



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



Climate Change and Coastal Adaptation Day

The challenging synergy among research institutes, public authorities and enterprises towards climate-smart development

Bologna, April 20th 2015

Emilia-Romagna Regional Headquarters

Via Aldo Moro, 50

Hall: *Sala Polivalente "Guido Fanti" - Assemblea legislativa*

Rationale and Purpose of the Conference

Coastal areas are essential for the social and economic well-being of many nations, containing large human populations, supporting significant socioeconomic activities and being home of diverse ecosystem services. They are also particularly exposed to extreme events and climate change impacts.

Methods to assess impacts, vulnerability and risk have been advanced and new technological and non-technological solutions have been tested. What is still missing is a harmonised multi-scale approach (European/National, regional, local) considering different time-scales (2050, 2100) to model climate change effects (a.o. increased sea temperature, sea level rise, ocean acidification, water salinization) on societies, economies and ecosystems and promote adaptation plans.

The purpose of the day is boosting a participatory roadmap for climate smart development of coastal areas, in the spirit of the overall aim of the EU Adaptation Strategy (2013).

The conference is organised by the University of Bologna, which is leading/involved in many ongoing research initiatives on climate change, coastal structures and risk assessment, in close cooperation with other European research institutes and universities. Among such initiatives, the Department of Civil, Chemicals, Environmental and Materials Engineering (DICAM) coordinated the FP 7 project THESEUS (www.theseusproject.eu), leading to a holistic framework for risk management and to strong international synergy with other key Universities and Institutions, and is cooperating with Delft University of Technology on Coastal Engineering and Hydraulic Structures&Flood Risk.

The day brings together scientists, public authorities and coastal managers, private consultants and constructors to present the key challenges induced by climate change, the advances of the technological and non technological strategies towards risk reduction and the opportunities offered by cross-sectoral synergies. It is therefore targeted to practitioners, PhD students, engineers, consultants, policy makers and scientists working in the field.

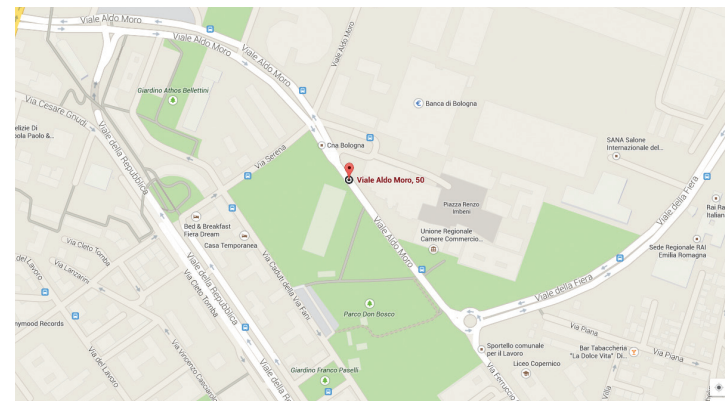
The event is supported by the Climate-KIC (www.climate-kic.org) through ASTER and is kindly hosted by the Official Council seat of Regione Emilia Romagna in Bologna. It is also under the auspices of the Royal Embassy of the Netherlands, Rome.

Practical information

Venue:

Emilia-Romagna Regional Headquarters
Via Aldo Moro, 50

Hall: *Sala Polivalente "Guido Fanti" - Assemblée legislativa*



How to get to the venue:

From the Railway Station:

Bus n. 10, 35 or 38 (bus stop: ALDO MORO) – 10 minutes trip

More info: <http://www.tper.it/>

From the Airport:

Bus "BLQ" – 20 minutes trip to the Railway Station

More info: <http://www.tper.it/content/linea-blq-aeroporto-stazione-centrale>

Taxi: +39 051 372727

Registration:

Attendance to the event is free, but registration is mandatory.

For registration and further information about the conference:

<http://www.unibo.it/en/ClimateChangeCoastalAdaptation>

Accommodation and Tourist info:

<http://www.bolognawelcome.com/en/>

Programme

10.00 -10.45 **Welcome and introduction**

Chair: Prof. Barbara Zanuttigh - University of Bologna
Prof. Ivano Dionigi, Rector - University of Bologna
Dr. Giuseppe Bortone - Regione Emilia Romagna
Prof. Francesco Ubertini, Head of DICAM - University of Bologna

10.45 -12.00 **Management policies, practices and challenges**

Chair: Prof. Francesco Ubertini - University of Bologna
Dr. Luca Marangoni, Team Leader for Maritime Policy in the Mediterranean and Black Sea - Directorate General for Maritime Affairs and Fisheries, European Commission: *Integrated Maritime Policy in the Mediterranean*
Prof. Bas Jonkman - Delft University of Technology, NL:
The Delta programme
Eng. Pierpaolo Camprostrini - CORILA & JPI Oceans, Italy:
Costal protection issues in the frame of JPI Oceans and BlueMed initiatives
Dr. Arianna Cecchi - Climate-KIC Emilia-Romagna - ASTER, Italy:
Innovation, Education and Entrepreneurship: success cases and opportunities in the Climate-KIC

12.00 -13.00 **Climate change impacts in coastal areas and adaptation**

Chair: Prof. Marcel Stive - Delft University of Technology
Prof. Robert Nicholls - University of Southampton, UK and IPCC representative:
Climate change trends, challenges for coastal areas and adaptation strategies
Prof. Phoebe Koundouri - Athens University of Business and Economics, GR:
Economics in shaping up coastal Management: Nature, People and Institutions
Prof. Luca Pietrantoni - University of Bologna, Italy:
Early warning and risk communication

13.00 -14.00 **Lunch Break and networking**

14.00-15.20 **Innovative approaches across Europe and in Italy**

Chair: Prof. Phoebe Koundouri - Athens University of Business and Economics
Prof. Marcel Stive - Delft University of Technology, NL:
Working with nature: the Sand Engine experience

Dr. Tjeerd Bouma - Royal Netherlands Institute for Sea Research, NL :
Preserving and enhancing ecosystem services for coastal resilience

Eng. Ir. Daan Rijks - Boskalis, Italy:
Sustainable development of marine infrastructure from a contractors prospective

Dr. Diego Paltrinieri - Arenaria, Italy:
Public-private partnership for integrated long-term beach management

15.20- 16.20 **Advanced methodologies and tools for sustainable coastal risk assessment and management**

Chair: Prof. Robert Nicholls - University of Southampton

Dr. Chiara Farinea - D'Appollonia, Italy:
Implementation of adaptation policies in land use planning

Prof. Andrea Taramelli - IUSS Pavia and ISPRA, Italy:
Copernicus Downstreaming and Support to Decision Process for resilient societies. Results from Ecostress

Prof. Barbara Zanuttigh, with Dr. Marina Colangelo, Prof. Luca Pietrantoni and Prof. Fabio Zagonari - University of Bologna (campus: Bologna, Ravenna, Cesena, Rimini), Italy: *Decision making for sustainable coastal defence planning strategy. Results from THESEUS*

16.20-17.30 **Discussion and round-table: What are the priorities and the challenges towards climate smart adaptation in coastal areas?**

Chair and moderator: Dr. Giuseppe Bortone - Regione Emilia Romagna
With the intervention of: Eng. Paolo Lupino - Regione Lazio and Eng. Roberto Montanari - Regione Emilia Romagna, Italy

Closure Prof. Barbara Zanuttigh - University of Bologna



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In cooperation with:



Scientific Organizer

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