

One Mediterranean:

practices, results and strategies for a common Sea

BlueMed CSA Final Conference

Feb. 22-24, 2021

ECOMEDPORT Start-up Action

Feasibility study of an ecosystem-oriented plant for sediments
management in

Mediterranean ports and marinas

Prof. Marco Pellegrini – Prof. Cesare Sacconi

University of Bologna

blue**med**

Research and Innovation
for blue jobs and growth
in the Mediterranean Area

ECOMEDPORT – The partnership

Start-up Action partners



1. University of Bologna
leading partner



2. Trevi S.p.A.
co-lead



3. Institute National Des Sciences et Technologies
De La Mer (INSTM)



4. Al Midan NGO



5. Ydronomi Consulting Engineers

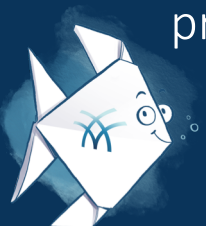
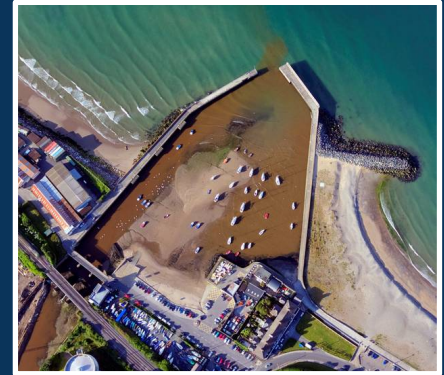


ECOMEDPORT – What is about?

