



appliances
recycling s.a.



Ecological Recycling Society



GREEN FUND



Harokopio University
of Athens



ReWeee

LIFE14 ENV/GR/000858

The objectives and results of the LIFE RE-WEEE Project

24/10/2019

2nd Workshop of LIFE MATHER Project



Project Title

“Development and Demonstration of Waste Electrical & Electronic Equipment (WEEE) Prevention and Reuse Paradigms”

Implementation Duration
January 2016 – August 2020

Project Objective

WEEE reduction and reuse strategy
implementation

Total Budget

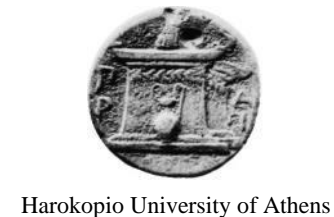
2.161.405 €

EC contribution 60%

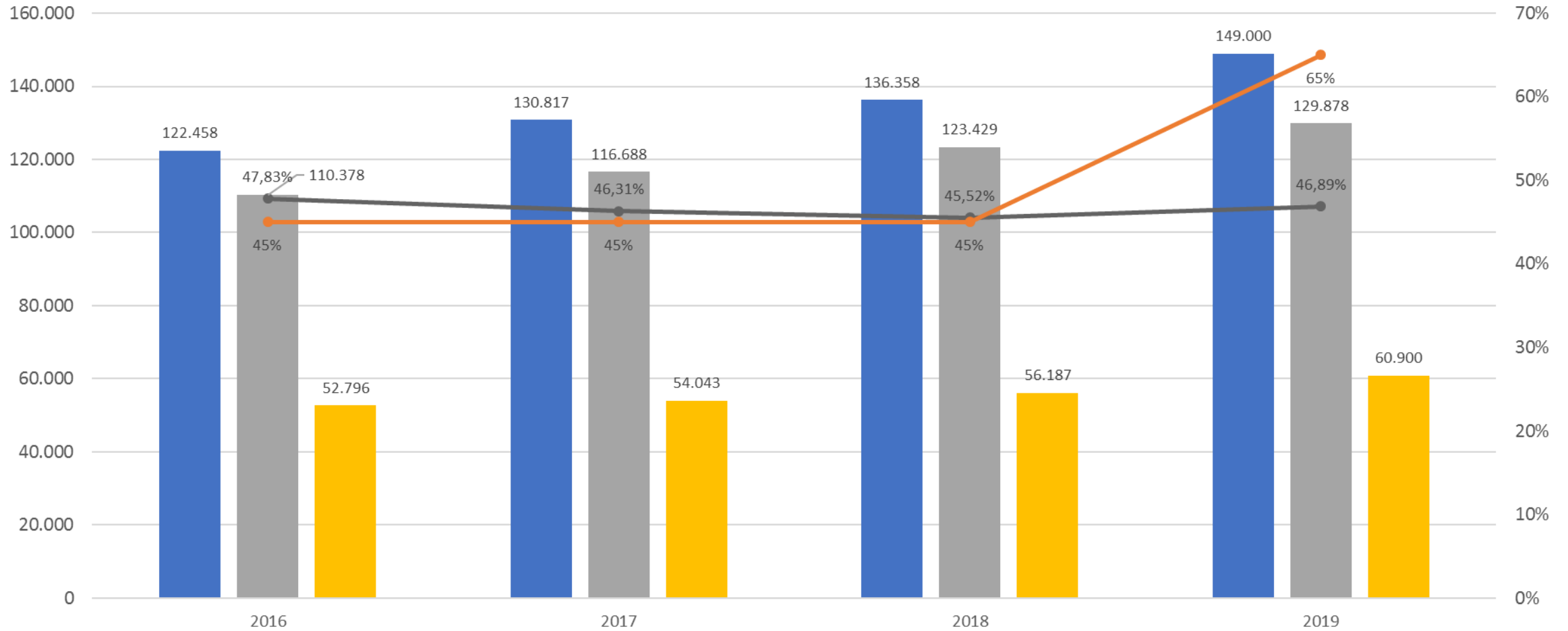
LIFE+ Environment

Action Areas

- Greece
- Belgium

Coordinator Beneficiary**Co-Beneficiaries**

Greek Situation

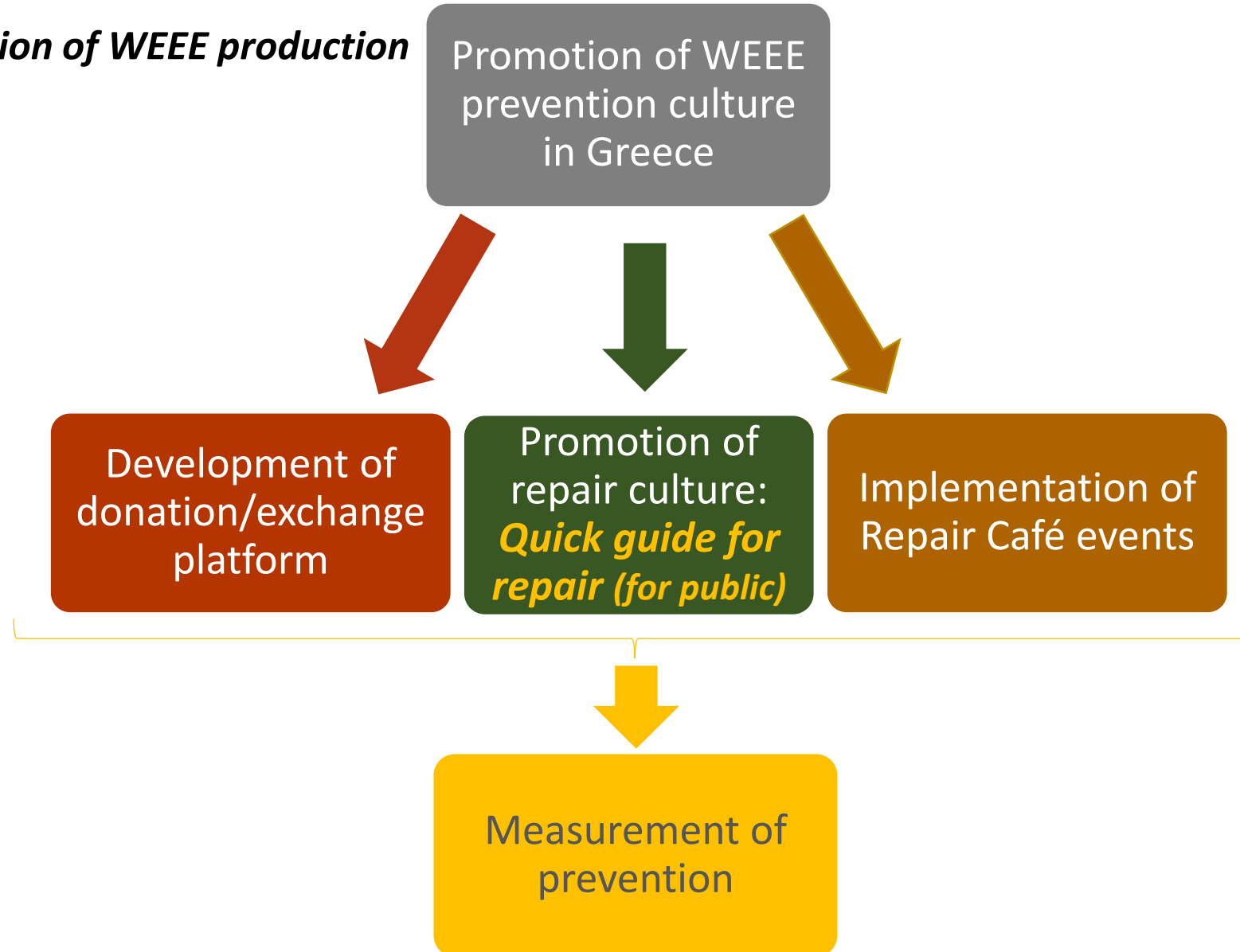


ReWeee *objectives according to EU policies*

- Prevention and reduction of WEEE production
- Priority to re-use
- Implementation of qualitative management activities
- Achievement of the targets set by legislation
- Standards development for infrastructure and transportation activities



Activities for prevention of WEEE production



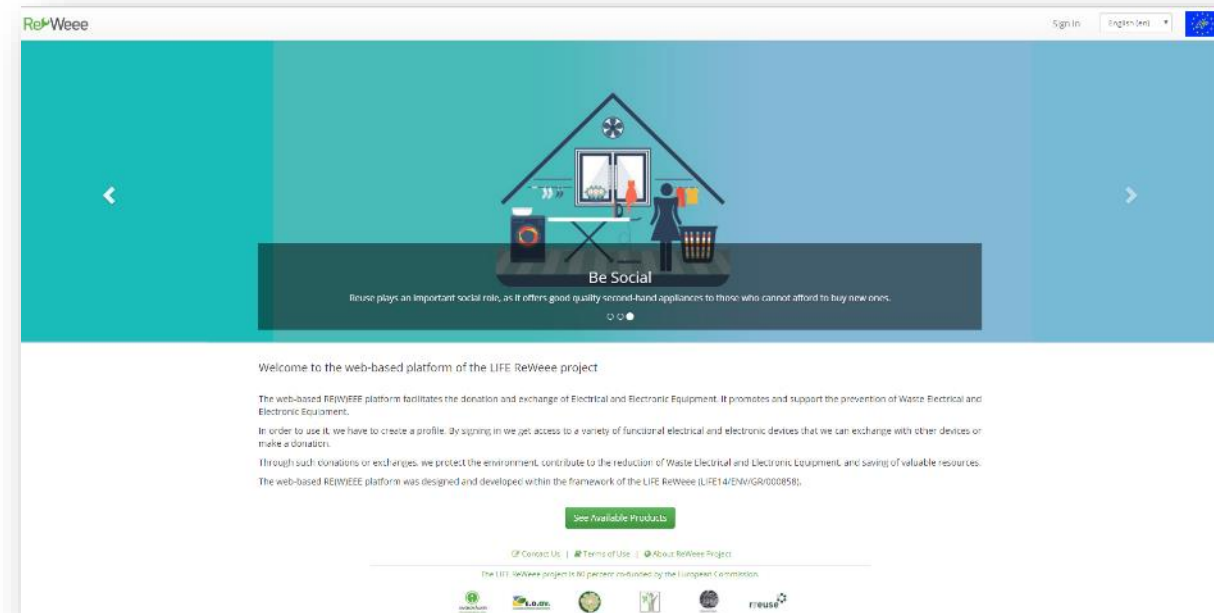
Activities for prevention of WEEE production

Promotion of WEEE
prevention culture
in Greece



Development of
donation/exchange
platform

<https://reweee.hua.gr/en/>



