

# Work Package 4 Session

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**Emilia-Romagna Region**

**Pilot Area n.2 Cattolica & Comacchio**



**CO-EVOLVE Dissemination event**  
**Barcelona, 5<sup>th</sup> June 2019**



## Pilot Area 2-B) Comacchio, Lido di Spina (Ferrara Province)

*“Plan for the requalification and sustainable fruition of a degraded dune system in Comacchio, Lido di Spina-Logonovo area”*



### • Problems to be tackled

social degradation of the area with abandoned bath-house facility (recently demolished by the Municipality), degraded dune system along the hydraulic right side of the Logonovo channel, degradation of the beach and of the waterfront, decreased attractiveness reflecting on nearby areas affecting local touristic economy, housing and employment;

### • Objectives to achieve

- ✓ Renaturation of the dune system and promotion of its tourism valorization and sustainable management;
- ✓ Elaborate a model of renaturation and valorization of dune systems joining aspects of accessibility, sustainable fruition and environment protection, replicable in other coastal areas;
- ✓ Re-launching tourism attractiveness of the area favoring sustainable tourist activities and new related employment;



## 1. Individuation of local actors to be involved in the participative process

- Municipality of Comacchio (Tourism office, Environment office)
- Civil Protection of Area Po di Volano e Costa, Ferrara (public)
- Delta Po Park Emilia-Romagna (public)
- High school on tourism “Remo Brindisi”

## 2. Individuation of external expert to support the participatory process

- FUTOUR s.a.s

## 3. Individuation of the company to realize the restoration project of the Lido di Spina north beach (Small scale investment)

- The tender was closed in February, the small scale investment will be completed for October

## 4. local meetings with local actors in preparation of Pilot actions

- 5 meetings communication and design in 2017
- 1° Coordinaton board on December, 2° on January 2018, 3° on February 2018 for the co-design of the work

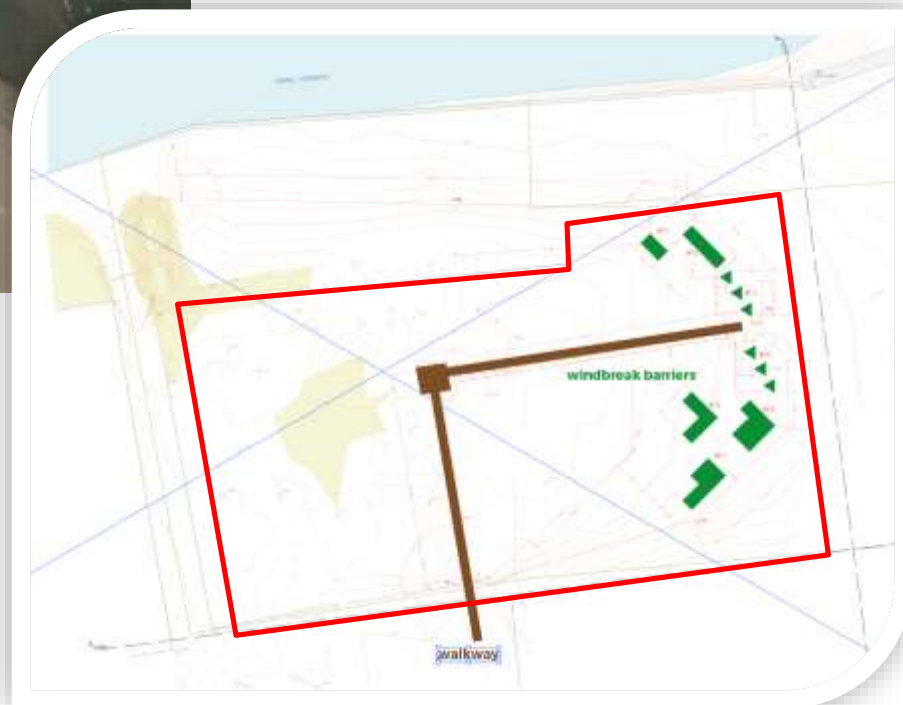




## Pilot Area 2b – Comacchio (FE)



After the demolition of the  
abandoned bath-house facility  
by the Municipality of  
Comacchio



