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ASSOCIATION
OF CITIES
AND REGIONS
FOR RECYCLING
AND SUSTAINABLE
RESOURCE
MANAGEMENT

BIO-WASTE – NEED FOR EU-LEGISLATION

VIEWS OF ACR+

Brussels, 9 & 10 June 2009

Jean-Pierre Hannequart



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SUMMARY

WE NEED A BIO-WASTE DIRECTIVE because:

- The existing legal situation is too confused
- Bio-waste is a well identified waste flow
- Poor Bio-waste management is a key problematic issue for climate, soil and resources
- There is a big potential for biowaste prevention & recycling
- We need a European Bio-waste prevention policy
- We need a European Bio-waste recycling policy



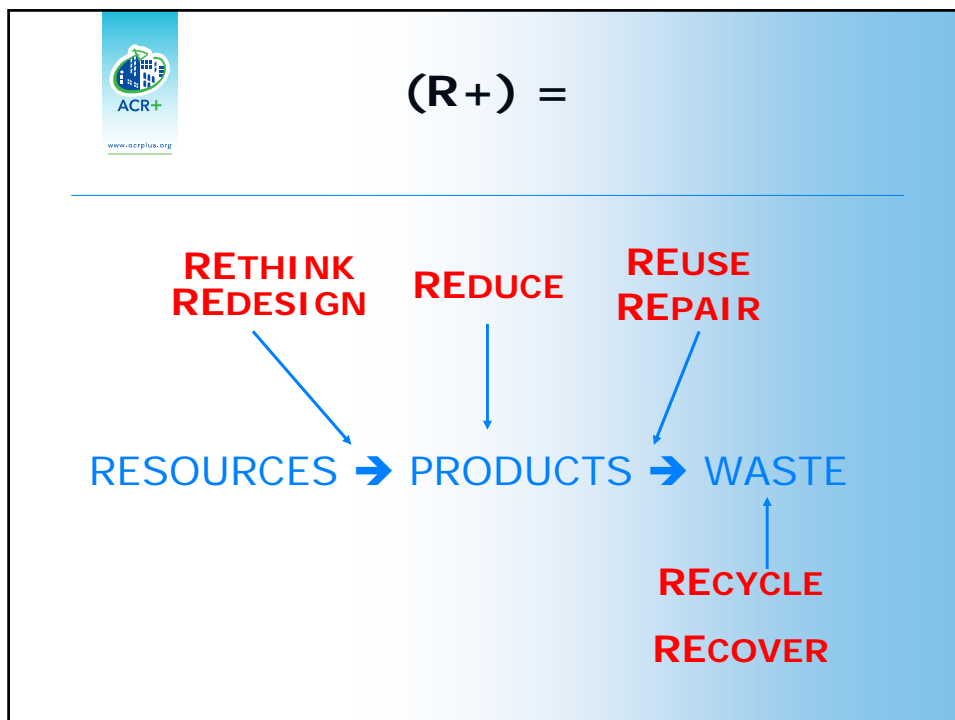
WHO WE ARE?

