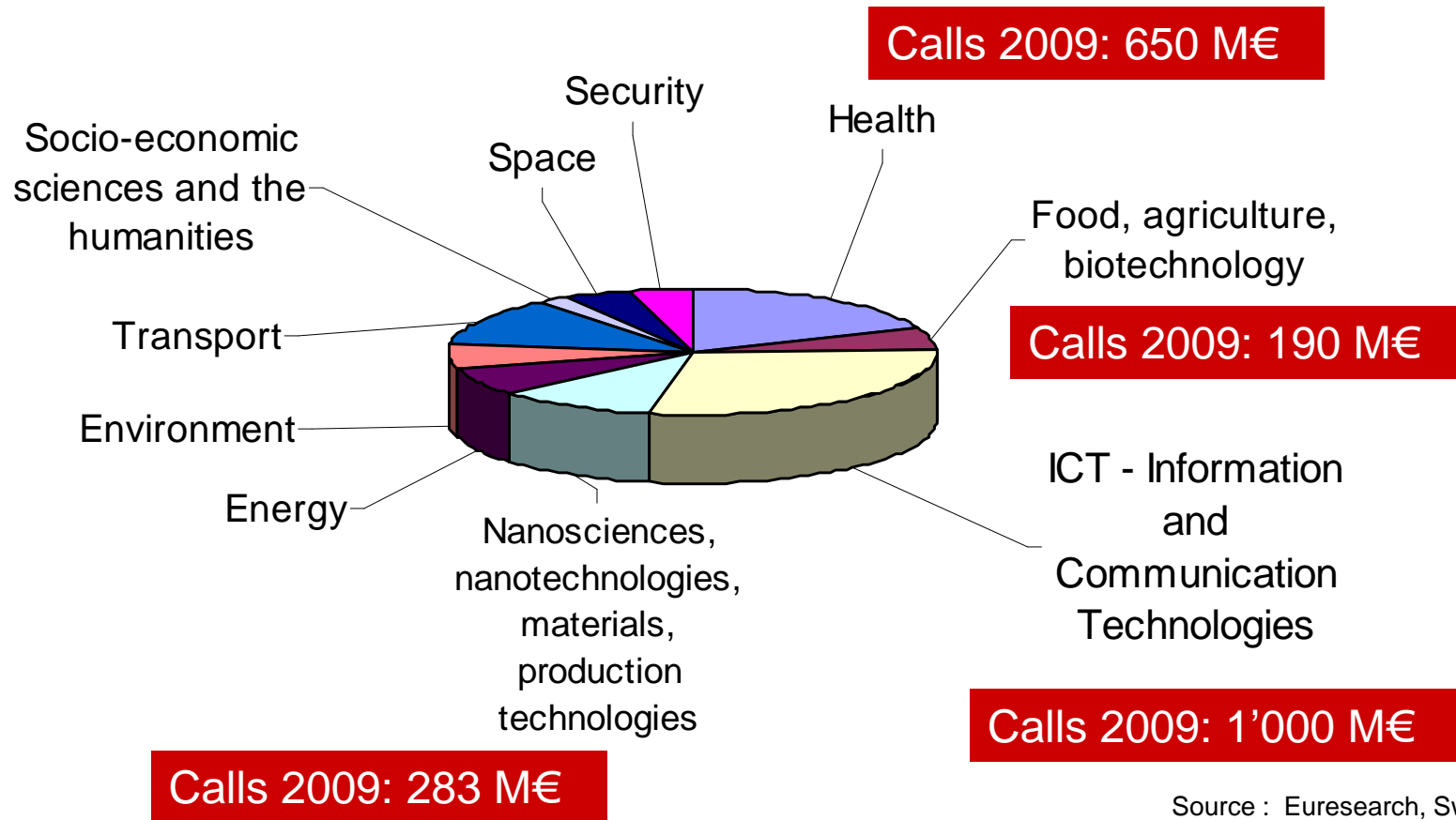
		Billion €
Cooperation	10 themes	€ 32.4
Ideas	Basic research (ERC)	€ 7.5
People	Mobility (Marie Curie actions)	€ 4.7
Capacities	7 horizontal axes	€ 4.1