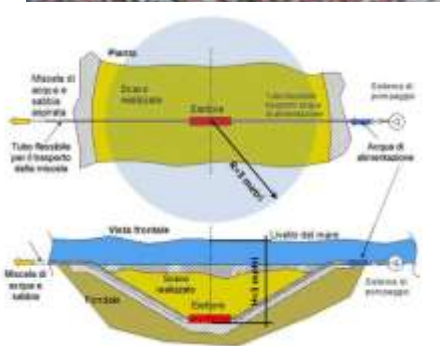
## The small scale investment

- construction of a **wooden walkway** for pedestrains and whellchairs
- realization of **windbreak barriers** for a natural reconstruction of the dune and for rivevegetation of the area



## Pilot Area 2-A) Cattolica harbor and coast area (Rimini Province)

*“Plan for the re-launch and achievement of sustainability condition for tourism and human activities in Cattolica harbor and coast area”*



scheme of the ejector device

### • Problems to be tackled

silting of the harbor, decreased tourists attractiveness of the harbor and of the seaside area, difficulties and crisis in human activities (such as *fishery sector, pleasure crafts production, pleasure boats marina, sea bathing facilities*) reflecting on local economy and employment;

### • Objectives to achieve

- ✓ Creating the conditions for the sustainable management of Cattolica harbor, sediment management;
- ✓ Re-launching of tourism in the area along with sustainability principles implementation;
- ✓ Favoring human activities sustainability, and employment in tourism sector, and in primary and secondary sectors.



## The participatory process

### 1. Local actors individuated for the participatory process

- Municipality of Cattolica (Environment office, Public Domain office)
- Marina of Cattolica (Private)
- Shipyards company (Private)
- Fisherman Association (Private)
- Civil Protection of Area Romagna, Rimini (Public)
- Port authority (Public)
- Tourism advisory board
- Shops/restaurants

### 2. Individuation of external expert to support the participatory process

- FUTOUR s.a.s

### 3. Individuation of the company to realize the de-silting plant (Small scale investment)

- TREVI S.p.A

### 4. A pilot site page on Regional platform of eParticipation “ioPartecipo+”.





# Pilot Area 2a – Cattolica (RN)

Participatory process Co-Evolve Pilot Area 2A – Cattolica (18 Months)	December 2017 - May 2019																	
	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18
Activities																		
Co-design of the Participatory Process, Coordination workshop (Bologna)	21 Dec																	
Co-design of the Participatory Process, Coordination workshop (Bologna)		16 Jan																
Co-design of the Participatory Process, Interactive workshop to plan the public launching event (Cattolica)			8 Feb															
Participatory Process launching event (Cattolica)				9 Mar														
1 <sup>st</sup> Participatory Workshop (Cattolica)					22 Mar													
Opening of “Piazza Co-Evolve” on <a href="#">IoPartecipo+</a> platform					24 Mar													
2 <sup>nd</sup> Participatory Workshop (Cattolica)						11 Apr												
Visit to the prototype ejectors <a href="#">UniBo Lab</a> site (Bologna)							2 May											
3 <sup>rd</sup> Participatory Workshop (Cattolica)							11 May											
Installation of the ejector system by the slipway site, working in temporary mode. Start of monitoring by <a href="#">UniBo</a>									2 Aug	7 Sept								
On-site visit of the certifying body for European CE standard mark										19 Sept								
4 <sup>th</sup> Participatory Workshop (Cattolica)											26 Oct							
Visit area of ejectors, completion of works certification														17 Jan				
Public event presenting the results of participatory Process and Action plan for Cattolica harbour																14 Mar		
Updating of “Piazza Co-Evolve” on <a href="#">IoPartecipo+</a> platform																		





