



*New approaches for the valorisation of URBAN  
bulky waste into high added value RECycled  
products*

# URBANREC

## Final conference

6<sup>th</sup> November, 2019  
Brussels(Belgium)

WP 1 – Bulky waste prevention, re-use and collection enhancement

WP Leader: IMOG



## WP1. Bulky waste prevention, re-use and collection enhancement



### Objectives:

- Demonstrate **alternative routes** for bulky waste **collection, separation and re-use**
- **Enhance re-use** of bulky waste



## WP1. Bulky waste prevention, re-use and collection enhancement



**What have we done:**

**1.1 Definition of starting situation on bulky waste management in the 4 regions under study**

**1.2 Define new alternatives for bulky waste collection, separation & re-use**

**1.3 New mobile application development for citizens' bulky waste management.**

**1.4 Customer portal implementation**



## Task 1.1 Starting situation definition on bulky waste management in the URBANREC regions of study



### Definition BULKY WASTE

- (mixed) waste from households and similar waste from companies
- Does not fit in the regular receptacle used for the collection of household wastes → because of size, shape or weight

Definition does not depend on the way it was collected (e.g. door-to-door, civic amenity site, kerbside collection, etc.).

#### Includes waste made of:

- mixed materials such as furniture, mattresses, fixtures and fittings, upholstery and carpets
- made of only one material, such as rigid plastic, latex, wood, metal, fibre, leather and glass

#### Does not include:

- Construction and demolition waste, inert waste and wastes for which waste management legislation at EU-level exists (e.g. packaging waste, WEEE, batteries, etc.)



# Task 1.1 Starting situation definition on bulky waste management in the URBANREC regions of study



## Accomplishments and key results:



### 4. Analysis of the collected data

#### 4.1. General framework in bulky waste.

The table below shows the general framework of bulky waste management of each country.

	Province of Izmir, Turkey	Region of Valencia and Consorcio Valencia Interior, Spain	Warsaw, Poland	Region of Flanders Imog area, Belgi
At which level is waste regulation voted?	<input checked="" type="checkbox"/> National <input type="checkbox"/> Regional <input type="checkbox"/> Both	<input type="checkbox"/> National <input type="checkbox"/> Regional <input checked="" type="checkbox"/> Both	<input type="checkbox"/> National <input checked="" type="checkbox"/> Regional <input type="checkbox"/> Both	<input type="checkbox"/> National <input checked="" type="checkbox"/> Regional
Specific regulation on bulky waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Regulation published in 2014 to establish CAS across the country.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No There is no a specific concept, but it is included in the household waste.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
Existing re-use/recycling targets on bulky waste	None	No specifically in bulky waste, but it is included in the household waste.	None	Y
Extended producer responsibility (EPR)	None	WEEE, batteries and medical waste.	None	WEEE and batteries.

URBANREC New approaches for the valorisation of URBAN bulky waste into high added value RECYCled products

### DELIVERABLE REPORT

Grant Agreement n°: 690103  
Project acronym: URBANREC  
Project Title: 'New approaches for the valorisation of URBAN bulky waste into high added value RECYCled products'

Funding scheme: Innovation Project H2020-WASTE-2015. Eco-innovative solutions  
Start date of project: 01/06/2016  
Duration of project: 42 months

Deliverable n° & name: D1.1 Definition of the starting situation in URBANREC regions

Due date of D: Month 9, 28 February 2017  
Actual date of D: Month 15, 04 August 2017  
Participant responsible: AIMPLAS

Date of the last version of the Annex I against which the assessment will be made: 3<sup>rd</sup> May 2016

Project coordinator: AIMPLAS  
Project website address: <http://urbanrec.aimplas.es/>

Dissemination Level	
PU	Public
PP	Restricted to other programme participants (including the Commission Services)
RE	Restricted to a group specified by the consortium (including the Commission Services)
CO	Confidential, only for members of the consortium (including the Commission Services)

Deliverable 1.1. Definition of the starting situation in URBANREC regions  
4<sup>th</sup> August 2017

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## Task 1.2 Define new alternatives for bulky waste management



### ***OBJECTIVES:***

Lower the threshold for inhabitants for re-use and waste collection by:

- developing an in-house dismantling service
- setting up a collaborative network with social enterprises

Increase recycling by:

- Implement an innovative Waste Management system



## Task 1.2 Define new alternatives for bulky waste management



### Accomplishments and key results: *In-house Dismantling*

- Cooperation Re-use center and IMOG
- Service for citizens who want to unclutter a full house
  - empty closets and pack all the stuff
  - dismantle furniture
  - bring reusable goods to the reuse centre
  - removal of non-reusable goods
  - Free of charge if >80% reusable
- GOAL: Collect more items for reuse



