



LIFE Project Number
LIFE14/ENV/GR/000858

Progress Report
Covering the project activities from 01/10/2017 to 30/11/2018

Reporting Date
11/01/2019

LIFE PROJECT NAME or Acronym
LIFE RE-WEEE

Data Project

Project location:	Greece
Project start date:	01/01/2016
Project end date:	30/06/2019
Total budget:	2.161.405 €
EU contribution:	1.247.300 €
(%) of eligible costs:	60%

Data Beneficiary

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2. List of key-words and abbreviations

ACP	Administrative Council of the Project
ASC	Advisory Scientific Committee
BAT	Best Available Techniques
BoD	Board of Directors
CC	City Council
CFG	Carbon Footprint Group
EAP	Environment Action Programme
EC	European Commission
ECOREC	Ecological Recycling Society
ECYCLE	Appliances Recycling S.A.
EEE	Electrical and Electronic Equipment
EPR	Extended Producer Responsibility
GA	Grant Agreement
GF	Green Fund
HRA	Hellenic Recycling Agency
HUA	Harokopio University of Athens
MTR	Mid-term Report
OCF	Open Consultation Fora
PMG	Project Management Group
PR	Project Report
QA/QC	Quality Assurance and Quality Control
RREUSE	Reuse and Recycling European Union Social Enterprises
SC	Sorting Center
TCF	Thematic Consultation Fora
YPEN	Ministry of Environment and Energy (Υπουργείο Περιβάλλοντος και Ενέργειας [ΥΠΠΕΝ])
WEEE	Waste Electrical and Electronic Equipment

3. Executive summary

3.1. General progress

The inception of Project LIFE RE-WEEE - LIFE14 ENV/GR/000858 “Development and demonstration of Waste Electrical and Electronic Equipment (WEEE) prevention and reuse paradigms” was set on 1/1/2016, after the approval of the proposal by EC. Till now, a Progress Report (PR) and a Mid-term Report (MTR) have been submitted for the description of the progress implementation of the project. The present Progress Report constitutes the complete recording of the project implementation for the period time from October 2017 to November 2018, including the deliverables and the activities that took place within this period.

The Administrative Council of the Project (ACP) and the three (3) supporting groups (PMG, QA/QC and CFG) are responsible for monitoring and managing the Project implementation. The contribution of the management groups was crucial, in order to tackle barriers that the Project group faced.

During the reporting period, the project is in full swing. The “Implementation Actions” (Actions B) are in progress or completed. The main activities that were foreseen to be implemented are the development of the comparative analysis report of existing calculation methods of reuse and preparing for re-use of WEEE, the operation and dissemination of the donation/exchange platform Re(W)eee, the organization of Consultation Fora with the participation of the Project stakeholders, the development of a Guide describing prevention and management practices of WEEE for citizens and a brief guide for repairing electronic equipment, the mapping of WEEE reuse and preparing for reuse practices and initiatives, the conduction of an investigation of the impact of the deep economic crisis in Greece on the WEEE generation, the development of the issues of specifications and technical requirements for preparing for reuse activities for each WEEE category, the conduction of the call of interest for the contractors’ election for the two (2) SCs operation and finally the organization of the repair events addressed to the public.

More specifically, concerning the development of the comparative analysis, even if it is not in final format version, the conclusions that had been finalized earlier this year have been already used to feed the work of the European Commission, via the Öko-Institute, to assess the feasibility to set up re-use targets for products at the EU level.

Moreover, the donation/exchange platform Re(W)eee is in full operation, firstly in limited public (students of HUA) and then to the wider public. Informative events for the Re(W)eee platform operation took place within the reporting period, and also during a Repair Café. Up to November 2018, 60 individuals and 3 NGOs have been registered in the platform, while 43 transactions (exchanges/donations) have been recorded.

In addition, two (2) Foras were organized within the reporting period. The 2nd TCF was launched on 14/07/2017 at HUA facilities, concerning the presentation of the WEEE exchange platform functions and capabilities to the social enterprises involved. The 4th OCF was held at the GF facilities on 20/11/2017, in the framework of the “European Week for Waste Reduction”, where a 2-days festival organized by HRA and GF, with the contribution of all partners.

In addition, a Guide describing prevention and management practices of WEEE for citizens was delivered. The Guide provides detailed information to the citizens concerning ways of extending the life of their appliances, ways of the appropriate treatment of WEEE (e.g. green points, shorting centers, recycling points) as well as hazards of the improper disposal and treatment of WEEE and benefits of the minimization of WEEE production. Furthermore, a brief guide addressed to the public in order to recognize and possibly repair their electronic equipment was delivered. These guides are available to the public through the LIFE RE-WEEE website.

Furthermore, the mapping of WEEE reuse and preparing for reuse practices and initiatives, was conducted for first time in Greece, using the methodology that developed in the context of Action B.1, aiming at the development of a reliable basis for the assessment of the measurements, which are/will be implemented throughout the LIFE RE-WEEE project, and the design of WEEE reuse

initiatives after the LIFE RE-WEEE implementation. Moreover, a desk-study for the data sources analysis of data relevant to the WEEE amounts in relation to the economic crisis in Greece also conducted.

Concerning the development of the technical specifications for the preparing for reuse activities for each WEEE category, 5 technical issues were delivered, taking into account existing standards and specifications (e.g. CENELEC, WEEE Labex, PAS etc.). A problem addressed, during the preparation of these 5 Specific Issues, was the lack of data for the preparing for reuse process for each of the WEEE categories separately. To overcome this problem, a desktop research was made and guides for reuse process of specific products available on line, as well as recent research results that are published regarding reuse process of specific WEEE categories were collected and were taken into consideration for developing the technical requirements.

Finally, regarding the SCs operation, “Appliances Recycling S.A.” conducted the 1st tender for the contractor’s election for the Attica SC on 14/02/2018. After the approval by the EASME Project Adviser, Mrs. Asik, the tender referred to the selection of a contractor and the proper facilities for the case of the Attica SC. Two (2) candidate contractors submitted their proposals upon the tender deadline. The tender ended with no results, since no advantageous financial offer for the “Appliances Recycling S.A.” and the project implementation was submitted. The project team redefined the tender requirements and a 2nd call was announced on 11/07/2018. Three (3) candidate contractors submitted their proposals upon the tender deadline. The Evaluation Committee of the tender procedure, announced the results of the tender, after the approval by the BoD of “Appliances Recycling S.A.”. The contractor for the Attica SCs operation is the company “BIANATT” with great experience in the field of WEEE management and the facilities are settled in Aspropyrgos - Attica. In parallel, the tender for the contractor’s election for the Oraiokastro SC was announced on 08/08/2018. One (1) candidate submitted a proposal, and the Evaluation Committee of the tender procedure announced the results of the tender, after the approval by the BoD of “Appliances Recycling S.A.”. The contractor for the Oraiokastro SC is the Consortium “HERMES.P.C.” and “TELLI ENTERPRISES Ltd”, with great experience in the field of WEEE preparing for reuse activities.

All the Implementation Actions B are supported by the Dissemination Actions D, by participating or organizing events to disseminate the Actions’ progress and current results, participating in conferences and workshops and exchanging information with other relevant projects and stakeholders.

The Project progress is monitored and managed within Actions E (“Management and monitoring of project implementation progress”), concerning the project progress and the environmental impact, by calculation of CO₂ emissions, as prescribed in the approved Grant Agreement (GA). Project implementation is progressing smoothly, as it is recorded to the monthly reports that are submitted to the Monitoring Team Auditor.

3.2. Assessment as to whether the project objectives and work plan are still viable

The objectives of the project promote EEE re-use and WEEE preparing for re-use. This clearly falls under the existing EU targets and priorities, concerning reduction of wastes and maximization of re-use, as prescribed in the current EU legislation and the [7th Environment Action Programme \(EAP\) to 2020](#). The objectives of the project fall also under the new [EU Action Plan for the Circular Economy](#) and its basic principles.

Although the project faced many difficulties and obstacles, the project viability is ensured through the continuous optimization of the project work plan by the Project Committees. Deviations in the foreseen timetable raised due to the barriers that the project faced and are described analytically in the corresponding chapters in the present report. For this reason, the Project Team decided unanimously to submit a prolongation request in order to collect the necessary data for the

assessment of the project results after the SCs operation (more details in Action B.5). The barriers and the corrective actions by the Project Committees were recorded and analysed. In this context, a base for the dissemination and implementation of the project results that will arise has been developed.

Finally, the management of project resources is smooth, with only minor changes among the approved amounts per action in the same budget line, but without affecting the overall consumption of the instalment payment.

3.3. Identified deviations, problems and corrective actions taken in the period

Within this reporting period, significant obstacles were face resulting in delays to the progress of Implementation Actions (Action B). The Project Committees proceeded in corrective actions with the guidance of Monitoring Team Auditor, to overcome these difficulties.

The problems that the Project Team faced concern especially technical issues and are described in detail at the relative chapters.

A brief description of most remarkable problems are referred below:

Technical issues:

- After the approval of the letter on 25/7/2017 with Protocol No 11494 sent by the ACG to EASME proposing an alternative scenario for the SC operation in Attica, “Appliances Recycling S.A.” conducted an integrated tender procedure for the operation of the SC in the Attica region through the selection of a combined contractor – infrastructure scheme on 14/2/2018. Two candidate contractors submitted their proposals upon the tender deadline. No advantageous financial offer for ECYCLE and the project implementation was submitted. During the objection period, no objection by the candidates was submitted. The ACG discussed to redefine the technical and financial requirements of the tender and the call of interest to be announced again on June 2018 by “Appliances Recycling S.A.”. The new tender was announced on 11/7/2018 resulting in the selection of a contractor and infrastructures. The operation of the SC in Attica is estimated to initiate in the early 2019, one year after the foreseen timetable.
- Due to the fact that no advantageous financial offer for ECYCLE and the project implementation was submitted on the 1st tender procedure, the ACG decided the following actions regarding the tender procedure for the SC operation of Central Macedonia, in order to minimize the risk for the budget consumption of the Municipality of Oraioikastro and to ensure the operation of the SC:
 - Implementation of the redefined technical requirements and financial terms (maximum offering price) to the tender procedure for the contractors’ election for the SC operation of Central Macedonia.
 - Conduction of building repair activities after the announcement of the contractor
 - Procurement of the equipment and the consumables for the SC operation after the announcement of the contractor, in order for the contractor to fully define the equipment and the consumables requirements according to the needs for the SC operation.

The tender was announced after the 2nd tender procedure for the SC of Attica on 8/8/2018. One candidate contractor submitted a proposal and fulfilled the criteria of the tender. According to the GA, the equipment and the consumables for the SC operation will be provided by the GF to the Municipality of Oraioikastro and thereafter to the contractor by the Municipality of Oraioikastro. According to the GF internal procedures, an estimation of 4 months are needed for the completion of the equipment and the consumables tender procedures after the formal submission of the concrete technical requirements to the GF. According to the submitted proposal of the contractor

within the tender procedure, the contractor's offer for the procurement of the consumables for the first period time has been evaluated as sufficient by the Evaluation Committee of "Appliances Recycling S.A.". Therefore, the contractor could initiate the SC operation after the procurement and the installation of the equipment (estimated on April 2019), even if the GF tender procedure for the consumables has not completed yet.

Following the above corrective actions, the SC operation of Central Macedonia is estimated to initiate on April 2018, 1 year and 4 months after the foreseen timetable.

Therefore, the Project Team is intended to apply for 12 months prolongation of the project duration, In order to collect data and assess the sustainability of SCs operation.

4. Administrative part

The Administrative Council of the Project (ACP) is the official decision-making body of LIFE RE-WEEE Project and consists of one representative of each beneficiary. The ACP is supported by the Project Management Group, the Quality Assurance and Quality Control Group and Carbon Footprint Group. The role of the ACP and the supporting groups was described in the chapter "5. Administrative part" of the **MTR**. The meetings of the 3 supporting groups and ACP as well are not regular, but are convened when necessary for the smooth progress of the project, while individual meetings of the involved beneficiaries take place to facilitate the implementation of the individual actions. The updated organization chart and the representatives that compose each individual group of the project are referred in the Annex 7.1.7 Project Organization Chart. The changes in chart are referred to HRA representatives in the groups, due to employee leaving.