## The participative process, themes and actions individuated



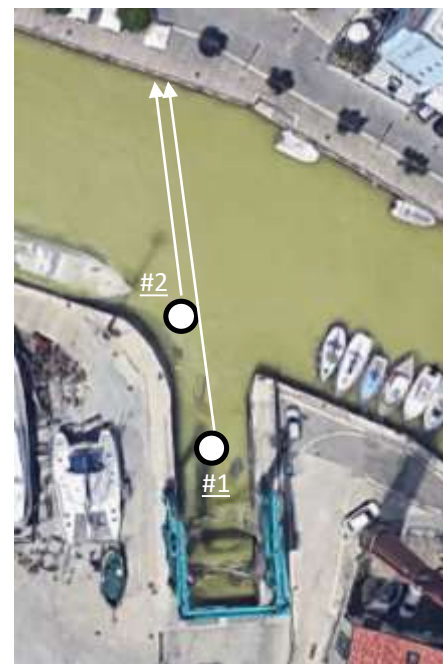
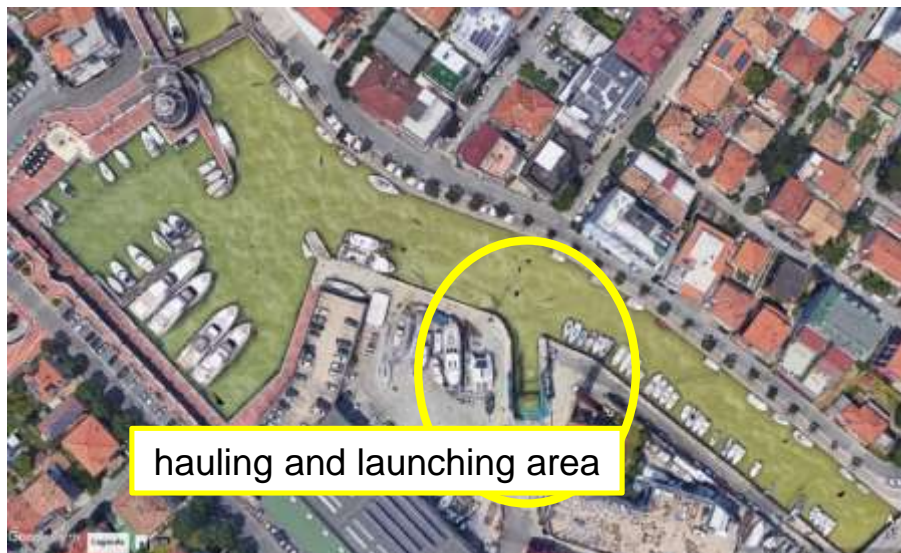
- ✓ **P/P sharing and collaboration** for monitoring and maintenance of the seabed of the port
- ✓ **Sustainable management of the seabed** also through innovative solutions (ejectors plant installed in the hauling and launching area)
- ✓ **Feasibility project of a ejector plant** for all the seabed of the port
- ✓ **Separate collection of waste**, reduction of waste production in the port area
- ✓ **Reduction of river sediment** also through the introduction of territorial management of the river basin

An **Action Plan** to be implemented with the collaboration of different public and private stakeholders, also with specific agreements and memoranda of understanding, for the management, environmental sustainability and re-launch of the Port of Cattolica

