

BIO-WASTE PREVENTION

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ASSOCIATION OF CITIES AND REGIONS FOR RECYCLING AND SUSTAINABLE RESOURCE MANAGEMENT

EASY

COST EFFECTIVE

ECOLOGICAL



Jean-Jacques Dohogne



CONTENT

Policy & legislation

Bio-waste quantitative data

Bio-waste prevention mngt

4'E' for BW prevention planning



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ACR+ PRESENTED

A network of public actors aiming for an optimized management of municipal and sustainale use of resources





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LEGAL EU TARGETS



		Min recovery	Min recycling	Collection	
Packaging	2008	60%	55%		
Cars	2015	95%	85%	100%	
Electronics	2006	70%	50%	min 4 kg per inhabitant per year	
Batteries	2011		50% to 75%		
	2012			25%	
	2016			45%	
Tyres	2006	0% landfilling of tyres			
Bio-waste diverted from landfill	2006	reduction to 75% as compared to 1995 level			
	2009	reduction to 50% as compared to 1995 level			
	2016	reduction to 35% as compared to 1995 level			
New targets	2015	Separate collection: at least paper/ metal/ plastic/ glass			
New WFD	lew WFD 2020 50		50% hous	sehold waste	
	2020		70% construction	n & demolition waste	



LEGAL EU TARGETS



		Waste prevention targets
Packaging	2008	
Cars	2015	
Electronics	2006	
Batteries	2011	
	2012	
	2016	
Tyres	2006	
Bio-waste diverted from landfill	2006	
	2009	
	2016	
New targets	2015	
New WFD	2020	
	2020	



EU & BIO-WASTE PREVENTION

Green paper

... one paragraph... on 'fight against food waste'

Impact assessment bio-waste

... bio-waste prevention ...

- ▶ 3% by 2017
- ▶ 7.5% by 2020

How...? Green waste...? Food waste...?



EU WASTE HIERARCHY





New WFD & PREVENTION

Article 29 §1

Member States shall establish...waste prevention programmes not later than 12 December 2013

- → shall set out waste prevention objectives
- shall describe the existing prevention measures & evaluate the usefulness of others
- shall determine appropriate specific qualitative or quantitative benchmarks





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BIO-WASTE MANAGEMENT

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Our benchmark for waste prevention = 40 kg/hab/an



BIO-WASTE SUBDIVIDED

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Seasonal variations, geographic realities, cultural habits,...



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GREEN WASTE PREVENTION

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AVOID GREEN WASTE GENERATION

- **Garden design**
- Variation = grass, paths, bushes, trees & water
- Grass choices = slow growing grasses
- Bushes & trees = native with special care for (right) place
- Strive for spontaneous developments
- Flower meadows or prairie fields or other ground cover in stead of grass





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REDUCE GREEN WASTE

- remove grass only when necessary
- reuse branches (branch walls, insect walls,...)
- grasscylcing
- use mulching material between bushes, trees
- use less chemicals
- compost









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Research UK (WRAP)

Of the food waste generated:

- 'not avoidable' = 19% of total
- 'avoidable' assessed at 61% of the total, with 8% of the avoidable waste 'in date' (vb. date still OK) when discarded;
- *'possibly avoidable'* = 20% of the total;

Source: Exodus Market Research (2008) *The Food We Waste,* Report for WRAP, April 2008.



What to do (as a consumer)?

- Make a shopping list
- Store the food optimally
- Pay attention to 'eat by' & ' do not exceed' dates
- Prepare just enough
- Re-use left overs

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FOOD WASTE PREVENTION

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Gains – agricultural soils become available







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PLANNING ACCORDING TO 4 'E's

Smart gardening

 Subsidise grasscyclers, Campaigning shredders,... Information material Enable PAYT rewards smart Leavemands in autumn gardeners (Make it happen) Cooperate with garden Telephone 'hotline' entreprises Engage (Get them Encourage (Give the right involved) signals) • Train smart gardener masters Exemplify Promote volunteering (Give the good Practical workshops exemple) • Municipality gives example School programs Demonstration center Use adapted language Educate own personel



COST EFFECTIVENESS

<u>Costs</u>

- Personnel
- Information & educational materials
- Subsidising materials
- Demonstration centers
- Pilot projets

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- Training programs (train the trainers)
- Website development & updating

Benefits

- Less waste produced
- Less collection
- Less treatment
 infrastructure required
- People awareness
- Social cohesion
- Voluntary work
- CO2 gains
- More biodiversity
- . . .



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CONCLUSIONS

The bio-waste directive should consider the prescriptions and spirit of the new WFD, namely, waste prevention first.

Benchmarks, targets and/or indicators are key for this



BENCHMARKING BIO-WASTE

Want to know more?

160 pages Fact sheets Great examples Benchmarks Quantified data