Three (3) Monitoring Team visits have already been held on 23/5/2016, 15/5/2017 and 3/5/2018 respectively at the "Appliances Recycling S.A." offices. Representatives of all beneficiaries participated in the meetings (Annex 10.2.120 E.1 Participant list of 1st Monitoring Team Audit, Annex 10.2.122 E.1 Participant list of 2nd Monitoring Team Audit of **MTR** and Annex 7.1.3 E.1 Participant list of 3rd Monitoring Team Audit of the present report). The issues raised by the Monitoring Team visits were delivered to Coordinating beneficiary "Appliances Recycling S.A." as Annexes of the EASME letters by the date of 11/7/2016 (EASME B3 NA/fh D(2016) 3978871), 19/7/2017 (EASME B3/NA D(2017) 4154147) and 21/6/2018 (EASME B3/DM (2018) 3287997) respectively. Itemized responses to the EASME letter by 11/7/2016 were submitted at the **1st PR** of the project as Annex 7.1.1 and as Annex 10.1.1 of the **MTR**, whereas, the itemized responses to the EASME letter by 19/7/2017 were submitted with the MTR as Annex 10.1.2 Response to letter EASME B3/NA D(2017) 4154147. The itemized responses to the EASME letter by 21/6/2018 are submitted with the present report as Annex 7.1.2 Response to letter EASME B3-DM (2018) 3287997.

Moreover, the Monitoring Team Auditor (NEEMO) is informed frequently for the progress of the project by the Monthly progress report.

All the corresponding deliverables and supporting documents of the present report are submitted in electronic format, according to the letter by EASME on 6/12/2016 (EASME B3/AS ARES (2016) 7353988).

Additionally, all the issues raised after the 1st Progress Report and the Mid-term Report submission of the LIFE RE-WEEE project, were responded at the MTR as Annex 10.1.3 Response to letter EASME B3/NA D(2017) 2546267 and as Annex 7.1.1 Response to letter EASME B3-D(2017) 7014768 of the present report respectively.

Finally, as it is described analytically at the corresponding Action B.5, the project team and the Monitoring Team Auditor, Mrs. Papageorgiou, were met on 13/7/2017 at "Appliances Recycling S.A." offices, in order to face the emerged constraints, concerning the lack of proposals by Attica Municipalities for infrastructure provision for the SC operation. After Mrs. Papageorgiou guidance, the coordinating beneficiary sent a letter to the Project Adviser of EASME on 25/7/2017

(Annex 10.1.4 Letter to EASME_alternative senario_action B.5 implementation_Pr. No 11494/25-07-2017), following the unanimous decision of all associated beneficiaries, describing in detail the proposed alternative scenario (Action B.5). The implementation of the proposed scenario was successfully pre-approved by the EASME Project Adviser, Mrs. Anna Natasa Asik via a responding e-mail on 27/7/2017 (Annex 10.1.5 Approval by EASME of letter “Pr. No 11494/25-07-2017” email (MTR)). In this context, an Informative letter for the allocation of the “Equipment” budget line (Prot. No 12004 – 8/3/2018, Annex 7.1.4 Letter for Equipment budget allocation_LIFE RE-WEEE of the present report) was sent to the EASME Project Adviser, Mrs. Asik, in order for the whole of the budget line for the SC equipment procurement to be spend for the needs of the SC of the Municipality of Oraiokastro (see detailed description at the corresponding Action B.5). This proposal was pre-approved by the 9/3/2018 email from Mrs. Asik (Annex 7.1.5 Pre-approval of equipment budget allocation proposal).

Finally, after the 3rd Monitoring Team Auditor visit on 3/5/2018 and the request of the project team for the postponement of the 2nd Progress report of the project, the EASME Project Adviser Mr. Messina accepted through the EASME letter EASME B3/DM (2018) 3287997 the submission of the 2nd Progress Report of the project till 15/12/2018. Another extension granted by the new Project Adviser, Mr. Seoanez, on 6/12/2018 via e-mail (Ares(2018)6261579) for the submission of the 2nd PR to EASME on 11/1/2019 (Annex 7.1.6 Acceptance extension deadline 2nd PR until 11/01/2019).

5. Technical part

5.1. Progress per action

A. Preparatory actions

Action A.1: State-of-the-art review

Foreseen start date: January 2016
Foreseen end date: June 2016
Status: Completed

Actual start date: January 2016
Actual (or anticipated) end date: August 2016

Project actions		2016	2017	2018	2019
A1	Foreseen				
	Actual				

Progress

Action A.1 had a preparatory, yet basic function in the implementation of the LIFE RE-WEEE project, as it resulted in the production of a “State-of-the-Art Report” on the WEEE re-use or preparing for re-use. This Report formed and still forms an information tank for the implementation of the B and D groups of Actions. Up to date (November 2018), the conclusions of the Report have been used for the identification of the WEEE categories for the WEEE Sorting Centres (Action B.5, sub-action B.5.1), while their oral presentation in two International Conferences has facilitated the dissemination of the project to academics and waste management stakeholders (Action D.7).

The draft “State-of-the-Art report” was delivered in June 2016, and finalised 1.5 month later than the foreseen time-plan (August 2016), but this did not introduce any further delay to the subsequent Actions of the Project, neither did it affect its smooth implementation. The final version of the report was submitted to the EC with the 1st Progress Report. However, the Report was revised twice in line with:

1. The decision of the project consortium to include updated data of initiatives, and analysis of interviews (November 2017) in the report, and

2. The remarks of EC (September 2017). These additions did not introduce any delay to the subsequent Actions of the project. The revised Report was submitted to the EC with the Mid-Term Report.

HUA was responsible for the overall implementation of Action A.1, while ECYCLE, RREUSE, ECOREC, and GF had a crucial role collection/review of the required data, taking interviews and editing of the reports.

Delays

The Action is completed.

Comparison with established targets

Indicators of Progress	Target	Achievement	Comments
State-of-the-Art report	June 2016	<ul style="list-style-type: none"> August 2016 September 2017 revised upon EC request 	The Report was revised twice: 1. In November 2016, as decided by the project consortium, in order to include updated data of initiatives, and analysis of interviews, and 2. In September 2017 upon EC remarks
Reporting of good practices	20	21	
Legislative facilitations and barriers	50 interviews/questionnaires	60 questionnaires were distributed. 48 Responses: <ul style="list-style-type: none"> A.1 questionnaires/interviews: 30 A.1&B.1 integrated: 18 	60 are the questionnaires directly distributed. Many recipients are network-members and the questionnaires were forwarded to other members, with no calculable estimation of the exact distributed questionnaires.

Table 1 Achievements of Action A.1 within the reporting period.

Deliverables within reporting period

No deliverables within the reporting period.

B. Implementation actions

Action B.1: Design and develop assessment tools and methodologies

Foreseen start date: April 2016

Actual start date: February 2016

Foreseen end date: March 2019

Actual (or anticipated) end date: March 2019

Status: In progress

Project actions		2016	2017	2018	2019
B1	Foreseen	[Timeline bar from April 2016 to March 2019]			
	Actual	[Timeline bar with green dots from April 2016 to March 2019]			

Progress

The Action is in progress. RREUSE is the partner leading this action and collaborated with ECOREC, ECYCLE, HUA and HRA during the initial time period.

The aim of this action is to develop a comprehensive methodology and a corresponding tool for reliable and comparable monitoring of the prevention (re-use) and preparing for re-use of (W)EEE in the European Union. This methodology will not only be the one used in the two sorting centres set up in Attica and Central Macedonia, but also the one used by at least 10% of the RREUSE membership.

B.1.1 Inventory of existing calculation methods of reuse and preparation for re-use of WEEE:

For the purpose of this deliverable, a questionnaire was drafted by RREUSE and then improved and approved by ECYCLE, ECOREC and HUA (published in the deliverables section of the LIFE RE-WEEE website). The questionnaire contained questions related to the amount of WEEE collected and re-used/prepared for re-use and the way it was calculated. The questionnaire was sent to different stakeholders working on re-use/preparing for re-use activities, including members from RREUSE, WEEE-Forum, ACR+, Municipal Waste Europe and The World Directory of Technology resellers & Service Providers. RREUSE also went on site visits to get some more data.

The collection of 31 questionnaires resulted in the creation of three Excel Spreadsheets which can be considered as the deliverable:

- B.1.1_Answers received: In this spreadsheet are collected all the answers received, sorted by alphabetic order. 31 answers (19 re-use/preparing for re-use centres or networks representing at least 339 re-use/preparing for re-use centres, 9 producer responsibility organizations and 3 local authorities or waste agencies) from 13 different countries were collected.
- B.1.1_Comparison study: In this spreadsheet, all the calculation methods are analysed to see the similarities and the differences: 27 different calculation methods.
- B.1.1_Results of the answers: Gives what the results would look like if the same data collection method as Komosie was used.

To summarize the results and make a readable version for the layman, RREUSE also prepared a condensed version of the results called “B.1_Results of the answers_For publication” which has been published in the deliverable section of the LIFE RE-WEEE website.

B.1.2 Development and implementation of a series of methodologies:

The content of Deliverable B.1.2 is based on data that was collected through the questionnaires collected in the framework of sub-action B.1.1. It has been processed in order to set the baseline for a ‘Comparative Analysis Report of EU Existing Measures’ and identify common procedures as well as differences. The results of the comparative analysis highlight the best available and applied techniques for practicing and monitoring the (preparing for) re-use of WEEE and, at a later phase, form the guidelines for developing an integrated methodology for WEEE re-use and preparation for re-use as part of the Deliverable B.1.3 ‘Integrated Methodology’.

Out of the 31 answers collected through the action B.1.1, 18 answers from 8 different countries have been studied in depth and 10 other answers were only partially studied because they did not contain data on re-used or prepared for re-use (W)EEE - they contained data on the collection phase only. 3 answers have been completely dropped out because they contained no relevant information.

Although the comparative analysis and its conclusions had been finalized earlier in 2018 and these have been already used to feed the work of the European Commission, via the Öko-Institute, to assess the feasibility to set up re-use targets for products at the EU level, the final format version was delivered in December 2018 after 30/11/2018 due to editorial, graphic and format changes deemed necessary for it to be more reader friendly. This delay did not affect work related to reporting its conclusions to the OKO-institut or the Commission.

B.1.3 Electronic toolkit formation for the methodology application in a user-friendly format:

An Excel file based on the experience gathered during the achievement of the actions B.1.1 and B.1.2 has been developed as a starting point for the development of the electronic toolkit. This will be used by the preparing for re-use operators partnering with the Athens and Thessaloniki sorting centers. HUA will prepare the final toolkit. RREUSE will convince 10% of its members to use it when ready.

Delays

There was a delay on the delivery of the Comparative Analysis Report of EU Existing Measures without affecting the project implementation. Moreover, even in draft version, the comparative analysis has already used to feed the work of the European Commission, via the Öko-Institute, to assess the feasibility to set up re-use targets for products at the EU level, as described above.

Comparison with established targets

Indicators of Progress	Target	Achievement	Comments
Recording of current re-use measurement methodologies through questionnaires and interviews	Questionnaires and interviews representing 200 reuse stakeholders	31 answers: <ul style="list-style-type: none"> 19 re-use/preparing for re-use centres or networks representing at least 339 re-use/preparing for re-use centres, 9 producer responsibility organisations and 3 local authorities or waste agencies from 13 different countries 	The action is completed Data was collected till 09/2017. It represents data compiled for over 351 reuse stakeholders
Determination of an ideal measurement methodology	6 methodologies will be investigated	27 different calculation have been investigated	The measurement methodology is being used in the development of the tool
Implementation of methodology	1 tool development	The tool still needs to be developed	The achievement of this action will be delayed by 3 months (31/06/2019)

Table 2 Achievements of Action B.1 within the reporting period.

Deliverables within reporting period	FORESEEN	ACTUAL
Comparative analysis report of existing calculation methods of reuse and preparation for re-use of WEEE	9/2017	6/12/2018

Supporting document within the reporting period is Annexed as 7.2.1.