ACR+ =
international network of cities and regions



96 members
22 countries



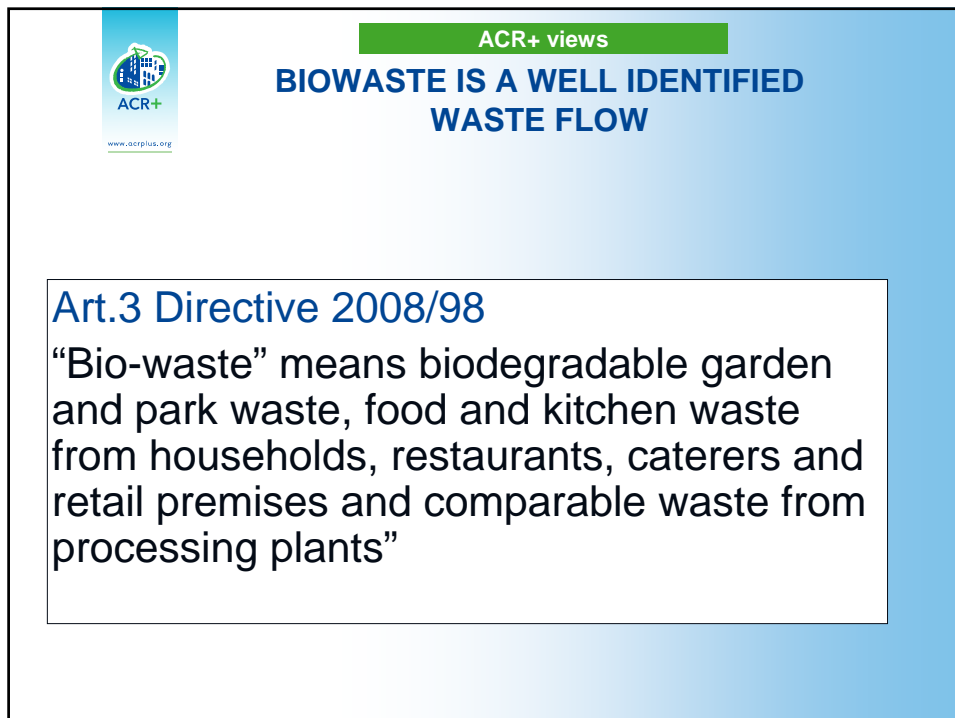
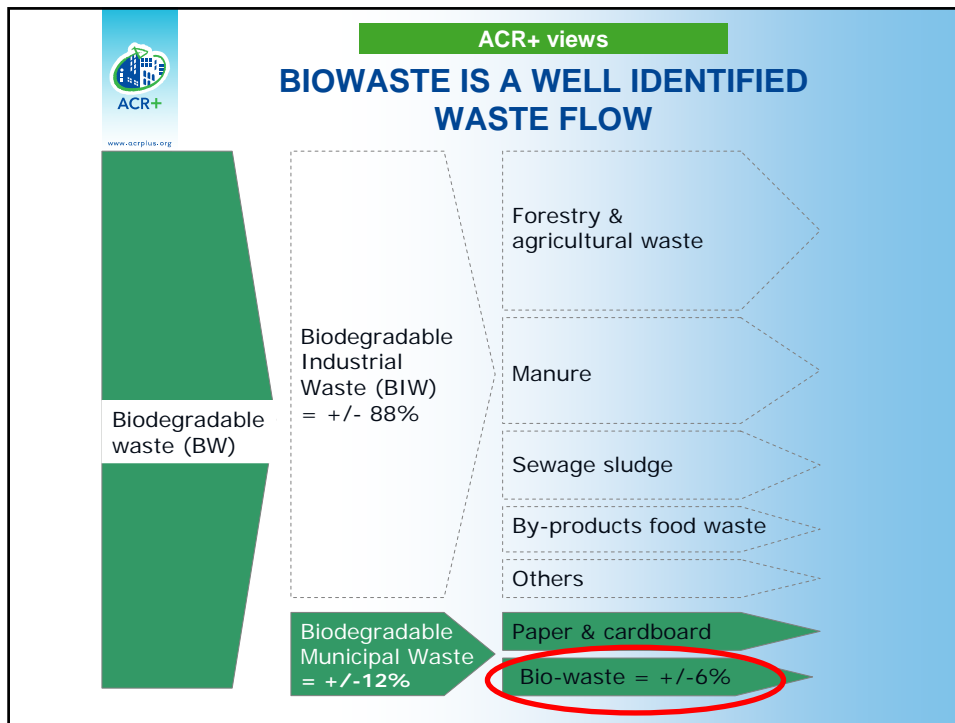


