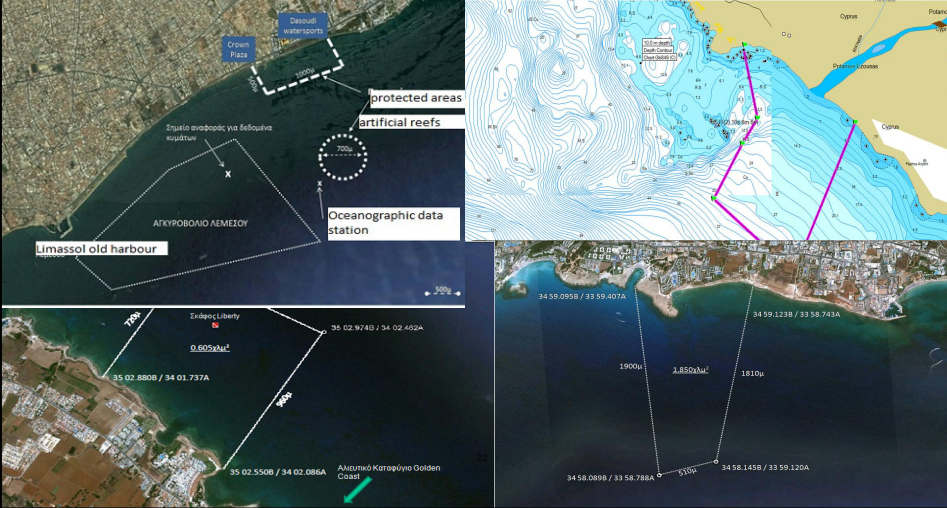

Artificial Reefs in Cyprus: an alternative fisheries management tool
 Giorgos Bayadas, Department of Fisheries and Marine Research (DFMR),
 Marine Environment Division, CYPRUS




The strategy

Overall goal: To establish four new Marine Protected Areas (MPA) with ARs  (no-take zones) by 2014 in order to enhance fish stocks by increasing habitats and protecting the surrounding marine environment.










One protected area with ARs has been established in Amathounta, Limassol (2009)






Fundamental General principles of the strategy

ARs are placed :

1. in suitable sites to enhance fish stocks.
2. in coastal areas that extend from shore to -35 meters isobaths.
3. close to harbors to facilitate accessibility, safety, inspection and control




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Strategic objectives


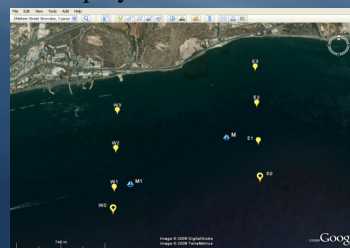
- Implementation of scientific monitoring and other related research
- Environmental education (to change the mentality of the public)
- To invite general public and targeted groups (snorkelers, swimmers, divers, schoolchildren, students to use the protected area)
- Awareness raising for the protection of the marine environment (to make Cyprus an island for islanders)
- Tourist attraction
- Formulate flexible management bodies for each MPA with ARs






Stages towards the creation of MPA with ARs

- Revision of existing strategy (inclusion of vessels as part of the AR, new policies)
- Consultation and agreement with stakeholders
- Official announcement of initiative by the Minister
- Implementation of ecological, environmental impact studies, description and mapping of habitats
- Select the types of ARs (modules) and design the AR, marking of protected areas and mooring points
- Study human activities around ARs areas
- Prepare public tenders for construction, transfer and deployment





Consultation process




- Ministry of Agriculture, Natural Resources and Environment, professional & recreational fishermen, local authorities, Dpt of Merchant Shipping, Ports Authority, Marine Police, Cyprus Tourist Organization, Cyprus Diving Centers Association, regional and tourist development companies, environmental NGOs, nautical and sailing clubs, owners of sea sports, hotel owners, tourist agents)

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**"Let's begin our meeting... everybody talk,
nobody listen."**







Types of artificial reefs

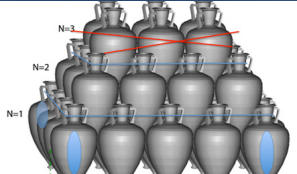



















Protected areas are designated and ARs are complete



- what about the day after?
 Many stakeholders many more end-users, economic & social activities in the sea. Inspection and control always difficult. Who is competent to do what?
TOO MANY THINGS TO HANDLE !








Managing ARs

DFMR plans to have a management plan and a management body for each area with ARs.
 Priorities: Need to regulate “no-fishing”, inspection & control, safety, diving, access (access fee), snorkeling, research, environmental education and awareness.



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A win-win situation for everybody

- Increased fish biomass outside protected areas
- Real management with all stakeholders
- Safe areas for diving & snorkeling
- Create an environmentally friendly “tourist product /create diving destinations
- Create projects with many beneficiaries (public)





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Marine Protected Area with ARs in “Dasoudi”, Limassol



The map shows the coastline of Limassol, Cyprus. Key features include:

- Limassol old harbour** (dashed white line)
- Dasoudi watersports** (blue box)
- Crown Plaza** (blue box)
- protected areas** (dashed white line)
- artificial reefs** (dashed white line)
- Oceanographic data station** (marked with 'X' and a dashed circle)
- Depth contours: 200m, 1000m, and 700m.
- Point of reference for wave data: Σημείο αναφοράς για δεδομένα κυμάτων.
- ΑΓΚΥΡΟΒΟΛΙΟ ΛΕΜΕΣΟΥ (Limassol anchorage).





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Funding: Mainly (90%) through the national operational programme for Fisheries 2007-2013 with 50% ≥ EU contribution. Continuation of projects through the future European Maritime and Fisheries Fund (2014-2020)

Logos at the top include the Ministry of Environment, Urbanization and Climate Change, the European Union, and the 10th International Conference on Artificial Reefs and Related Aquatic Habitats (ARAH 10) held in Izmir, Turkey, from September 22-27, 2013. The FAO GFCM Workshop logo is also present, dated 27 September 2013, Izmir-TURKEY.

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teşekkür ederim

Thank you for your attention
Giorgos Bayadas, Officer
e-mail: gpayiatas@dfmr.moa.gov.cy
Marine Environment Division
Department of Fisheries and Marine
Research, CYPRUS