Action B.2: Consultation Fora development

Foreseen start date: January 2016
Foreseen end date: June 2019
Status: In progress

Actual start date: January 2016
Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019
B2	Foreseen	[Timeline bar from 2016 to 2019]			
	Actual	[Timeline bar with green dots from 2016 to 2018]	[Timeline bar with green dots from 2017 to 2018]	[Timeline bar with green dots from 2018 to 2019]	[Timeline bar with green dots from 2019 to 2019]

Progress

This Action is ongoing and progresses according to the foreseen timetable. GF is responsible for the overall coordination and implementation of this action. Six (6) Consultation Fora (2 Thematic Consultation Fora (TCF) and 4 Open Consultation Fora (OCF)) have been implemented up until the submission of the 2nd PR.

More specifically and briefly recorded:

The 1st TCF was launched on June 2016 (14/06/2016) at Harokopio University facilities. The main theme of this Fora was to discuss technical issues on the development of the Re(W)eee platform for exchange/donation of electrical and electronic equipment (EEE) (**Sub-action B6.1**). The relevant minutes were submitted as *Annex 10.2.9 B.2 Minutes of 1st Thematic Consultation Fora* of the **MTR**. The progress indicators regarding the implementation of the 1st TCF are included in the Table 3 Achievements of Action B.2 of the 2nd PR.

The 1st OCF was launched on July 2016 (20/07/2016) at the GF facilities. The Fora topics covered general information on the LIFE RE-WEEE project and information regarding the future launch of the call of interest for the selection of the Municipalities where the two (2) WEEE SCs will operate. The relevant minutes were submitted as *Annex 10.2.11 B.2 Del_1st Consultation Fora minutes* of the **MTR**. The progress indicators regarding the implementation of the 1st OCF are included in the Table 3 Achievements of Action B.2 of the 2nd PR.

The 2nd OCF was launched on September 2016 (22/09/2016) in Nea Triglia Halkidiki. During this Fora, information regarding the future launch of the call of interest for the selection of the Municipalities where the two (2) WEEE SCs will operate, were presented to the Municipalities of Central Macedonia region. The relevant minutes regarding this Fora were submitted as *Annex 10.2.12 B.2 Minutes of 2nd Consultation Fora* of the **MTR**. The progress indicators regarding the implementation of the 2nd OCF are included in the Table 3 Achievements of Action B.2 of the **2nd PR**.

The 3rd OCF was launched on March 2017 (10/03/2017) at the GF facilities. The Fora main target was to inform the Municipalities on the technical specifications included in the call of interest regarding the selection of the Municipalities where the two (2) WEEE SCs will operate. The relevant minutes regarding this Fora were submitted as *Annex 10.2.13 B.2 Minutes of 3rd Open Consultation Fora* of the **MTR**. The progress indicators regarding the implementation of the 3rd OCF are included in the *Table 3* of the **2nd PR**.

The 2nd TCF was launched on July 2017 (14/07/2017) at Harokopio University facilities. The main theme of this Fora was the presentation of the Re(W)ee platform for exchange/donation of EEE functions and capabilities to the social enterprises involved (**Sub-action B6.1**). The relevant minutes were submitted as *Annex 10.2.14 B.2 Minutes of 2nd Thematic Consultation Fora* of the **MTR**. The progress indicators regarding the implementation of the 2nd TCF are included in the Table 3 of the **2nd PR**.

The 4th OCF was held at the Green Fund's facilities on 20/11/2017. The Consultation Fora, was launched in the framework of the "European Week for Waste Reduction" and was co-organised by HRA and the Green Fund with the collaboration of all the LIFE RE-WEEE Project partners. The Fora was held during the second day of the 2-day events that took place in Villa Kazouli. In total 83 participants from 51 different organizations attended the Fora. In the framework of the 4th Consultation Fora, an official invitation was sent to the relevant stakeholders in electronic form. The invitation also contained a participation form "Google Form" in which the interested parties had to fill in their personal data in order to be able to participate the event. The relevant minutes regarding this Fora are submitted as Annex 7.2.2 B.2 2nd Annual Report on the Consultation Fora of the **2nd PR**. The progress indicators regarding the implementation of the 4th OCF are included in the Table 3 of the **2nd PR**.

Delays

No Fora were organized within 2018. The reason for this is that, since the Fora are directly related to the operation of the two (2) WEEE SCs, the fact that there was a significant delay to the operation of these centers, also delayed the implementation of the fora foreseen. After the SCs operation, it is also expected that the Consultation Fora will initiate once more.

Comparison with established targets

Indicators of progress (Open Consultation Fora)	Target	Achievement	Comments
Number of registrations received before each 'Open Consultation Fora'	30 registrations	1 st 'Open Consultation Fora' (121) 2 nd 'Open Consultation Fora' (58) 3 rd 'Open Consultation Fora' (93) 4 th 'Open Consultation Fora' (115)	The target to this indicator has been achieved to all 4 'Open Consultation For a' up until the date of this report
Number of participants in each 'Open Consultation Fora'	30 participants	1 st 'Open Consultation Fora' (90) 2 nd 'Open Consultation Fora' (113) 3 rd 'Open Consultation Fora' (87) 4 th 'Open Consultation Fora' (83)	The target to this indicator has been achieved to all 4 'Open Consultation For a' up until the date of this report
Number of different bodies participated in each 'Open Consultation Fora'	20 different bodies	1 st 'Open Consultation Fora' (48) 2 nd 'Open Consultation Fora' (58) 3 rd 'Open Consultation Fora' (44) 4 th 'Open Consultation Fora' (51)	The target to this indicator has been achieved to all 4 'Open Consultation For a' up until the date of this report

the targeted 100) had been collected, due to the participants' reluctance. However, a draft, but almost completed (over 90%) version of this report was delivered in April 2018, and presented in the 3rd Monitoring Visit (03/05/2018). In order to address the stakeholders' reluctance, HUA decided to make door-to-door contacts with service sector. As a result of these efforts, 105 filled-in questionnaires were collected and analysed. The results of this analysis were embodied in the report (Annex 7.2.3 B.3 Report on mapping of WEEE reuse and preparation for reuse practices and initiatives in Greece), which was delivered in its final version in November 2018. This delivery will have no impact on the project implementation.

Sub-action B3.2: Investigation of the impact of the deep economic crisis in Greece on the WEEE generation

A desk-study for the data sources analysis of data relevant to the WEEE amounts in relation to the economic crisis in Greece, was thoroughly conducted. The resulting report was delivered in November 2018 (instead of the anticipated June 2018). This short delay was attributed to the delay in the collection of questionnaires (please refer to B.3.1 for further details). This delivery will have no impact on the project implementation (Annex 7.2.4 B.3 Investigation of the impact of the deep economic crisis in Greece on the WEEE generation)

Delays

Although the two reports were delivered with a delay of a few months, their draft but almost finished versions, containing the core conclusions of the Action, were delivered on time. Therefore, the delays will have no impact on the project's implementation.

Comparison with established targets

Indicators of Progress	Target	Achievement
A report about WEEE reuse and preparation for reuse practices and initiatives in Greece	3/2018	11/2018
A report about the impact of the deep economic crisis in Greece on the WEEE generation	6/2018	11/2018

Table 3 Achievements of Action B.3 within the reporting period

Deliverables within reporting period

Deliverables within reporting period	FORESEEN	ACTUAL/ ANTICIPATED
7.2.3 B.3 Report on mapping of WEEE reuse and preparation for reuse practices and initiatives in Greece	06/2018	11/2018
7.2.4 B.3 Investigation of the impact of the deep economic crisis in Greece on the WEEE generation	03/2018	11/2018

Action B.4: Development of specifications and technical requirements for the entire “preparing for reuse” cycle

Foreseen start date: January 2016
Foreseen end date: December 2018
Status: In progress

Actual start date: January 2016
Actual (or anticipated) end date: December 2018

Project actions		2016	2017	2018	2019
B4	Foreseen	[Timeline bar from Jan 2016 to Dec 2018]			
	Actual	[Timeline bar with green dots from Jan 2016 to Dec 2018]			

Progress

Action B.4 is in progress within the foreseen timetable. HRA is responsible for this Action implementation, with the contribution of ECYCLE, RREUSE, ECOREC and HUA. Action B.4 is divided in three (3) sub-actions. More specifically sub-action B.4.1 “Development of specifications and technical requirements regarding the complete management steps of preparation

for re-use of WEEE” is fully completed within the reporting period. In addition, sub-action B.4.2 “Implementation of existing and developed specifications (by action B.4.1) at all treatment steps of Sorting Centers (SCs)” falls under the reporting period and is not completed.

Regarding **sub-action B.4.1** all deliverables foreseen were completed, only with a small delay, due to the replacement of an external assistant who was part of the project team and seriously involved in the preparation of these deliverables. The delay didn’t affect the proper implementation of the project and especially Action B.5, as the deliverables were available on time in order to be used in Action B.5. Deliverables of sub-action B.4.1, for the reporting period, included the technical specifications for the preparation for re-use stage of WEEE (Annex 10.2.17 **MTR**), as well as specifications of preparing for re-use stage for five (5) WEEE categories, a) display equipment (CRTs and FPD), b) small and large IT and telecommunication equipment, c) temperature exchange equipment, d) small appliances and e) large appliances (Annex 7.2.5 – 7.2.9). Moreover, a guide describing prevention and best management practices of WEEE for citizens (Annex 7.2.10 B.4 Guide describing prevention and best management practices of WEEE for citizens) was prepared during the reporting period.

The General Issue of specifications describes technical requirements for all stages of the preparing for reuse process and more specifically: i) the receiving of WEEE at the preparing for reuse facility, in order to sort and store them properly, ii) the initial inspection criteria for determining whether WEEE are suitable for the preparing for reuse process, iii) the minimum safety and functionality testing procedures, iv) repair procedures and v) the transfer and storage of WEEE and REEE.

Furthermore, in the Deliverable are described all necessary procedures and information required when a REEE has been prepared for re-use and more specifically: i) the user information that shall be provided with REEE or REEE component when sold or donated, ii) the labelling requirements, iii) the product warranty and iv) the export requirements if necessary.

Concerning the five (5) Specific Issues for the five WEEE categories, they focus on certain aspects of each WEEE category regarding the preparing for reuse process. Such aspects are: i) health and safety in the workplace because of dangerous substances included in WEEE, ii) special receiving and transport requirements if necessary (e.g. for display equipment and temperature exchange equipment), iii) inspection criteria for each category and iv) functionality testing procedures that apply to each of the five categories. For the specification drafting, project team took into consideration the standards PR EN 50625.01:2014, PR EN 50625-2-2:2015 from CENELEC, PAS 141:2011 as well as the standards from WEEE Labex V10.0 (2013) - Part II Specific requirements (FPD, CRTs). Furthermore, specific product guides such as “PAS 141 Guide for WEEE Treatment – Product protocol guides, Fit for reuse - A guide to the repair, refurbishment and re-use of domestic electrical appliances (FRN 2001)”, “Code of good practice for the re-use of (W)EEE (OVAM 2012)” and other bibliographic sources, such as “Potential Reuse of small household waste electrical and electronic equipment: Methodology and case study (Bovea, M.D., et al 2016)”, “Evaluating the sustainability potential of a white goods refurbishment program (M. W. O’Connell, C. Fitzpatrick & S. W. Hickey 2012)” were taken into account.

A problem addressed, during the preparation of the five (5) Specific Issues, was the lack of data for the preparing for reuse process for each of the WEEE categories separately. Currently, there are no technical specifications, in the form of a European standard or European Guideline for the preparing for reuse process for specific categories of WEEE. In order to overcome this problem a desktop research was made and guides for reuse process of specific products available online, as well as recent research results that are published regarding reuse process of specific WEEE categories were collected and were taken into consideration for developing the technical requirements.

In addition, a Guide describing prevention and management practices of WEEE for citizens was completed during the reporting period. The Guide describes briefly the current state of the WEEE collection, recovery targets and achievements in Greece and provides detailed information to the citizens concerning ways of extending the life span of their appliances, ways of the appropriate

treatment of WEEE (e.g. green points, shorting centers, recycling points), as well as hazards of the improper disposal and treatment of WEEE and benefits of the minimization of WEEE production. **Sub-action B.4.2** includes “Assessment of implemented specifications in the SCs” during their operation, which falls under the reporting period. The assessment reports were planned to be delivered on September 2018. However, deliverables are not completed, due to the delay in the development and operation of the SCs. The selection of the tenderers for the operation of the SCs was completed on October and November 2018 for the Region of Attica and Central Macedonia respectively (more details are provided in Action B5). Since the assessment of the implementation of the developed specifications is indissolubly connected with the integrated operation of the SCs, deliverables are expected to be completed after a reasonable period of operation of the SCs.

