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National Institute
of Oceanography
and Applied
Geophysics

Developing skills to feed jobs in the Mediterranean

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International Cooperation and Research Promotion - ICAP
National Institute of Oceanography and Applied Geophysics - OGS
Italy

Blue Skills: enhancing capacities and developing skills

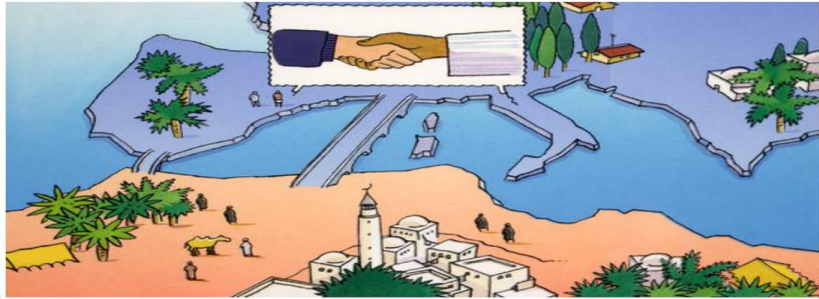
The Blue Skills initiative is implemented by the **National Institute of Oceanography and Applied Geophysics - OGS** on behalf of the **Italian Ministry of University and Research (MUR)**, within the framework of the **Western Mediterranean Forum (5+5 Dialogue)**.

Blue Skills won the **Best Project Award 2021** and was **labeled by the Union for the Mediterranean (UfM)** in 2019.

Within its international mission, OGS promotes cooperation and dialogue amongst individuals, institutions and countries through the instrument of **Science Diplomacy**.



Educate for regional dialogue



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Blue Skills: winner of the Best Project Award



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Blue Skills: the project

Financing	Italian Ministry of University and Research
Budget	€ 1.000.000
Duration	5 years (Jan 2019 – Dec 2023)

An initiative promoted by all Countries of the 5+5 Dialogue, benefitting all Countries of the Union for the Mediterranean (UfM)



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Partners

LEAD: Italian National Institute of Oceanography and Applied Geophysics - OGS(IT)

- Algerian National School of Marine Sciences and Coastal Management (DZ)
- Libyan Authority of Natural Science Research and Technology (LY)
- University of Malta (MT)
- University of Nouakchott Al Aasriya (MR)
- National Institute of Oceanography and Fisheries of Mauritania (MR)
- Polytechnic University of Madrid (ES)
- Higher Institute of Fisheries and Aquaculture of Bizerte - ISPAB (TN)
- Euro-Mediterranean University of Fez (MA)
- Chouhaib Doukkali University - UCD (MA)
- Centre for Marine Sciences of the Algarve – CCMAR (PT)
- Aix Marseille University (FR)



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Blue Skills: Italy's contribution to the 5+5 Dialogue



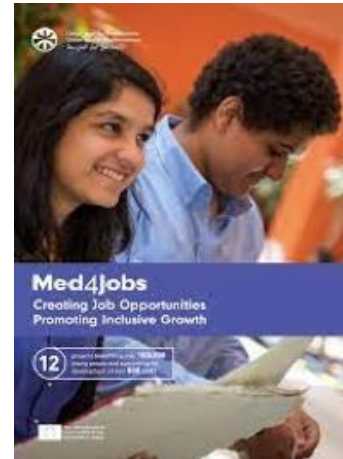
Western Mediterranean Forum, Nouakchott, Mauritania, October 2022



Blue Skills: synergies with UfM Med4Jobs initiative

UfM Ministerial References

- Research and Innovation (2022)
- Blue Economy (2015)
- Environment and Climate Action (2014 and 2021)
- Valletta Declaration on Research and Innovation (2017)
- Employment (2019)
- UfM Ministerial on Blue Economy (2021)



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Towards ecological transition and digital transformation



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The Mediterranean: a sea of opportunities

