

INNOVATIVE WASTE PREVENTION POLICY AT REGIONAL
LEVEL:

THE CASE OF CATALONIA

+ ACR 2011 Annual General Meeting and International
Conference

Genoa, 26 - 27 October 2011

According to the 1978 Spanish Constitution, the country's Autonomous Communities are able to assume responsibility in the field of environmental protection.

Catalonia has therefore taken on this responsibility for the environment, and waste in particular.

The **Waste Agency of Catalonia**, set up by Law 6 / 1993 regulating waste, is a public authority that has jurisdiction over the, albeit industrial, municipal, medical or agricultural waste produced in Catalonia and managed there.

FRAMEWORK DIRECTIVE 2008/98/EC

“Prevention” means measures taken before a substance, material or product has become waste, that reduce:

- a. **The quantity of waste**, including through the re-use of products or the extension of the life span of products;
- b. **The adverse impacts** of the generated waste on the environment and human health; or
- c. **The content of harmful substances** in materials and products;

The Framework Directive expressly regulates the **management hierarchy** that favours prevention.

The hierarchy is **mandatory**.

The Municipal Waste Management Program of Catalonia 2007-2012 (**PROGREMIC**) puts forward the following **prevention targets**:

- To maintain the trend towards the stabilization of per capita generation in the first phase.
- To push per capita generation downwards in a second phase, to achieve a **reduction of 10%** by 2012 in comparison with 2006, from 1.64 kg / inhab. · day (2006) to **1.48** kg / inhab. · day (2012)
- Specifically, the targeted reduction in the consumption of single-use plastic bags with respect to 2007 is:
 - 2009: 30% (partial goal)
 - **2012: 50%**

New prevention management model

New prevention management model



Change in production, consumption and waste management practices



Maximum involvement of all players: governments, businesses, trades, associations, citizens, etc..



Promotion by the municipal administration of actions agreed between the different players, each on their own level in a dynamic and continuous progress.



Medium to long term planning and introduction of a strategy to achieve participation and raise awareness in order to achieve waste reduction goals.



LOCAL PREVENTION PLANS

LOCAL PREVENTION PLANS

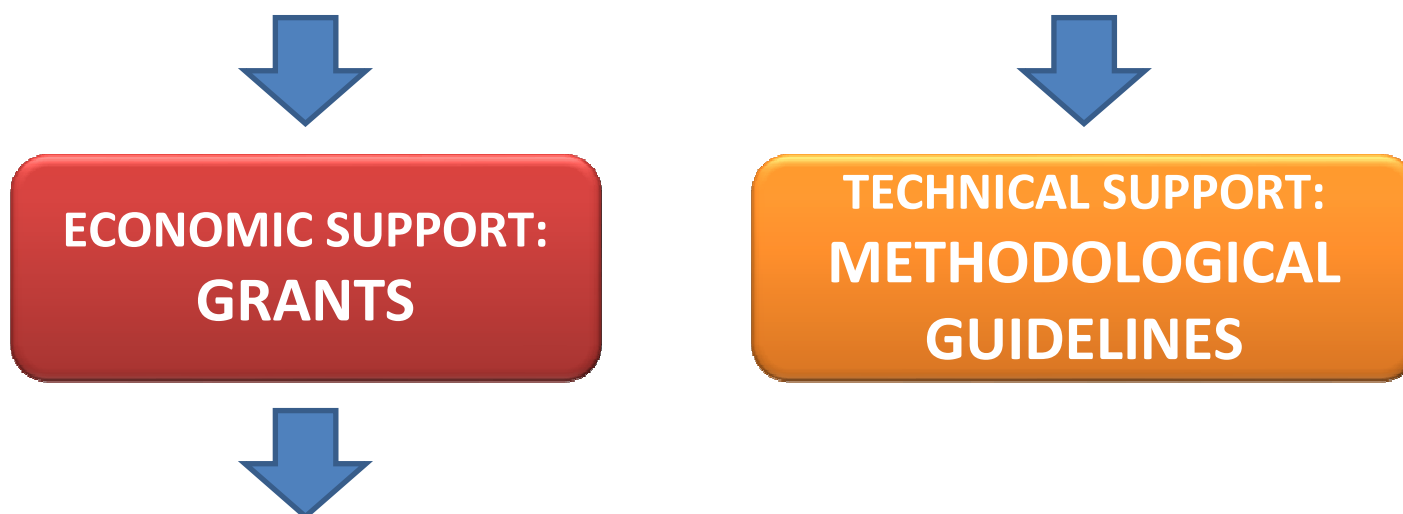
These are the **instrument of medium and long term strategic planning** of prevention actions to meet targets for reducing waste.

