The RRR Accelerator

Solutions to prevent e-waste

PREVENT Waste Alliance

Period:	11.2021 – 09.2022
Countries	Nepal, Colombia, Brazil, Ecuador, Kenya
Project partners	Adelphi

The challenge

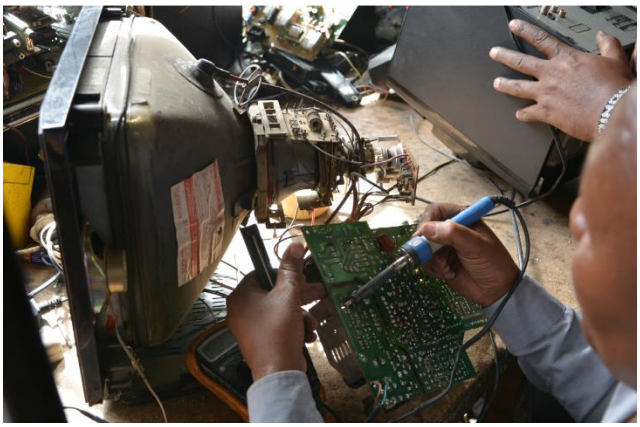
E-waste makes up an increasing proportion of municipal waste and leads to a growing amount of toxic substances in local waste streams. Concepts for repair, refurbishment and reuse of electrical and electronic equipment (EEE) reduce the negative impact on the environment by extending product lifetime, closing resource loops and optimising resource efficiency, while providing a range of social and economic benefits.

The RRR Accelerator programme

The RRR Accelerator supported NGOs and private companies that want to start an innovative project to promote the reuse, refurbishment and repair (RRR) of electrical and electronic equipment (EEE) in low- and middle-income countries. The programme received over 140 applications. Five winners were selected through a rigorous selection process including due diligence and idea pitching sessions. Selected organisations received funding between €10,000 and €20,000 as well as tailored non-financial support in the preparation and implementation of their project idea.

Selected Projects

- **Doko Recyclers (Nepal)**: The Repair Revolution Workshop is a 4-8 session program that trained 100 secondary to Bachelors level students from 5 governmental schools in Kathmandu Valley on proper dismantling, repairing, and refurbishment by encouraging experimentation at the Doko Recyclers Repair Lab.
- **Innova Ambiental (Colombia)**: The idea of the project is to reuse lithium batteries from electric vehicles that have been discarded and remanufacture them into rechargeable batteries for applications in e.g., stationary solar home energy systems.



- **SUCATA QUÂNTICA (Brazil):** The project developed an upcycling demonstration and engagement facility (named Scrap Lab 2), fully equipped with toolkits, manuals, and spare parts for conducting workshops of EEE reuse anywhere.
- **Vertmonde (Ecuador):** The project developed and tested equipment and software for educational robotic kits using parts and components from e-waste. This was accompanied by data destruction as well as the set-up of a repair and refurbish laboratory to support RRR roll out in existing operations with importers/wholesalers.
- **Inno-Neat (Kenya):** The project re-uses lithium-ion batteries to make new refurbished battery packs for solar energy storage and e-mobility purposes.

PREVENT Waste Alliance

The PREVENT Waste Alliance serves as an international ‘think and do tank’ for circular economy practitioners. As a platform for knowledge exchange and international cooperation, it brings together organisations from the private sector, academia, civil society and public institutions. PREVENT's mission is to advance the circular economy in low- and middle-income countries by minimising waste, eliminating pollutants, and maximising the reuse of resources in the economy worldwide.

The PREVENT Waste Alliance was launched in 2019 by the German Federal Ministry for Economic Cooperation and Development.

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More information: www.prevent-waste.net/en/