





THIRD DOLOMITE CONFERENCE ON GOVERNANCE OF CLIMATE CHANGE AND SUSTAINABILITY

REDESIGN GREEN POLICIES IN A post 1.5°C WORLD

EFFECTIVE MANAGEMENT OF ELECTRONIC WASTE

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SEEN POLICIES OF THE POST 1.50 POLICIES OF T

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Third edition



What is WEEE?

WEEE is waste from electrical and electronic equipment, where electrical and electronic equipment is the equipment dependent on electric currents or electromagnetic fields to work.

EEE becomes WEEE once it has been discarded as waste with **no intent of reuse**.



UNU-KEYs classification of EEE:

- 1. Temperature exchange equipment
- 2. Screen and monitors
- 3. Lamps

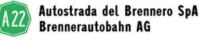
- 4. Large equipment
- 5. Small equipment
- 6. Small IT and telecommunication equipment

























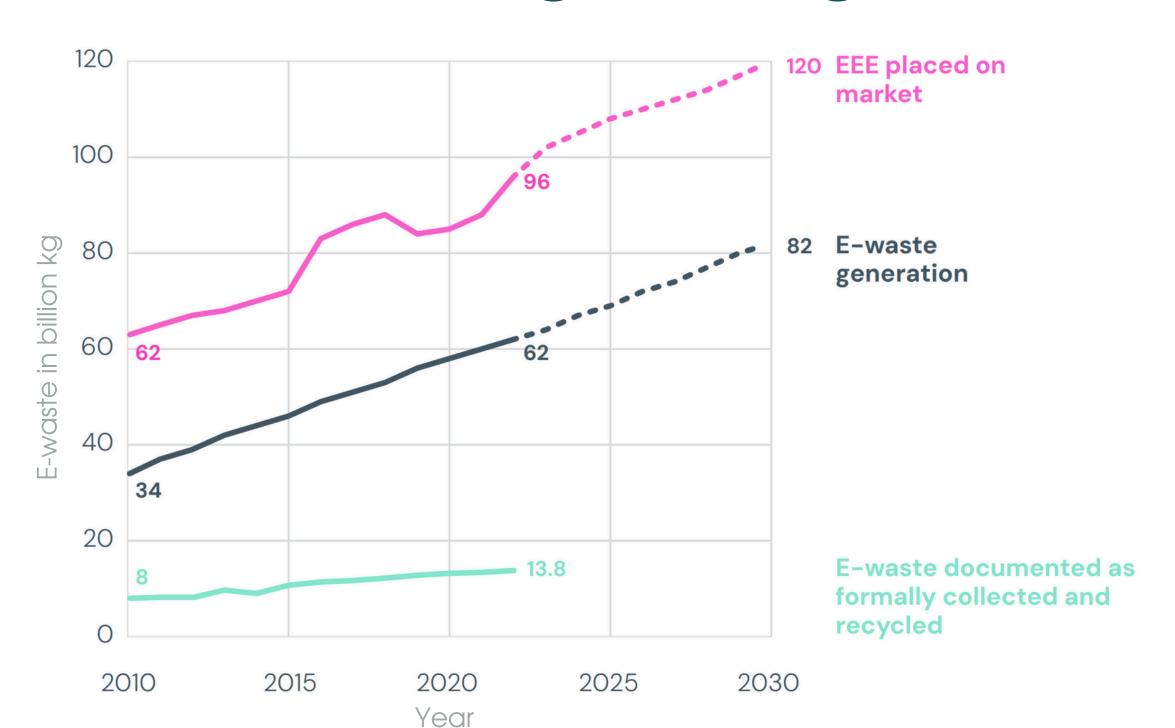








E-waste: a growing problem



From 2010 to 2022, the amount of e-waste generated per year worldwide almost doubled.

Main reasons:

- technological progress
- increased consumption
- limited repair options
- short lifecycles
- inadequate e-waste management infrastructure

Source: The Global E-waste Monitor 2024



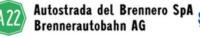




































Why Recovering E-Waste is Essential



High ecological footprint:

0.023 gha/ton per year for each ton of e-waste.