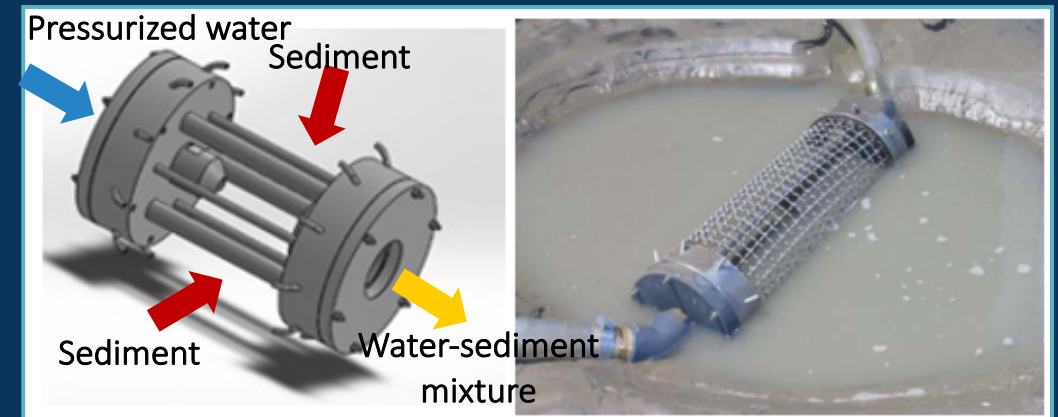
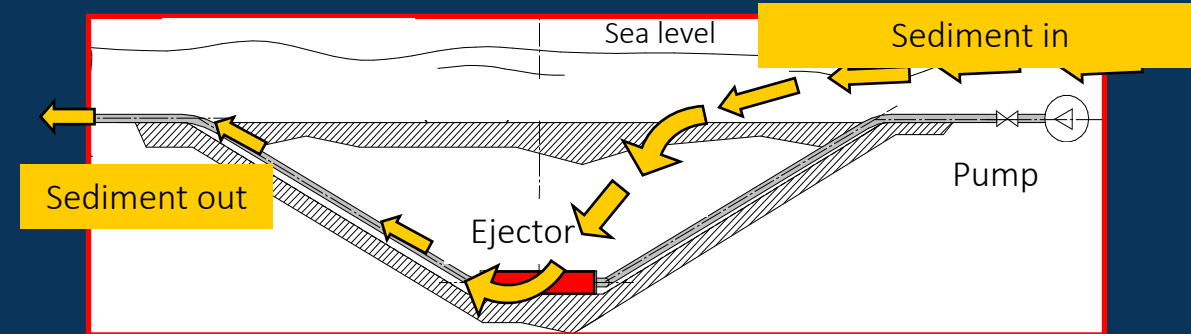
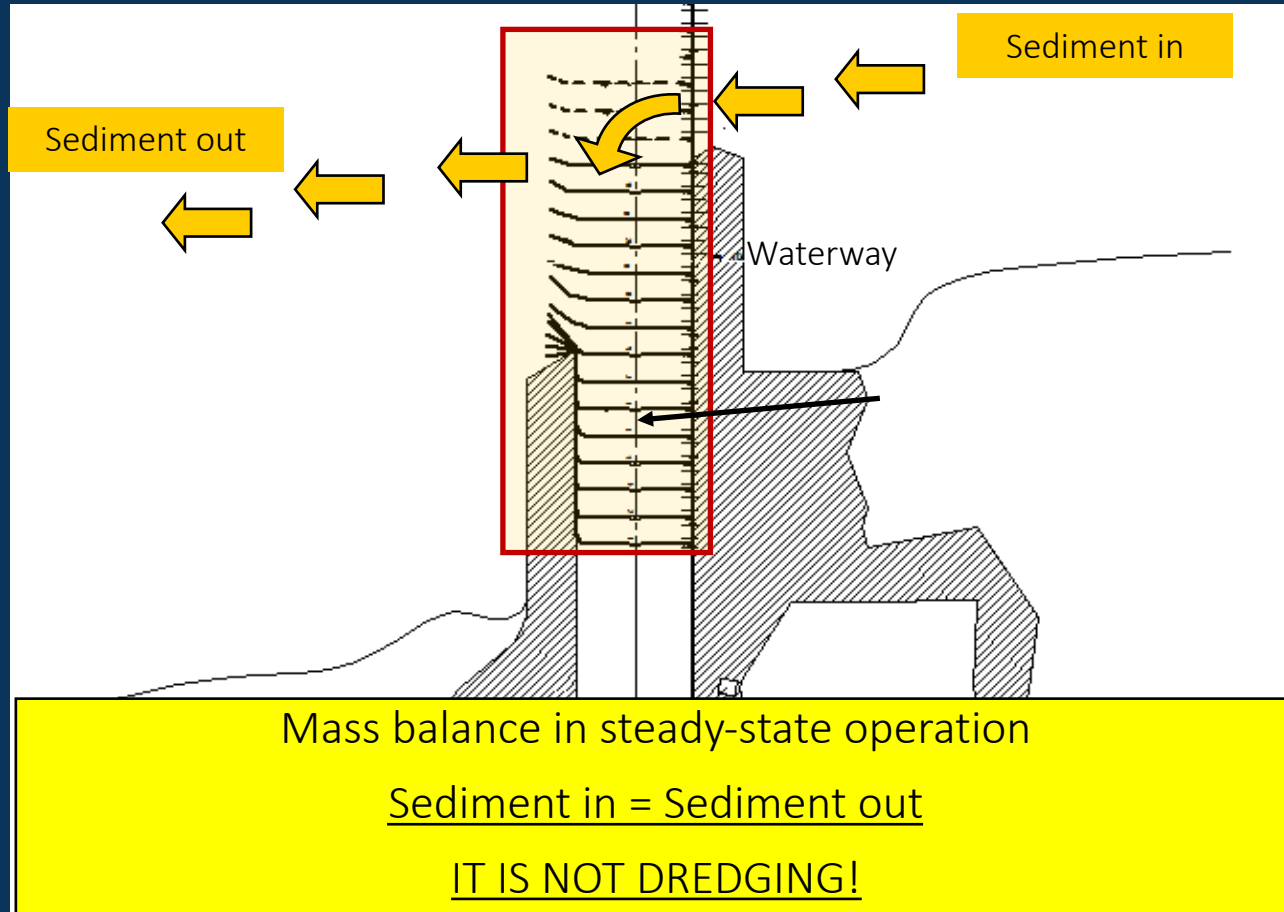
The issue: sediment dynamic in harbours and ports usually creates sedimentation and/or erosion concerns, producing navigability limitations or beach erosion.

