

Aida Anthouli, D-Waste Expert

aida.anthouli@d-waste.com

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Who is D-Wastell



A pioneer company in the environmental & WM field, incorporating modern thinking & practices in traditional waste challenges



Earthquake in Haiti

12 January 2010

222,000 killed **300,000** injured **millions** displaced **Nothing was working!**

> 3 million \$ in 48 hours
> 41 million \$ → June



Something was still working...





Main Question...

WASTE

• networking, Why don't we use them for waste management improvement?

• survival plans,

• ^{online} banking,

If mobiles phones are used for.

The SWM Challenge

Rising waste volumes

THEFT

Complexity of waste streams

Lack of resources

Rapid Urbanisation

Globalisation

New

Interconnectivity

Easier access to information

technologies

WASTE

waste & behavior

PAST

Waste as nuisance PRESENT

Waste as **resource**

Focus: infrastructure, appropriate storage, collection, transfer, treatment & disposal

Improved efficiency, increased recycling, quality of recycled materials, people's involvement,

change people's behavior



So the answer is:

We cannot think with the **old** way, in the **new** framework!



SWM Needs to become...



Smarter

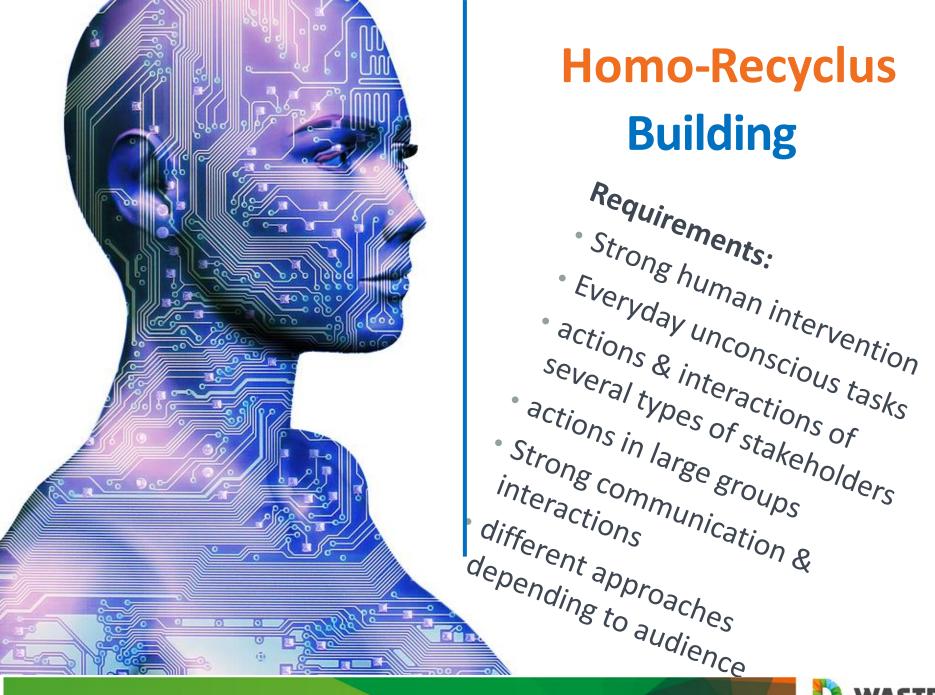


Faster & effective









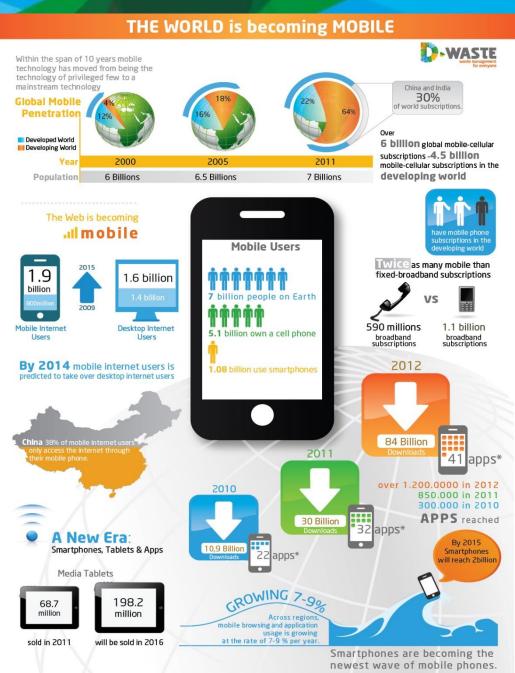
Homo-Recyclus Building



The mobile tsunami

- > 6 billion mobile subscriptions annually...
- 4.5 billion developing world





*This is the average number of mobile apps downloaded by smartphone users in US.

