



Waste reception facilities in MedCruise Ports

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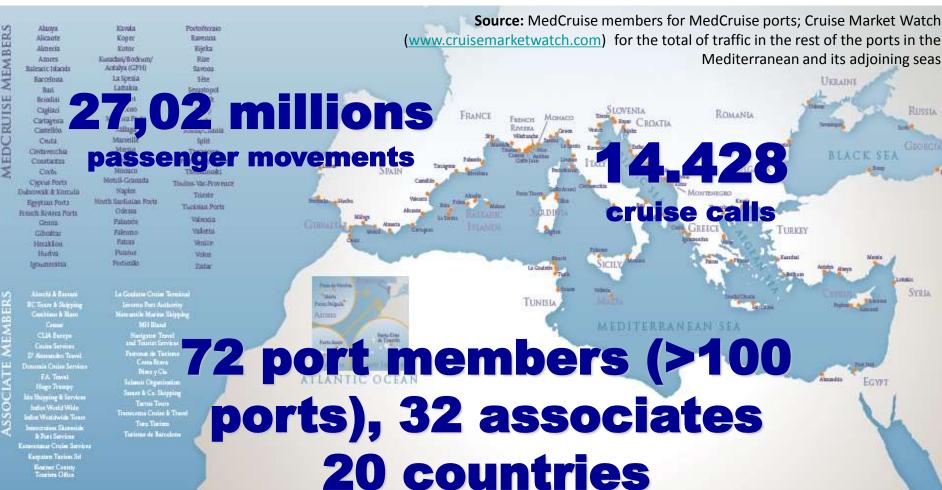






MedCruise Port Members





Representing the major share of the cruise activity in the Med and its adjoining seas







Source: MedCruise members for MedCruise ports; Cruise Market Watch (<u>www.cruisemarketwatch.com</u>) for the total of traffic in the rest of the ports in the Mediterranean and its adjoining seas

Environmental port management: Challenging but essential





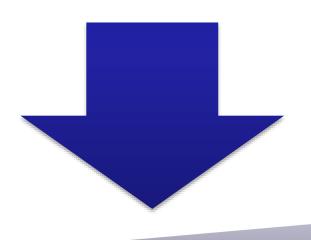
- It is the cruise ports "licence to operate and to grow"
- Added value for both the sector & individual ports
- Trends provide inspiration for further improvement



Why is MedCruise involved? Ship-shore interface & the information gap







- 100% collection of garbage streams
 on board are for recycling but:
- **2,3**% can effectively be considered recycled

- A European database of ashore waste streams disposal will prevent from the waste of garbage streams
- A ship will be able to plan its waste dumping in the most proper way



The aim of MedCruise involvement

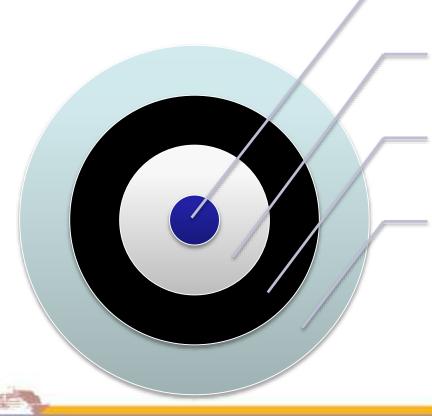






Involve port authorities

Explore the implementation of regulatory requirements at European ports (in the Mediterranean & Black Sea)



Overview of what was done



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Sub-actions

Analysis and collection of waste management best practices at ports

Collection
and synthesis
of national
regulatory
framework
concerning
waste and
emissions
management

Analysis of member ports' waste management facilities (disposal capacity, technologies, cost, etc.)

Mapping and Database development

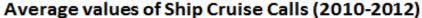
Port
authorities
update
coordination

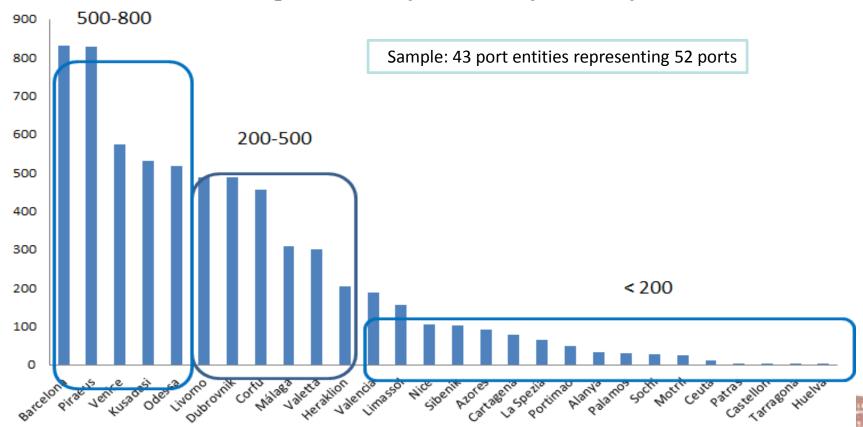
Med Cruise coordination with Costa for advanced waste management