Activities for prevention of WEEE production



Promotion of WEEE prevention culture in Greece



Implementation of Repair Café events

7 Repair Cafés till today



313 devices were brought in for repair:

- ✓ **222 were fixed or could be repaired with spare parts**
- ✓ **91 irreparable**

Βήμα 2°: Αποσυναρμολογούμε το εξωτερικό μεταλλικό κάλυμμα του Η/Υ.



Βήμα 3°: Αποσυναρμολογούμε το τροφοδοτικό από το πλαίσιο – σκελετό του Η/Υ και αποσυνδέουμε τα καλώδια σύνδεσης με τα άλλα εξαρτήματα.



Promotion of
repair culture:
*Quick guide for
repair (for public)*

www.reweee.gr

gr/el/attachments/synoptikos-odigos-episkeyon-kat-oikon

ReWeee

Ελληνικά English



Ανάπτυξη και επίδειξη μοντέλων πρόληψης και
επαναχρησιμοποίησης Αποβλήτων Ηλεκτρικού και Ηλεκτρονικού
Εξοπλισμού (ΑΗΗΕ)

Αρχική Η Ομάδα μας Το ReWeee Ενημερωτικό Υλικό Χρονοδιάγραμμα Τα Νέα Μας **Παραδοτέα Έργου** Photo Gallery Σχετικοί Σύνδεσμοι Επικοινωνία

Συνοπτικός Οδηγός Επισκευών Κατ' Οίκον

B6.2_Οδηγός Επισκευής Κατ' Οίκον_Εισαγωγή.pdf

B6.2_Συνοπτικός Οδηγός Επισκευών Κατ' οίκον_1_Σταθμός Ηλεκτρονικού Εξοπλισμού.pdf

B6.2_Συνοπτικός Οδηγός Επισκευών Κατ' οίκον_2_Σταθμός Ηλεκτρονικού Εξοπλισμού - Laptop.pdf

B6.2_Συνοπτικός Οδηγός Επισκευών Κατ' οίκον_3-4_Smartphone.pdf

B6.2_Συνοπτικός Οδηγός Επισκευών Κατ' οίκον_5_Εξωτερικός Σκληρός Δίσκος - Hard Drive.pdf