Improper management

leading to hazardous activities.



Reduce extraction of critical raw materials:

- reduce harmful effect of mining (CO₂ & pollutants release, biodiversity loss, land degradation)
- reduce reliance on imports from geopolitically unstable countries
- exploit urban mines

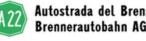


































Our solutions

Deposit Return System

ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION

Improves product durability, repairability and recycling and introduces a **Digital Product** Passport.

Partnership with repair shops

RIGHT-TO-REPAIR (R2R) DIRECTIVE

Prioritizes repair over replacement to reduce waste and support the repair sector.

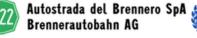


























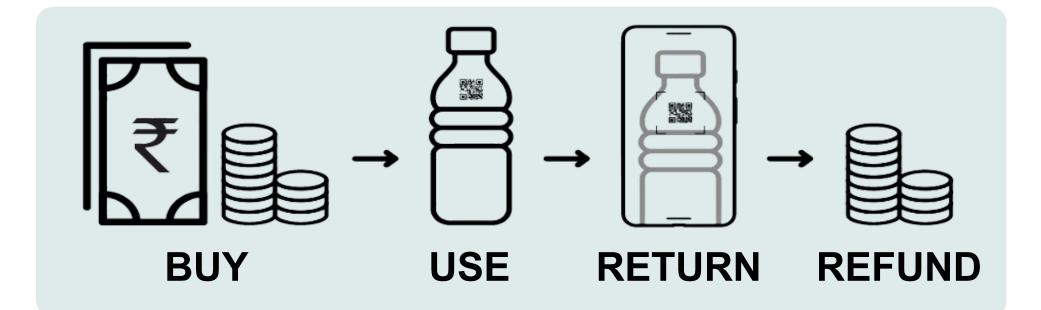








Deposit Return System



WHAT IS DRS?

Incentive scheme that adds a deposit to the purchase price which is **refunded** when the product is returned for recycling.

HOW

Collaboration with local producers and authorities.

WHAT

Small Electronic Devices

WHERE

Supermarkets and malls

BENEFITS

Effectiveness of the economic incentive

Proper e-waste Collecting

Versatile and innovative system



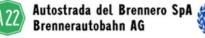


































Digital Passport

Essential tool that contains the characteristics of each product, including the allocated deposit.



A specific smart bin can autonomously manage e-waste and assign incentives.



Establishing Customized **Deposits**

Keep track into a **database** of all the collected goods

Shared key information between users and producers

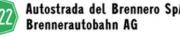


































Partnerships with Repair Shops

DRS is an effective tool for managing e-waste, but it doesn't cover products purchased before the deposit was introduced.

Partnerships with repair shops offer a complementary solution, allowing older electronics to be repaired rather than discarded.



Repair before recycle:

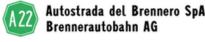
By providing economic incentives for consumers to repair and refurbish their devices instead of buying new ones, we reduce e-waste and extend the lifespan of electronics.

































- Proven Effectiveness: Following the German and Scandinavian example in plastic bottles collection.
- Flexibility in each national system: DRS tailored to fit each legal, cultural, and economic contexts of different countries, but spreading a common vision.
- Growing Awareness on E-Waste: Making responsible disposal practices more feasible.
- Brussel effect: EU as leader to foster e-waste collection worldwide.

CHALLENGES

Infrastructure Requirements Adaptability to Local Organization

Finding the right Deposit amount



Our manifesto proposal

EFFECTIVE E-WASTE COLLECTION

The Deposit Return System (DRS) allows an effective e-waste collection by incentivizing consumers to act responsibly.

REPAIR BEFORE RECYCLE

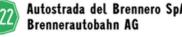
Reusable devices are given a second life through partnerships with repair shops, avoiding additional waste.















































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Thank YOU!





