They will provide continuity and allow a reference framework for activities carried out, as these are part of an **overall strategy** to help to increase the following, amongst others:

- The consistency of municipal waste management, in line with the hierarchy defined by the regulations
- The effectiveness of the resources provided (cost - benefit)
- The involvement and coordination of participating groups
- The level of awareness and participation
- The results of prevention and the effectiveness of the actions

New prevention management model

SUPPORT TO PREPARING LOCAL PREVENTION PLANS



To date, in calls for funding for projects to prevent waste, grants have been awarded to 18 Catalan local entities for drawing up Local Prevention Plans, which are in various stages of development.



- It arises from the desire to develop one of the **instruments of the new PROGEMIC 2007-2012** as part of the sub-program of waste prevention.
- Its purpose is to **promote local prevention strategies** with consistency and firmness of application.
- **It defines a comprehensive methodology and the steps** to be carried out in developing rigorous and complete plans.



What is the content of the Local Prevention Plan?

**I
N
D
E
X**

- 1. Introduction**
- 2. Responsibilities**
- 3. Basic prevention terminology**
- 4. Diagnosis of waste management in relation to prevention**
 - Waste flow characterization
 - Determination of the production processes
 - Assessment of the economic and environmental costs of management
 - Determination of awareness and expectations
 - Review of the objectives of planning and regulations
 - Assessment of the potential for waste prevention

What is the content of the Local Prevention Plan?

**I
N
D
E
X**

5. Areas of application

6. Goals

- Qualitative and general goals
- Quantitative goals

7.Strategic lines

- Definition of prevention actions
- Complementary measures

8.Application schedule

9.Financial balance

10.Plan monitoring actions

The guidelines include a proposal of waste prevention measures as a reference for developing a plan that takes into account all waste movements, as well as transversal actions.