Delays

Delay is expected in the preparation of the assessment reports of implemented specifications in SCs due to the delay in the development and operation of the SCs (Action B.5). The timetable for the assessment of the implemented specifications in SCs will be redefined after the beginning of the operation of the SCs (Action B.5). The delay is going to affect also the third sub-action, B.4.3 “Completion of the legislative provisions”. The timetable of sub-action B.4.3 will be consistent with the planning of sub action B.4.2.

Comparison with established targets

Indicators of Progress	Target	Achievement
An issue of specifications and technical requirements for collection, transfer, sorting and storage of WEEE	9/ 2016	Delivered
A general issue of specifications of preparing for re-use stage of WEEE	6/ 2017	Delivered
5 specific issues of specifications of preparing for re-use stage for all WEEE categories (except lamps)	9/2017	Delivered
Assessment of implemented specifications in SCs	9/2018	Under review
Completion of legislative provisions	12/2018	-

Table 4 Achievements of Action B.4 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL/ ANTICIPATED
5 specific issues of specifications of preparing for re-use stage for all WEEE categories (except lamps) (Annex 7.2.5 – 7.2.9)	9/2017	2/2018
7.2.10 B.4 Guide describing prevention and best management practices of WEEE for citizens	12/2017	3/2018

Milestone within reporting period	FORESEEN	ACTUAL/ ANTICIPATED
Completion of assessment of implemented specifications to SCs operation	9/2018	Under review (expected 9 months after the initiation of SCs operation)

Action B.5: Design, development and operation of WEEE Sorting Centers

Foreseen start date: April 2016
Foreseen end date: June 2019
Status: In progress

Actual start date: March 2016
Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019
B5	Foreseen	●	●	●	●
	Actual	●	●	●	○

Progress

ECYCLE is responsible for this Action implementation and all partners contribute to the progress. Action B.5 is divided into 6 sub-actions:

Sub-action B.5.1 is referred to the development of the SCs Management Plan, started on March 2016 by collecting information firstly about authorization and spatial planning issues of facilities such as WEEE sorting center. This research also included the definition of the following topics, according to the approved proposal:

- SCs capacity
- Workplaces requirements
- WEEE categories that the SCs will manage
- Sources of incoming WEEE to the SCs
- Proper activities for the SCs operation
- Specifications of the WEEE collection bins (containers)

The SCs Management Plan will be updated within the duration of the Action B.5 implementation. The barriers faced regarding the authorization and spatial planning issues and how the project team overcome these, were described on the **MTR**. The Management Plan constituted the “Issue of infrastructure and operation technical requirements of SCs” (*Annex 10.2.24* of **MTR**) proposed by the Advisory Scientific Committee (ASC) of the project to GF for the conduction of the Call of interest for the selection of the SCs infrastructures on 11/03/2017. This issue included, except from the definition of authorization and spatial planning for the SCs, the definition of the facilities capacity related to the waste quantities that the two (2) SCs will manage, the resources of income WEEE, the WEEE categories for preparing for reuse, the overall activities that will take place in the SCs.

The updated Management Plan constituted the corresponding technical issue for the 1st tender conducted by ECYCLE for the selection of contractor for the Attica SC operation (see sub-action B.5.2).

The definition of the workplace requirements and the number of employees raised after the selection of the contractors for the two (2) SCs operation (see sub-action B.5.2) according to the proposals and the financial analysis that the candidates submitted at the tender procedure conducted by ECYCLE for the selection of contractors for the SCs operation. Moreover, the final definition of the number and specifications of the WEEE collection bins will arise after the SCs operation and in regards to the product mix of the income WEEE.

Since the procedure of the contractors’ selection has been completed, ECYCLE with the contribution of the partners is defining and developing the proper reporting documents for the SCs activities that will be part of the contract notice between ECYCLE and each contractor (see sub-action B.5.2).

Sub-action B.5.2 includes the conduction of the call of interest for the Municipalities selection that the two (2) SCs will operate and the tender procedure for the contractors’ selection that will manage and operate the two (2) SCs as well.

During the call of interest that the GF conducted on February 2017, the infrastructures where the Municipality of Oraioikastro proposed were selected for the operation of the SC of Central Macedonia, whereas the tender procedure ended with no result for the case of the Attica region. The alternative scenario proposed by the project team to the Project Adviser of EASME, Mrs. Asik, for the conduction of an integrated tender procedure for the operation of the SC in the Attica region through the selection of a combined contractor – infrastructure scheme was successfully pre-approved (*Annex 10.1.5* of **MTR**). The project team started to work on the development of separate informative issues for the two tenders for contractors’ selection (one for each region of interest), in order to be conducted in parallel. The description and the analysis of tender procedure (Attica and Central Macedonia accordingly) are referred in the Annex 7.2.11 B.5 Tender Procedure Analysis.

The 1st tender procedure for the Attica SC ended with no results since no advantageous financial offer for “Appliances Recycling S.A.” and the project implementation was submitted. For this reason, the announcement of the tender procedure was repeated after redefinitions of the tender

parameters (please find details in Annex 7.2.11). The awarded contractor for the Attica SC operation, after the 2nd tender announcement, is the company “BIANATT”, an affiliated WEEE treatment facility of “Appliances Recycling S.A.” set in Aspropyrgos, with great experience in the field of WEEE management of all categories. According to the submitted timetable by “BIANATT” in the proposal, the company will be ready to operate on January 2019.

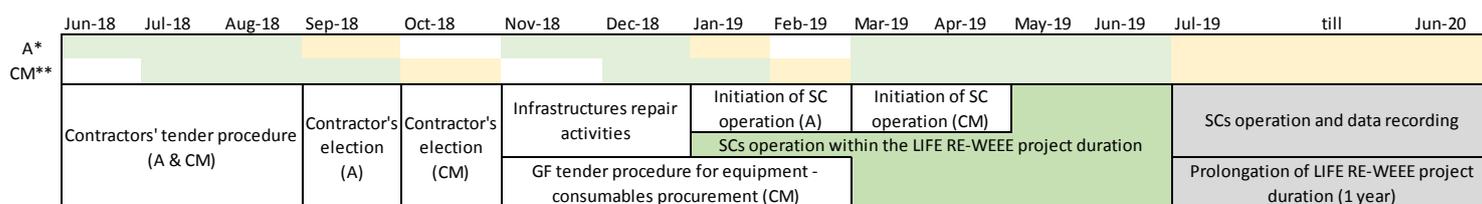
For the case of Oraiokastros SC, the awarded contractor is the Consortium of the companies “HERMES P.C. – TELLI ENTERPRISES Ltd”, with experience in the field of WEEE preparing for reuse activities. The Oraiokastros SC will be fully functional when the tender procedure of the equipment and consumables by the GF will be completed, i.e. estimation in April 2019. According to the submitted proposal of the contractor within the tender procedure, the contractor’s offer for the procurement of the consumables for the first period time has been evaluated as sufficient by the Evaluation Committee of “Appliances Recycling S.A.”. Therefore, the contractor could initiate the SC operation after the procurement and the installation of the equipment (estimated on April 2019), even if the GF tender procedure for the consumables has not completed yet.

Currently, “Appliances Recycling S.A.” prepares the contract agreements between the company and each contractor. The reporting documents, where the SCs data will be recorded, will be ensured through these contract agreements. “Appliances Recycling S.A.”, RREUSE and ECOREC discussed on the SCs reporting indicators, stemming from the work made on the Comparative Analysis Report of the Existing Methodologies, and according to the data that the preparing for re-use operators of RREUSE network report on their data. All partners contributed on the determination of the reported parameters by the SCs operation, in order to be proposed and finalized with the contribution of the contractors and according the contract agreement that will be signed.

To achieve the targets of the project, in order for the project needs to collect the data raised by the SCs operation, the Project Team proposes the following updated timetable, including the full operation of both SCs for at least 1 year. By this timetable, during the full operation of the SCs for 1 year, the recording data and the sustainability of sorting and preparing for reuse facilities in Greece will be assessed and evaluated.

PROPOSED TIMETABLE

Operation plan of SCs



*Attica
**Central Macedonia

Diagram 1 Proposed Timetable for the duration of each SC operation

According to the diagram above, the Project Team is intended to submit a prolongation request to EASME for 12 months (till June 2020).

“Appliances Recycling S.A.” pursued to ensure the sustainability of the SCs through the terms and the requirements as were set at the tenders technical issues for the selection of the SCs operators. Through the contract agreements between the company and the contractors, the operation of the SCs for 5 years is committed, among other terms. Moreover, the operation of the SCs is also foreseen in the “Appliances Recycling S.A.” business plan, according to the company’s obligations as described in the Chapter “5.3 Impact”, paragraph “Policy implications”.

Sub-action B.5.3 concerns the installation and operation of SCs according to the defined specification and requirements. Municipality of Oraiokastros has officially been informed by the GF for the election of the contractor for the SC operation on 16/11/2018 (Prot. No 5854), in order

the required repair activities of the infrastructures to initiate according to the city council on 27/2/2018 (CC Decision 49/2018) and the facility to be ready for the SC operation in early 2019. In case of Attica SC, according to the submitted timetable by the contractor for the repair activities of the facility, the infrastructures will be ready 4 weeks after the announcement of the awarded contractor for the SC operation. The repair activities have already initiated and the representatives of the tender Evaluation Committee will audit the facility on December 2018.

In the context of **sub-action B.5.4**, educational activities to SCs will take place for the proper management practices concerning WEEE preparing for re-use procedures. This sub-action includes the preparation of handbooks for good practices of WEEE management. These handbooks were foreseen to be elaborated on 9/2017. However, the development of the handbooks has been postponed till the inception of the SCs operation.

Finally, **Sub-actions B.5.5 and B.5.6** that will be implemented after the SCs operation, concern public and stakeholder information regarding the operation of the SCs and relative issues to WEEE prevention and proper WEEE management procedures.

Delays

Due to the difficulties faced in all stages of the SCs development, there is a delay of one (1) year in the SCs operation, since the Attica operation will initiate on January 2019 and a 4 months additional delay for the Oraiokastros SC. The Project Team was in contact with the Monitoring Team and the Project Adviser during this time, in order to overcome the faced barriers. For the project needs, and in order the data that will be raised by the operation of the SCs to be recorded and evaluated, the Project Team estimates that one (1) year of full operation of both SCs is necessary to collect all the necessary data, taking into account that the Oraiokastros SC operation is estimated to initiate on April 2019, after the procurement of the proper equipment and consumables by the GF, as described in the proposed timetable above.

Comparison with established targets

Indicators of Progress	Target	Achievement
Development and demonstrative operation of two SCs	Development and operation of 2 SCs till 1/2018	<ul style="list-style-type: none"> • Conduction of call of interest for Municipalities selection. • Results on Central Macedonia region for SC operation (Municipality of Oraiokastros) • Development of technical issues for the contractors' selection tender

Table 5 Achievements of Action B.5 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL/ ANTICIPATED
Handbooks for good practices of WEEE management	9/2017	4/2018

Milestones within reporting period	FORESEEN	ACTUAL/ ANTICIPATED
7.2.12 B.5 Call of 1 st tender announcement (Attica)	3/2017	14/2/2018
7.2.13 B.5 Technical issues for contractors' selection 1 st announcement (Attica)	3/2017	14/2/2018
7.2.14 B.5 Call of 2 nd tender announcement (Attica)	3/2017	3/2017
7.2.15 B.5 Technical issues for contractors' selection 2 nd announcement (Attica)	3/2017	11/7/2018
7.2.16 B.5 Call of tender announcement (Central Macedonia)	3/2017	8/8/2018
7.2.17 B.5 Technical issues for contractors' selection (Central Macedonia)	3/2017	8/8/2018
Permittance for SCs operation	6/2017	1/2019
Beginning of construction activities at the SCs infrastructures	8/2017	12/2018

Supporting document within the reporting period is Annexed as 7.2.11.