Source : Euresearch, Swiss NCP

Cooperation – 10 themes

Themes of relevance for the bio&medtech industry



Source : Euresearch, Swiss NCP

ICT - Microsystems & Photonics

Call 5 - deadline: nov. 3, 2009

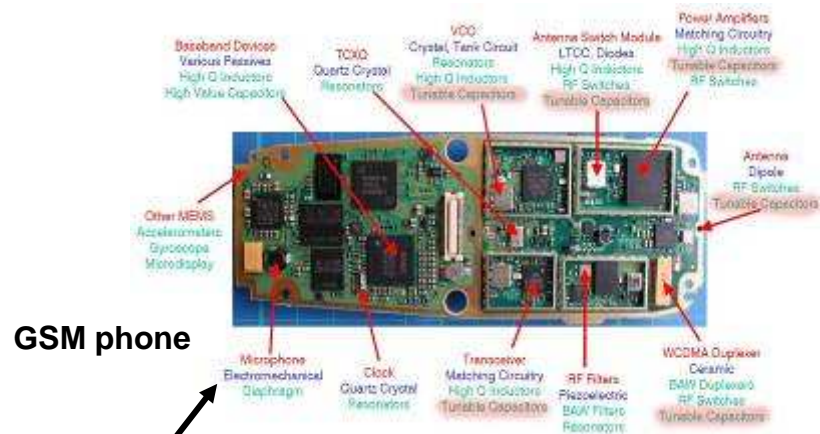
Info-event: **Face2Face in Basel, jun. 25**



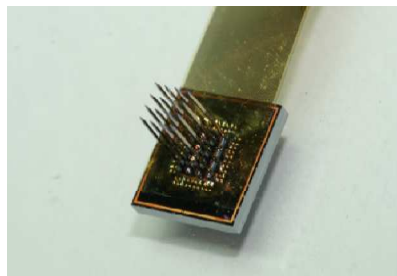
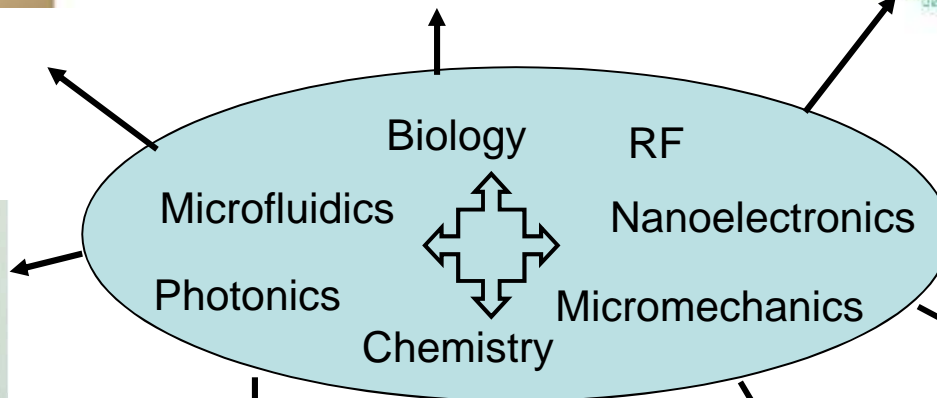
Lab-on-Chip
(OPTOLABCARD)



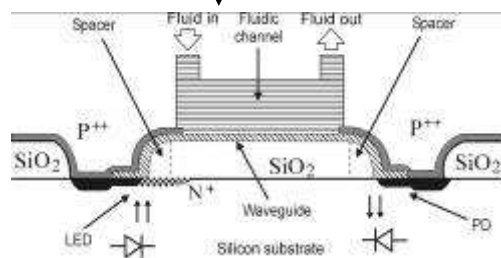
Smart Fabrics (PROETEX)



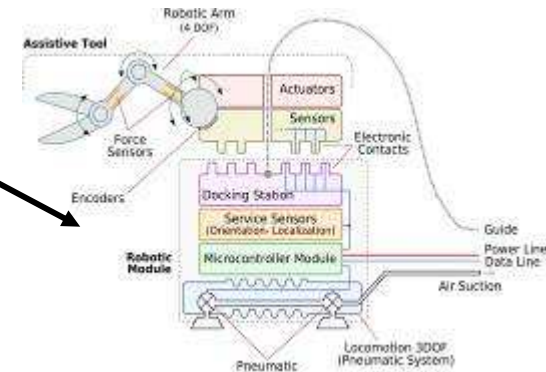
GSM phone



Neural Probe arrays
(NEUROPROBES)



Photonic biosensor (NEMOSLAB)



Microrobotic surgery
(ARAKNES)

Source : Euresearch, Swiss NCP



RFID

Further Info Sources

- **CORDIS (European Research Portal)**

<http://cordis.europa.eu/fp7>

- **Euresearch (Swiss EU Research Portal)**

<http://www.euresearch.ch>

- **Euresearch Contact Points:**

Food, Agri and Biotech: Gerhard.Gass@euresearch.ch

Health: Sasha.Hugentobler@euresearch.ch

NMP Research: Marion.Tobler@euresearch.ch

ICT: Patrick.Furrer@euresearch.ch

Source : Euresearch, Swiss NCP



How to be part of it ?

Your personal contacts

Karine Bourgeois

karine.bourgeois@cimark.ch

Eric Plan

eric.plan@cimark.ch

Registration : www.smbiopower.eu