Cruise Calls at participating MedCruise ports









Step 1: Reviewing the European & National Regulatory Frameworks





- Scope: collect & synthesise regulations related to waste and emissions management at ports of MedCruise EU countries
- Starting point:

Convention for the Prevention of Pollution from Ships (MARPOL 73/78)

Framework European
Union legislation on
waste

Framework European
Union legislation on
waste management
operations



The template

(European legislation)





Starting point – EU Legislation

Template for analysis of EU Legislation

MAIN INFO

Act:

Entry into force:

Deadline for transposition in the Member

States:

Official Journal:

Key terms used in the Act

Summary

AVAILABLE AT

Framework EU Legislation on waste

Waste Framework Directive (WFD) 2008/98/EC

Decision 2000/532/EC establishing a list of wastes as amended

Regulation (EC) 1013/2006 on shipments of waste as amended

EU legislation on waste management operations

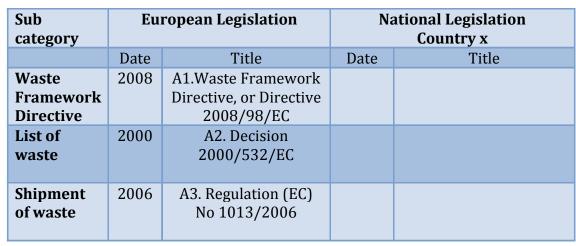
Directive 1999/31/EC on landfill of waste as amended

Directive 2000/76/EC on incineration of waste as amended

Directive 2000/56/EC on port reception facilities for ship-generated waste and cargo residue

The template

(National Regulatory Framework)



Sub category	Eu	ropean Legislation	National Legislation Country x			
	Date	Title	Date	Title		
Landfill	1999	B1. Council Directive 1999/31/EC				
Incineration	2000	B2. Directive 2000/76/EC				
Port Reception Facilities	2000	B3. Directive 2000/59/EC				



Adaptation of EU
Legislation. The MedCruise
members were asked to fill
in the templates.

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Lessons learnt



- Members States have adopted the EU Legislation in different regulatory formats (decrees, laws etc).
 - Depending on the country needs, additional regulatory actions have been adopted.
- Legislation is here..... But is it enough??
- Material collected provides a basis for further analysis to:
 - support the formulation of policy recommendations
 - enhance the collaboration of the involved parties (Cruisers & Ports)
 towards mutual benefits & increased environmental sustainability

Step 2: A database on the availability of Port Reception Facilities





- to obtain input regarding Port Reception Facilities available at MEDCRUISE ports, in relation to garbage from ships as those defined in revised MARPOL ANNEX V 73/78
- to compare the answers and draw consolidated conclusions regarding the current management practices of Ship Generated Garbage at MedCruise Ports





Questionnaire Survey - Structure





- 4 thematic areas
- 26 questions
- 8 answers to questions are available on an interactive map -MedCruise site

WASTE RECEPTION SERVICES

HANDLING SERVICES

CHARGING SERVICES ADMINISTRATIVE FRAMEWORK OF WASTE RECEPTION

D.



Data now available on-line: The MedCruise Map





Waste Reception Services

- Total quantity of garbage delivered (m³)
- Location of garbage reception facilities at the port
- Working hours of garbage reception facilities at the port

Handling Services

- Storage areas inside the ports and if available for which type of products
- Availability of segregation services at the port
- Availability of treatment services prior to disposal
- Disposal methods used in the port

