



**Agència de
Residus de
Catalunya**



CP/RAC National Focal Points Meeting on “Enhancing the integration of Sustainable Consumption and Production (SCP) in the Governance Framework of the Barcelona Convention and MAP”

Barcelona, 20 June 2013

**Pilot Project on a System of Refundable Fee for
Beverage Containers in Cadaqués (Catalonia).**

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Waste Agency of Catalonia



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Economic Instruments & Waste Management

- In the European survey “Use of Economic instruments and waste management” (2012), it is stated that **the adoption of economic instruments helps to improve the performance of waste management**
- Among the economic instruments should be considered:
 - Charges for waste disposal and treatment (landfill & incineration taxes)
 - Pay-as-you-throw (PAYT) schemes
 - Extended Producer Responsibility (EPR) Schemes for specific streams (packaging, ELV, WEEE, batteries, etc.)
- **The Deposit, Refund & Restoration System (DRRS) fits in the EPR Concept**





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The Deposit, Refund & Restoration System (DRRS) CONCEPT

- The **producer** or **packager** establishes a system to make possible the recovery of their packaging.
- To ensure this recovery, the **producer** or **packager**, thorough the **seller**, establishes a **DEPOSIT** (an economic value associated with each container) that **costumer** must pay in advance.
- Once the **costumer** deliver back the empty container to the system (shop or authomatic machine), the amount advanced is fully **REFUNDED** to the **costumer**.
- **RESTORATION** means that the container can return to the production line, for reusing or recycling, closing the cycle, where there is no waste but resources.



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Why in Cadaqués? [1]

The coincidence of several factors



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- With only 3.000 inhabitants, its geographical characteristics give it a distinctive **character of island** at all levels.
- There are only 2 ways to arrive: a narrow winding road or by sea.
- Due to its **public projection**.
- It's a **landmark for tourism and a cultural reference** as an open-minded village related to Dalí.
- Because there is **local political support**.
- Because of its **workable dimensions**.



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Why in Cadaqués? [2]

A natural treasure to be preserved



- Located in the North of Costa Brava, **in the heart of Cap de Creus Natural Park** (it is the first maritime and terrestrial Park of Catalonia).
- The **Protection of its natural beauty** is an important concern of the village because **tourism is their main economic activity**: 20,000 visitors/year from France, Netherland, Germany, United Kingdom, Catalonia & Spain.



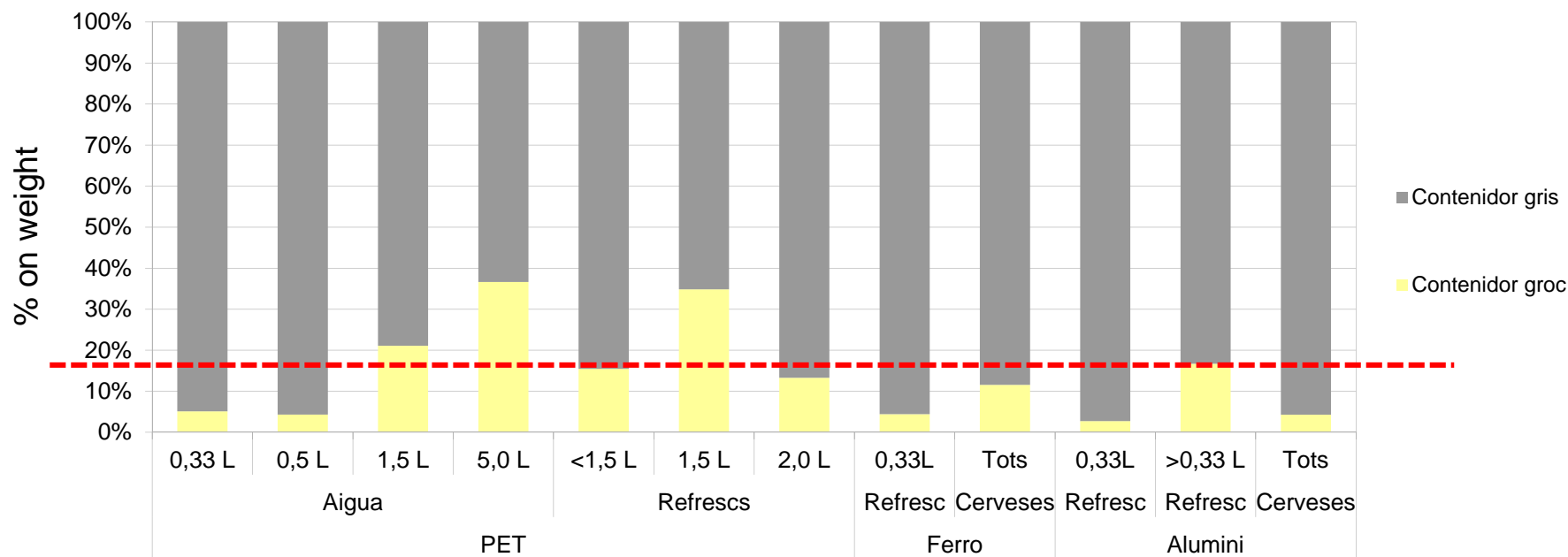
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Which is the starting point in Cadaqués?