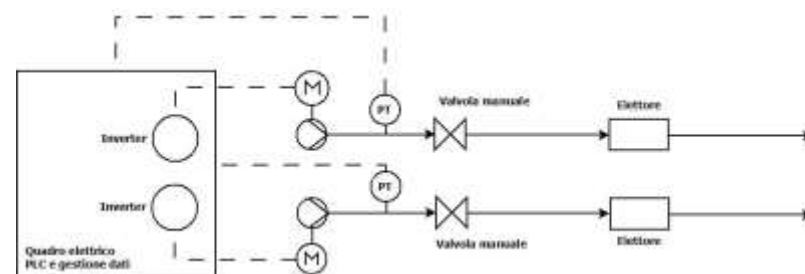


# Pilot Area 2a – Cattolica (RN)

## The small scale investment EJECTOR DEVICES



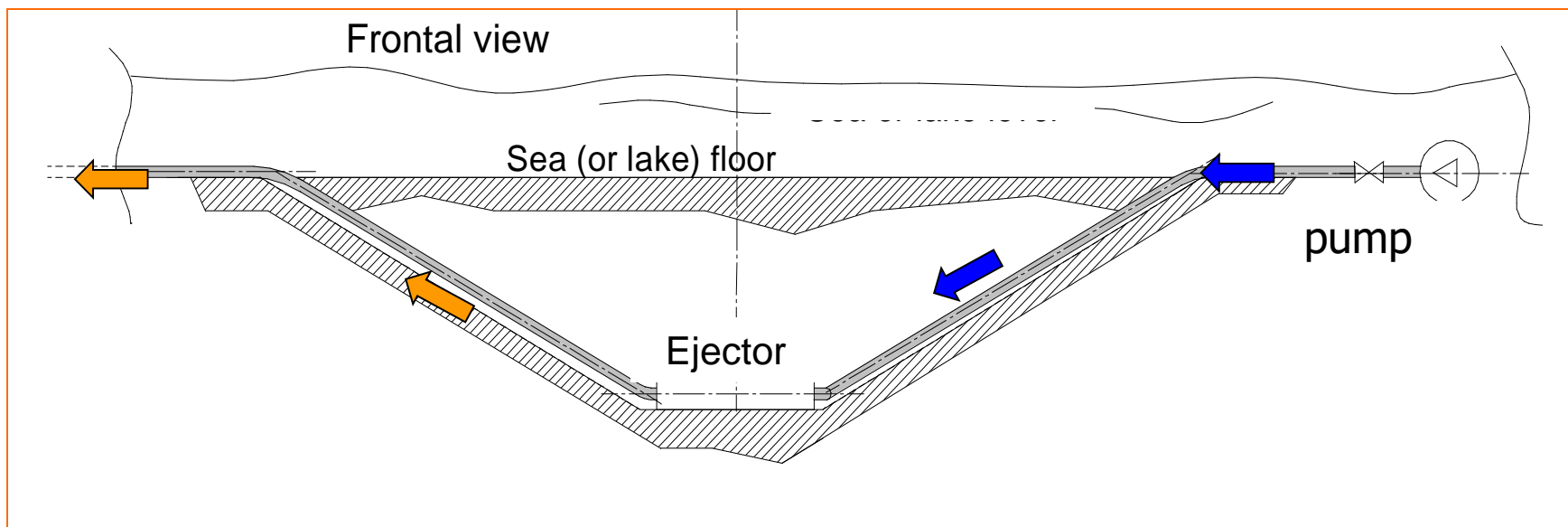
The plant consists of **two ejectors**, all supplied with pressurized water from a submerged pump. The supplied flow is adjustable, even remotely, by inverter system. **The pump regime is programmable by time slot.**





## How it works

The ejector collects the sediment that is naturally settled into its area of influence, and therefore does not introduce or take away anything. Once the plant reaches steady state conditions, the marine ecosystem is no longer modified.