The available solution: Dredging, which is a well-known and effective technology, but accompanied by high environmental impacts and costs, can solve the problem but for a limited time, and cannot work with bad weather.

The solution suggested by ECOMEDPORT: A novel technology – the *ejectors plant* - developed in Italy and that is under industrial demonstration phase in two European projects, LIFE MARINAPLAN PLUS and CO-EVOLVE (Interreg-MED).



ECOMEDPORT – The ejectors plant



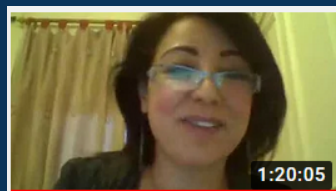
ECOMEDPORT – The goals and the results

1. To organize three events: the first in Italy as a technology showcase for invited experts, the other ones to engage local stakeholders interested in ejectors plant technology replication.

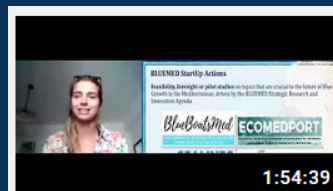


26-27-28 September 2019

Project meeting in Bologna plus conference and demo site visits in Cervia and Cattolica



2nd ECOMEDPORT conference - live webinar

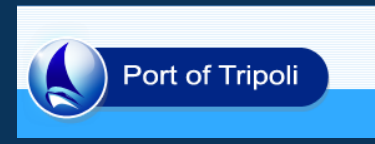


3rd ECOMEDPORT conference - live webinar

28 May 2020 and 6 July 2020

Two webinars organized with local (Lebanon and Tunisia) stakeholders
- available on YouTube -

Main stakeholders engaged



Events	Participants
Italy	>100
Lebanon (on-line)	34
Tunisia (on-line)	32



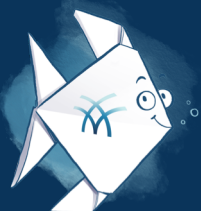
ECOMEDPORT – The goals and the results

2. To draft two feasibility studies for the application of the ejectors plant technology in Lebanon and Tunisia.

Tripoli port - Lebanon



Houmt Souk harbour - Tunisia



ECOMEDPORT – The results

Tripoli port feasibility study



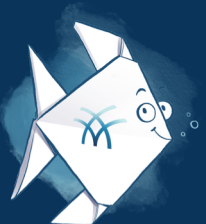
To protect fishery
port inlet:

10-ejectors plant
800 k€ investment
64 k€/year O&M



To protect 50 meters
of docks:

5-ejectors plant
300 k€ investment
40.5 k€/year O&M



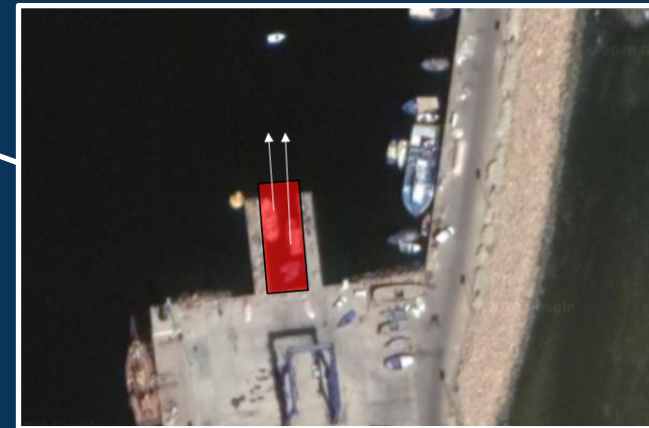
ECOMEDPORT – The results

Houmt Souk harbour feasibility study



To protect harbour inlet:

5-ejectors plant
500 k€ investment
32 k€/year O&M



To protect towing basin:

2-ejectors plant
80 k€ investment
14.5 k€/year O&M



ECOMEDPORT – Follow-up

1. Looking for funds for the realization of demo installations in Tunisia and Lebanon (HorizonEurope, ENI CBCMED, national funds, ...).
2. To continue dissemination actions through ECOMEDPORT website, mailing list, preparation of a scientific paper to estimate the impacts on Lebanese and Tunisian ports and harbours based on Italian demos results.