Action B.6: Promotion and support of the WEEE prevention culture in Greece

Foreseen start date: April 2016
 Foreseen end date: December 2018
 Status: In progress

Actual start date: March 2016
 Actual (or anticipated) end date: December 2018

Project actions		2016	2017	2018	2019
B6	Foreseen				
	Actual	●	●	●	●

Progress

Action B.6 is in progress as foreseen to the timetable. ECOREC is responsible for the overall Action implementation, with the contribution of all partners.

Sub-action B.6.1: design and development of a collaborative web-based platform for EEE donation and exchange

This Sub-action was advanced by HUA in two stages, corresponding respectively to Actions B.6.1.1 and B.6.1.2.

The first step for the implementation of B.6.1.1 concerned the requirements and design analysis of the collaborative web-based platform, which consisted a milestone of the project. The milestone was achieved on 6/2016, as anticipated, and reported in both the **1st PR** and the **MTR**. The pilot collaborative platform “RE(W)EEE” was delivered on 4/2017, which was a month later than anticipated. This short delay did not have a negative impact on the LIFE RE-WEEE project implementation.

Action B.6.1.2 started on 4/2017, following the development of the platform, and it is in progress. It concerns the pilot implementation, testing and improvement of the platform. Within the framework of this activity, the platform was promoted to the partners and the stakeholders of the project, NGOs, experts in waste management, and the academic community of HUA, in order to be implemented and tested. On 15/12/2017, 2.5 months later than anticipated, the final platform opened to the public. As described in details in the **MTR**, this delay was required in order to “embody” the feedback of non-profit organizations and/or organizations with active role in social economy to the platform, and had no impact on the project implementation.

Based on the feedback of the implementation and testing, the platform was improved on 7/2017, 10/2017, 1/2018, as anticipated (Indicators of progress: 3, 6 and 9 months after the deliverance of the platform). Moreover, the platform was improved, in accordance to the comments of EASME letter (Ref. Ares(2018)3287997-21/06/2018), with the aim to increase the participation and engagement of the public. On that ground:

- The homepage was improved.
- A visible link to the platform was added to the website of the project.
- A workshop for the promotion of the platform to wider audience, was organized in Sivitanideios Technical School on 31/10/2018. The workshop contained a presentation and a seminar on the use of RE(W)EEE platform. The workshop was organized by Harokopio University with the contribution of Appliances Recycling SA, Ecological Recycling Society, and the Secondary Education of the 4th Administrative Division of Athens (please refer to Action D.7, for supporting documents).
- The use of the platform was demonstrated by the IT team of HUA, within the Workshop “Actions for Waste Reduction”, which was organized in Harokopio University on 29/11/2018 (please refer to Action D.7, for supporting documents).
- A poster (in Greek) for the promotion of the platform was produced. The poster “accompanies” all dissemination events (Annex 7.2.20 B.6 Platform poster).
- The production of a video (in the framework of Action D.6), promoting the platform is being discussed.

Up to November 2018, sixty (60) individuals, and three (3) NGOs have been registered in the platform. Forty-three (43) transactions (exchanges/donations) have been recorded, which is behind the final target of 1,000 item transactions (set in the proposal, as expected quantified results). It is estimated that the operation of the SC will facilitate the dissemination of the platform to a wider audience, and address the reluctance of the public to register and use the platform. In addition, the promotion of the platform in the forthcoming dissemination events, and Repair Cafe is planned, as anticipated.

Sub-action B.6.2: Implementation of six “Learn to Repair Events”

To date four (4) Learn to Repair events («Μαθαίνω να επισκευάζω») have been realized. Below you will find a table with relevant information pertaining to each Learn to Repair event which are being realized with the Repair Café International guidelines.

Repair Café	DATE	LOCATION/EVENT	Visitors to repair café*	Total appliances brought in	Appliances repaired	Appliances repairable but needing a specialized spare part	Appliances recycled
1 st	19/11/2017	Green Fund EWWR Event	180	43	22	13	8
2 nd	5-6/5/2018	4th Recycling Festival Thessaloniki	240	73	32	18	23
3 rd	12-13/5/2018	Flower exhibit Kifissia	300	41	13	15	13
4 th	13/10/18	Athens Against Climate Change	100	43	21	7	15

* Estimates are based on number of dissemination materials distributed at events

Delays

As reported in the **MTR**, the quick repair guide was delayed due to reluctance of repairmen to provide information either for fear of losing potential clientele or of being in breach of service contract with large manufacturers. This caused a delay but the deliverable was delivered. This delay did not impact other actions. Repairs resulting from the repair events on appliances that will be easy, common and safe to realise on a “do it yourself” basis will be added at the end of the 6 repair cafes to the deliverable. The Repair cafes were meant to be completed by December 2018. The 5th one is scheduled for the 23rd of December 2018. A 6th one will be realised in Thessaloniki 2019. This has been put-off to find the right event to combine it with, so as to achieve the best results. This does not have an impact on other actions.

Comparison with established targets

Indicators of Progress	Target	Achievement	Comments
Final platform	September 2017	December 2017	
Quick guide for repair	June 2017	January 2018	If interesting and possible to do by yourself repairs of electrical appliances arise from the repair cafes, these will be added online to the deliverable.

Table 6 Achievements of Action B.6 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL / ANTICIPATED
7.2.18 B.6 Quick Repair Guide (available on the project website)	6/2017	(Oct 2017 draft final version) 31/1/2018 final del (electronic equipment) In progress – electrical equipment
7.2.19 B.6 Final implementation of the platform: reweee.hua.gr/en/	9/2017	April 2017 in pilot operation. 15/12/2017 final.

Milestones within reporting period	FORESEEN	ACTUAL / ANTICIPATED
Completion of pilot implementation of the platform	3/2017	4/2017
Improvement and implementation of platform	9/2017	11/2017

Supporting documents within the reporting period are Annexed as 7.2.20.

C. Monitoring of the impact of the project actions

Action C.1: Monitoring and assessment of the Project progress and performance

Foreseen start date: January 2016
Foreseen end date: June 2019
Status: In progress

Actual start date: January 2016
Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019	
C1	Foreseen					
	Actual	●	●	●	●	●

Progress

This Action is in progress according to the foreseen timetable. ECYCLE is responsible for this action implementation, with the contribution of the QA-QC group of the project. As described in the **MTR**, to avoid the overlapping in the implementation of Action C.1 and E.2, within the Action C.1 includes the assessment of environmental indicators of the project, the definition of indicators regarding the Actions B.2, B.4, B.5, B.6 and the overall environmental impact of the project.

A report including the definition of the environmental indicators of the Actions B.2, B.4, B.5, B.6, based on the Project Specific Indicators, was submitted as *Annex 10.2.37* of the **MTR**, in the context of sub-action C.1.1 implementation (Milestone). Moreover, the Project Specific Indicators of the project were uploaded on the online data collection tool <http://life.idom.com>, according to European Union announcement and the excel file document, extracted by the Idom platform was submitted as *Annex 10.2.38* of the **MTR**.

During the reporting period of the **2nd PR**, the environmental indicators of Actions B.2, B.4, B.5, and B.6 were defined qualitatively, since the most important environmental indicators will arise after the SCs operation. The assessment of the environmental indicators of Implementation Actions and the impact of the project progress are included at the deliverable report annexed as Annex 7.2.21 C.1 2nd Annual assessment report of the Project impact of the **PR**.

Delays

No delays have been performed during this Action implementation.

Comparison with established targets

Indicators of Progress	Target	Achievement
Monitoring and assessment of Project Specific Indicators per year	6/2019	Definition of indicators
Maximizing of implementation actions results (B.2, B.4, B.5, B.6)	6/2019	

Table 7 Achievements of Action C.1 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL
7.2.21 C.1 2 nd Annual assessment report of the Project impact	12/2017	31/1/2018

Action C.2: Evaluation of the social-economic and environmental impact of the Project

Foreseen start date: January 2017
Foreseen end date: June 2019
Status: Not started

Actual start date: January 2017
Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019
C2	Foreseen				
	Actual		●	●	●

Progress

HUA is the responsible beneficiary for the implementation of Action C.2, while ECYCLE and ECOREC have a supportive role in the collection of the required data. Action C.2 aims at the assessment of the socio-economic and environmental impact of the project, throughout:

- its pilot implementation of the sorting centres, and
- the potential full-scale (i.e. all over Greece) implementation after the end of the LIFE RE-WEEE project.

For the assessment, the methodologies of Socio-economic Life Cycle Assessment (S-LCA) and the Environmental Life Cycle Assessment (E-LCA) are utilised. Overall, Life Cycle assessment methodologies advance in four subsequent stages: i) Goal and scope definition, ii) Life Cycle Inventory, iii) Life Cycle Assessment (through the utilization of the LCA software EASETECH and SimaPro), and iv) Interpretation of results. Up to November 2017, the first stage is completed and the 2nd stage is in progress.

The definition of the parameters' framework for the conduction of both S-LCA and E-LCA was completed in March 2017, as anticipated. However, the report was revised upon the comments of EASME letter of 18/12/2018, Ref. Ares(2017)6209932. The revised report was delivered to the Monitoring Team Auditor, Mrs. Papageorgiou, during the 3rd project visit and is Annexed with this report as Annex 7.2.22 C.2 Social and Environmental LCA parameters_revised.

More specifically, throughout the reporting period of time, the following activities per Sub-action have been performed:

Sub-action C2.1: Assessment of the socio-economic impact of the project:

The framework of the parameters needed for the performance of the S-LCA, has been revised and resubmitted (Annex 7.2.22). The framework involves the definition/description of social impacts and the categorization of socio-economic indices, and the definition of “target” groups (e.g. employees, consumers, local community etc.). An overview of this framework was presented in the 6th Social Life Cycle Assessment Conference, which was organised on 10-12 September 2018, in Pescara, Italy (please refer to Annex 7.2.31 D.7 Supporting Material to “30 D.7”, “31 D.7” and “32 D.7”).

Sub-action C2.2: Assessment of the environmental impact of the project:

The framework of the parameters needed for the performance of the E-LCA, has been revised and resubmitted (Annex 7.2.22). The framework involves the definition/description of environmental impacts and the categorization of environmental indices, and the definition of “target” areas of protection (ecosystem, human health, and natural resources).

Delays

No problems related to the methodology have been encountered so far. However, the completion and submission of the two deliverables (reports) is inextricably dependent on the start date of the sorting centres operation, which is delayed (please refer to Action B.5).

Comparison with established targets

Indicators of Progress	Target	Achievement	Comments
Report of S-LCA	June 2019	In progress	No delays are expected due to the selected methodology. Nevertheless, the production of the deliverable will depend on the operation of the sorting centres.
Report of E-LCA	June 2019	In progress	No delays are expected due to the selected methodology. Nevertheless, the production of the deliverable will depend on the operation of the sorting centres.

Table 8 Achievements of Action C.2 within the reporting period

Deliverables within reporting period

No deliverables are foreseen for the reporting period

Milestones within reporting period	FORESEEN	ACTUAL
7.2.22 C.2 Social and Environmental LCA parameters_revised	3/2017	3/2017 (revised on 3/2018)

D. Public awareness and dissemination of results

Action D.1: Development and monitoring of the result dissemination strategy and of the communication plan

Foreseen start date: January 2016

Actual start date: January 2016

Foreseen end date: June 2016

Actual (or anticipated) end date: June 2019

Status: In progress

Project actions		2016	2017	2018	2019
D1	Foreseen	[Timeline bar from Jan 2016 to Jun 2016]			
	Actual	[Timeline bar from Jan 2016 to Jun 2019]			

Progress

ECYCLE is responsible for implementation of this Action. Although the foreseen duration of Action D.1 was till June 2016, the status is indicated “in progress”, due to the fact that the Action progress indicators include the ensuring of proper implementation of dissemination actions throughout the Project duration and validation of Dissemination plan per year. This fact was approved by EASME at the letter of 2/5/2017 and was also described at the **MTR**.

The dissemination plan of the Project results was revised and submitted as Annex 7.2.23 D.1 Dissemination Plan_ReWeee_revised2 according to the actions that took place within the reporting period, including the overall relevant activities for the project results dissemination and information of the public and the project’s stakeholders. The description of the dissemination and promotion activities, as referred at the dissemination plan of the project, are detailed at the corresponding Actions D “Public awareness and dissemination of results”.