B6.2_Συνοπτικός Οδηγός Επισκευών Κατ' οίκον_6_Θόνη Ηλεκτρονικού Εξοπλισμού.pdf

B6.2_Συνοπτικός Οδηγός Επισκευών Κατ' οίκον_7_Δρομολογητής Δικτύου - Router.pdf

B6.2_Συνοπτικός Οδηγός Επισκευών Κατ' οίκον_8-9-10_Καλώδια - Πευματοδότης.pdf



3. How to extend the life of your *laptop*

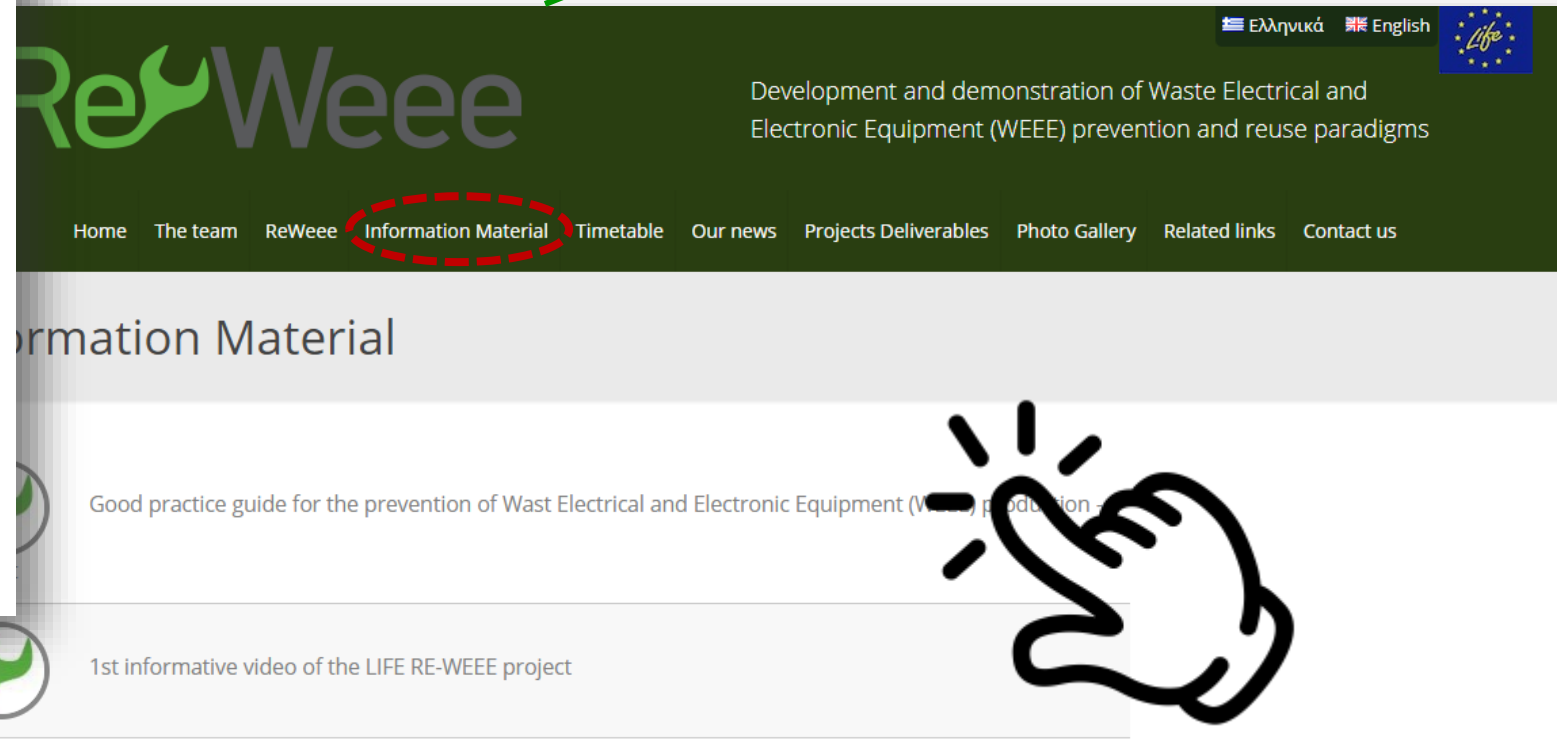
1. **Remove dust and debris from the keyboard and the screen** at least once a year. If you don't know how to safely clean the laptop refer to a specialised service/repair center.
2. **Remove the laptop battery at regular** basis in order to clean metal contacts from dust with a dry and clean cloth.
3. Always **transfer your laptop in a protective case**.
4. **In order to avoid overheating of the device don't block the air flow and the fan operation**. In addition, don't place the laptop next to heat sources or direct sunlight that may also result in overheating of the device.
5. Make sure you have **enough RAM and Hard Disc Space**.
6. **Unplug any laptop accessories you aren't using**, as they drain power from your battery.
7. **Turn your wireless local area network (WLAN) off if you don't need it**, as it drains power from the battery.
8. **Use your laptop in the best possible lighting conditions**. In brighter conditions you won't need to set your laptop screen to maximize brightness, so you can save additional battery life.
9. **Defragment the hard drive** in order your system to operate more efficiently.
10. **Reduce the amount of time your inactive laptop stays on before powering itself down and going to sleep**. This way you save energy.
11. **Run regular** software and operating system **updates**.
12. If your laptop has **Li-Ion battery**, **avoid very deep discharges** and avoid **charging to 100% capacity** (BatteryUniversity 2018, Hoffart 2008). Keep your battery cool during charging (Battery University 2018, TechAdvisor 2018, Hoffart 2008).
13. **Upgrade or replace the laptop's hardware components** that slow down your computer or are broken with REEE components or with new ones (always according to the manufacturer's specifications).

Sources: Hoag et al. 2009, Make Use Of 2013, Dell 2018, Battery University 2018, Tech Advisor 2018, Hoffart 2008, Greenpeace 2017, Treehugger 2016