Organic material

Paper

Packaging

Glass

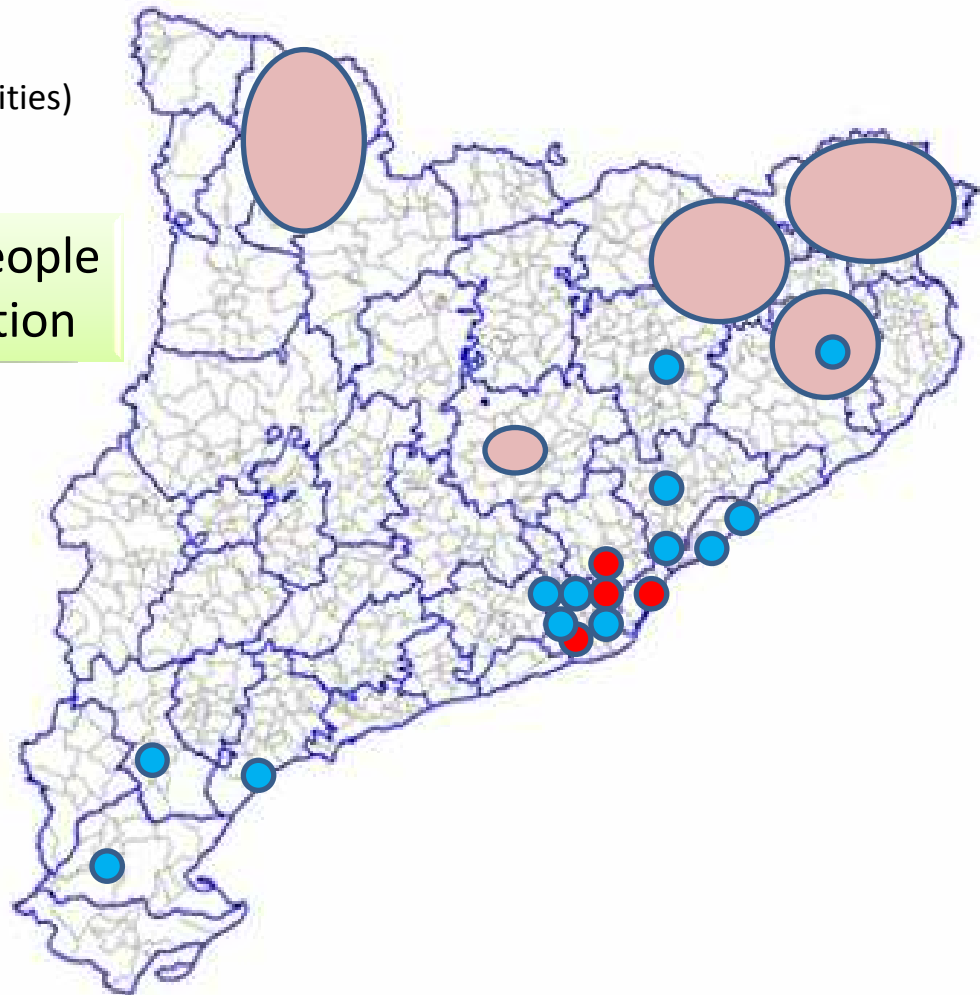
Others

			Actuació
Actuacions de prevenció per fluxos de residus	Actuacions de prevenció de la Matèria orgànica	1	• Promoció de l' autocompostatge individual
		2	• Promoció de l' autocompostatge col·lectiu
		3	• Promoció de l'ús del cubell airejat per a la recollida de FORM
		4	• Promoció d'accions contra el malbaratament d'aliments. Compra i consum responsable d'aliments
	Actuacions de prevenció del Paper	5	• Regulació de la publicitat i de la premsa gratuïta
		6	• Promoció de l'ús responsable de paper i de la desmaterialització de la informació
		7	• Foment de la reutilització de llibres de text i lectura
	Actuacions de prevenció dels Envasos	8	• Foment del consum d'aigua de l'aixeta
		9	• Promoció de l'oferta i la demanda de productes amb menys envàs i a granel
		10	• Promoció de la substitució de bosses d'un sol ús per elements reutilitzables
		11	• Promoció de l'ús de menys embalatge (secundari i terciari)
	Actuacions de prevenció del Vidre	12	• Promoció dels envasos de vidre reutilitzables
		13	• Foment de la reutilització de roba
	Actuacions de prevenció d'altres fraccions	14	• Promoció de l'ús de bolquers reutilitzables
		15	• Foment de la reutilització de béns i productes
		16	• Promoció de la reparació de béns i productes
		17	• Promoció de l'oferta i la demanda de béns i productes generadors de menys residus
		18	• Foment del consum de serveis o béns immaterials
		19	• Promoció de xarxes o punts de lloguer de materials compartits

Local Prevention Plans in the region

- Consell Comarcal Pallars Sobirà (15 municipalities)
- Consell Comarcal Alt Empordà (68 municipalities)
- Consell Comarcal Garrotxa (21 municipalities)
- Consell Comarcal Gironès (26 municipalities)
- Mancomunitat Intermunicipal del Cardener(5 municipalities)
- Girona
- Vic
- Cardedeu
- Mataró
- Torrelles
- Sant Andreu de la Barca
- Sant Cugat del Vallès
- Castellbisbal
- El Masnou
- Tiana
- Esplugues de Llobregat
- Cornellà
- Sant Boi de Llobregat
- Ascó
- Vandellós
- Xerta
- Barcelona

More than 2.5 M people
34% of the population



The prevention calculator

- A new technical tool to support the preparation of Local Prevention Plans.
- Based on the collection of proposals for prevention actions presented in the methodological guidelines, but also other literature and known prevention experiences.
- It aims to assist local authorities in quantifying the prevention goals, based on real experiences.