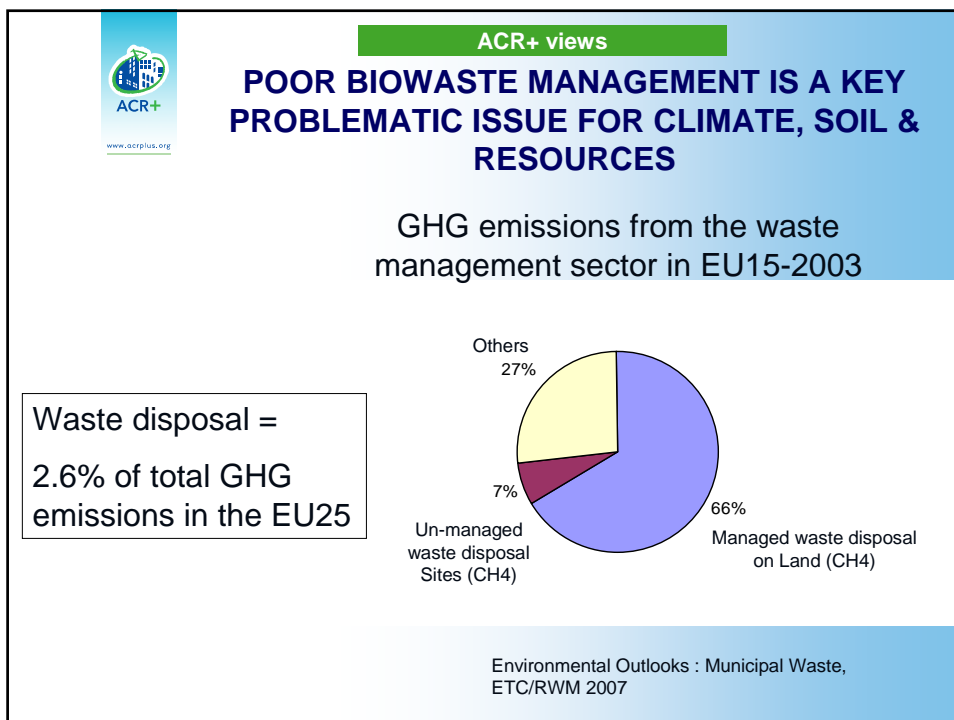
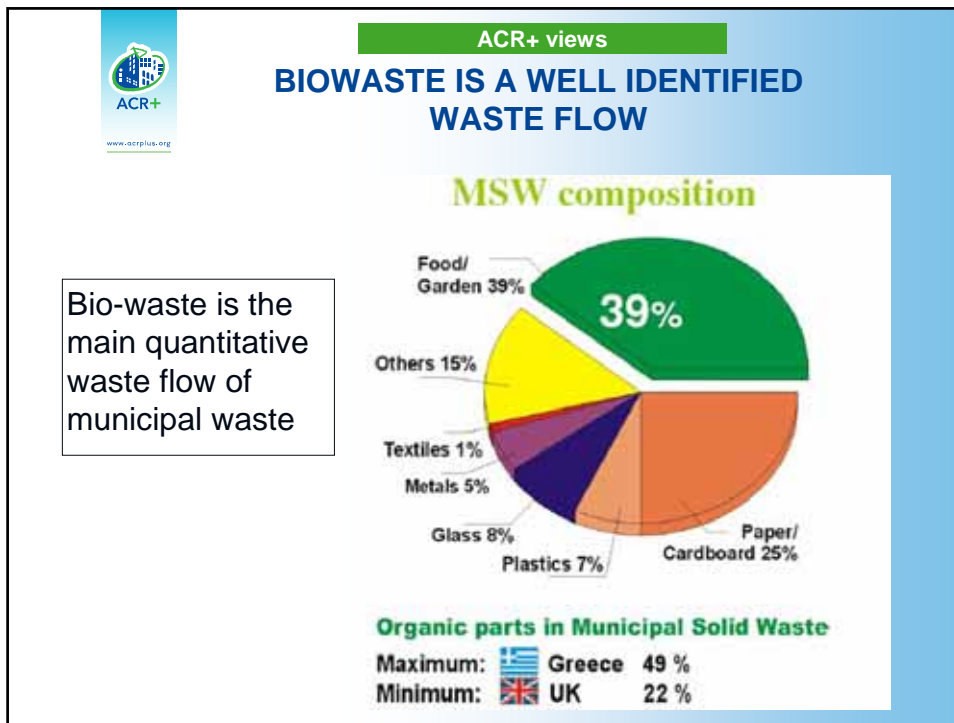
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THE EXISTING LEGAL SITUATION ABOUT BIOWASTE IS TOO CONFUSED

1° Current legislation/ strategies (Waste framework Directive; End-of-Waste criteria; Landfill directive) provide only general & limited guidance for bio-waste management

2 ° Current legislation/ strategies run the risk of providing incentives for the development of bio-waste incineration or poor bio-waste treatment







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POOR BIOWASTE MANAGEMENT IS A KEY PROBLEMATIC ISSUE FOR CLIMATE, SOIL & RESOURCES