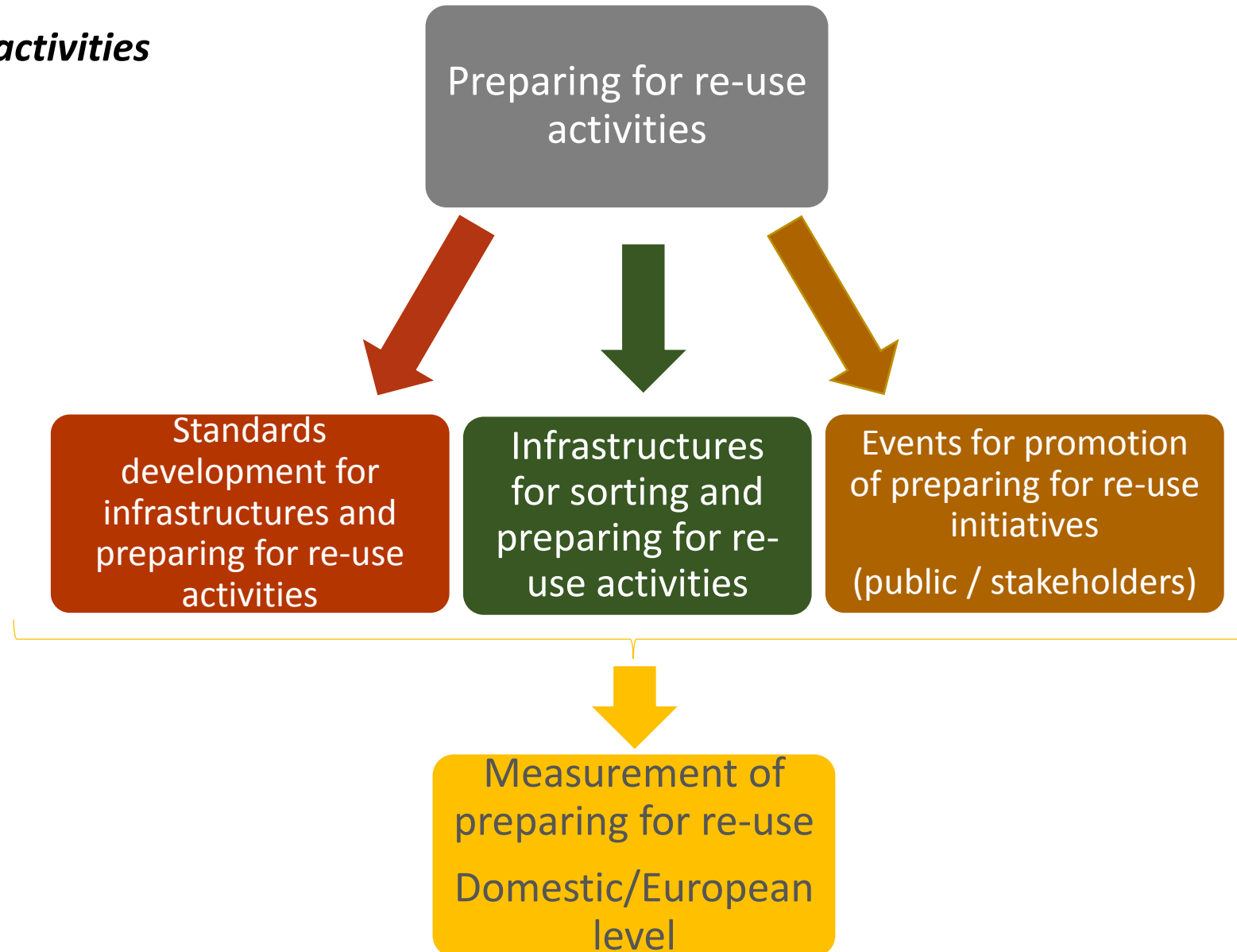


Promotion of
repair culture:
**Good practice
guide (for public)**

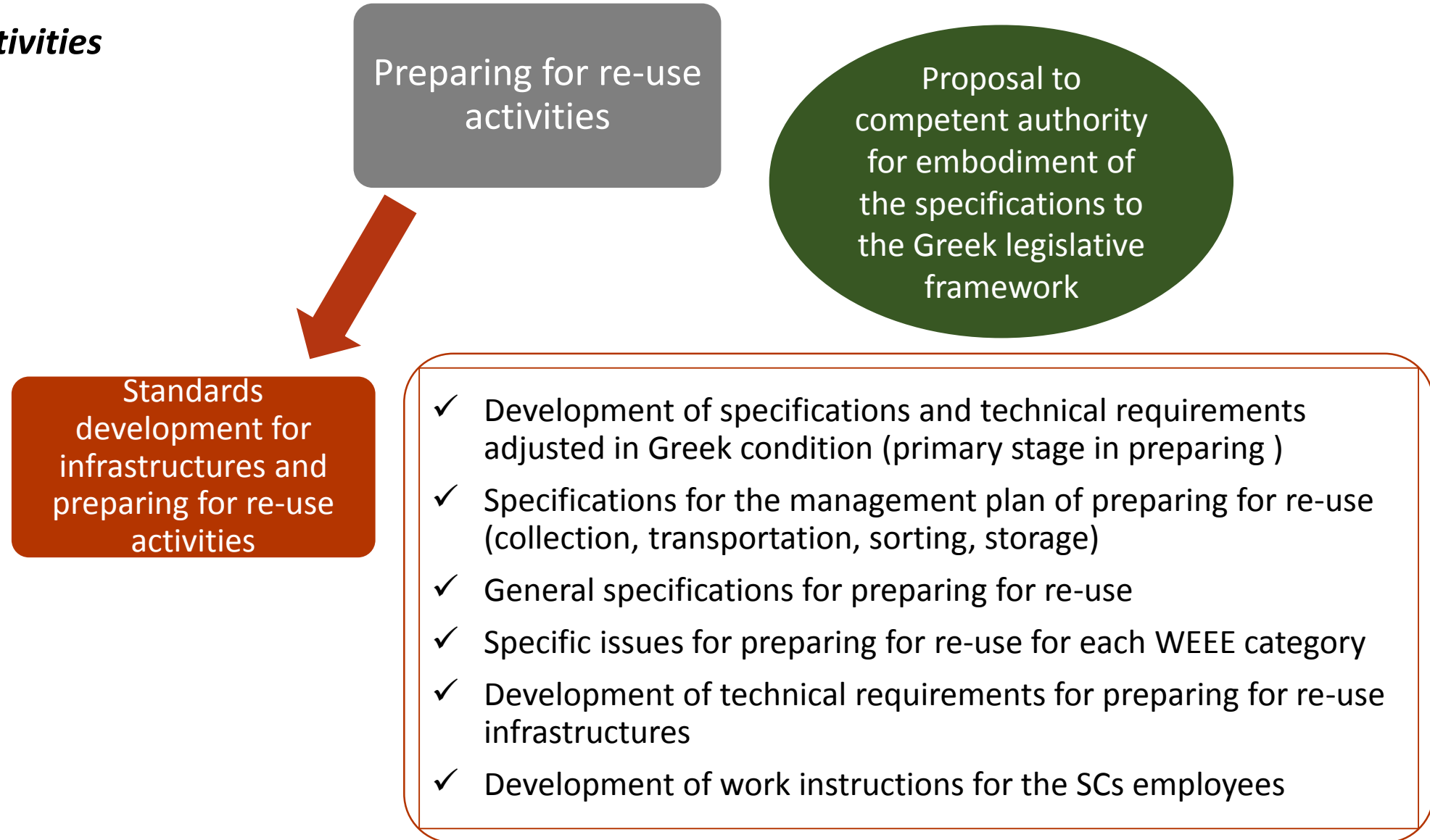
www.reweee.gr



The screenshot shows the ReWeee website with a dark green header. The ReWeee logo is on the left, and the project description "Development and demonstration of Waste Electrical and Electronic Equipment (WEEE) prevention and reuse paradigms" is on the right. A navigation bar contains links: Home, The team, ReWeee, Information Material (circled in red), Timetable, Our news, Projects Deliverables, Photo Gallery, Related links, and Contact us. Below the navigation bar, the page title "Information Material" is visible. The main content area features the text "Good practice guide for the prevention of Waste Electrical and Electronic Equipment (WEEE) production" and a link to the "1st informative video of the LIFE RE-WEEE project". A hand icon with a lightbulb is in the bottom right corner.

