



## CIRCULAR ECONOMY ENGINEERING CASE STUDY

*Console prototype secure destruction Case Study*



# Console prototype secure destruction Case Study

One-off secure collection and destruction



## Background and Challenge

One of the world's biggest manufacturers of game consoles wanted to securely recycle prototypes after the testing period. The prototypes were used before the scheduled launch of the product. To maintain their competitive advantage, it was of the utmost importance for the producer to keep the information about the development of new game consoles and the confidential prototypes themselves.

## Customer Profile

World's largest manufacturers of consumer and professional electronic products, the largest video game console company, and the largest video game publisher.

## Objectives

- Secure transportation and destruction of the material to protect the customer's product reputation
- Prevent unintended leakage of the devices to the grey market
- Environmentally friendly end-of-life devices disposal for an output fragments revalorization
- Witnessed destruction process to ensure due process according to tailored technical specifications

## The Solution At a Glance...

- The service consisted of a single collection carried out in a sealed truck with a direct shipment from the collection point to the treatment facility.
- The equipment was properly stacked in standard-sized pallets and packed in such a way as to prevent breakage, damage, contamination, and harmful effects on human health, provider, or the environment during transport.
- On the agreed date, the material was loaded onto a trailer that was later secured with a numbered security seal
- Upon the arrival of the trailer at the recycling facility, the unloading, weighing, and destruction process is executed according to the Technical Specification.
- The service took two consecutive business days due to the manual dismantling before the destruction process at the treatment facility with a witness destruction audit service. At the end of the first working day, the material was stored in a safe area to continue the destruction process the next day.

For more information about the product please access our product sheet available at:

[E-waste Takeback](#)



# Console prototype secure destruction Case Study

One-off secure collection and destruction



Trailer and numbered security seal



Console prototypes pallets



Results of consoles  
being dismantled

► Pallets after being  
downloaded from the  
truck

Output fractions:  
steel components

► Hard disks  
handpicked

Printed circuit boards

aluminium



Unloading/transfer to secure  
area

## Key Facts/Results

- 16 standard-sized pallets were collected with a sealed trailer.
- 5.34 tons were recycled.
- Audit process went from weighing the entire trailer, going through the breaking of the security seal after the weighing process, and unloading the material from the trailer until shredding of the material.
- 5.1 tons of components and 241 kilos of packaging waste and a small number of batteries were recycled.
- An alternative processing method was used to speed up recycling. Consoles were put first through a shredder which smashed them into large pieces, exposing the insides; this allowed people in the picking line to quickly remove the batteries; pieces remaining on the conveyor were automatically routed to the granulator.