Distribution of beverage packaging between separate collection Packaging Bin & Residual in Bin (before implementation of DRRS).
Data of Cadaqués Municipality (April 2013)



Materials, use & volume of packaging



- **GENERAL TARGETS**

- To show the feasibility of a DRRS.
- To assess the impact of DRRS on local waste management from environmental and economic point of view.
- Showcase for retailers, companies, NGO and administration.
- To assess return rate with deposit.



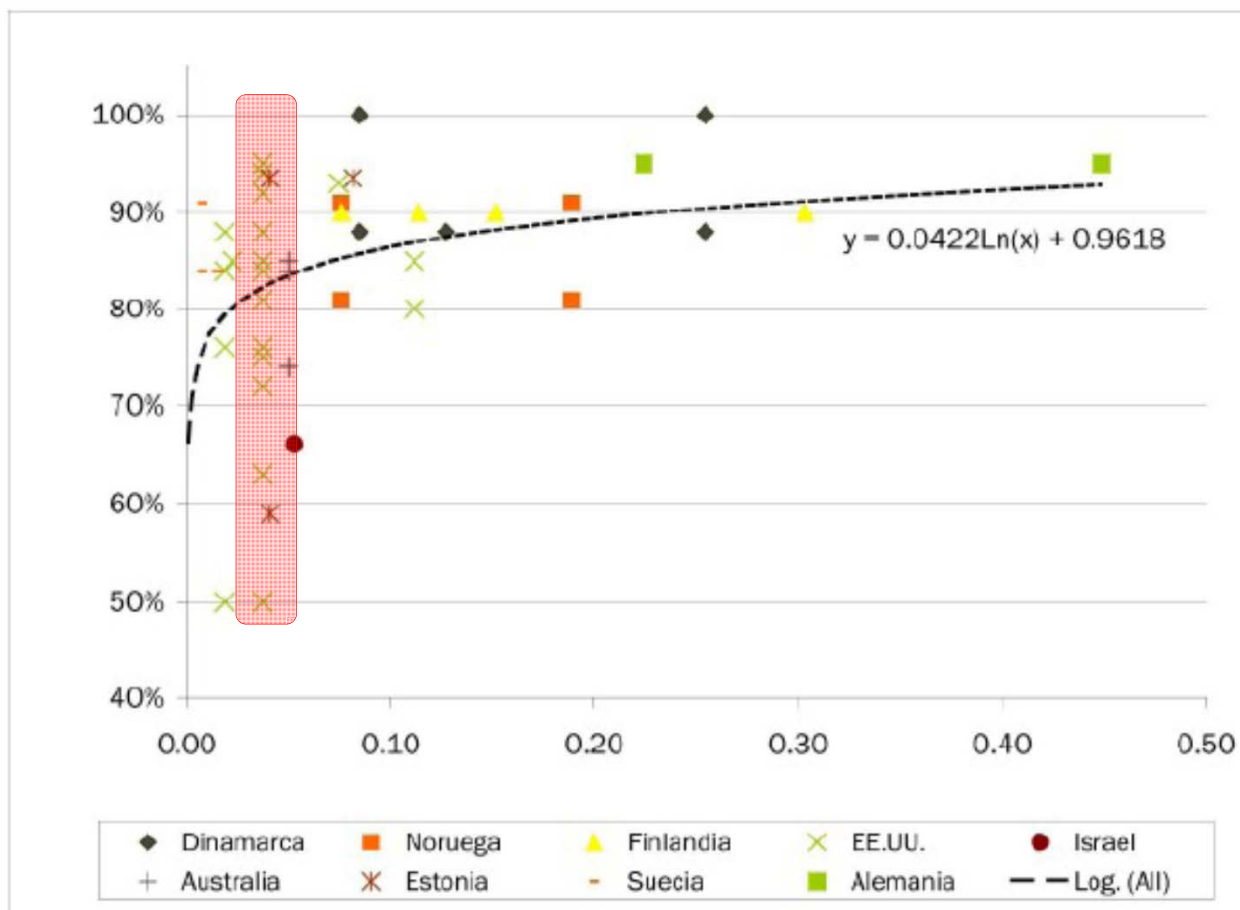
- **SPECIFIC TARGETS**

- To assess return level with 5 € cent deposit.
- To assess the general acceptance by the population
- To assess impact in littering and current waste collection system.



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The expected performance of a DRRS



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Benefits for Cadaqués Municipality

- **Becoming the leaders in the implementation of a Deposit, Refund & Restoration System (DRRS) in Southern Europe & Mediterranean basin.**
- **Enhancing the public projection.**
- **Improving the image for tourists.**
- **Reduction of littering (at beaches, in streets or around rubbish bins).**
- **The expected increase of the levels of separate collection of municipal waste.**



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Stakeholders involved & Political Support

- **RETORNA**

- Fundació Prevenció de Residus (FPRC)
- Gremi de Recuperació (GRC)

- **Technological Partners**

- Tomra
- Rhenus

- **Other Stakeholders**

- Cadaqués Council
- Waste Agency of Catalonia
- Local retailers
 - 2 Supermarkets
 - VALVI
 - NOVAVENDA
 - 8 Small shops



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What's the pilot project about?



- **Containers with 5 € cent deposit:**

- Packaging:
 - Plastic (PET) (< 3 liter)
 - Cans
- Beverages:
 - Water
 - Juices
 - Beer
 - Soft drinks



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Local Retailers involved

- 2 supermarkets with automatic return machines
- 8 shops with manual return system