Preparing for re-use activities

Preparing for re-use activities



Preparing for re-use activities

Preparing for re-use activities

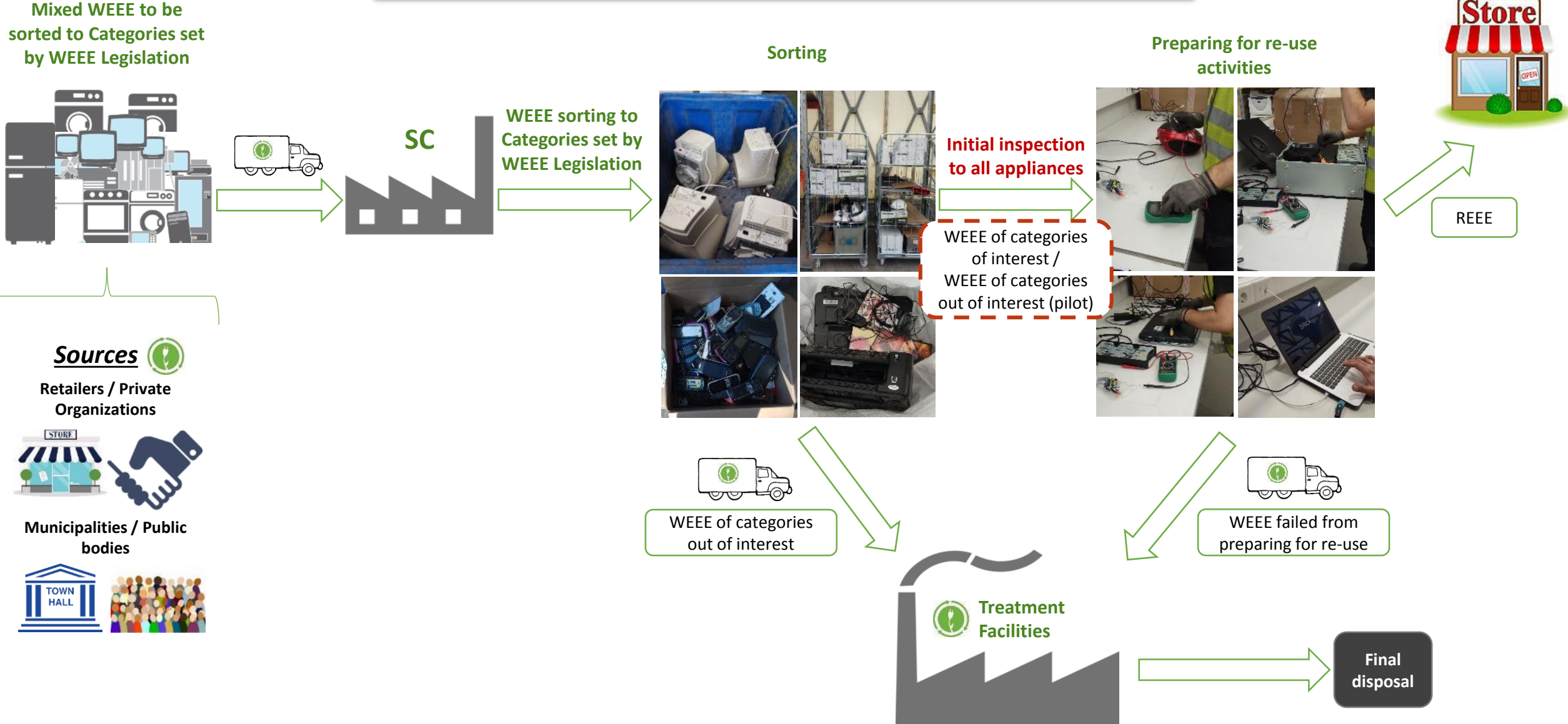


Infrastructures for sorting and preparing for re-use activities



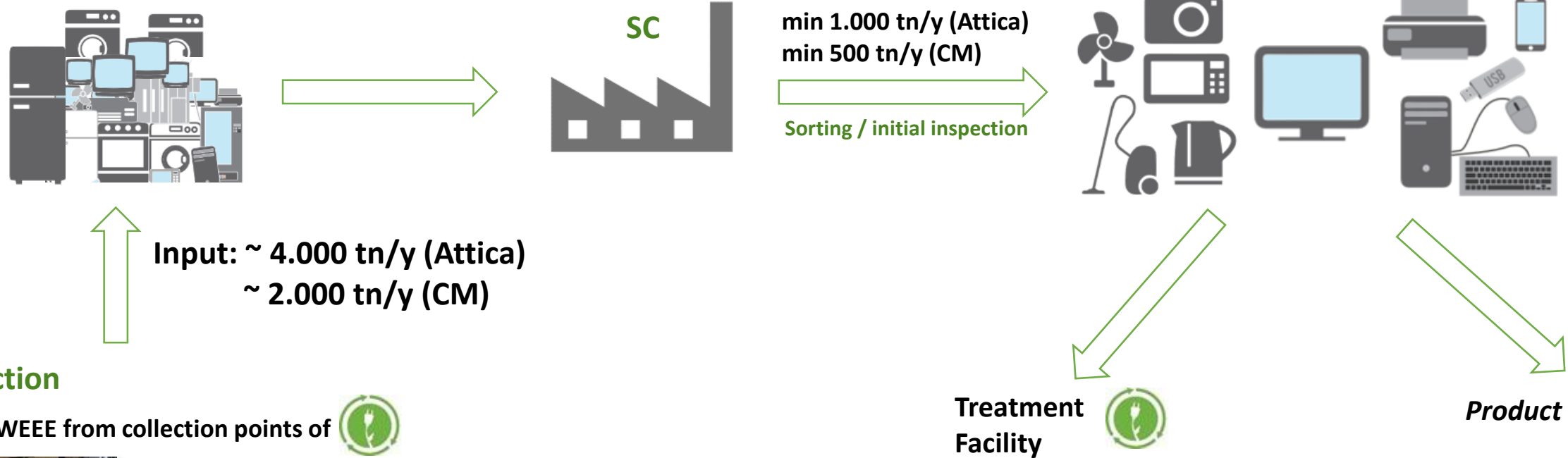
- ✓ Development of 2 Sorting Centers (SCs) of WEEE in Attica and Central Macedonia for the first time in Greece
- ✓ 1 year operation within the LIFE RE-WEEE project duration for data collection and evaluation
- ✓ At least 5 years of the SCs operation (“After Life”)
- ✓ Training activities for SCs’ employees
- ✓ Potential preparing for re-use of all WEEE categories, except Lamps
- ✓ Pilot operation: Public – Private cooperation