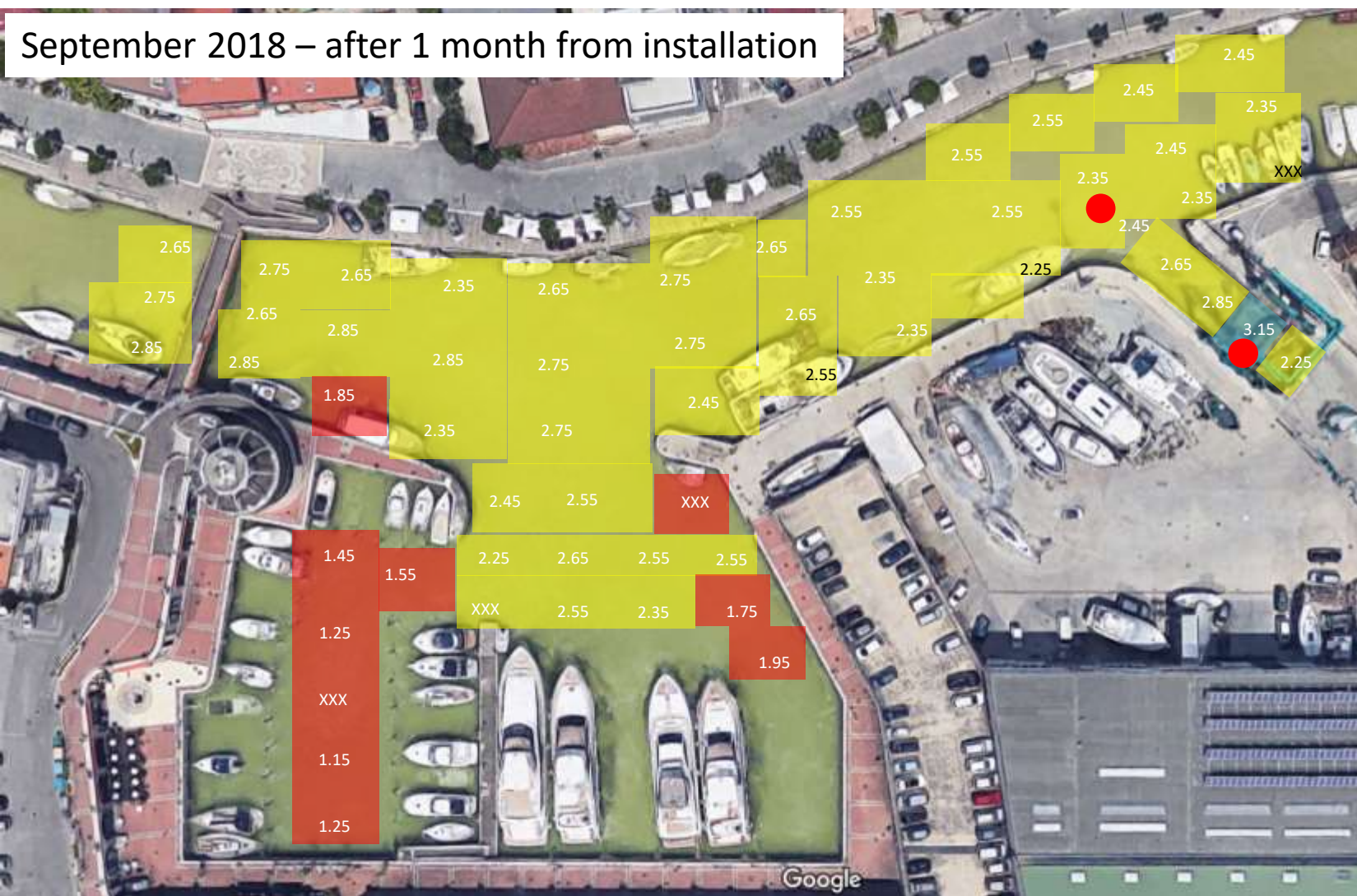






# Pilot Area 2a – Cattolica (RN)

September 2018 – after 1 month from installation





## Pilot Area 2a – Cattolica (RN)

after 2 months from installation



after 3 months from installation