30% of trade and transport of oil goes through the Mediterranean

20% of global maritime transport goes through the Mediterranean

10% of the global GDP is generated in the Mediterranean



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Youth unemployment rate 2021

(Source: International Labour Organisation, [ILOSTAT](#))

- Spain 34.8%
- Italy 29.7%
- Portugal 23.4%
- France 18.9%
- Malta 9.6%
- Tunisia 34.9%
- Algeria 25,7%
- Morocco 22.2%
- Mauritania 21,1%
- Libya 48,7%
- Albania 27%
- Bosnia and Herzegovina 35,1%
- Croatia 21,9%
- Greece 35,5%
- Montenegro 36%
- Serbia 25,5%
- Slovenia 12,8%

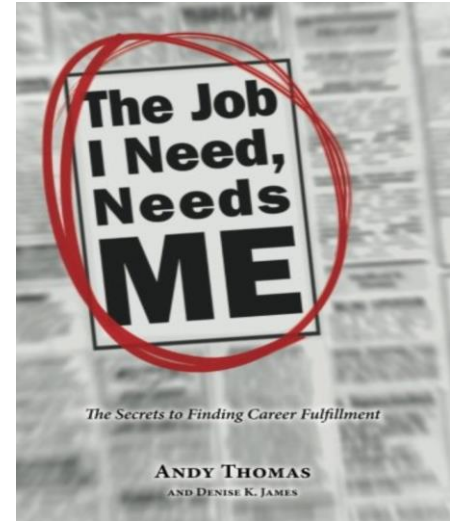


Identified gaps: mismatch between the training offer and the market needs

A few examples:

- around 30 % of the companies in the **offshore renewable energy** sector claim that needed skills are unavailable or that they face shortages (Source: The EU blue economy report 2022)
- in the sector of **maritime transport** skills are needed to promote efficiency and reduce harmful environmental impacts
- (Source: Report of the European Marine Board, 2018)

*“However, the reality is that **training often fails to provide the suite of multi-disciplinary expertise** that will make highly-trained marine graduates attractive to employers outside of academia.”*