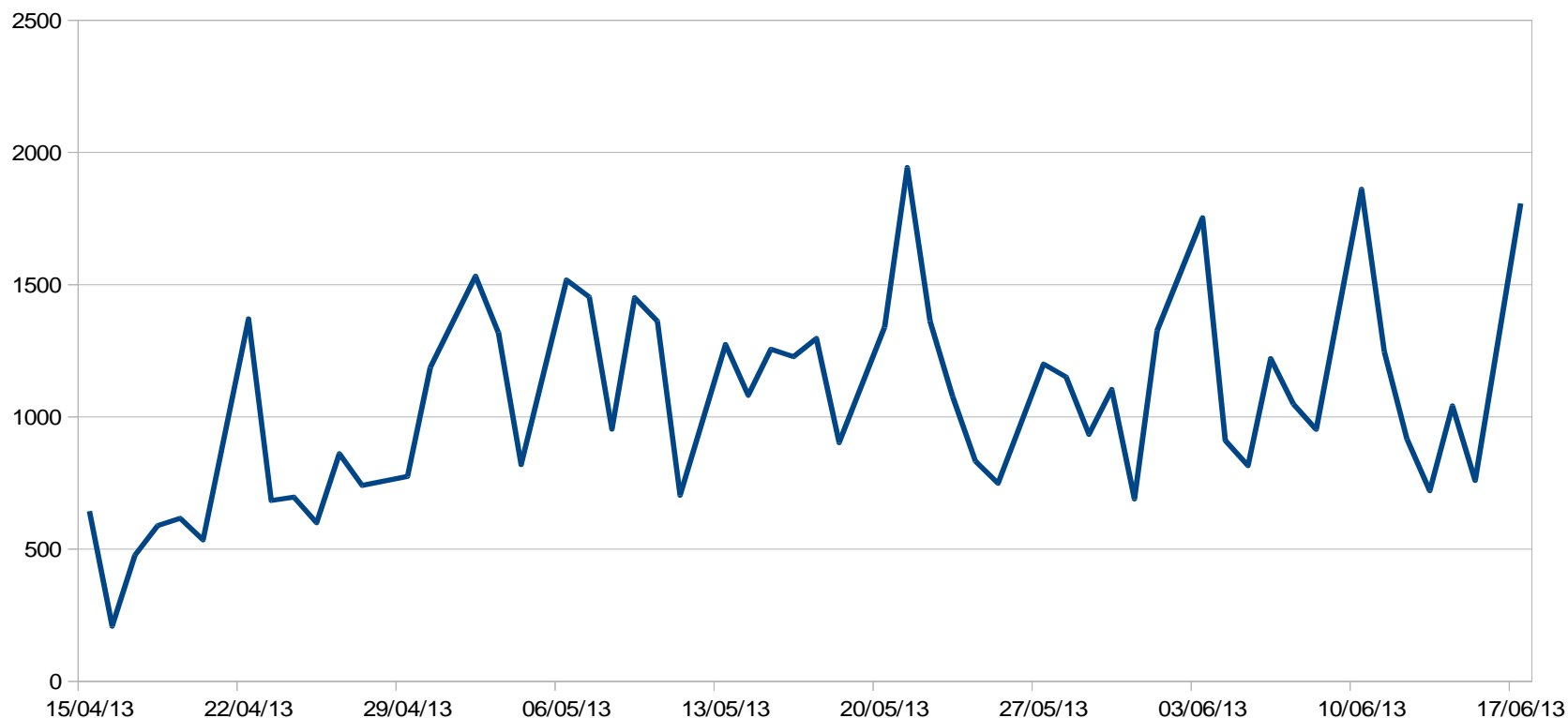
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Total returned containers (1st & 2nd month)