## Pilot Area 2a – Cattolica (RN)

after 4 months from installation



## Pilot Area 2a – Cattolica (RN)

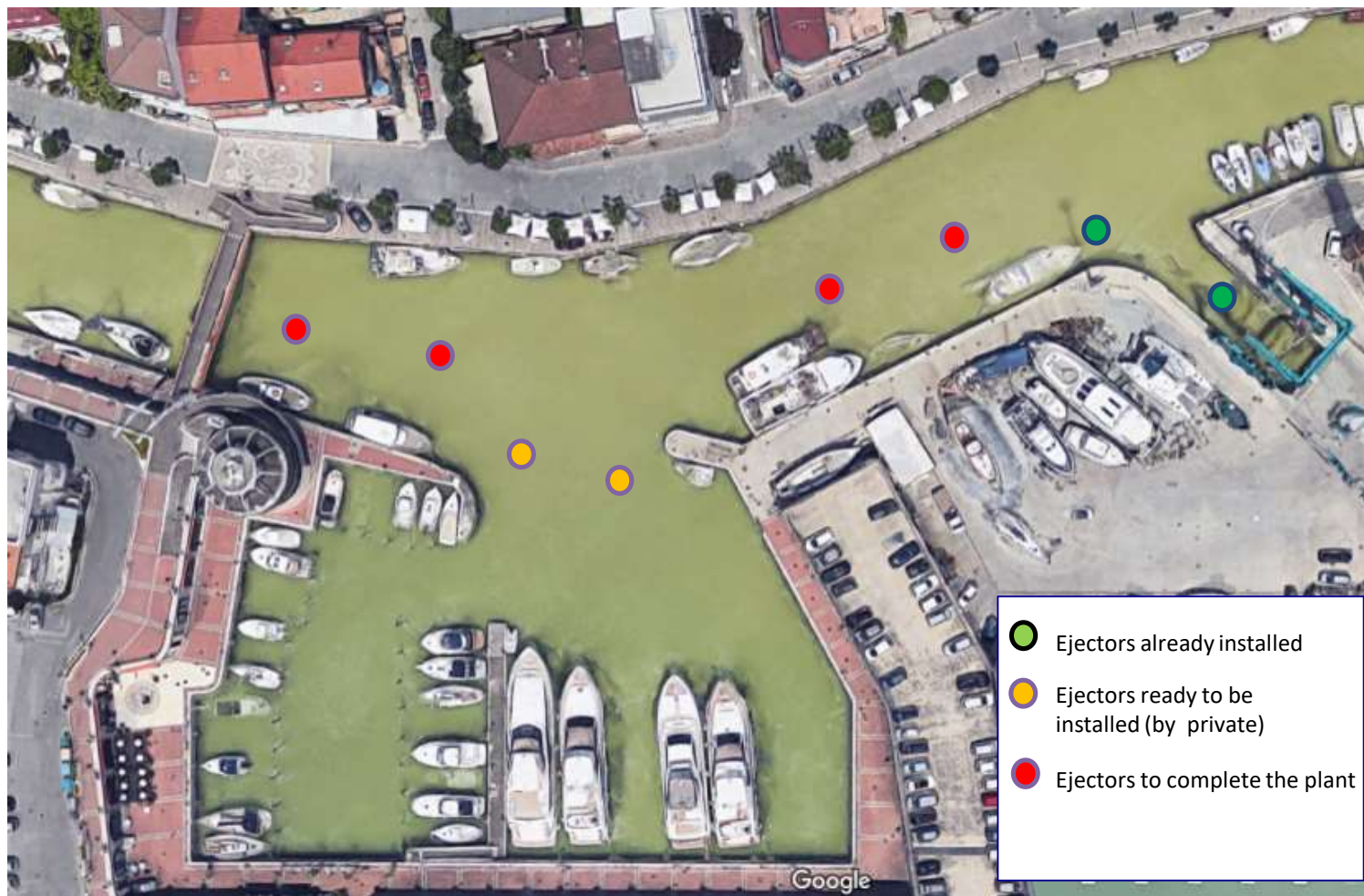
after 4 months from installation







## Future development





## Future development









**Thank you!**

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