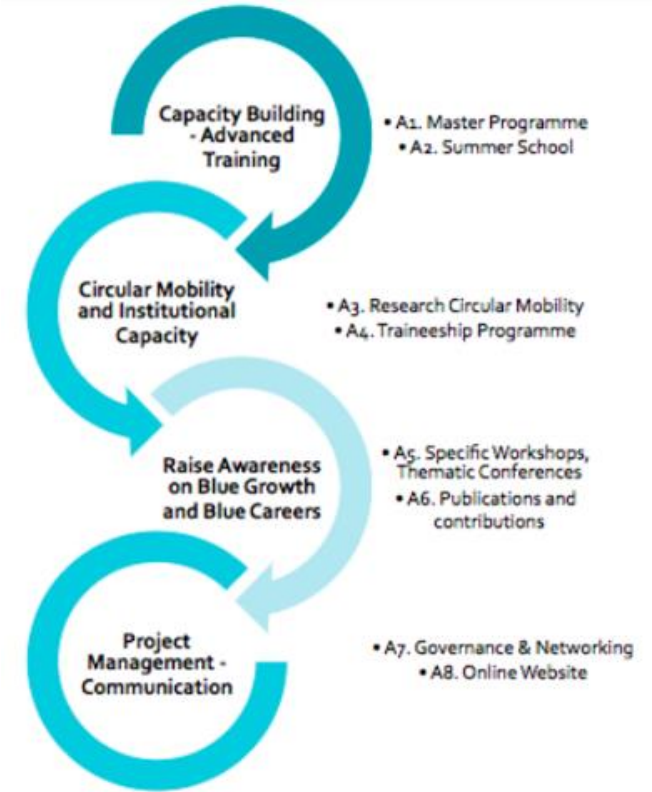
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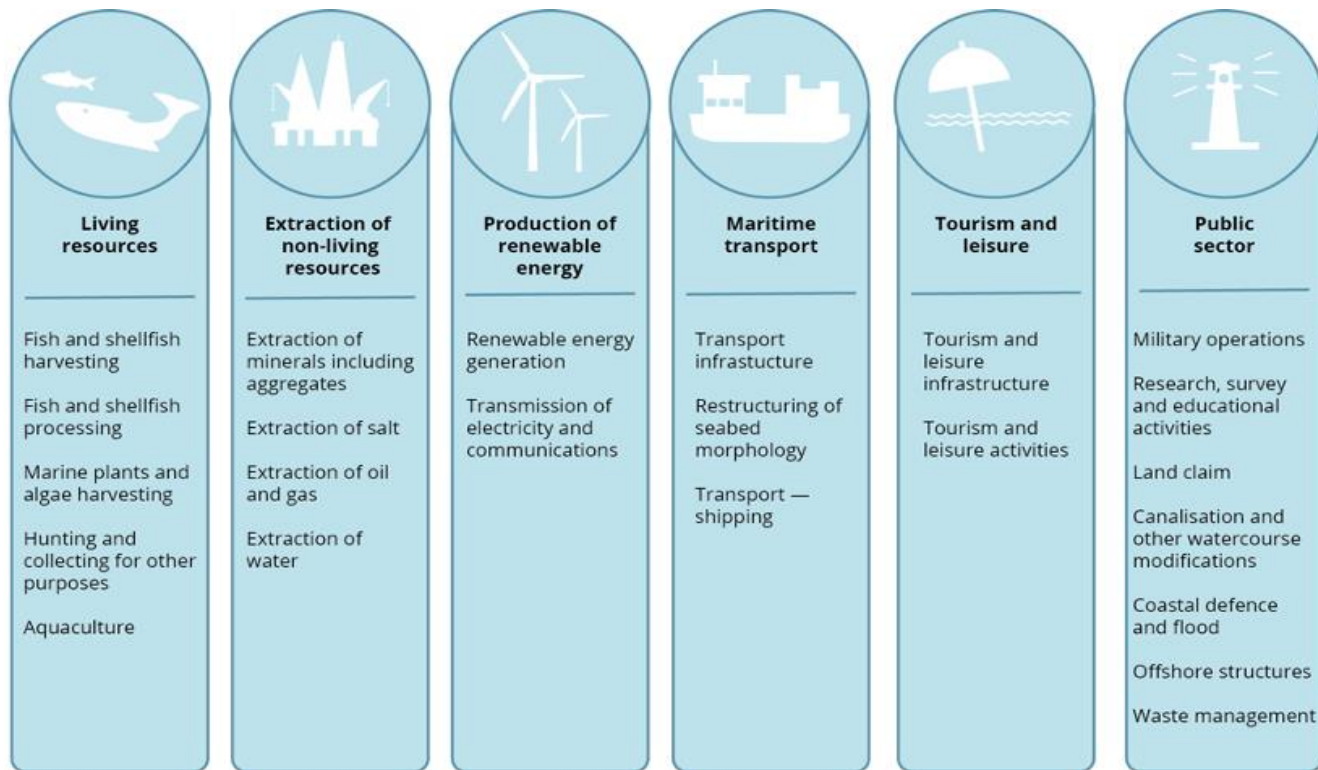
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Blue Skills: the training path activities



An advanced multidisciplinary training



Advanced Master in Sustainable Blue Economy

KEY FEATURES



12 months

3 face-to-face sessions:

- Spring session (2/3 weeks in March);
- Summer session (2/3 weeks in June);
- Autumn session (2/3 weeks in September).



English



From 10 to 25 participants

From all the Mediterranean and Black Sea countries.



3.200,00 €

Scholarships including full fellowships (covering registration fees, travel and accommodation) and partial fellowships (covering the registration fees only) will be available.



Multidisciplinary

Oceanography (physics, chemistry and biology), marine biology, geology, geophysics, geochemistry, environmental engineering, ecological modelling, climate study, coastal zone management, environmental economy and related fields.