Charging services

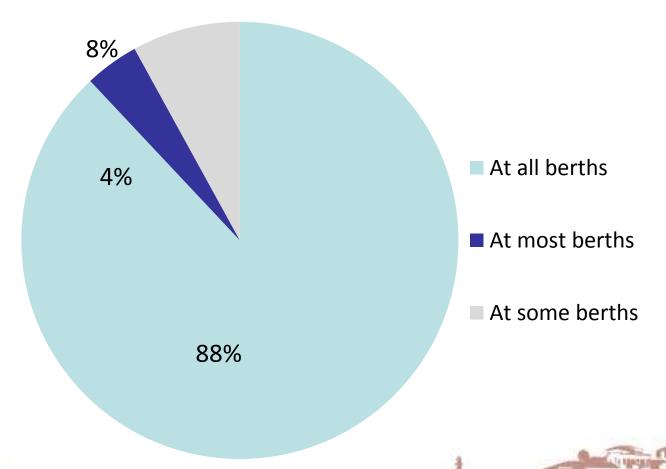
Fee selection scheme applied at the port

Waste Reception Services

Location of garbage reception facilities at the port





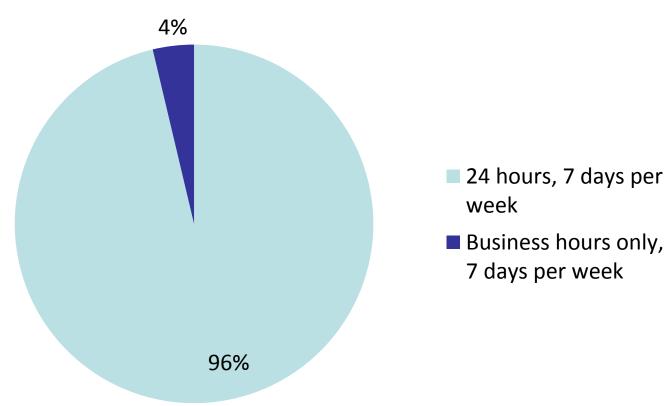


Waste Reception Services

Working hours of garbage reception facilities at the port











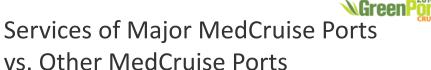
Handling Services Storage areas inside the ports per type of products

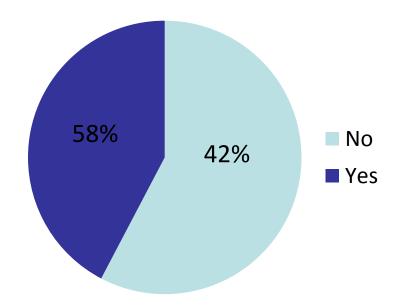


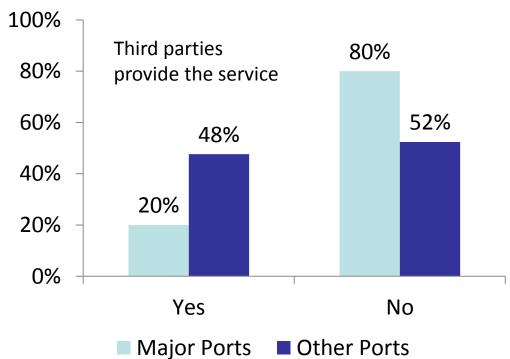
	A. Plastics	B. Food wastes	C. Domestic wastes	D. Cooking oil	E. Incinerator ashes	F. Operational wastes	G. Cargo residues	H. Animal carcass(es)	I. Fishing gear
Containers	+	+	+		+	+	+		+
Skips/Dum pster	+	+	+	+	+	+	+		
Platform	+	+	+	+	+	+			+
Tank				+					
Special Truck								+	

Handling Services Availability of segregation services at the port







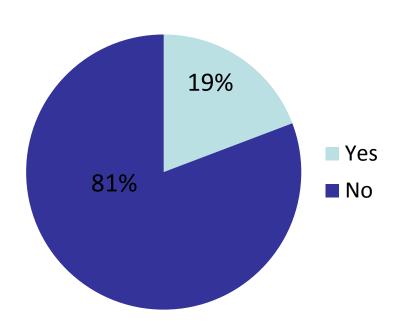


Handling Services

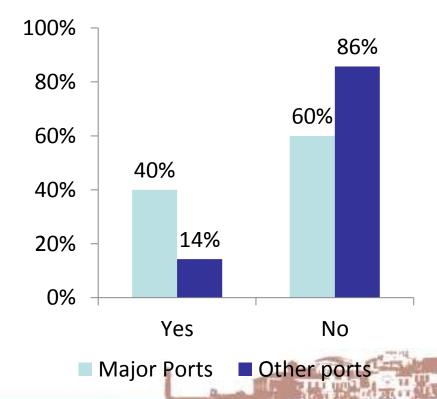
Availability of treatment services prior to disposal