Delays

During the 3rd Monitoring Team Audit visit on 3/5/2018 the project team discussed with Mrs. Papageorgiou that due to the delay of the Action B.5, the dissemination actions related to the SCs operation will follow the delay of the initiation of the SCs operation, as described in the Action B.5.

Comparison with established targets

Indicators of Progress	Target	Achievement
Dissemination plan development	6/2016	6/2016
Dissemination plan revision per year	6/2019	revision 9/2017
Logo	6/2016	1/2016
Stakeholders database	6/2016	6/2016 (Dynamic list_revised)
3 main communication messages	6/2019	6/2019

Table 9 Achievements of Action D.1 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL
7.2.23 D.1 Dissemination Plan_ReWeee_revised2	6/2016	31/3/2018 (revised)

Action D.2: Development and maintenance of the Project’s website

Foreseen start date: January 2016

Actual start date: January 2016

Foreseen end date: June 2019

Actual (or anticipated) end date: June 2019

Status: In progress

Project actions		2016	2017	2018	2019
D2	Foreseen	[Timeline bar from Jan 2016 to Jun 2019]			
	Actual	[Timeline bar from Jan 2016 to Jun 2019]			

Indicators of Progress	Target	Achievement
Project promotion through 2 informative banners	12/2017	Development of 2 general informative banners, used at the Project events
Project promotion through 10 informative posters	12/2017	After the SC operation

Table 11 Achievements of Action D.4 within the reporting period

Deliverables within reporting period

No deliverables are foreseen within the reporting period.

Supporting documents within the reporting period are Annexed as 7.2.25 – 7.2.26.

Action D.5: Networking with other LIFE and/or other funding programs

Foreseen start date: January 2016

Actual start date: January 2016

Foreseen end date: June 2019

Actual (or anticipated) end date: June 2019

Status: In progress

Project actions		2016	2017	2018	2019
D5	Foreseen	[Orange bar]			
	Actual	[Green dot]	[Green dot]	[Green dot]	[Green dot]

Progress

This Action is ongoing according to the foreseen timetable. GF is responsible for the overall coordination and implementation of this Action. All beneficiaries contributed to the development of a networking activities database containing relevant projects directly or indirectly related to WEEE management. So far the Project Team has come into direct contact with a great number of projects. All contacts have been established through e-mails, web-meetings, participation and/or organization of common events.

Indicatively and for reporting purposes, some networking activities, among others, are recorded in the Annex 7.2.28 D.5 Indicative List of Networking Activities.

The list of directly and indirectly related to WEEE projects was established by the Project Team during the first 3 months of the project implementation. This list is dynamic and enriched throughout the implementation of the project. The information in regard to the networking activities implemented throughout the implementation of the project is recorded in the deliverable report Annexed as 7.2.27 D.5 Networking Activities Report, which was due to be submitted by 01/2019 according to the GA, but has already been drafted and submitted with the 2nd PR. It should be stressed that the report shall be enriched in the future with the networking activities and resubmitted with the future reports.

More specifically, as recorded in the report, direct contacts with 14 LIFE projects directly related to e waste have been established while 20 more contacts with LIFE waste related projects have also been made. In total 33 more contacts have been made with projects financed by different financial instruments directly or indirectly related to e waste, have also been established. Moreover, 100 stakeholders from 78 organizations from the private sector and public bodies, also came into contact during the 1st International Conference on the Role of Social Enterprise in a Circular Economy (23-24 November 2017, Charleroi/Brussels). The LIFE REWEEE project was presented in detail regarding its objectives and expected results during this conference and networking event. The project's team also participated in 26 networking activities among which are: conferences, workshops, meetings, etc. Moreover, in the context of **Action D5**, two (2) accounts in social media (Facebook, twitter) targeting to information exchange and dissemination of the Project progress have been created and are being updated.

Delays

No delays have been recorded during the implementation of Action D.5.

Comparison with established targets

Indicators of progress	Target	Achievement
Number of projects contained in the developed network database and contacted by the Project Team	50	104 UNTIL 30/11/2018
Number of projects response	38	30 UNTIL 30/11/2018
Number of likes in Facebook	1000	517 UNTIL 30/11/2018
Number of followers in Twitter	200	366 UNTIL 30/11/2018

Table 12 Achievements of Action D.5 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL
7.2.27 D.5 Networking Activities Report	1/2019	30/11/2018

Supporting documents within the reporting period is Annexed as 7.2.28.

Action D.6: Exploitation of media and development of informative material for communication and result dissemination

Foreseen start date: January 2016

Actual start date: January 2016

Foreseen end date: June 2019

Actual (or anticipated) end date: June 2019

Status: In progress

Project actions		2016	2017	2018	2019
D6	Foreseen	[Progress bar]			
	Actual	•	•	•	•

Progress

The Action is in progress and ECYCLE is responsible for the implementation with the contribution of all beneficiaries. HRA, the responsible beneficiary for the development of the three spot videos for the promotion of prevention of WEEE production and EEE re-use, awarded after a tender procedure according to their internal regulations that took place on 11/2017 the contractor offering the lower price to undertake the development of the videos. After meetings among the contractor, HRA and ECYCLE, the contractor presented three (3) alternative scenarios, an educational video with the use of graphic tools, an informative video with interviews from the project partners and a short video like a promotional spot with an emotional message concerning our old but favourite appliances. The 1st scenario was selected for the development of the 1st video and will be delivered on 1/2019. Trade of EEE and reuse of WEEE as the first and preferred alternative will be the core message of the 1st video, as well as information about the LIFE RE-WEEE project.

Moreover, HRA with the additional role of the national coordinator of the European Week of Waste Reduction (www.ewwr.eu) in cooperation with Green Fund and all the partners of the project, organized a two days festival during the week of 18-26 November 2017. More specifically, two actions of LIFE RE-WEEE took place in the framework of the festival of waste reduction and recycling on 19-20 November 2017:

- ✓ The 1st repair event “Μαθαίνω να επισκευάζω” (Action B.6)
- ✓ The 4th Open Consultation Fora (Action B.2).

The session “EcoNews” of the SKAI TV news show presented the festival. Shots from the repairing event were taken by the contractor responsible for the development of the project video to include these shots in the video scenarios.

The dissemination of the project results take place in many events that the partners of the project participate in and are described in all Dissemination Actions depending the event (i.e. seminars, conferences, forums etc.). Indicatively:

- ✓ Project results disseminated to the meeting of FODSA - regional waste management bodies at their annual meeting in Thessaloniki by ECOREC on 21-23/6/2018.
- ✓ Project results discussed on 28/6/2018 at the Hellenic Parliament environment committee on Circular Economy.
- ✓ Project results mentioned amongst other things at ECOREC’s eco-paratiritio on 29/6/2018.

material (agendas, pictures, presentation etc.) are Annexed as 7.2.31 D.7 Supporting Materials (1 D.7 to 53 D.7).

The initial target was “participation in twelve (12) conferences and nine (9) events” throughout the Project implementation. Up to November 2018, the Project and part of its results have been disseminated through participation in nineteen (19) conferences, and seventeen (17) events.

Organization of two seminars regarding the results and lessons learnt throughout the implementation of the Project, with stakeholders as target audience (Sub-action D.7.3): As

anticipated, a seminar (title: Developing partnerships for WEEE prevention and preparing for reuse) regarding the results and lessons learnt throughout the implementation of the project was organized on 24- 25 September 2018, in Ljubljana, Slovenia. The workshop was combined with another workshop organized in the framework of the INTERREG SURFACE project. The SURFACE project aims to establish harmonized and evidence-based decision making in the field of waste prevention and reuse, notably by the creation of smart re-use parks networks. Fifty three (53) people related to waste prevention and management participated. Within the seminar, the LIFE REWEEE project was presented by ECYCLE. The early results of the Action B.1 were also presented by RREUSE. Relevant material (agenda, pictures, presentations, participants list) is provided as supporting documents (Annex 7.2.31 D.7 Supporting Materials (54 D.7 – 59 D.7)).

The project consortium is contemplating organizing the 2nd meeting not necessarily in Poland (as stated in the technical part of the project), but in other EU – State, where there is stronger interest and WEEE preparing for reuse is considered weak. All options are being examined.

Organization of six meetings with the RREUSE network, with ultimate goal the presentation and assessment of the Project (Sub-action D.7.4):

Input from the RREUSE network was collected on the advancement of the project, in particular concerning the development of the action B.1, during physical meetings organised in the following cities at the occasion of WEEE Working Groups.

1. Ghent, 10/03/2016
2. Brussels, 14/03/2017
3. Zagreb, 29/06/2017
4. Charleroi, 21/11/2017
5. Athens, 28/06/2017
6. Nijmegen, 20/11/2017

The LIFE RE-WEEE project leaflet was distributed in all the aforementioned events.

Conference participations foreseen for the next few months: In 2019 (within and after the Project implementation), the Project and its results are anticipated to be disseminated through participation in the following conferences: HERAKLION 2019 - 7th International Conference on Sustainable Solid Waste Management, Sardinia - 17th International Waste Management And Landfill Symposium, CEST 2019 - 16th International Conference on Environmental Science and Technology. Abstract submissions and/or acceptance are pending.

Up to date (30/11/2018), no problem has been encountered during the implementation of Action D.7.

Delays

No delays have been performed during the Action implementation

Comparison with established targets

Indicators of Progress	Target	Achievement
Number of participations in conferences	12 conferences	7 conferences up to September 2017 12 conferences from October 2017 up to November 2018
Number of participations in events (seminars, exhibitions, workshops)	9 events	8 events up to September 2017 9 events from October 2017 up to November 2018

Table 14 Achievements of Action D.7 within the reporting period

Deliverables within reporting period

No deliverables are foreseen for the reporting period.

Supporting documents within the reporting period are Annexed as 7.2.30 – 7.2.31

Action D.8: Organization of the Project final workshop

Foreseen start date: January 2016
 Foreseen end date: June 2019
 Status: Not started

Actual start date: January 2016
 Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019
D8	Foreseen				
	Actual				o

Progress

This Action is scheduled to be implemented the last trimester of the Project. Thus, it does not fall in the reporting period of the present report.

E. Project management and monitoring of the project progress

Action E.1: Project management and reporting to the EU

Foreseen start date: January 2016
 Foreseen end date: June 2019
 Status: In progress

Actual start date: January 2016
 Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019
E1	Foreseen				
	Actual	.	.	.	o

Progress

ECYCLE, as Coordinator of the Project, is responsible for this Action implementation, which is related to the Charter “4. Administrative part”. Action E.1 is in progress within the foreseen timetable.

The sub-action E.1.1 includes the preparation and submission of the reports to E.C. and the present Progress Report as well.

Within the reporting period, the Monitoring Team Auditor was informed for the project progress on a monthly basis, the Coordinator beneficiary monitored the proper implementation of the Project concerning the technical and financial issues. Beneficiaries’ expenses documents and copies of financial documents (invoices, payments etc.) were collected in a timeframe of 4 months by the Coordinator, and all Beneficiaries filled in the excel file of Individual Cost Statement. All Beneficiaries have access in a common cloud folder to disseminate and exchange data.

In the context of sub-action E.1.2, four (4) ACP meetings and meetings among partners have been performed within the reporting period for the proper implementation of the project, as it is described in the Charter “4. Administrative part”. The members of the supporting groups were revised due to changes in the employees of some partners and the final recommendation of groups is presented at the Diagram 1 Project Organization Chart.

Moreover, as described in the Charter “4. Administrative part”, the project team requested during the 3rd Monitoring Team Auditor visit on 3/5/2018 the postponement of the 2nd Progress report submission, which was accepted by the EASME Project Adviser Mr. Messina through the EASME letter EASME B3/DM (2018) 3287997, to be submitted by 31/12/2018.

Finally, communication with the EASME Project Adviser took place when was necessary to overcome the barriers that the project team faced, as described in the Charter “4. Administrative part”.