**Inhouse-dismantling service 2017 – 2019\***

**300 times = 345 ton re-use (78%)**

\*until beginning of Oct 2019



## Task 1.2 Define new alternatives for bulky waste management



**Accomplishments and key results:** *Collaborative Network*



**28 social and non-profit organisations**  
charity, schools, higher education, artists, youth clubs, etc.

**Re-used bulky waste via Hangar:**  
**Dec 2017 – Oct 2019 = 106 ton extra reuse**



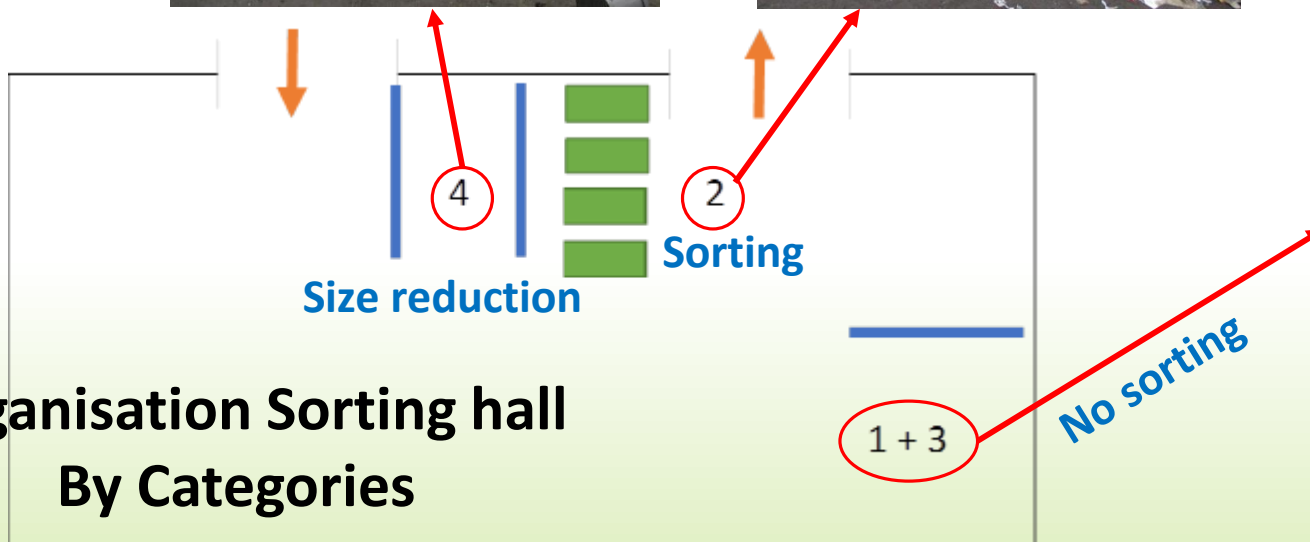


## Task 1.2 Define new alternatives for bulky waste management



### Accomplishments and key results:

### *Innovative Waste Management system (VANHEEDE)*

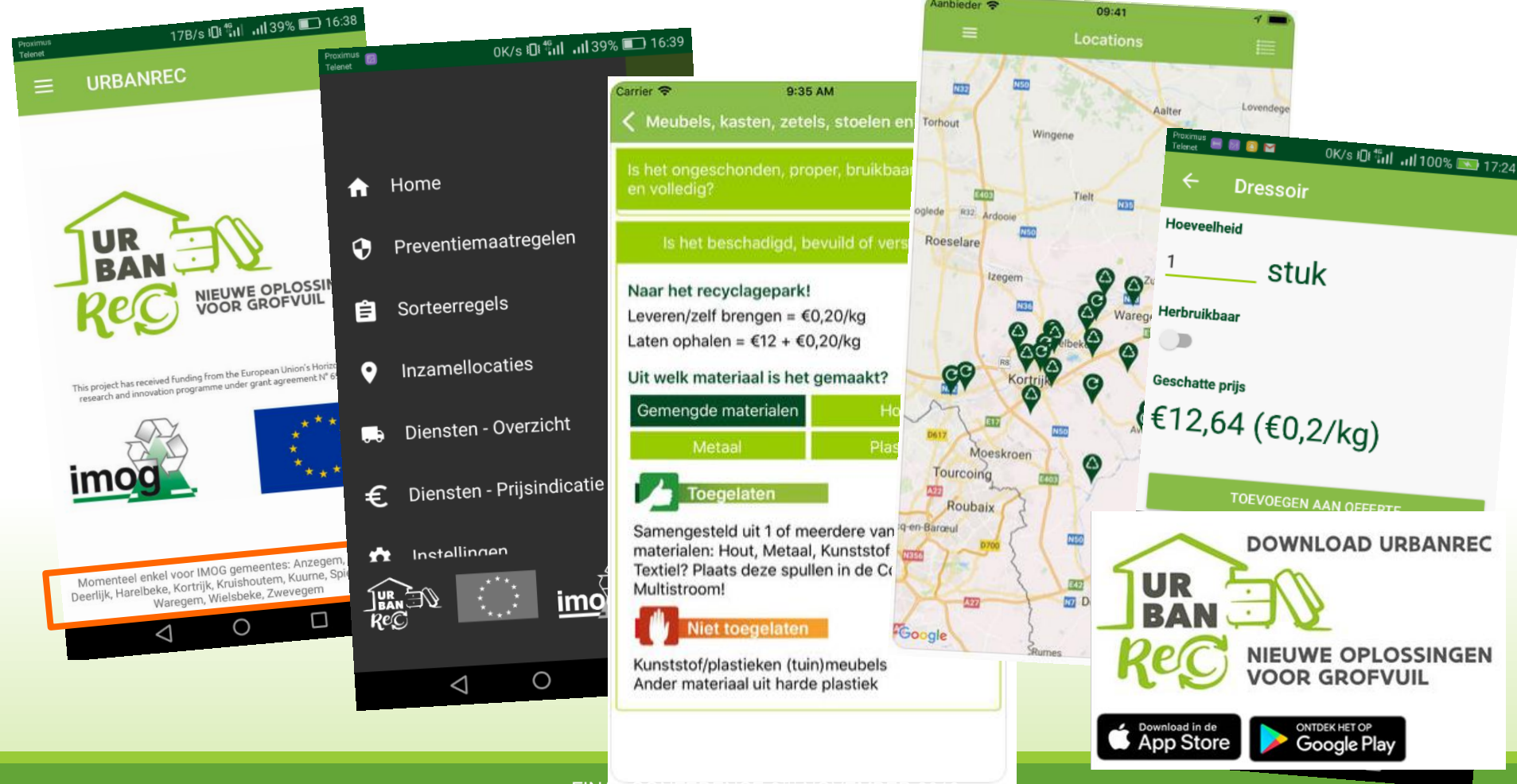