Trieste, Italy
OR
Online

University of Trieste - main campus, Piazzale Europa
OGS building, via Beirut 2, Grignano.
If the pandemic situation doesn't allow to travel the Master will be held entirely online.

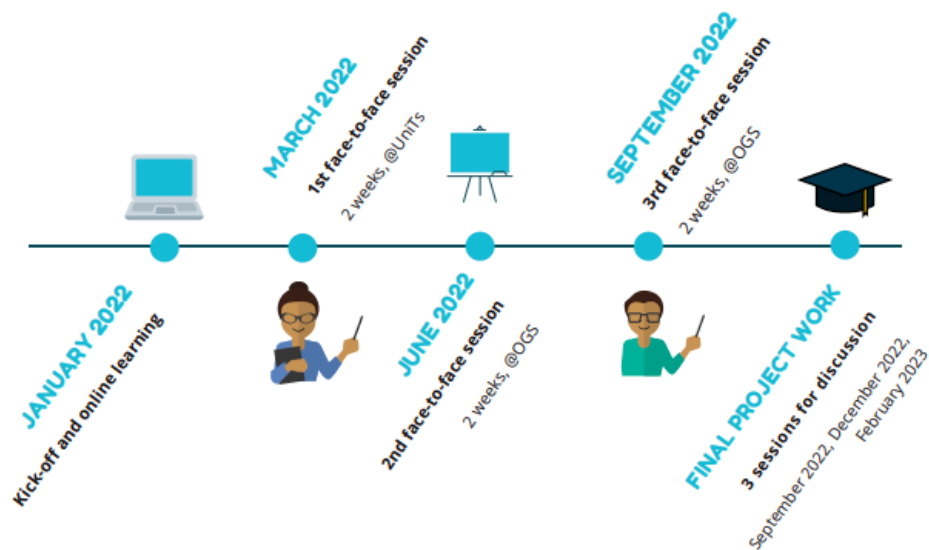


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DIDACTIC CONTENTS

Soft skills enhancement, traineeships, job-oriented activities, networking events

First session

Introducing blue
economy issues and
resources

Second Session

Tools for assessing
and
developing strategies

Third Session

Instruments and
policies
for integrated blue
growth

E-learning platform: virtual classroom - online tests and evaluations



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FIRST EDITION

2018

87
applications



21
participants



8
Nationalities



7 Men 14 Women



SECOND EDITION

2019

47
applications

16
participants

9
Nationalities

9 Women 7 Men

THIRD EDITION

2020

50
applications



18
participants



8
Nationalities



9 Men 9 Women



FOURTH EDITION

2021

53
applications

25
participants

9
Nationalities

13 Women 12 Men



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Fifth edition, Academic Year 2021-2022

87
applications



22
participants



10
Nationalities



7
Men

15
Women



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Jasem Albanai
Remote sensing of
oceanography



Imane Benazzouz
Coastal Engineering:
environmental management
and sustainable development



Nadia Chaguer
Environmental Sciences



Abir Gharbi
Fisheries and environment



Ayoub Haouas
Biotechnology and Environment



Ghita Harrak
Coastal Engineering:
Environmental Management
and Sustainable Development



Alessandro Gibertini
Marine Sciences, Energy
Engineering



Giulia Giorgi
Marine Sciences, Biology



Evagoras Isaïas
Biology, oceanography



Imane Joudar
Marine Geosciences/ Coastal
and Marine Science



Zaina Idardare
Marine ecotoxicology



Laura Khatib
Development Economics



Adla Kahrîc
Ecology, Genetics



Naouel Mekarma
Biology, Parasites, Ecology and
Environment



Fatima Zahra Karmil
Environmental Engineering
applied to Marine Geochemistry



Zaynab Nemr
Environmental Geoscience and
Information Management



Elisabetta Mutto Accordi
Political Sciences



Flavia Rolli
International Relations



Francesco Paron
International Relations



Anas Tallou
Environmental studies



Dritan Rustja
Physical Geography, Natural
Hazards, Urbanisation, cities
and rural areas, Marine
Sciences



Margherita Zorgno
International Relations



Tamara Spiegl
European Management Studies



Margherita Zorgno
Marine Ecology and Resources
Management



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Where do our students come from?

