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Del. B6.2.9 **Quick Repair Guide: Electronics – Part 1** (English Version)

(Action B.6.2)

Data Project

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Data Beneficiary

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

Action B.6- Promoting and Supporting WEEE Prevention Culture in Greece

Deliverable B6.2- Quick Repair Guide for Electronic Appliances

-Part 1-

LIFE Environment and Resource Efficiency-LIFE14 ENV/GR/000858

ATHENS

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Summary

This document translated from the original Greek. The first part of the quick repair guide concerns repairs for common electronic equipment-small IT and telecommunication equipment. The second part addresses repairs for small equipment-household appliances.

The present guide, describes several malfunction types and the respective repair steps, in order to extend the life cycle of common domestic-use electronic devices and to prevent their entrance in to the waste stream and specifically the WEEE stream.

This quick repair guide focuses on 10 different types of EEE, including several EEE components/parts where malfunctions are more commonly observed. The guide's objective is the demonstration of consecutive steps, that will help users understand how many devices and appliances are can be easily repaired without, in many cases, even requiring new components or specialized equipment.

The concise repair guide does not cover all types of malfunctions, as several types of malfunctions demand specialized repair equipment or/and replacement of specialized components. For these types of malfunctions, specialized certified repair technicians must be addressed for the repairs. Furthermore, it should be noted that home repair of an appliance may void the manufacturer's guarantee. Moreover, in cases where an appliance's status (or any other EEE) is considered to be dangerous to undergo repair processes by the owner/user (worn cables, liquid leakage etc.), the assistance of a specialized professional certified technician is required.

Even though the guide is based on professional technicians' expertise, its aim is for informative purposes only. Finally, it must be noted that the users of this guide are exclusively responsible for any issues that result from any repair process they undertake.

In detail, the domestic type of EEE that are presented in this guide, concern devices that are commonly used in contemporary domestic environments. The devices are:

- Desktop-Computer
- Portable Computer-Laptop
- Cellphone-Smartphone
- Portable Electronic Computer with Touch Screen-Tablet
- External-Portable Hard Disk
- Computer's Screen
- Network Router- Wi-Fi Router
- Transfer Cables (Sound, Image & Data)
- Power Supply Cables
- Power outlets

A basic characteristic of the above referred EEE is that they are considered as standard equipment for every residence and as previously mentioned, pertain to the 6th category of the ANNEX II of the 2012/19/EC Directive, as they are electronic devices of technologies of informatics and communication (TIC) whose external dimension does not exceed 50cm.

The composition of the repair instructions for the following electrical apparatus, includes the sequence of the following steps:

1. Malfunction Indications of an appliance, where evidence indicate that the appliance doesn't work or malfunctions.
2. Possible damages, where probable causes of malfunction are presented.
3. Repair, where all the necessary repair instructions are mentioned in chronological order for the purpose of repairing the appliance.

This particular quick repair guide was written with the assistance of EPANEKINISIS Group and the corporation MEANS4 (MAKRIDIS G. & SIA G.P.) that operates within the field of reuse of electronic equipment and the reintroduction of EEE in the economic circle, with emphasis on donations of such equipment to schools in order to assist the education of students in digital applications.

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