



WEEE Open: electronics, sustainability and open source

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2019

Politecnico di Torino

# Objectives

- Reduce the amount of electronic waste thrown away despite being still usable (that is, recover old computers)
- Learning “hands-on”, not on books
- Sharing the acquired knowledge with society
- Donating repaired computers and other devices to no-profit organizations, schools, public institutions and so on

Due to time and money constraints Politecnico can't recover all the waste it produces. We want to bring the quantity of electronic waste that it discards as close as possible to 0 tons per year.

# The recovery of electronic waste

Most of electronic waste (80% globally<sup>1</sup>, 65% in Italy<sup>2</sup>) produced in the world isn't correctly disposed: it ends up in illegal landfills in the poorest areas of the planet.

To reduce the quantity of waste, reuse is a possible solution.

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<sup>1</sup>Source: Baldé, Cornelis P., et al. *The global e-waste monitor 2017: Quantities, flows and resources*. United Nations University, International Telecommunication Union, and International Solid Waste Association, 2017.

<sup>2</sup>Source: Presa Diretta, 6-2-2017

# What have we done until now

- Three years of activity
- Currently 23 members
- Set up a lab with lots of cool tools and stuff
- Repaired around 70 computers, around 10 monitors, lots of keyboards and mice
- Erased more than 120 hard drives
- Created some some useful software and released as open source<sup>3</sup>: 12000 lines of code in active projects (excluding comments)
- Participated to lots of events where we repaired more electronic devices (Restart Party, Linux Day, and so on)

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<sup>3</sup><https://github.com/WEEE-Open>

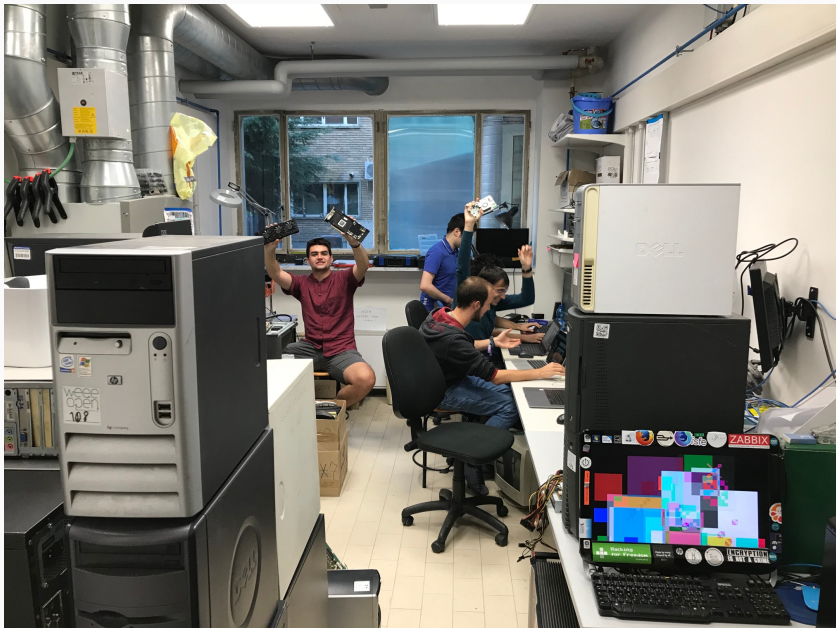
weee

We repair **Waste of Electric  
and Electronic Equipment.**

open

The use  
of **free/open source software** is  
an important part of our project.

# The lab



## Repairs in progress



# Cool tools





## T.A.R.A.L.L.O. Trabiccolo Amministrazione Rottami e Assistenza, Legalmente-noto-come L'inventario Opportuno

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7 results, showing 10 (page 1 of 1).

Polito >  > ZonaBlu

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### Codes

CIB 

OS license code 

OS license version XP

### Features

Arrival batch 

Brand HP

Form factor  
(motherboard) ATX

Have you got any questions?



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