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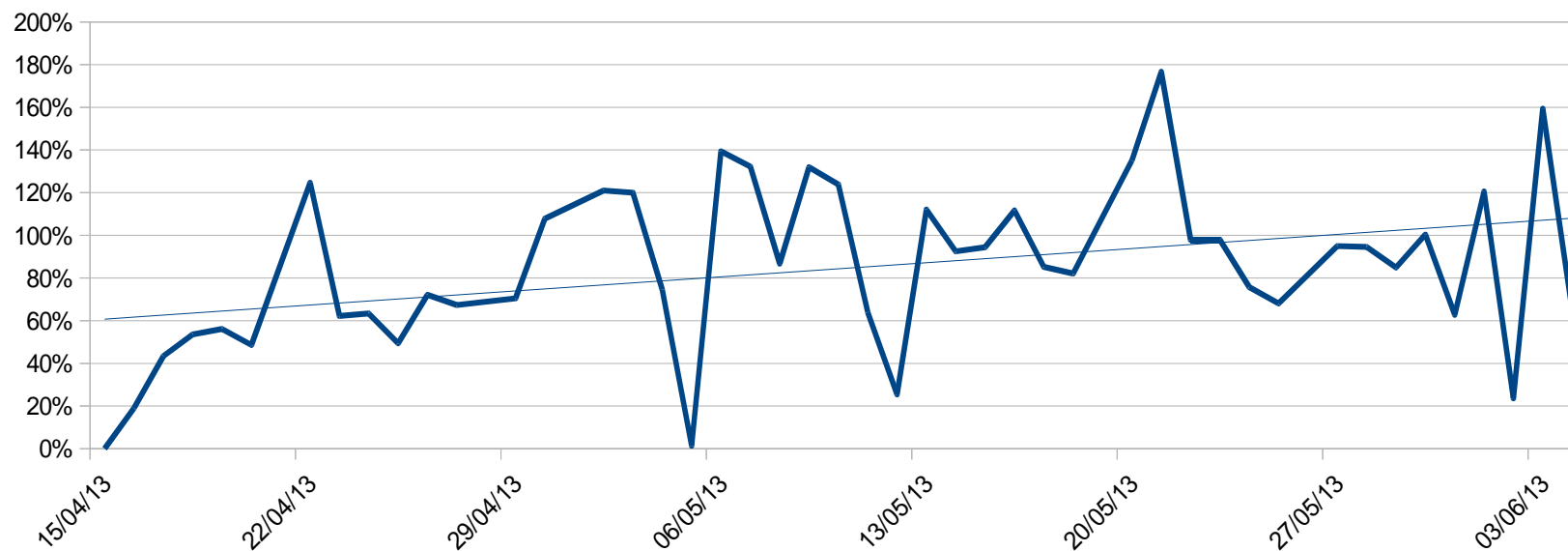


Estimated return rate (15 April – 15 June)

Estimated return rate (overall)

	declared sales	returned	
small	10.093	4.043	40,06%
supermarkets	64.760	54.902	84,78%
total	74.852	58.945	78,75%

Estimated return rate (over sold containers)





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The consequences



Reduction of packaging in bins at streets



High quality recycling



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Preliminar Conclusions

- The demonstration project is running properly well, with good acceptance of costumers and sellers.
- Total returned containers are increasing with no stabilization signs yet.
- The return rate in May (in comparison with sold containers) is 79% average.
- The evolution of pilot project is still not enough mature after two months (the pilot project was affected by meteo conditions of this spring); thus the results can not be still considered as final.



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More information in
<http://www.cadaquesretorna.cat>



**CADAQUÉS
RETORNA**

AIGÜES, SUCS, CERVESES I REFRESCS
EN AMPOLLA DE PLÀSTIC O EN LLAUNA

Prova pilot des sistema
de retorn d'envasos de begudes

Del 15 d'abril al 30 de juny

Ara a Cadaqués podem fer-ho millor

+5
ct.€

Recorda:
Envasos amb
dipòsit de
5 cèntims

PIONERS A LA MEDITERRÀNIA | ENVASOS A RETORNAR | ESTABLIMENTS | NOTÍCIES | PREGUNTES FREQUENTS

És molt senzill:

1 Compres ses envasos



2 Pagues uns cèntims
per ses envasos



3 Tornes ses envasos
buits a la botiga



4 Recuperes es cèntims



Ja portem retornats:

60.397

envasos

GRÀCIES!

NOTÍCIES



Dijous 1 Gener 1970

**Els ens municipalistes
visiten Cadaqués**

Representants de les entitats
municipals catalanes han visitat
Cadaqués per conèixer el
Sistema de Retorn i els
avantatges que suposa pels
gestors locals.

[Continua llegint](#)

LA CAMPANYA



SEGUEIX-NOS

Cadaqués Retorna
és una iniciativa de:



**PREVENCIÓ
DE RESIDUS
I CONSUM**

Ajuntament
de Cadaqués

Amb la
col·laboració de:

Generalitat de Catalunya
Departament de Territori
i Sostenibilitat

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Many Thanks !

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