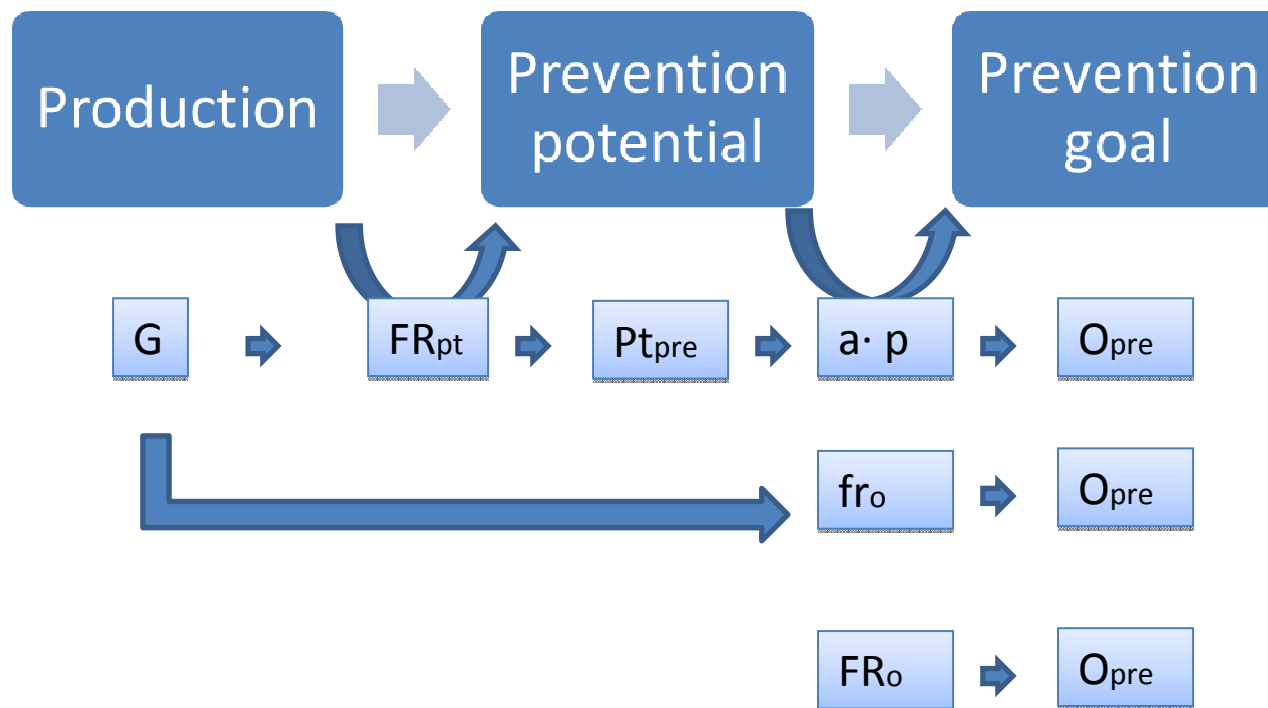


Concepts are defined:

Code	Concept	Units
G	Waste production	Kg/base year
fc_n	Conversion factor	%
FC_n	Conversion factor	Base unit
DB	Base data	Base unit
Ptpre	Prevention potential	Kg/base year
frpt	Potential reduction factor	%
fro	Target reduction factor	%
FRo	Target reduction factor	Base unit
a	Scope	%
p	Participation	%
Opre	Prevention goal	Kg/base year

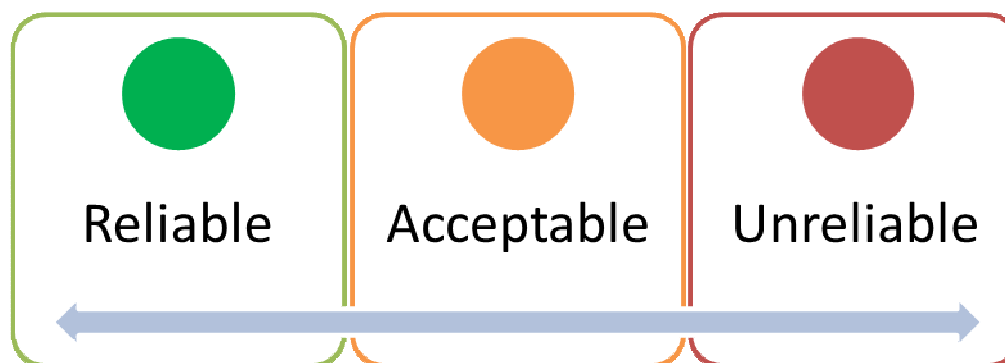
Target reduction factor goal: % or kg / inhab. that a fraction is reduced according to data on experiences.

