

*Symposium on
International Cooperation Experiences
In Higher Education
SICEHE'08*



*Réseau Méditerranéen des Ecoles d'Ingénieurs
RMEI*

Mediterranean Network of Technical Universities and Engineering Schools

Cooperation in Higher Education

Léo VINCENT, President RMEI

Michael PAUL

Ecole Centrale Marseille

A satellite-style map of the Mediterranean region, showing the sea in blue and the surrounding landmasses in green and yellow. The map is centered on the Mediterranean Sea, with Europe to the north and west, and Africa to the south and east.

RMEI

Réseau Méditerranéen des Écoles d'Ingénieurs
Mediterranean Network of Technical Universities and Engineering Schools

Founded in 1997 by ESIM/ CCIMP

**45 Engineering Schools and Technical Universities
in 12 Countries**

> 100 000 students

Now hosted by École Centrale Marseille



12 Countries

45 Technical Universities/ Engineering Schools



UNESCO Chair :
Innovation and Sustainable Development





A network:

*Mediterranean Network of Technical Universities
for engineering higher education*

Main Focus:

Sustainable Development

Overall Aims:

*Facing up to the major challenges in the
Mediterranean basin through innovation*

An Asset:

11 years of activity

Main aims: to provide answers through innovation to the major challenges facing the Mediterranean basin:

- *The north/south demographic and economic imbalance: demands strong and more evenly distributed economic growth*
- *Global economic competition: requires the use of the most appropriate technologies and methods as well as the corresponding human skills*
- *Sustainable Development: must take into account not only environmental issues, but also economic, social and cultural imperatives specific to the Mediterranean basin*

Overall aims

To promote the training of engineers (i.e. industrial managers)

To promote quality

To encourage engineers to take pride in the specificities and richness of the Mediterranean region: education, culture, savoir-faire ..

RMEI: 11 Actions

<i>Project</i>	<i>Leader</i>	<i>Institution</i>
Quality and evaluation	Lerzan Ozkale	ITU Istanbul
Student Mobility	Driss Bouami	Mohammadia Rabat
Sustainable Development	Jean Vergnes	R.M.E.I consultant
Cindynics	Xavier Blanc	CCIMP Marseille
Internships	Adel Alimi	ENIS Sfax
Research	Juan Jesus Perez	ETSEIB Barcelona
Technology Transfer	Christian Rey	Marseille Innovation
Alumni	Bahri Rezig	ENIT Tunis
Microelectronics	Eric Richard	ISEN Toulon
Water	Ahmed Kettab	ENP Algiers
Energy	Ferrucio Pittaluga	University of Genova



Main targets

Students

- Mobility
- Master course admissions
- New curricula, new approaches (e.g. Sustainable Development, Cindynics, Microelectronics, etc)

Research

To identify and promote research focussed on Sustainable Development:

Energy
Water

Mediterranean Observatory

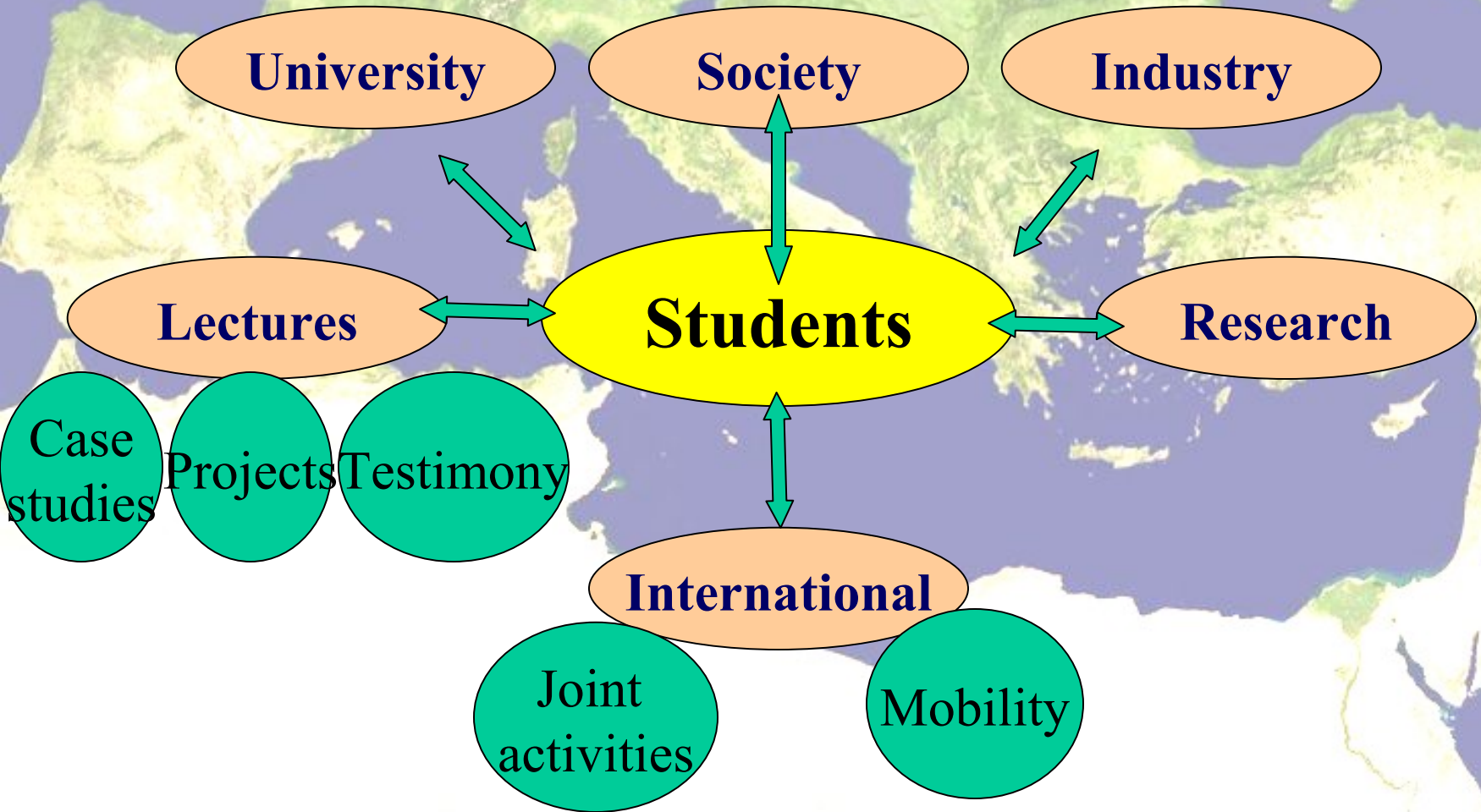
Companies

Recruitment
Image
Research
Attracting Top Talent

Local government

SD policy
Union for the Mediterranean ?

Sustainable Development in Engineering Schools



*The 3rd Millennium **ENGINEER-MANAGER***

A Manager leading innovation and technological development

- an entrepreneur, innovator and project manager
- able to analyse then solve highly complex problems :
 - as a team member or leader
 - in an international and multicultural environment
 - using multidisciplinary scientific and technical skills

➤ *A 'generalist' with a high level of broad-based competence*

- high potential for assimilation of diverse disciplines
- high potential for integration of human, economic, information and technological resources to design innovative systems

➤ *International vision and culture*

The 3rd Millennium STUDENT



Industry requires two mindsets in engineers:

- inductive for defining the problem clearly*
- deductive for solving the problem*

➤ *Learning to deal with complex problems*

➤ *Having strong conceptual capacity, able to deal with practical problems and to adapt to new situations*

➤ *A real engineer at Master's level, operational for his first professional position after graduation*

➤ *Equipped to become an industrial manager of the future*

Strong employment potential

Recognition by the company is based on the engineer's ability to lead teams towards successful outcomes

➤ *Good competencies in science and technology*

➤ *Good communication, leadership and management skills*

➤ *A dynamic and enthusiastic entrepreneur*

➤ *High ethical standards*

- social responsibility

- refusal of privileges

- respect for others

NETWORKING

What is the added value of RMEI?

- **To encourage an interdisciplinary approach: starting within one's own university**
- **To design new curricula through benchmarking**
- **To share competencies**
- **To share a common concern for our Region and a common approach towards the challenges facing the Mediterranean**

Learning from each other

Networking

*Groupe
Écoles
Centrales*

TIME

*Black Sea
University Network
BSUN*

*Conference of Mediterranean Universities
CMU*

UNESCO



Groupe des Ecoles Centrales



*Ecole
Centrale
Pékin*

www.ec-marseille.fr

A topographic map of Europe and the Mediterranean region, showing terrain elevation in shades of green and yellow. The map is centered on the Mediterranean Sea, with the Alps and Pyrenees visible in the north and west. The text is overlaid on the map.

RMEI

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From July 2008:

www.rmei.info



.. À bientôt ..