Food
= 30% of the ecological footprint
= 20-30% of greenhouse gas emissions



*Nos CHOIX ALIMENTAIRES *
ONT UN IMPACT SUR L'ENVIRONNEMENT* Kroll

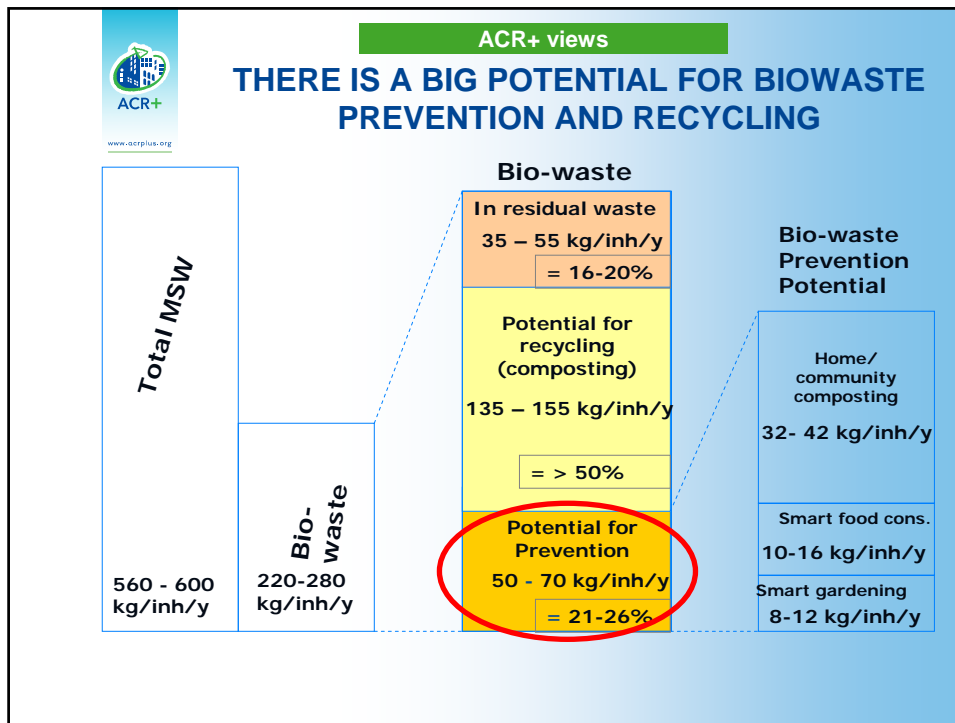

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POOR BIOWASTE MANAGEMENT IS A KEY PROBLEMATIC ISSUE FOR CLIMATE, SOIL & RESOURCES


EUROPEAN SOIL NEEDS COMPOST

- Improved workability
- Carbon sequestration
- Water holding capacity
- Soil erosion prevention
- Disease suppression
- Greater yield
- Nutrients



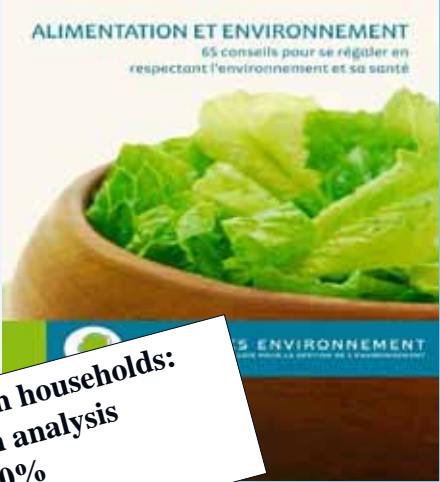
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NEED OF SMART FOOD CONSUMPTION



Specific helpful tools

- calendar of seasonal fruits and vegetables
- recipe cards with anti-waste, seasonal, etc., recipes
- “food and environment” brochure
- “organic addresses” guide,
- activities in shops, markets, etc




Pilot scheme with households:

- 3 months - bin analysis
- > reduction: 80% (12KG/INH/Y)

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NEED OF SMART FOOD CONSUMPTION




From collective catering

→ **IT-Torino:** AMIAT collected bread & fruit from 120 schools saving 33 tonnes food/y, total savings > 50,000€

From supermarkets - retailers

→ **UK-“FareShare”**(nat. organisation): redistributes high quality fresh food collected. 2000 t/y diverted from landfill = 3.3 m meals to 12,000 disadvantage people = reduce 13,000 t CO2 emissions (2005)

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SMART GARDENING POTENTIAL




Garden waste

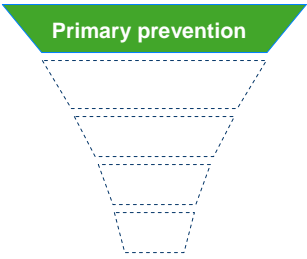
- between 20 and 700 kg/inh/y
- average of 25 kg/inh/y in urban areas

and depends, amongst other, on:

- use of garden area
- season
- grass cycling, ...