How it is calculated



General criteria for "traffic light score" and selection of final value:

- Proximity criterion
- Rigor of the study
- Duration and scope
- Year
- Others





The prevention calculator is the instrument that is conducive to monitoring the implementation of Local Prevention Plans.

The prevention calculator will include the actual results of the introduction of municipal waste prevention projects as the local authorities report them.

These actual results will aid predictions regarding the preparation of new Local Prevention Plans.

By using a common source and system, this should allow data to be added and overall data to be obtained in the region of Catalonia.



IX JORNADA

DE PREVENCIÓ DE RESIDUS MUNICIPALS 2011

Barcelona
24 de novembre de 2011



MALBARATAMENT ALIMENTARI

IX JORNADA

DE PREVENCIÓ DE RESIDUS MUNICIPALS 2011

MALBARATAMENT ALIMENTARI

MATÍ

9:00h	RECEPCIÓ DELS PARTICIPANTS
9:30h	INAUGURACIÓ
9:45h	• Estudi preparatori en malbaratament alimentari a la UE-27 Patrice Gruszkowski Policy Officer, Comissió Europea
10:05h	• Prevenció de residus a Catalunya Alfred Vara Cap del Dep. Prevenció, Agència de Residus de Catalunya
10:25h	• Prevenció del malbaratament alimentari a la UAB Paco Muñoz Tècnic de l'Oficina de Medi Ambient, UAB
10:45h	PRECS I PREGUNTES
11:00h	PAUSA CAFÈ
11:30h	TAULA RODONA: Aliments vs residus, moderada per Albert Closas , periodista de TV3
	• Sector administració Francesc Giró Adjunt a Direcció, Agència de Residus de Catalunya
	• Sector envasadors Santiago Olivares Packaging Engineer, Nestlé
	• Sector distribució Mariano Rodriguez Director de Qualitat i Desenvolupament Sostenible, Carrefour
	• Sector hostaleria Josep M^o Torres Director de Qualitat i assessorament tècnic en la restauració, Gremi de Restauració de Barcelona
	• Sector social Sònia Nuñez Coordinadora, Caliu, Espai d'acollida
13:00h	PRECS I PREGUNTES
13:30h	PAUSA DINAR

PROGRAMA

dijous 24 de novembre de 2011

TARDA

15:00h	MOSTRA D'EXPERIÈNCIES INNOVADORES
	• "Love Food Hate Waste" Dimitra Rappou Waste Prevention Officer, North London Waste Authority, Regne Unit
	• "Recicla't a la cuina. Aprofitem-ho tot." Lourdes Oliveras Consellera de Medi Ambient, Consell Comarcal de l'Anoia
	• Pla de prevenció de residus d'aliments a Holanda Hilke Bos-Brouwers Project Leader Sustainability, Universitat de Wageningen, Holanda
	• Mercabarna i el Banc dels aliments Montserrat Gil de Bernabè Directora General, Mercabarna
16:20h	• "Despilfarro, el escàndalo global de la comida". Tristram Stuart , Escriptor i Investigador associat, Universitat de Sussex, Regne Unit
16:50h	PRECS I PREGUNTES
17:10h	CLOENDA

ENRENOU D'ALIMENTS 2011

17:25h	PRESENTACIÓ
	• Presentació de l'enrenou d'aliments Neus Gallart Tècnica del Departament de Prevenció, Agència de Residus de Catalunya
17:40h	ENRENOU D'ALIMENTS
	• Taller de cuina amb restes Isma Prados Cuiner

Thank you!

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