



# Dismantling and Recycling Centre

## Vienna, Austria

### Sustainable Treatment of E-Waste

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Eine Einrichtung  
der VHS Wien



Bildung  
und Jugend

Im Auftrag und  
gefördert von



Zertifiziert  
nach



In Kooperation  
mit



# Your scrap keeps us busy!



## DRZ (Dismantling and Recycling Centre), Vienna, Austria :



- Socio-economic enterprise of the „Wiener Volkshochschulen“ (VHS - Europe’s largest adult education organisation)



- Funded by the unemployment agency of Vienna (AMS Wien), offering temporary employment and personal support to 200 people per year



- contract with the municipal waste department (MA 48)



- EMAS certified e-waste collection and treatment facility

**6 t/day**

- Manual dismantling of 13% of the e-waste collected in Vienna

# Our Main Mission: finding new jobs!

**Socio-economic facility supported by the Austrian Unemployment Agency (AMS)**

## 15 permanent staff

management, administration, expert instructors (dismantling re-use, trash\_design), social work & outplacement, marketing, quality management & projects



**Long-term  
unemployed  
persons**



## Temporary jobs & training contracts

- Occupation in DRZ departments
- Coaching and support
- Workshops, professional training
- Outplacement



65 Trainees:  
**Stabilisation**



33+10 Temporary workers:  
**Job on primary job market**

# Let us take care of your e-waste!

## Collection and transport: contract with municipality of Vienna



Foto: Andrea Kalchbrenner

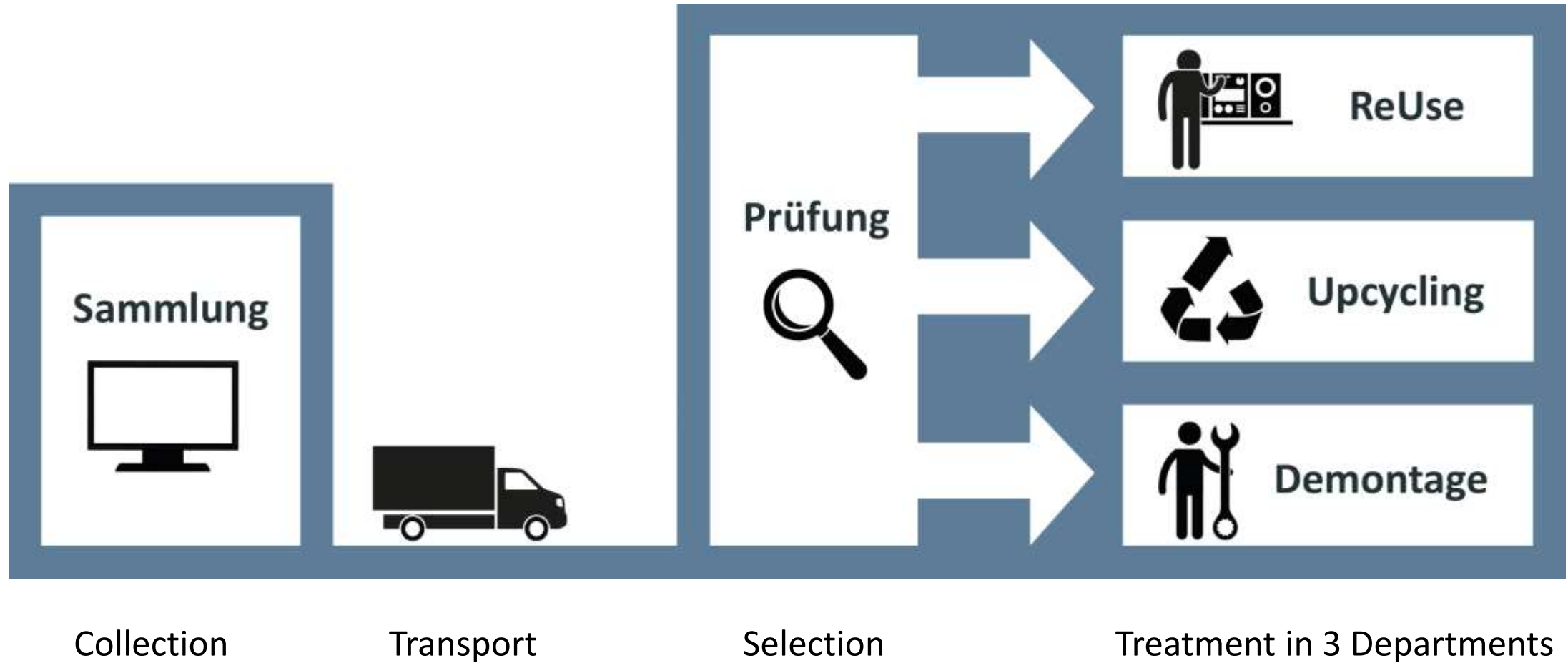
- Pick-up from amenity sites



- Transport and recycling service B2B



# DRZ Departments & Processes



# Your scrap is our resource!



## Dismantling Department

### Internal hub:

all incoming WEEE is sorted and prepared for the next step

- Reuseable devices > **ReUse**
- Selected parts > **Upcycling**
- **Dismantling** > depollution & preparation for recycling

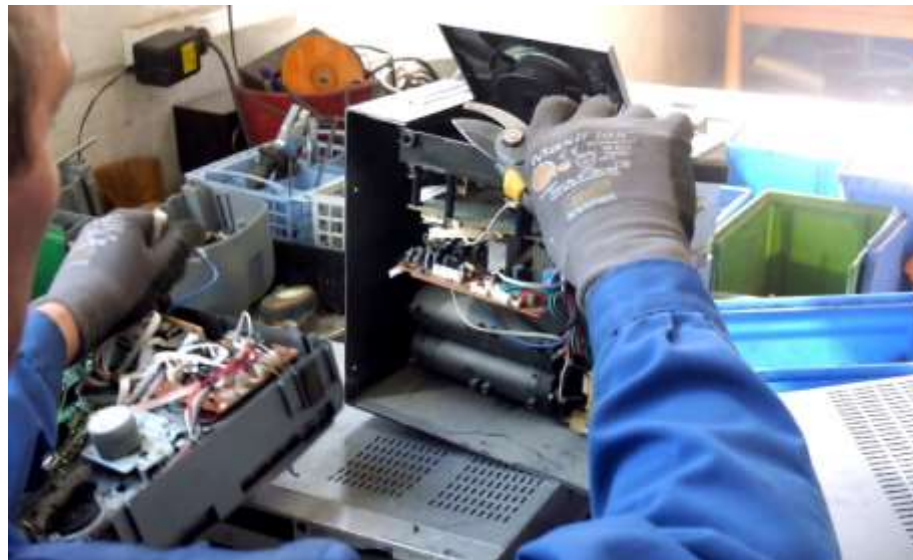
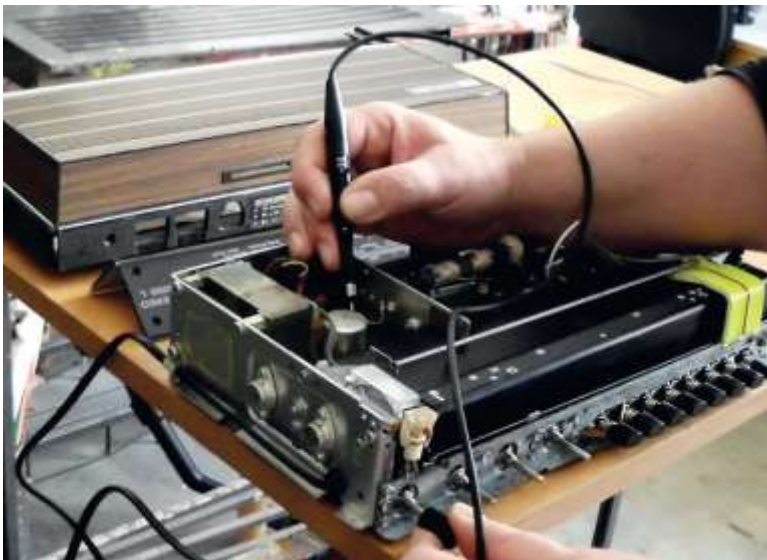
# Too valuable to be dumped!