Technical Requirements of LIFE RE-WEEE



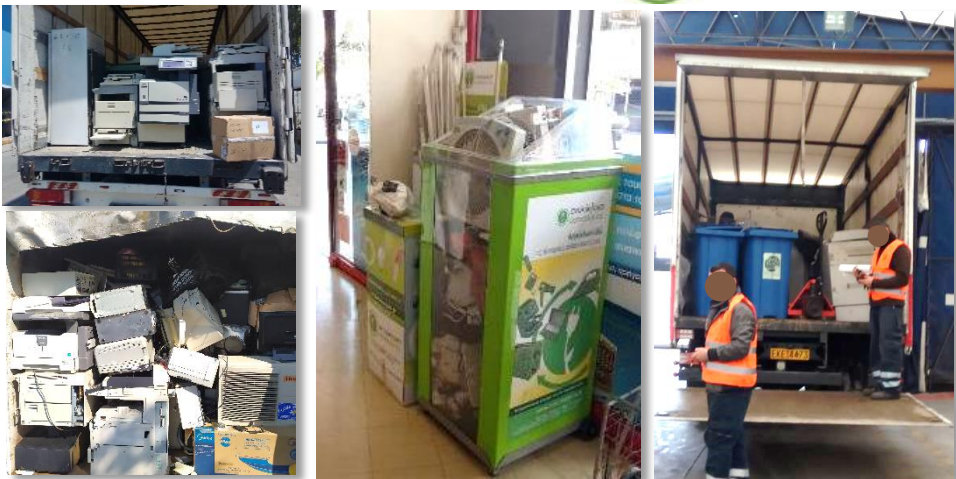
Mixed WEEE to be sorted to
Categories set by WEEE Legislation

WEEE for preparing for re-use activities



Collection

Mixed WEEE from collection points of



Sorting to WEEE
categories:



Sorting to WEEE categories and
initial inspection:



Activities	
Sorting:	<ul style="list-style-type: none">- WEEE Handling – Loading / Unloading- Load inspection- Categorization in the WEEE categories (according to KYA 23615/651/E.103/2014)- Weighting
Preparing for re-use:	<ul style="list-style-type: none">- Sorting of WEEE driven for treatment or preparing for re-use activities – visual inspection- Initial Inspection- Functional tests- Data erasing- Software removal / installation- Repair- Repeat tests- Cleaning
Put on the market / donation	<ul style="list-style-type: none">- Packaging- Product guarantee

Reporting



Operation from 4/2/2019

Infrastructures:



Activities:



Reception



Sorting for treatment



Sorting for initial inspection

Activities:



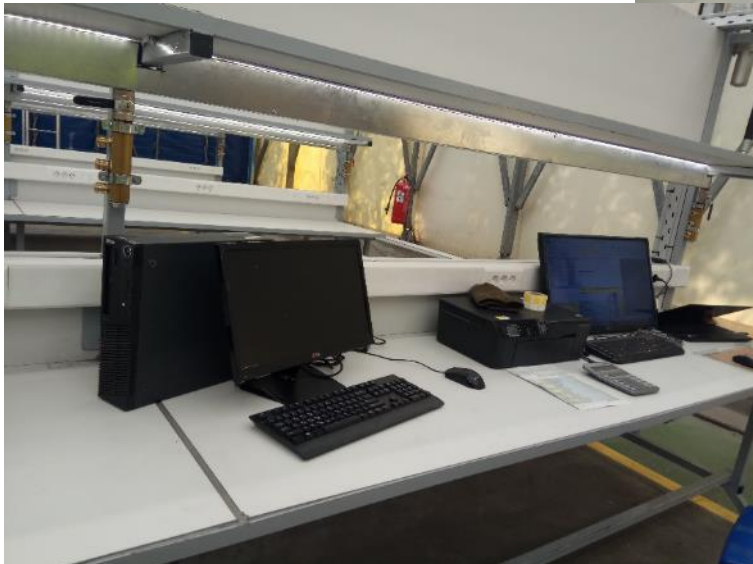
Sorting for initial inspection



Weighting



Activities:

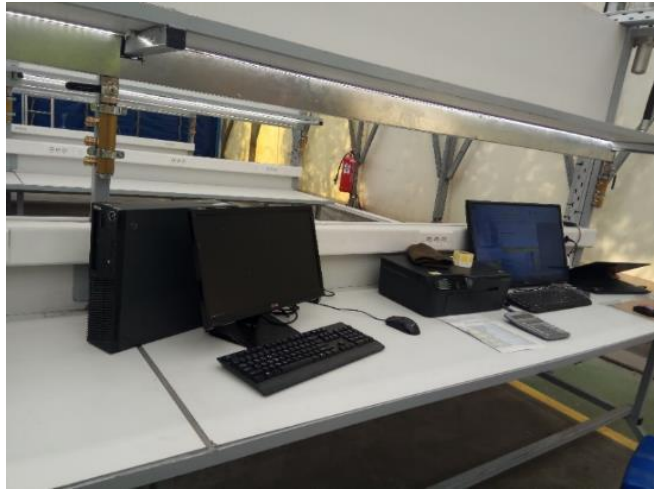


Initial inspection

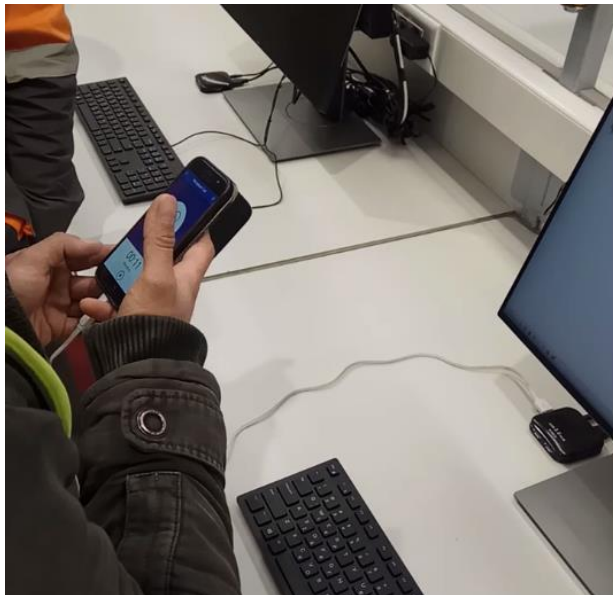


WEEE pending for further preparing for re-use activities

Activities:



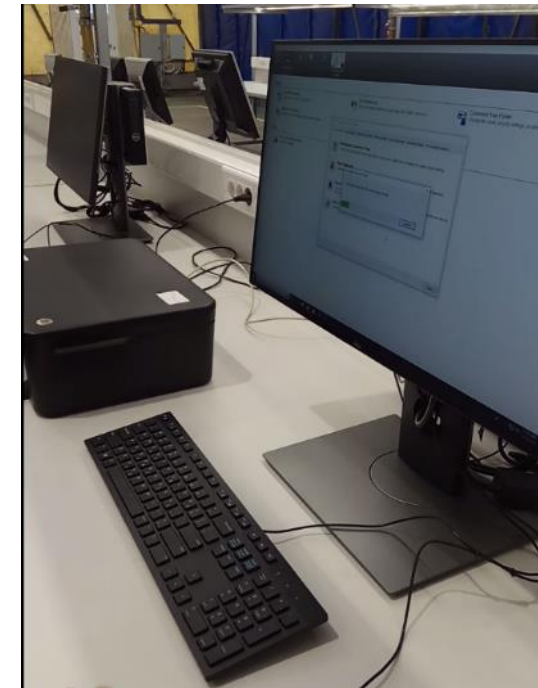
Screen check



Mobile check



Data eradication

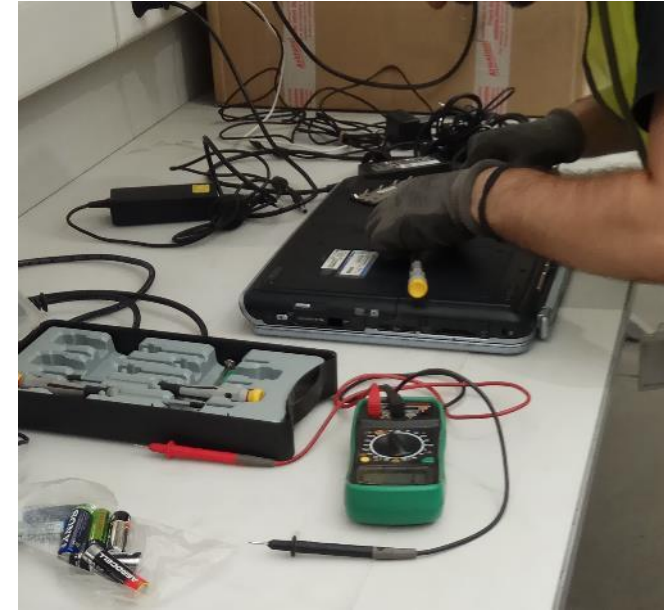


Printer check



Hardware check

Activities:



Functional tests /
Repair

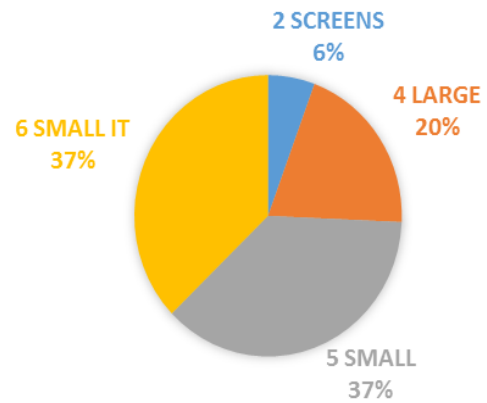


Project Team visit

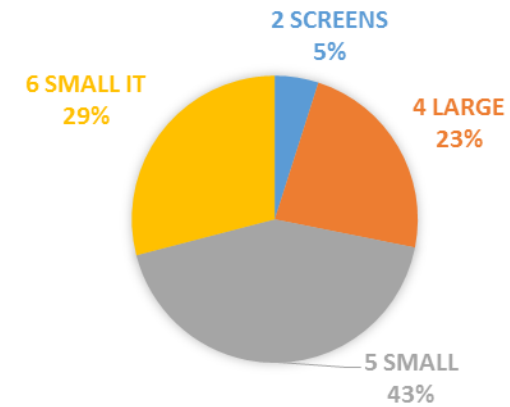


Feb – Sep 2019: Data analysis

Visual inspection (PASS)

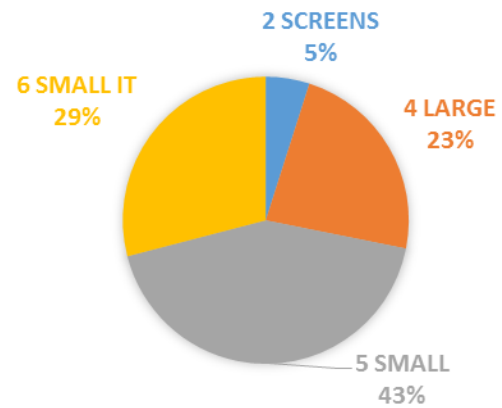


Further inspection (PASS)

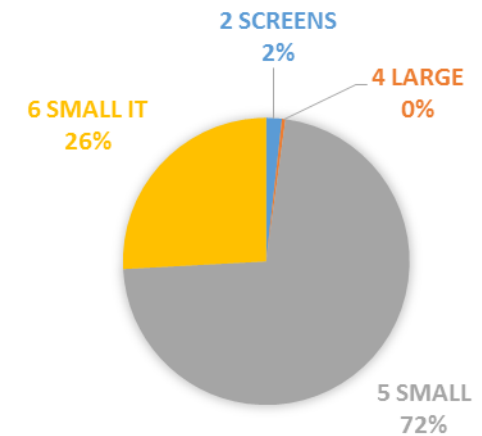


Feb – Sep 2019: Data analysis

Further inspection (PASS)



Further inspection (PASS) / Pieces



Operation from 15/7/2019

Equipment: Co-financed by the



Infrastructures:



Infrastructures:

Outdoor area



Weighting area



Storage area



Receiving / Sorting area



Infrastructures:

Load receiving



Sorted WEEE pending for further preparing for re-use activities



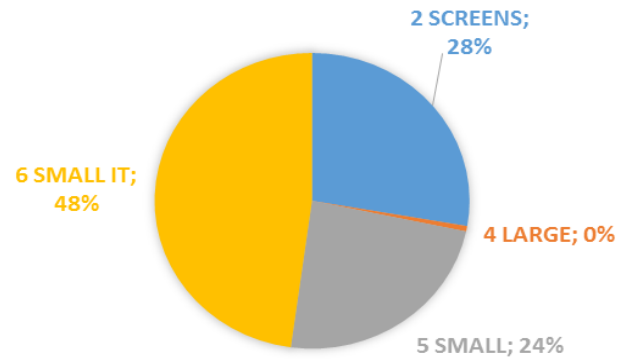
Infrastructures:

Further preparing for re-use activities (started on 1/10/2019)



Jul – Sep 2019: Data analysis

Visual inspection (PASS)



No data of further
inspection
activities till today

A method to assess the potential environmental impacts and resource consumption throughout a product's life cycle, i.e., from raw material extraction to waste management, including the production (processing, manufacture, distribution), use, maintenance and repair stages.

