

RMEI - Réseau Méditerranéen des Ecoles d'Ingénieurs et de Management

Olivier Boiron & Moncef Ghiss

RMEI

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Tanger



Introduction



- A network founded by Ecole Centrale Marseille (FR) in 1997
- A french non profit "loi de 1901" association
- 4 colleges
 - college of engineers
 - college of managers
 - college of architects
 - college of agronomists
- ≈ 100 HEI in 17 countries
- ≈ 150 000 students
- Unesco Unitwin 651 chair on sustainable development - Pr. O. Boiron



Introduction

Network activities and programmes

Action I Student mobility & Education

- Promoting "Erasmus like" mobilities
- Erasmus+ programmes (international engineer training programmes)
- International high quality internships: High Opportunity for the Mediterranean Executive Recruitment (HOMERE) - A UfM labelled programme

Action II Quality of engineering degree programmes

- Quality - Accreditation - Labelling
- Next MedAccrid congress at Marrakech (MO) april 25-26 2018

Action III Scientific and cultural programmes

- CLIMed - Engineers and & climate change
- Water Management
- Gender equality (H2020 TARGET)
- Intercultural dialogues (Michelangelo workshops)

SDG's addressed



Engineers & Climate change

Climate change

CLIMed

- Mediterranean is a part of the world "hot spots" of climate change
- Responses to climate change need a global approach where **intercultural dialogs** are at the heart
- CLIMed is a RMEI programme that aims:
 - to develop **outreach activities for students** relative to this topics during their training
 - to propose dedicated lectures, workshops, etc
 - to foster dialogues between engineers, architects, managers and agronomists by bringing them in **working groups on relevant topics** (green building, smart cities, water management, **pollution**)

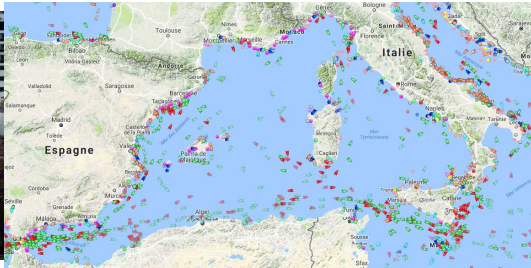
Partenaires du projet: ECMarseille (FR); ENIM, ENISO, ENIS, INAT (TN); ENSIM, AIAC, IAV (MO); Univ Islamique de Gaza (PS); Cairo univ. (EG); USEK (LB), AUT (GE).



Engineers & Climate change

CLIMed

What: air pollution in coastal cities due to cruise ship traffic



- Cruise ships come closer to the city centers generating strong nuisance for the inhabitants
- The situation can only get worse given the inexorable increase in traffic
- MARPOL protocol has put in place controlled emission zones in which the sulfur content of fuels are regulated (Sulfur Emissions Control Areas, SECAs)
unfortunately not in the Mediterranean area...before 2020-2025

CLIMed programme for Air pollution in coastal cities

How: by a research programme in 3 points

- Make an inventory (traffic and pollutant measurements) of the situation in a group of 5-10 cities
- Scientific analysis by numerical modeling (computing the real impact of the pollutant by coupling state of the art Weather Forecast and pollutant transport softwares)
- Propose sustainable solutions for the electric supply of boats (Offshore wind turbines / Fuel cells)

With: companies, researchers and young engineers during their training

- Top labs all around the Mediterranean will propose internships on that topics
- High quality internships **benefiting of the HOMERe management**
- 2017-2018 the program will start with 10 interships



H. Saxe (2004)

Engineers & Climate change

CLIMed

Main outcomes

- Real data on the problem in several cities
- Better knowledge of the pollutant behaviour in the urban area
- Proof of feasibility of innovative sustainable solutions
- Training of young engineers/managers/architects on the field
- Make reports for policy makers



Budget

- 62 k€
- 10k€ by local authorities
- 2k€ by RMEI
- **We need 50k€ mainly for supporting:**
 - Student salaries
 - Student travels
 - Small equipment costs

Thank you for your attention and support !!