the NEW ERA☆

Smartphones

Tablets

Apps



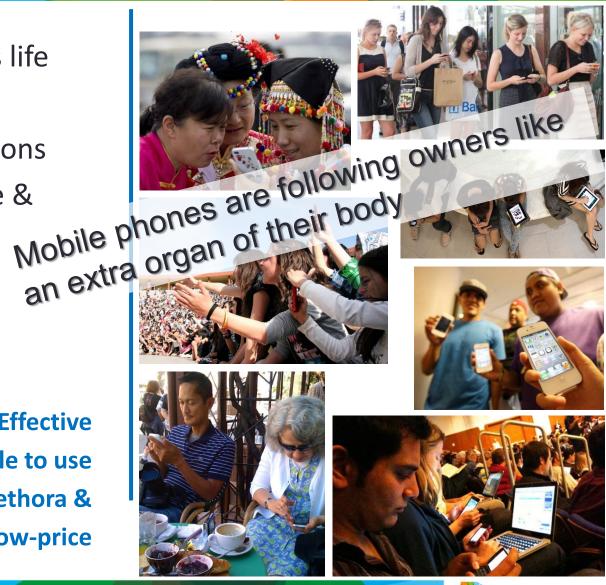


Mobile's Social Function

- Projectors of people's life
- Enabling devices
- Offer economic solutions
- Connect People, Time &
 Space
 - Data transfer
 - Geolocation

Effective
Simple to use
Are in plethora &

in low-price



Question...

D-WASTE

D-Waste Team

Mobile Applications 8 Waste Management: Recycling, Personal Behavior, Logistics

D-WASTE WHITE PAPER

What mobile applications can do for the WASTE MANAGEMENT SECTOR?

http://www.youtube.com/watch?v=A2_aH5PGBIs



Connecting stakeholders

The Stakeholders' View

- **1.** Interactive Communication
- 2. Mobile Services
- 3. Mobile Democracy
- 4. Mobile Administration



The Users' View

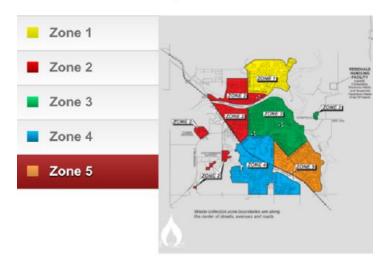
- 1. Informational/Educational
- 2. Interactive Participatory
- 3. Functional



Better Collection

Мар	

You selected Zone 5 as your zone.





- Schedule collection
- **Custom reminders** for regular, holiday and special collection
- Real time citizen feedback & information (recycling/disposal procedures, drop off facilities, payment transactions)
- Citizens' claims & reporting problems (illegal dumping, inadequate waste collection")



Communication - Awareness

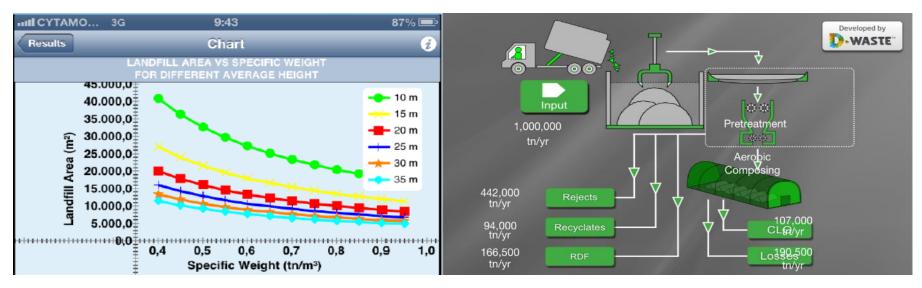
Access channel for waste management authorities to citizens



- Provide information to citizens
- Raise awareness
- Better cooperation between municipalities & citizens



Engineering Tools





- Mass balance models
- Cost benefit analysis
- Sizing waste treatment facilities
- Designing waste recycling/prevention programs
- Defining collection routes



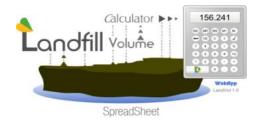
Scientists & researchers



- Conduct cross sectional studies at low cost.
- Data collection is possible wherever the device is available - useful for cross cultural studies.
- Gather data in regions & populations difficult to access, or not equipped with technology or knowledge to handle extensive testing.



D-Waste apps suite























Mobile App

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The need for a framework



Necessary actions:

- A proper "ecosystem"
- Invest in raising understanding of the mobile apps potential benefits.
- Strategic interventions & financing.
- Standardization of the relevant mobile systems.
- Literacy of citizens as well as workers in the recycling sector





An app is a success story only if it is utilized in an overall policy and strategy that addresses:

- infrastructure,

- communication,
 - institutional &
- economic aspects





THANK YOU FOR THE ATTENTION

www.d-waste.com

V-WASTE

D-Waste Team

Mobile Applications 8 Waste Management: Recycling, Personal Benavior, Logistics

For more:

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info@d-waste.com