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WE NEED A BIO-WASTE PREVENTION POLICY



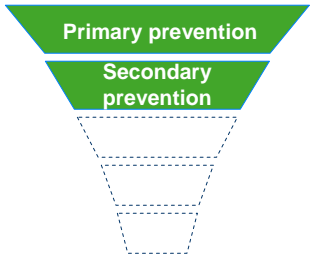
Primary prevention

- Primary prevention or avoiding the generation of bio- waste
 - ▶ 'Smart' food consumption
 - ▶ 'Smart' gardening

Potential bio-waste prevention through smart consumption & smart gardening = 18 to 30 kg/inh/y

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WE HAVE NEED A BIO-WASTE PREVENTION POLICY



→ Secondary prevention or bio-waste minimization

- ▶ Home composting
- ▶ Collective composting at source
- ▶ On-site composting

Potential bio-waste prevention through home & community composting = 32 - 42 kg/inh/y

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HOME COMPOSTING POTENTIAL



- less 50%-70% (Martello / Santa Giustina - IT)
- less 30KG (Asti -IT)
- less 60-70KG (F)
- less 100KG (Lipor – P; Milton-Keynes – UK;...)

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NEED OF COMMUNITY COMPOSTING AND GREEN SPACE COMPOSTING AT SOURCE


Community composting

- (“Le Logis” Brussel Region): less 9 kg/food waste/inh/1 month;
- (Rennes - FR): less 1,100 t with 11,800 participants (less 93kg/household/y)



(350 ha of green space managed by IBGE) = 720 t of green waste

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WE NEED A BIO-WASTE PREVENTION POLICY

→ Quantitative targets in relation to the bio-waste hierarchy are both possible and necessary to help orientate local public policy and private investments:

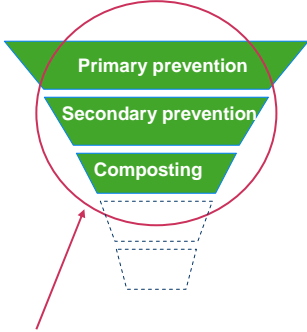
- ▶ Bio-waste primary prevention
 - Smart gardening 3 – 4%
 - Smart food consumption 4 – 6%
- ▶ Bio-waste secondary prevention
 - Home & community composting 14 – 16%

Global target for bio-waste prevention = 21 - 26%



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WE NEED ALSO A BIO-WASTE RECYCLING POLICY



→ Composting preferred options:

- ▶ Material recycling (composting)
- ▶ Material recycling with energy recovery followed by composting

Global target for bio-waste recycling = 50%



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WE NEED ALSO A BIO-WASTE RECYCLING POLICY



Coherent & integrated approach to the management of bio-waste, linked to waste strategy, land use planning, and soil - and climate change strategies




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WE NEED ALSO A BIO-WASTE RECYCLING POLICY


→ SOME EUROPEAN QUALITY ASSURANCE IS NEEDED AT THE DIFFERENT STAGES OF BIO-WASTE MANAGEMENT

- ▶ Input materials (Mixing authorized and not)
- ▶ Processes (sanitisation/ hygienisation)
- ▶ End product standards
 - 'Compost' properties
 - Sector of application
 - Quality labels




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FOR OTHER ASPECTS



Gestion des déchets ménagers biodégradables: quelles perspectives pour les autorités locales européennes ?

"Managing Biodegradable Household Waste : What prospects for European Local Authorities ?"
- ACR+ TECHNICAL REPORT -
October 2005





HOW TO DEVELOP SELECTIVE COLLECTION?

Door-to-door ?

- ▶ B, FR, A, All, L,

Bring Systems ?

- ▶ Sw, Fin, S, Port, U-K,



ACR+ CONFERENCE
Malta, 7-9 October 2009



FOR OTHER ASPECTS

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