



VIIIth European Mountain Conference, 15th-17th September 2010,  
Lillehammer, Norway



**Alps Bio Cluster**  
Biotech and Medtech in Alpine Space

# Alps Bio Cluster Biotech and medtech in Alpine Space

**[www.alpsbiocluster.eu](http://www.alpsbiocluster.eu)**

Alpine Space programme  
European territorial cooperation 2007 - 2013



# Alps Bio Cluster

## Biotech and medtech in Alpine Space

Federating 8 partners from 5 Alpine countries: FRANCE, ITALY, SWITZERLAND, GERMANY, AUSTRIA

□ Coordinated by:

**ADEBAG (Grenoble Alps Bio Network)**

□ 7 Project Partners:

→ Lyonbiopôle (*Rhône Alpes*)

→ BioIndustry Park Silvano Fumero (*Piedmont*)

→ Milan Chamber of Commerce (*Lombardy*)

→ BioAlps (*Western Switzerland*)

→ Tiroler Zukunftsstiftung (*Tirol*)

→ Helmholtz-Zentrum München

(*German Research Center for Environmental Health*)

→ Weihenstephan - Triesdorf

University of Applied Sciences (*Upper Bavaria*)



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# Alps Bio Cluster

## Biotech and medtech in Alpine Space

### Objectives

- ❑ Establish a transnational cluster with 2 main working axis managed by specific groups of experts:
  - **“New diagnosis and therapies”** in the biotech sector
  - **“Autonomy and Healthcare”** in the medtech sector
- ❑ Encourage **transalpine cooperation** between R&D centres, universities, start-ups and SMEs
- ❑ Support **collaborative projects**
- ❑ Boost **joint economic development** by reaching a critical mass of key players.

### Our vision

***"A Healthy life at home in the Alps in a natural environment worth to be preserved"***

### Cluster Key figures

#### Industry:

750 Biotech companies  
550 Medtech companies  
1 200 SMEs  
80 big companies

#### Education:

35 universities

#### Research:

66 research centres

#### Supporting services:

29 incubators and science parks  
17 technology transfer organisations

#### Finance:

27 Venture capital companies\*

\* Results from Alps Bio Cluster territorial analysis – June 2009



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# “e-Care” pilot network

*linked to the axis “Autonomy and  
Healthcare”*

## Leading Group “e-Care”

### ✓ Global Context

- Healthcare sector is facing increased needs due to the **ageing population** and the **raise of the chronic diseases**.
- **Cost reduction in European public budgets** : high demand of quality and efficiency to the medico-social systems

### ✓ Challenges in the Alpine Space

- The lack of health professionals in Alpine Space
- The difficulties to reach hospitals because of isolated situations
- An increasing tourist population during winter and summer seasons
- Transnational area : **different** features of the European medico-social systems and medical information systems



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## Leading Group “e-Care”

✓ The main objective to reach is :  
To take a better care of isolated patients and/ or at home by using ICT technologies integrated to medical devices : “Personalized care services”

### ✓ Composition

- around 12 experts from companies, academics, research institutes, medico-social field, end-users organisations of the Alpine Space

BIOTECHNOLOGIES AND MEDICAL TECHNOLOGIES  
IN THE ALPINE SPACE

Alps Bio Cluster Catalyst Event  
«ICT & Care: toward personalized services»

7-8 July, 2010  
Grenoble, France



Programme in collaboration with  
UNIVERSITE DE  
GRENOBLE



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## Leading Group “e-Care”

### 1st meeting

7<sup>th</sup> July 2010 - Grenoble, France

#### ✓ 4 defined axis of working :

1. A common technological European initiative: integrated platform open source & interoperable, development of technologies : low energy, self adaptive system and data fusion software
2. Access to the market for SMEs:
  - how to reach a strong dissemination, what is the good level of deployment: regional, national, European ?
  - How to involve big medical devices companies in the network ?
3. Lobbying at European level: recommendations on PPP e –health to take into account specific mountains areas
4. Transnational management of projects : methodology & support to set up European projects for the FP 7 ICT & Health Call 7



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# “Ecosystem services for human health” Pilot Network

*linked to the axis “New diagnosis and therapies”*



## Leading Group “Ecosystem services for Human Health”

### ✓ Global Context

- It is an opportunity to successfully address EU public policy goals, among the others:
  - sustainability, reduction of CO2 emission, energy efficiency and sustainable development
- **Green Biotechnologies cover a wide range of requirements: modern biotechnology methods for plant improvement, improvement of nutrition...**
- Technological improvements in these fields are crucial



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## Leading Group “Ecosystem services for Human Health”

### ✓ Challenges in the Alpine Space

- Environmental pollution in the Alps: air, soil, water and biota with the impact on human health and quality of life
- The Alps offer a multitude of options for bio indication, bio detection, bio remediation and bio energy...
- But lack of external trust, reliability and lack of internal cooperation between academia and industry especially innovative SMEs



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## Leading Group “Ecosystem services for Human Health”

### ✓ Objectives to reach

- The leading group = a representative voice of the Alpine space, through which the above issues could be addressed
- Care has to be taken to preserve the Alpine region as an growing economic space in a delicate environment
- Networking and clustering are indispensable:
  - to yield best impact of accumulated academic knowledge and practical green solutions offered by SMEs
- Important to stimulate discussions between stakeholders: local authorities, policy makers, SMEs and researchers on green biotechnologies and foster public/private partnership



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## Leading Group “Ecosystem services for human health”

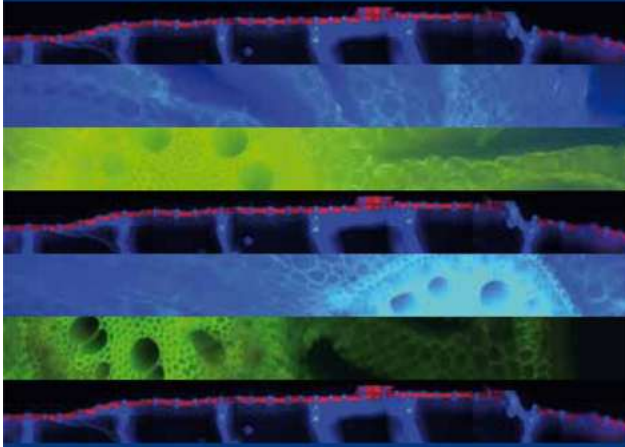
### ✓ Composition

- Around 12 experts from representing companies, academics, public entities and research institutes of the Alpine regions

3<sup>rd</sup> Alps Bio Cluster Event with Exhibition Area

### Environmental Biotechnologies to Improve Human Health and Quality of Life

Solutions for the Alpine Space



3 – 4 February 2010  
Helmholtz-Zentrum München, Neuherberg



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## Leading Group “Ecosystem services for human health”

### 1st meeting

### Spring seminar in Munich in May 2011

#### ✓ Road Map and Action Plan

- Set up a system of criteria and indicators to point out local needs of Green biotechnologies
- Production of draft guidelines for policymaking and decision making in the field environmental biotechnologies
- Identification of collaborative / research projects that could be set up at a European level



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