The goal:

- *Comparison of energy and raw materials savings between the preparing for reuse process and the treatment/recycling process of WEEE*
- *A gate-to-gate analysis*

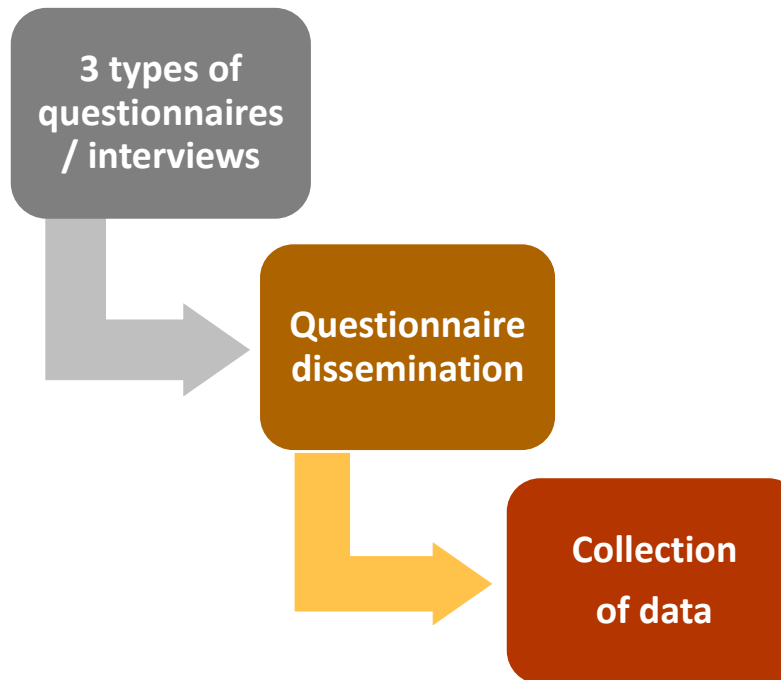
Parameters:



Preparing for re-use activities

Measurement of
preparing for re-use
Domestic/European
level

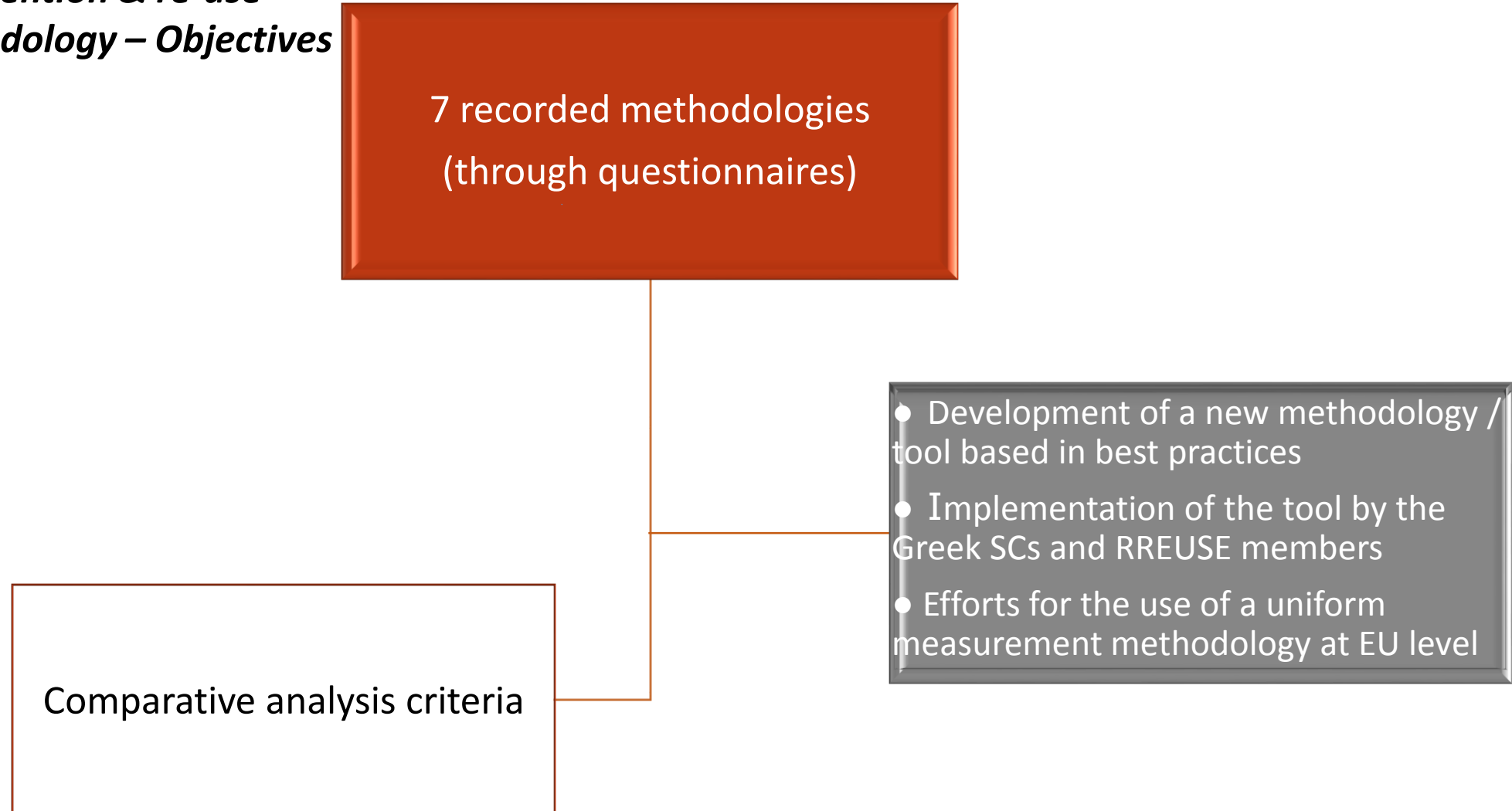
Development of prevention & re-use measurement methodology



Development of prevention & re-use measurement methodology

Stakeholders	Responses	Countries	Collection data
Producer Responsibility Organizations (PROs)	8	8 Countries	30 answers collected (representing 354 structures)
Re-use centers	19 (networks members)	10 Countries	
Waste management organizations - Local Authorities – Ministry of Environment	4	3 Countries	

***Development of prevention & re-use
measurement methodology – Objectives***



Thanks for your attention!

Website: www.reweee.gr/el

Facebook: [reweeeGR](https://www.facebook.com/reweeeGR)

Twitter: [@LRewe](https://twitter.com/LReweee)

Platform Re(W)eee: reweee.hua.gr/el/



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Hellenic Recycling Agency (H.R.A.)



Ecological Recycling Society



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