	TOTAL	2018	2019	2020	2021	2022
Albania	1					1
Algeria	11	3	2	2	3	1
Barbados	1		1			
Bosnia and Herzegovina	1					1
Brazil	1				1	
Cyprus	1					1
Egypt	1				1	
France	3				2	1
Germany	1					1
Greece	1		1			
Iran	1	1				
Italy	22	8	1	2	5	6
Kuwait	1					1
Lebanon	2			1		1
Libya	2	1	1			
Morocco	24	3	3	3	7	8
Palestine	1	1				
Romania	1			1		
Serbia	3		1	2		
Spain	2				2	
Trinidad and Tobago	1		1		1	
Tunisia	17	4	5	6	1	1
Turkey	1			1	1	
United States	1				1	
Yemen	1					

- 65.7% come from developing Countries
- 79.4% come from Countries of the 5+5 Dialogue



Age, Qualification & Occupational status

FIRST EDITION

13 Employed  33 years old (average)  29 years old (average)  8 Employed

15 Master 6 PhD  2 PhD 14 Master

THIRD EDITION

14 Employed  33 years old (average)  32 years old (average)  14 Employed

15 Master 3 PhD  7 PhD 18 Master

FIFTH EDITION

 31 years old (average)  17 Employed

 4 PhD 18 Master

Alumni Day: meeting the Blue Skills community



2 July 2022



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Application

Applications open in August every year! More information on www.blueskills.org.it



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Summer School

- Organized by OGS since 2014
- Targets: postgraduate students of any discipline related to the Blue Economy
- UfM member countries



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Summer School

SUSTAINABLE BLUE ECONOMY

SUMMER SCHOOL 2014 - 2019



4000
applications



244
participants



27
Countries



24-50
Years old



100%
Fellowship



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Summer School

2021 - online



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development



15
days



158
applications

38
participants



18
Nationalities



26
Women

12
Men



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Summer School

2022 - Trieste



Copernicus Marine Services as a supporting tool
to foster Sustainable Blue Economy



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Deep Blue

Developing Education and Employment Partnerships for a Sustainable Blue Growth in the Western Mediterranean Region

PARTNERSHIP

OGS	National Institute of Oceanography and Applied Geophysics	ITALY
USFAX	University of Sfax	TUNISIA
UPM	Polytechnic University of Madrid	SPAIN
ISPA	Higher Institute of Fishing Technologies and Aquaculture	TUNISIA



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KEY FIGURES

- January 2019 – June 2021
 - 30 months
 - 4 Partners
 - 3 Mediterranean Countries
 - 3 Advanced Trainings
 - 1 Study Visit
 - 30 Fellowships (from 3 to 6 months)
 - 1 Online Final Event
- Overall budget: €501 369
 - EU contribution: €401 095 (80% of the overall budget)
 - **Programme fund: European Maritime and Fishery Fund (EMFF) - Sustainable Blue Economy Call 2017**

Training of trainers on MSP

September 2019, Trieste, Italy



18 participants from 11 Mediterranean countries



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Talent circulation

Mobility program for young professionals in the marine and maritime field:

- researchers
- post-graduated students
- young scientists
- engineers
- entry-level high skilled professionals



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Mobility programme



Deep Blue stories: Doaa in Rome

Deep Blue Stories #4 | Doaa Hussein participated in the Deep Blue Mobility Program to accomplish a clear goal: the application of life cycle assessment methodology for sustainable production of marine fisheries in Gaza Strip-Palestine, in order to preserve quality of life adhering to sustainability principles.