## ReUse

- old record players
- retro radios
- TV sets
- HiFi equipment
- coffee makers
- IT and accessories...

... are tested, refurbished and sold second hand with 12 months warranty

[vhs.at/drz/reuse](https://vhs.at/drz/reuse)

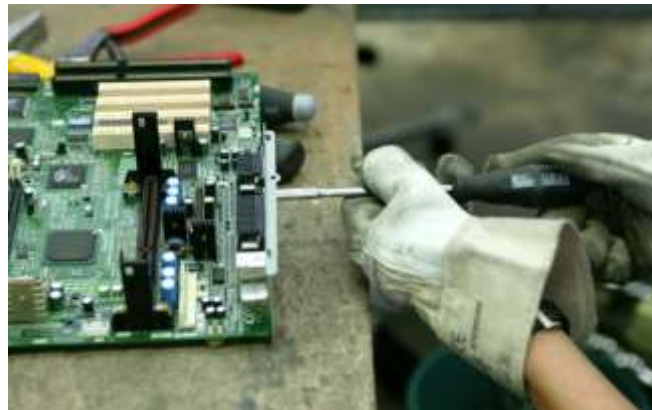


# Too beautiful to be trashed!

## trash\_design

Jewellery, furniture and accessories are handcrafted in our workshop and sold in our store, at design markets and on

[trashdesign.at](http://trashdesign.at)





# Too beautiful to be trashed!

**trash\_design** Jewellery, notebooks, trophies...

[trashdesign.at](http://trashdesign.at)