# Task 1.3 Development of new mobile application for citizens' bulky waste management



## Accomplishments and key results: *New mobile app*





## Task 1.4 Customer portal implementation



### **Accomplishments and key results:**

#### ***Customer Portal: Innovative data collection system***

##### ***OBJECTIVE:***

Implement an innovative data collection system to assess recycling patterns of citizens

For to implement them into educational programs and dissemination activities tailored to specific groups



# Task 1.4 Customer portal implementation



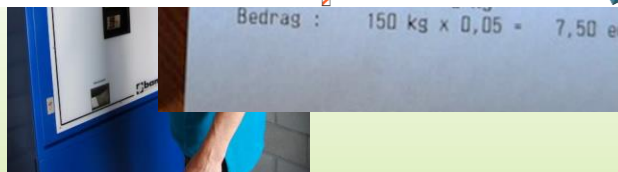
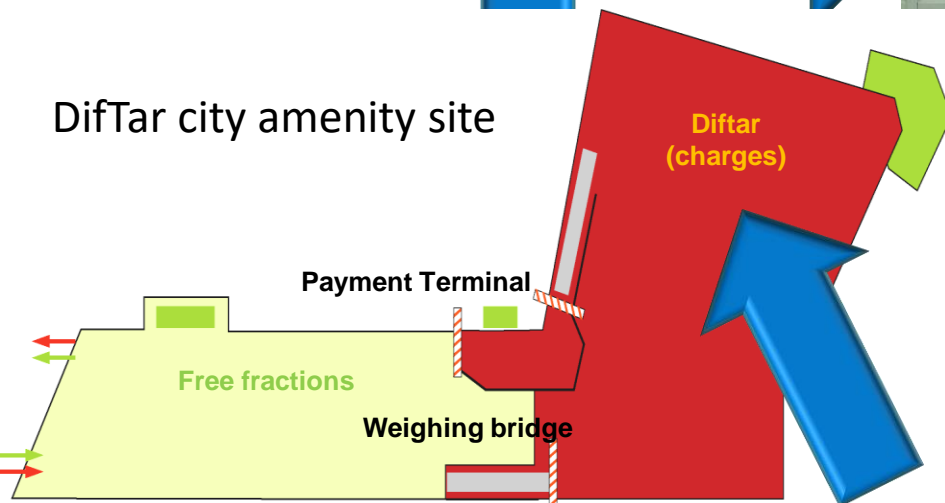
Data collection