Deep Blue stories: Piero in Greece

Deep Blue Stories #1 | Piero Fontolan participated in the Deep Blue mobility project this year, travelling to the Grecian isle of Lipsi to take part in an evaluation of the Katsadian bay. The main goal was to ***“evaluate how much less stress an ecosystem such as Katsadia would suffer thanks to the installation of ecological fixed moorings”*** to prevent an excessive number of boats affecting its ecological value.



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Our students, our talents



Andrea Lanza, Programme Assistant at the European Commission, DG MARE



Vera Noun, Marine Policy and Ocean Literacy project coordinator at ACTeon Environment



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Strengthening partnerships

Trieste system (TS)



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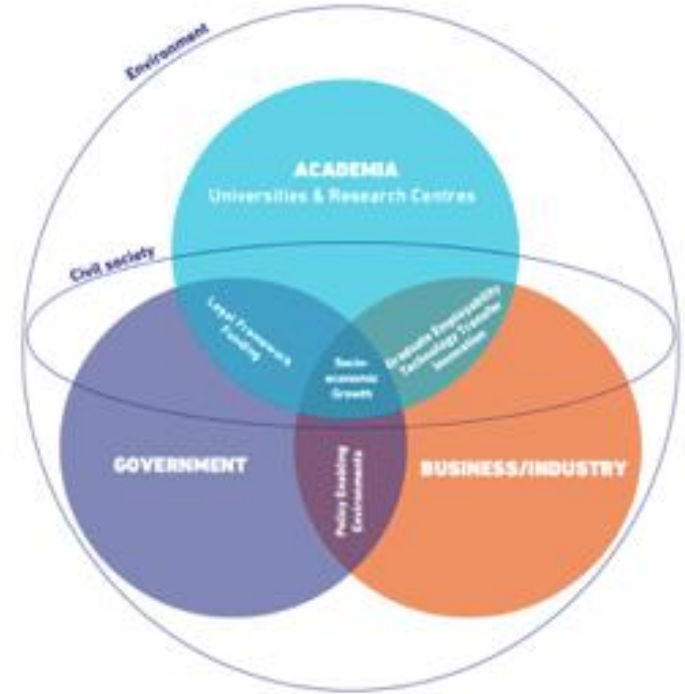


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The triple helix

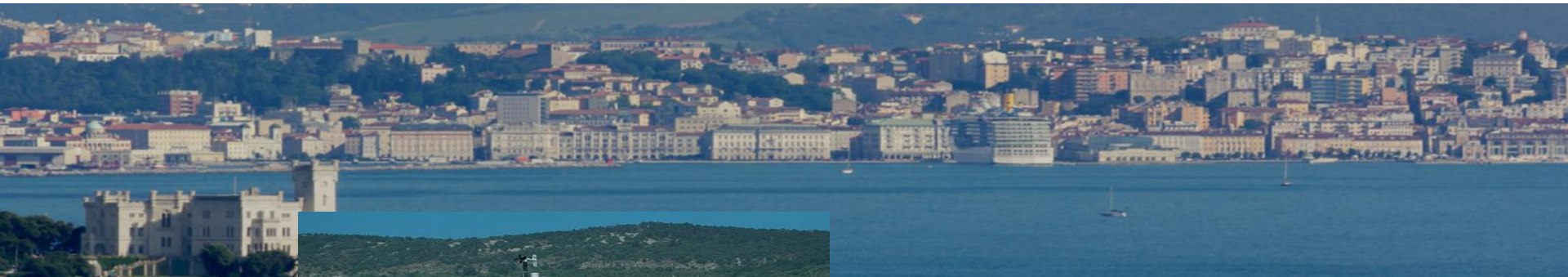
Research and academia can make blue economy capable of fully embracing technological progress, new innovative business models or managing the shift from a global to a more local economy and above all the transition to a greener, smarter and more resilient blue economy.





If you want to walk fast,
walk alone. But if you want
to walk far, walk together.

thank you!



Mounir Ghribi