# Manual Dismantling

**Pure manual dismantling** of large and small appliances  
(except cooling & freezing equipment and CRT devices)



# Manual Dismantling

**Cleaner fractions (up to 30 different materials)**

lead to higher recycling rates, compared to mechanical pre-treatment



# Output materials: hazardous fractions



Mixed batteries



Li-ion batteries



Capacitors



Printer cartridges



LCD Displays



Lamps

# Output materials: valuable fractions



Ferrous metals



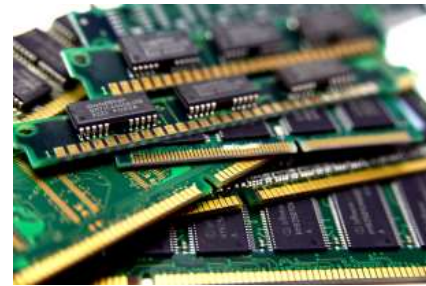
Aluminium



Copper



„Mixed“

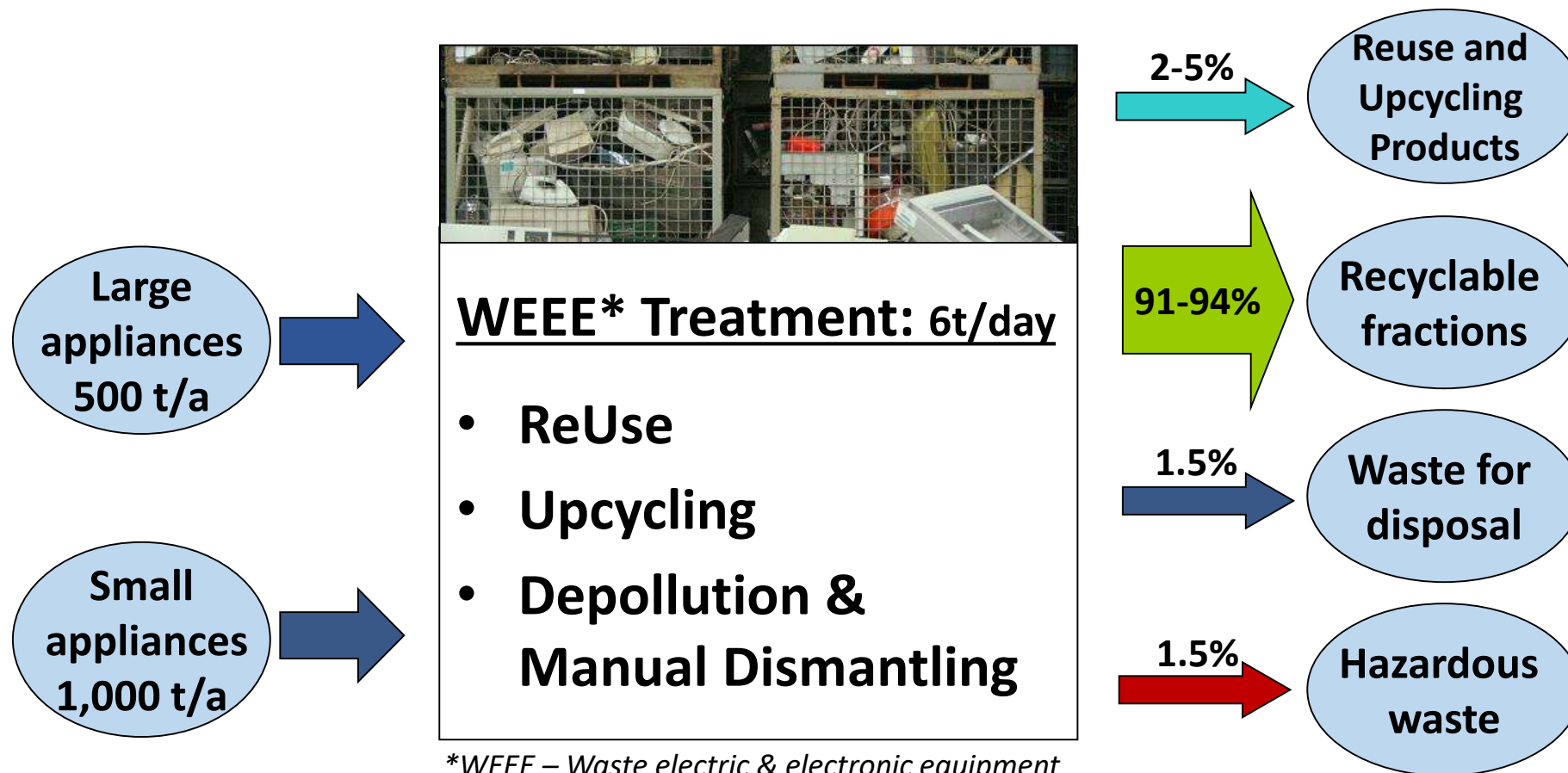


Printed circuit boards



Plastics

# Vienna's scrap keeps us busy!



\*WEEE – Waste electric & electronic equipment

# And then there are...

## **Project Co-operations** exchange of knowledge & experience



- Lectures
- Workshops
- Training of trainers
- Development Co-operations
- Research
- RIC [wecycle.eu](http://wecycle.eu)



# WEEE education activities



**School Kit**



Comprehensive teaching material about the contents, production and recycling possibilities of mobile phones and batteries



**Collection of mobile phones at schools**



# Networking



## National & international cooperation

with UN organisations, NGOs, etc. in order to deal with the e-waste problem on a global scale



## Aktive membership

- RepaNet
- ReUse Wien
- Solving the E-Waste Problem Initiative (StEP)



Abfallwirtschaft,  
Straßenreinigung  
und Fuhrpark

BauKarussell



Have a nice visit...



**Thank you  
for your attention!**