Delays

No delays have been performed during the Action implementation

Comparison with established targets

Indicators of Progress	Target	Achievement
8 ACP meetings (including kick-off meeting)	6/2019	3 ACP meetings
3 supporting team establishment	6/2019	Achieved at kick-off meeting
Monthly monitoring of Project progress and financial issues	6/2019	11 monthly progress reports
Preparation and development of 4 Progress Reports	6/2019	1 st progress report 31/12/2016 1 st mid-term report 11/2017

Table 15 Achievements of Action E.1 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL
2 nd Progress Report	12/2018	11/1/2019
7.2.32 E.1 Minutes of 4 th ACP meeting	30/06/2017	5/12/2018
7.2.33 E.1 Minutes of 8 th ACP meeting	-	5/2/2018
7.2.34 E.1 Minutes of 9 th ACP meeting	-	3/4/2018
7.2.35 E.1 Minutes of 10 th ACP meeting	-	4/6/2018
7.2.36 E.1 Minutes of 11 th ACP meeting	-	18/6/2018

Action E.2: Monitoring of the Project implementation progress and verification of progress indicators

Foreseen start date: January 2016

Actual start date: January 2016

Foreseen end date: June 2019

Actual (or anticipated) end date: June 2019

Status: In progress

Project actions		2016	2017	2018	2019
E2	Foreseen	[Timeline bar]			
	Actual	[Timeline bar with green dots]			

Progress

Action E.2 is in progress and according to the foreseen timetable. ECYCLE is responsible for the Action implementation. Within the Action E.2, assessment of the indicators of progress, revision of the Project Specific Indicators and assessment of the overall progress of the project according to the corresponding milestone “Quality Assurance and Quality Control Handbook” take place. The 2nd Project progress assessment report is Annexed as 7.2.37 E.2 2nd Project progress assessment report.

Delays

No delays have been performed during the Action implementation

Comparison with established targets

Indicators of Progress	Target	Achievement
Validation of Project Specific Indicators	At Progress report	30/11/2016
Validation of Project Specific Indicators	At Midterm report	30/09/2017
Validation of Project Specific Indicators	At Final report	Foreseen at 30/9/2019

Table 16 Achievements of Action E.2 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL
7.2.37 E.2 2nd Project progress assessment report	12/2017	02/03/2018

Milestones within reporting period	FORESEEN	ACTUAL
Validation of Project Specific Indicators (7.2.38 E.2 Project Specific Indicators_30-11-2018)	12/2016	11/2016 (1 st Progress Report) 9/2017 (Mid-term report) 30/11/2018 (2 nd Progress Report)

Action E.3: Monitoring of Project Carbon footprint

Foreseen start date: January 2016
Foreseen end date: June 2019
Status: In progress

Actual start date: January 2016
Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019
E3	Foreseen				
	Actual	●	●	●	●

Progress

Action E.3 is in progress according to foreseen timetable. Within the reporting period, the Carbon Footprint Group (CFG) decided to discuss and work on the activities of Action E.3, through emails and/or Skype meetings instead of physical presence meetings, with the aim to further reduce the carbon footprint of the Project.

From October 2017 to November 2018, the following activities per Sub-action were conducted:

Sub-actions E3.1 and E3.2 The Handbook for the estimation of the Project carbon footprint, will be revised when the operation of the sorting centers starts, in order to monitor the carbon footprint as precisely as possible. The CFG will update the “CO₂eq Factors” excel file accordingly. Also, the CFG decided to monitor and estimate the CO₂ emissions, which are avoided thanks to the organization of the Repair Cafes (Action B6.1). Therefore, the Handbook and the Factors will be revised in this respect. Discussions about the updating and revision processes are ongoing.

Sub-action E3.3 The 2nd annual report (year 2017) for the project’s carbon footprint was delivered in the first ten days of January 2018 (instead of the end of December 2017), in order to include the last days of December 2017, and is Annexed as 7.2.39 E.3 2nd annual report of project carbon footprint. In accordance, the 3rd annual report (year 2018) for the project’s carbon footprint will be delivered in the first ten days of January 2019 (instead of the end of December 2018). Tasks for the production of the 3rd annual report has begun. No delays are anticipated.

HUA is responsible for the Action implementation, while the rest beneficiaries have to contribute to the estimation, and assessment of the Project’s carbon footprint, as well as for the development and implementation of activities, which will lead to the mitigation of the Project’s carbon footprint.

Delays

No delays have been performed during the Action implementation.

Comparison with established targets

Indicators of Progress	Target	Achievement
A handbook for the estimation of the Project actions’ CO ₂ emissions	March 2016	April 2016 Revised in September 2017 upon EC remarks
4 reports of Project Carbon Footprint	12/2016 12/2017 12/2018 6/2019	01/2017 (in order to include December 2016) 01/2018 (in order to include December 2017)

Table 17 Achievements of Action E.3 within the reporting period

Deliverables within reporting period	FORESEEN	ACTUAL
7.2.39 E.3 2nd annual report of project carbon footprint	12/2017	3/2018

Action E.4: After LIFE+ Plan

Foreseen start date: April 2019
Foreseen end date: June 2019
Status: Not started

Actual start date: April 2019
Actual (or anticipated) end date: June 2019

Project actions		2016	2017	2018	2019
E4	Foreseen				
	Actual			●	○

Progress

This Action is scheduled to be implemented the last trimester of the Project. Thus, it does not fall in the reporting period of the present report.

5.2. Envisaged progress until next report

The project implementation has also complete the 3rd year, i.e. it goes through the 35th month of the total duration and all the Actions are in progress. The next report (“Final report”) is foreseen to be delivered on 30/9/2019, according to the GA. For the period time till the next report, the project Actions will be progressed in parallel.

More analytically:

- Dissemination Actions will be implemented based to the dissemination plan (Action D.1 – Annex 7.2.23 D.1 Del Dissemination plan, which will be revised again by the end of 2018) and according to the Implementation Actions B progress.
- The publication of the final version of the comparative analysis was delayed because of the late completion of the action B.1.1, as well as the late update of certain answers received by RREUSE and which resulted in ECOREC having to review the results of the analysis. However, a draft version was accessible by EASME already in June 2018. The final version of the deliverable should be publishable by the end of December 2018. The delays were mostly graphic and of an editorial nature not related to technical aspects of the deliverable. Given the late achievement of action B.1.1 and B.1.2, the completion of this action is also threatened by delays. This is why it is estimated that the achievement of the sub-action B.1.3 will probably be delayed by 3 months (31/6/2019 instead of 31/3/2019).
- Consultation Foras will be organized in the context of the Action B.2, and according to the overall project progress, in order the Fora topics to be defined.
- Draft technical issue will be prepared in order to be proposed to the Ministry of Environment and Energy with the intention of a legislative framework for the operation of sorting facilities to be developed, in the context of Action B.4. This technical issue should be adjusted according to the pilot operation of the 2 SCs.
- Action B.6 will be in progress by the organization of the last Repair Event and evaluation of the results by these events.
- All the corresponding annual reports will be developed:
 - Report of Project impact assessment (Action C.1)
 - Report of Project progress assessment (Action E.2)
 - Report of Project CO₂ emissions (Action E.3)
- The Action B.5 will be in progress through the operation of the two (2) SCs and the evaluation of the data raised till the next report.

The continuous informing of Monitoring Team concerning the total project progress will take place through the monthly reports, as parts of Action E.1.

The Gantt Chart of the project is Annexed as 7.2.40 LIFE RE-WEE Gantt Chart.

5.3. Impact

Environment & Resource Efficiency: The current progress of LIFE RE-WEEE project has no direct environmental impact, since the operation of SCs.

Since prevention of WEEE production and preparing for re-use are found in very early stage in Greece, the project expected results is estimated to have significant positive environmental impact in the regions of interest (Attika and Central Macedonia) where the two SCs will be located and operate, and to other areas that will develop corresponding infrastructures and activities, as the

operation of SC down in the existing legislation (K.Y.A H.Π. 23615/651/E.103/2014 in compliance with Directive 201/19/EU). The project environmental impact arise firstly by the restriction of WEEE production through prevention and preparing for re-use, by reduction of raw materials, energy and resources for the for the production of new products on the other, and limitation of greenhouse gasses production raised by production of new products or WEEE treatment as well.

More analytically, it is estimated that during the project duration, 310tn of WEEE (especially small appliances, small IT appliances and screens) will be prepared to be re-used through the operation of the two (2) SCs. This is equal to a prevention of 5.470tn CO₂ emissions and savings of significant quantities of raw materials and resources. The referred quantities described above will be validated after the SCs operation and the product mix of the equipment that will be prepared for re-use.

The estimated quantities of WEEE that will be prepared for re-use concern the pilot operation of the two (2) SCs. Hence, by the implementation of the project results in other areas throughout the territory, the environmental impact that will arise will be very significant. Moreover, the collaborative web-based platform for EEE donation and exchange will also significantly contribute to WEEE prevention, taking into consideration the nationwide operation of the platform.

Indirect impacts: The implementation of project results, after the pilot operation of the two SCs, will bring about many benefits to the Municipalities that declare interest in the development of new SCs in their boundaries, according to the technical requirements and specifications, developed by LIFE RE-WEEE. Municipalities will implement good practices of WEEE management through sorting and therefore the preparing for re-use of WEEE, resulting in positive environmental impact and achievement of EU target concerning waste reduction. The development of integrated facilities for WEEE sorting including or in collaboration with preparing for re-use facilities (services) will create new green jobs, will improve the know-how of the employees and could organize educational workshops to schools and other social groups. Moreover, as it is foreseen in the project, Municipalities could donate or provide in very low cost the re-used equipment in social groups in need. Finally, local authorities could take advantage of these facilities to collect all streams of waste, in order to proceed in environmentally sound management of produced wastes. On the other hand, the development of a preparing for re-use measurement methodology based on the existing best methodologies, constitute main objective of LIFE RE-WEEE. The future implementation of this tool in all EU-members will be supporting in quantification of re-use and provision of corresponding data to reports to EU, facilitating in the adoption of binding quantitate targets concerning preparing for re-use and re-use at future amendments of WEEE Directive 2012/19/EU.

Key Project-level Indicators (KPIs): KPIs were filled in the EU webtool. The excel file extract from the webtool is submitted as Annex 7.2.41 kpi project data_export 21-12-2018 of this report. Comments on the KPIs after updating the indicators according to EASME guidance, are presented below:

- ✓ *3.1. Waste Management:* The 1,960 tn/y of WEEE refer to the amount of WEEE prepared for reuse in the Sorting Centers and the WEEE prevented by other Actions of the project (donation/exchange platform of EEE and repair events).

WEEE prepared for reuse

The most corresponding EWC code to the WEEE categories, small appliances and IT equipment that will be treated at the 2 SCs is 200136. However, in order to cover all the types and origins of the appliances that these categories include, as also all the WEEE categories that will be expected to be treated 3 years after the end of the project, more EWC codes should be corresponded: 20 01 35*, 16 02 13*, 20 01 23*, 16 02 11*, 16 02

14

The calculation of WEEE quantities that are expected to be prepared for re-use during the LIFE RE-WEEE project, are calculated according the corresponding resources at European level. This figure referred to 20% of annual total incoming of WEEE volumes of small appliances in Sorting Centers, for WEEE that are expected to be able for preparing for reuse with less or no repair.

The calculation of WEEE quantities that are expected to be prepared for reuse after three years from the end of the project, are calculated at European level at 2% taking into account the average annual level of collected WEEE at 50,000 tn from all sources.

WEEE prevented

The quantities to be prevented are related to mobile phones. Calculation based on expected prevention of WEEE amount is equal to 0.1 kg / inhabitant (e.g. 1 mobile phone/inhabitant), by the use of collaborative online platform. The total quantity is reduced to the entire population of Greece (11,000,000 in.) per year. The expected prevented quantities during the project, referred to over then 1.5 years, as long as the platform is under operation.