Possibility to add specific messages at the **container**



DifTar city amenity site



**Later phase:**

- History via ticket, terminal or website
- Positive tariffing

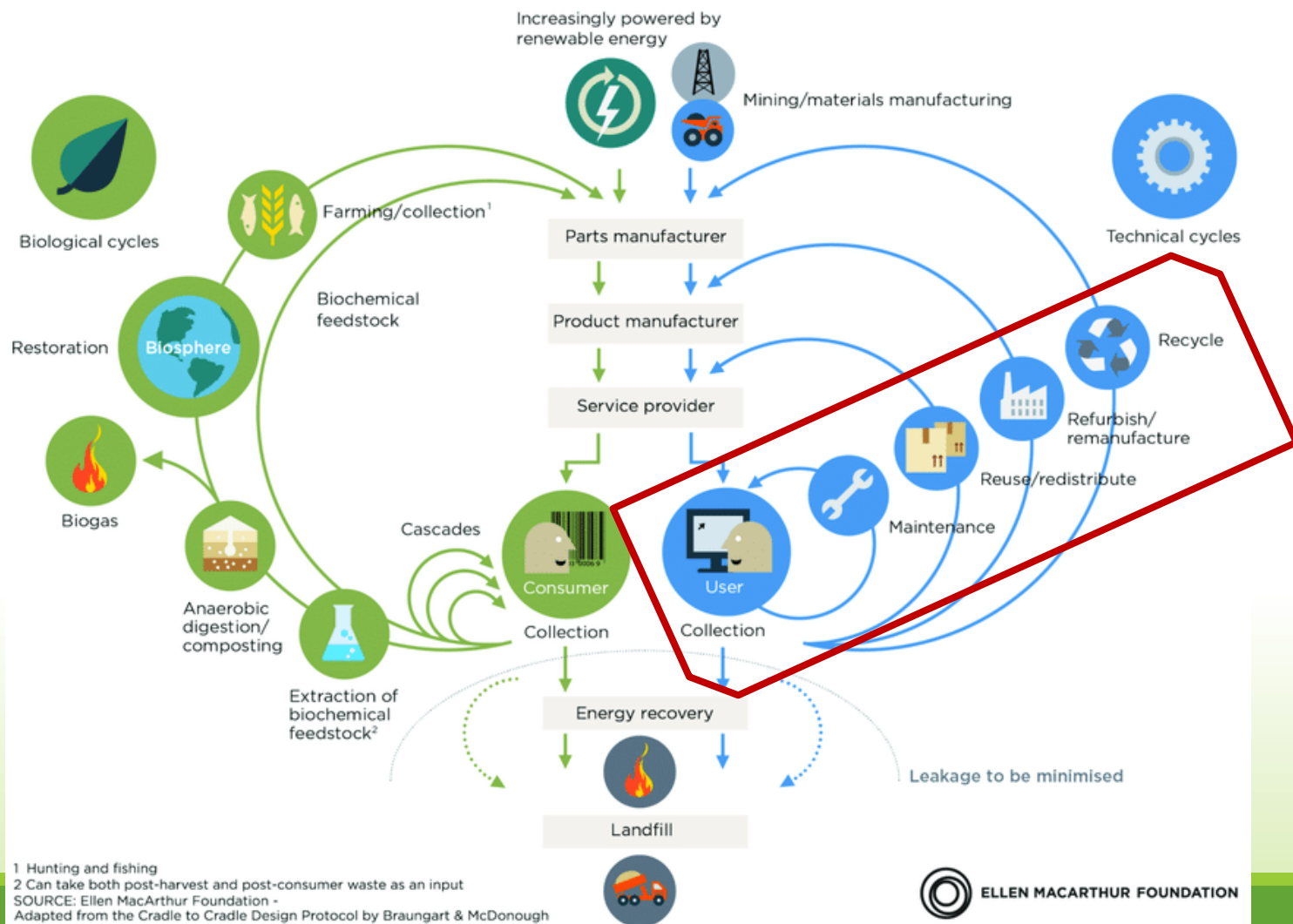




# WP1. Bulky waste prevention, re-use and collection enhancement



## Contribution to Circular Economy





**THANK YOU**

**GRACIAS**  
**ARIGATO**  
**SHUKURIA**  
**JUSPAXAR**  
**DANKSCHEEN**  
**TASHAKKUR ATU**  
**YAQHANYELAY**  
**SUKSAMA**  
**EKHMET**  
**TINGKI**  
**BIYAN**  
**SHUKRIA**  
**GOZAIMASHITA**  
**EFCHARISTO**  
**AGUYJE**  
**FAKAAUE**  
**KOMAPSUMNIDA**  
**MAAKE**  
**LAH**  
**GRAZIE**  
**MEHRBANI**  
**PALDIES**  
**BOLZIN**  
**MERCI**  
**MINMONCHAR**  
**SPASSIBO**  
**SNACHALHUYA**  
**NUHUN**  
**CHALTU**  
**WADEEJA**  
**MAITEKA**  
**HUI**  
**YUSPAGADATAM**  
**ATTO**  
**AUBHA**  
**DUNYADAD**  
**WABEEJA**  
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**DENKAUJA**  
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**HATUR GUI**  
**EKOJU**  
**SIKOMO**  
**MAKETAI**