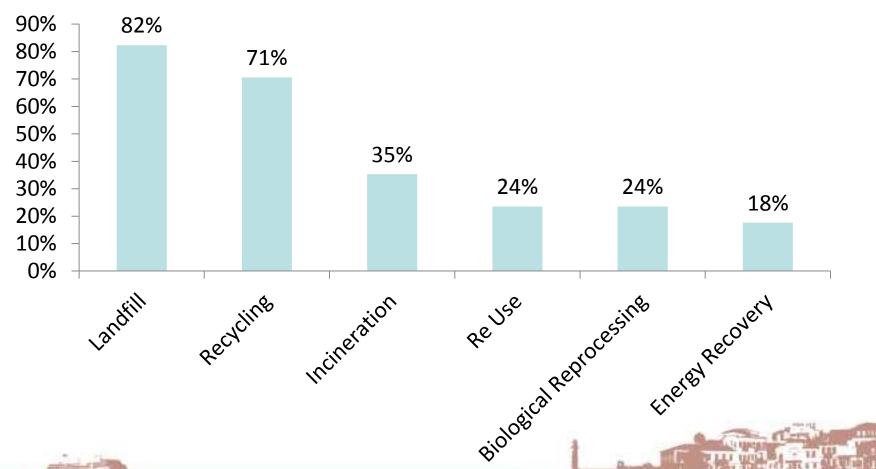
Practices of major MedCruise Ports vs. Other MedCruise Ports



Handling Services Disposal methods used at the port





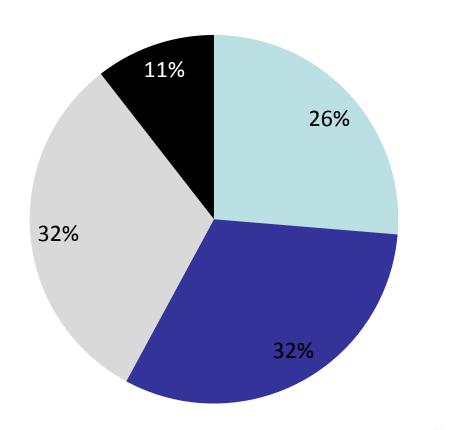


Charging Services

Fee selection scheme applied at the port





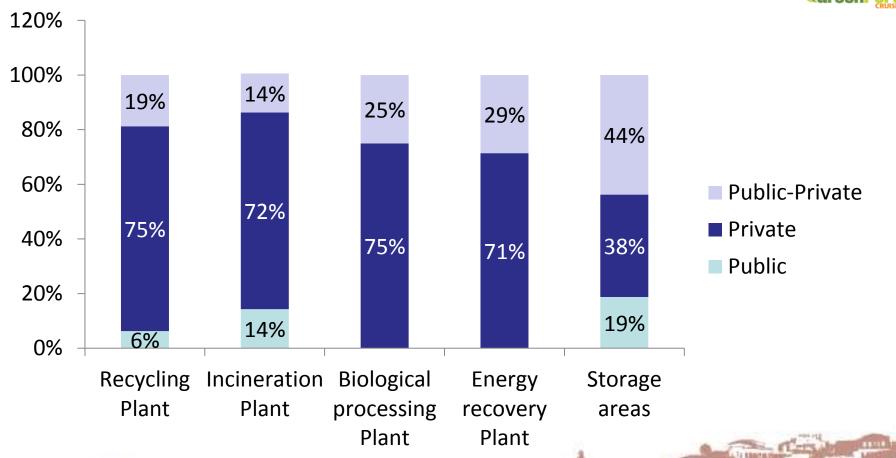


- Direct
- Direct+Indirect
- Indirect
- Other

Proprietary status of the port reception facilities







Authorities responsible for procedures & controlling proper execution of waste reception & handling





Authority	No.
Port Authority	40%
Harbour Master	30%
Provincial Directorate of Environment and Urbanism	5%
Ministry of Environment	10%
Environment and planning authorities	5%
Local Municipality	10%

Added value of the Study





Accessibility – accurate & updated information on ship generated waste management by MedCruise Ports

Capacity to perform several types of analysis

Conclusions regarding Best Practices and Common Practices

Motivation of ports to disseminate their practices on a regular basis

Contribution to environmental sustainability awareness for marine protection