Reference values:

FR Reference State of play (2014): 2% reused / total collected WEEE

EU Average State of play (2012): 2% reused / total collected WEEE

Notation: Reuse calculation is an objective of the project

- ✓ **8.1.1. CO₂:** It is estimated that:
5,470,000 kg CO₂ for aprox. 72,400 units of the appliances that will be prepared for reuse until the end of project (at the 2 SCs - small appliances & IT equipment).
7,900,000 kg CO₂ for aprox. 61,500 units of the appliances that will be prepared for reuse after 3 years from the end of project (all WEEE categories).
Total CO₂ savings will be revised at the end of the project, knowing the type of waste that will have been recovered.
- ✓ **11.1. Website:** No. Downloads is not applicable since this parameter cannot be calculated.
- ✓ **11.2. Other tools for reaching/raising awareness of the general public:** Hotline/information centre is not applicable in this project.
- ✓ **14.1. Running cost/operating costs during the project and expected in case of continuation/replication/transfer after the project period:** Values will be provided after the initiation of the Sorting Centers operation, so that the given values reflect more accurately their actual and projected status.
- ✓ **14.3. Future Funding:** The After-LIFE plan is expected to be developed by the end of the project implementation according GA and all the relative actions will be funded by the beneficiaries' own contribution. However, as it is foreseen in GA, "Appliances Recycling S.A." will fund the Sorting Centers operation for the After-LIFE period for 5 years duration of the SCs operation in total (during and after the project implementation). Values will be provided after the initiation of the Sorting Centers operation, where the operational cost of the SCs will be defined.

Due to the fact that some of the above parameters cannot be insert in this phase or are not applicable, submission of the KPIS for verification is not allowed, since after checking of the forms errors due to the "blank" cells are presented.

Policy implications: LIFE RE-WEEE targets are in compliance to the existing EU targets and priorities, concerning reduction of wastes and maximization of re-use, as prescribed in the current EU legislation and the [7th Environment Action Programme \(EAP\) to 2020](#). The objectives of the project fall also under the new [EU Action Plan for the Circular Economy](#) and its basic principles. Although, LIFE RE-WEEE Project is in line with the EU targets, obstacles were addressed concerning the development of SCs, since the existing National legislation framework did not

provide the specific requirements for the appropriate environmental authorization of these facilities

However, the Project team faced several obstacles, due to the fact that SCs operation is innovative in Greece and the National legislative framework (M.D. 1958/2012) by the start of the project was not sufficient in order to define the type of the environmental permit and procedures required for the authorization of such type of facilities. Additionally, the current National Land Use Planning restricts the settlement of waste management facilities such as SC, outside the districts of the defined Urban Plan or inside industrial areas accordingly. Project Team tackle these restrictions when was feasible, as describes analytically at the **MTR**. More specifically, after cooperation of HRA, representative of LIFE RE-WEEE, and the Department of Recycling – Alternative Management of YPEN, amendment of M.D. 1958/2012 by M.D. 37674/2016 was achieved. SCs were classified in the relevant group of facilities and included in Group 4 "Environmental Infrastructure Systems" as "Sorting Centers of Electrical and Electronic Equipment (WEEE) - Including facilities for preparing for reuse of WEEE (category “9γ”)”. Moreover, current National legislation puts restrictions in settlement of waste management facilities (collection, sorting, storage, treatment, disposal etc.), such as SC, outside the districts of the defined Urban Plan, according to PD 31/1985, or inside industrial areas according to PD 166 D/1987. For this reason, LIFE RE-WEEE Project, represented by HRA, made efforts in order SCs to be included at the same spatial framework with Green Recycling Centers with the cooperation of the General Secretariat for Regional Planning and Urban Development of YPEN. Due to the activities that take place in SCs, a special spatial framework for SCs is under development with the contribution of LIFE RE-WEEE Project, in order to facilitate the development of further SCs, out of the Project frame.

Additionally, in the context of LIFE RE-WEEE actions, a specification issue will be prepared, based on the developed technical requirements and specifications for preparing for re-use within the project duration, and will be proposed to the Ministry of Environment & Energy aiming to eventual integration in the National legislative framework.

Moreover, the 'Comparative Analysis Report of EU Existing Measures' is used to feed the work of the European Commission, via the Öko-Institute, to assess the feasibility to set up re-use targets for products at the EU level. RREUSE has been invited by the Öko-Institute to present some insights on accounting and monitoring re-use considering the relationship between reuse and preparing for reuse (10/12/2018 in Brussels). The tasks conducted by RREUSE and ECOREC for this action are being used as a source of inspiration for this work.

Concerning the compliancy of the LIFE RE-WEEE project implementation with the European and National policy for prevention and preparing for reuse of WEEE, “Appliances Recycling SA” as Coordinator of the project mentions the following issues:

- i. According to the National Law 4496/2017, clear restrictions are given for the Producer Responsibility Organizations (PROs) for the implementation of the prevention and preparing for reuse as the priority actions for the waste management and in accordance to the Circular Economy principles.
- ii. According to the Directive 2012/19/EU, as applied by the KYA 23615/651/E.103, guidelines for the alternative management of WEEE are given by adopting specific measures and actions, giving priority to the prevention and preparing for reuse of WEEE, involving the PROs in the operation and the monitoring of these procedures (Article 6 of KYA 23615/651/E.103).
- iii. The EU legislative framework promotes the implementation of prevention and WEEE preparing for reuse as priority management activities, and the principles of Circular Economy as well. Therefore, EC guidelines urge the amendment of the WEEE management standards and requirements in relevant to the Circular Economy principles,

as mentioned at the EC letter (Prot. No ENV.B.3/MB/hk(2018)1976226) to the European Committee for Electrotechnical Standardization – CENELEC.

- iv. “Appliances Recycling SA” activities are in line with the above European and National legislative framework. “Appliances Recycling SA”, according to the company’s obligations, submitted a business plan to the Hellenic Recycling Agency (HRA), in order the company operation as a Collective System to be approved, describing the new actions plan for a period time of 6 years (2018 – 2024). In this context “Appliances Recycling SA” submitted specific roadmap to serve the abovementioned principles. The implementation of the LIFE RE-WEEE project constitutes part of this roadmap and more specifically axis of the prevention and preparing for reuse activities of the business plan. The results and the foreseen infrastructures that will be raised by the project implementation will be evaluated in order to be disseminated in a national range, in accordance to their sustainability. Moreover, “Appliances Recycling SA” has also forecasted alternative plans for prevention and preparing for reuse actions, described in the proposed business plan.

At this point, HRA, the responsible agency for the design and implementation of policy for the WEEE alternative management, is involved at the LIFE RE-WEEE project implementation as beneficiary partner of the project partnership. This fact gives a privileged evaluation for the next actions plan concerning prevention and WEEE preparing for reuse, in order to be implemented according to the proposed business plan as submitted by “Appliances Recycling SA”.

5.4. Outside LIFE

According to current National legislation framework and the National Waste Management Plan, local authorities provide for “Green Points” siting within their boundaries as part of their Local Waste Management Plan. Project team, in the context of the project, has carried out visits to Local Authorities of interest (region of Attika and Central Macedonia) by informing them in detail for the LIFE RE-WEEE progress and especially regarding SC siting requirements. During the meetings, Project team provides in parallel guidance and advice Local Authorities regarding the eventual integration of SCs in the “Green Points” that have already been designed and are going to operate. By this way, Municipalities could proceed in environmentally sound overall management of the produced wastes. This procedure falls in the scope of project objectives for WEEE reduction through sorting and preparing for re-use on the one hand, but concerns activities out of framework of the LIFE project on the other, since “Green Points” facilities have not be developed yet.

Moreover, RREUSE has been an influence on the update of the Waste Framework Directive, in particular concerning the addition of an amendment which will force Member States to report the preparing for re-use of waste separately from recycling and to monitor re-use starting from 2020. The feasibility of setting preparing for re-use and re-use targets at the EU level will also be assessed by the Commission by the end of 2024. The (W)EEE (preparing for) re-use monitoring electronic toolkit to be developed under B1.3 could be used to satisfy the reporting needs of Member States, at least for (W)EEE.

Finally, “Appliances Recycling S.A.” organized a meeting with stakeholders relevant to WEEE management on 28/6/2018. The project activities and the potential implementation of the project results after the SCs operation in other regions of Greece were discussed. The meeting was participated by representatives of “Appliances Recycling S.A.” collaborating treatment facilities. The stakeholders were also informed about the project progress regarding the SCs operation in view of the forthcoming (till then) announcement of the tender procedure for the contactors selection for the SCs operation, since the operators of treatment facilities constitute key stakeholders in the WEEE management chain. The “Appliances Recycling S.A.” network of the treatment facilities is dispersed throughout the territory. Some of them had already declared interest to implement the project results by the SCs operation in their facilities, especially in Larisa and Crete, being in compliance with the European legislation framework policy for waste

management activities, promoting the preparing for reuse activities. Due to their location are out of the project scope, since the regions of interest are Attica and Central Macedonia. The stakeholders are kept informed for the project progress, in order to be more mature to include the operation of sorting and preparing for reuse facilities in their activities during the AFTER-LIFE period.

6. Financial part

6.1. Costs incurred (summary by cost category and relevant comments)

This chapter includes confidential financial data of each partner, which are not publishable.

7. Annexes

7.1. Annexes of Administrative part

- 7.1.1 Response to letter EASME B3-D(2017) 7014768
- 7.1.2 Response to letter EASME B3-DM (2018) 3287997
- 7.1.3 E.1 Participant list of 3rd Monitoring Team Audit
- 7.1.4 Letter for Equipment budget allocation_LIFE RE-WEEE
- 7.1.5 Pre-approval of equipment budget allocation proposal
- 7.1.6 Acceptance extension deadline 2nd PR
- 7.1.7 Project Organization Chart

7.2. Annexes of Technical part

- 7.2.1 B.1 Results of the collected answers
- 7.2.2 B.2 Del 2nd Annual Report on the Consultation Fora
- 7.2.3 B.3 Report on mapping of WEEE reuse and preparation for reuse practices and initiatives in Greece
- 7.2.4 B.3 Investigation of the impact of the deep economic crisis in Greece on the WEEE generation
- 7.2.5 B.4 Preparing for reuse specifications-display equipment
- 7.2.6 B.4 Preparing for reuse specifications-small and large IT
- 7.2.7 B.4 Preparing for reuse specifications-temperature exchange equipment
- 7.2.8 B.4 Preparing for reuse specifications-small appliances
- 7.2.9 B.4 Preparing for reuse specifications-large appliances
- 7.2.10 B.4 Guide describing prevention and best management practices of WEEE for citizens
- 7.2.11 B.5 Tender Procedure Analysis
- 7.2.12 B.5 Call of 1st tender announcement (Attica)
- 7.2.13 B.5 Technical issues for contractors' selection_1st announcement (Attica)
- 7.2.14 B.5 Call of 2nd tender announcement (Attica)
- 7.2.15 B.5 Technical issues for contractors' selection_2nd announcement (Attica)
- 7.2.16 B.5 Call of tender announcement (Central Macedonia)
- 7.2.17 B.5 Technical issues for contractors' selection (Central Macedonia)
- 7.2.18 B.6 Quick Repair Guide (available on the project website)
- 7.2.19 B.6 Final implementation of the platform: reweee.hua.gr/en/
- 7.2.20 B.6 Platform poster
- 7.2.21 C.1 2nd Annual assessment report of the Project impact
- 7.2.22 C.2 Social and Environmental LCA parameters_revised
- 7.2.23 D.1 Dissemination Plan_ReWeee_revised2
- 7.2.24 D.2 Google Analytics 2016 -2018 – LIFE RE-WEEE website
- 7.2.25 D.4 LIFE RE-WEEE poster
- 7.2.26 D.4 LEFE RE-WEEE poster_photos
- 7.2.27 D.5 Networking Activities Report
- 7.2.28 D.5 Indicative List of Networking Activities
- 7.2.29 D.6 Publications in Mass Media – Interviews_revised
- 7.2.30 D.7 List 01.10.2017_31.10.2018
- 7.2.31 D.7 Supporting Materials
- 7.2.32 E.1 Minutes of 4th ACP meeting
- 7.2.33 E.1 Minutes of 8th ACP meeting
- 7.2.34 E.1 Minutes of 9th ACP meeting
- 7.2.35 E.1 Minutes of 10th ACP meeting
- 7.2.36 E.1 Minutes of 11th ACP meeting

- 7.2.37 E.2 2nd Project progress assessment report
- 7.2.38 E.2 Project Specific Indicators_30-11-2018
- 7.2.39 E.3 2nd annual report of project carbon footprint
- 7.2.40 LIFE RE-WEEE Gantt Chart
- 7.2.41 kpi project data_export 21-12-2018

