



**October
2024**



ELECTRONIC WASTE MANAGEMENT IN INDONESIA

**Directorate of Hazardous and Non Hazardous Management
Ministry of Environment of The Republic of Indonesia**



Law of the Republic of Indonesia Number 32 of 2009
on Environmental Protection and Management

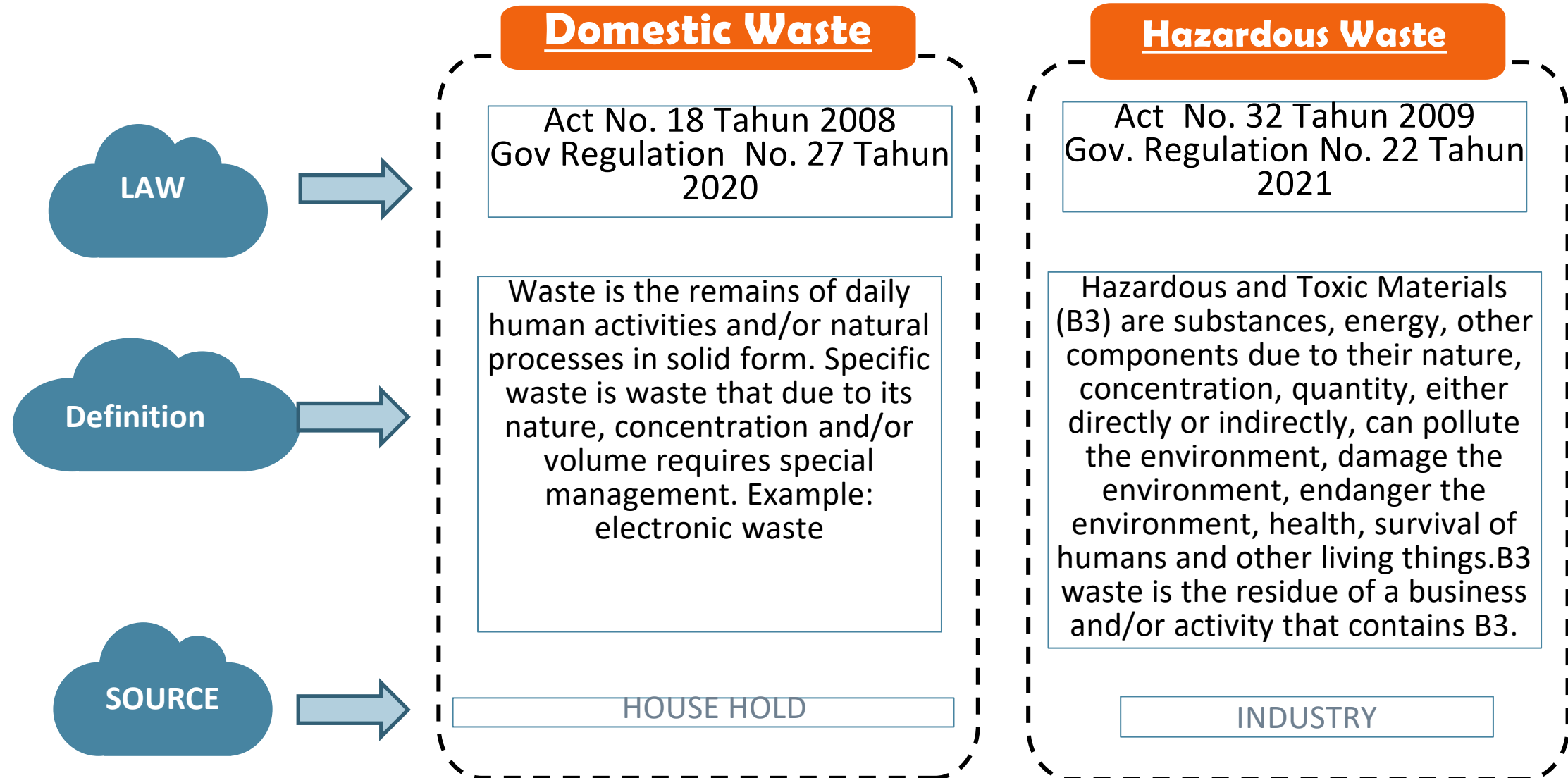
Law of the Republic of Indonesia Number 18 of 2008
on Domestic Waste Management

Government Regulation Number 22 of 2021
on Implementation of Environmental Protection and
Management

- ☐ CHAPTER VII. Management of Hazardous Waste and Non Hazardous Waste
- ☐ Transboundary of Hazardous Waste and Non Hazardous Waste

Regulation of MoEF of the Republic of Indonesia Number
6 of 2021
on the Procedures and Requirements for the Management of
Hazardous Wastes

Regulation of MoT of the Republic of Indonesia Number 20
of 2021 Junto 25/2022
on the Impor Regulation and Policy



TYPES OF E-WASTE



DIREKTORAT PENGELOLAAN LIMBAH B3 DAN LIMBAH NON B3
DIREKTORAT JENDERAL PENGELOLAAN SAMPAH LIMBAH DAN B3
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN

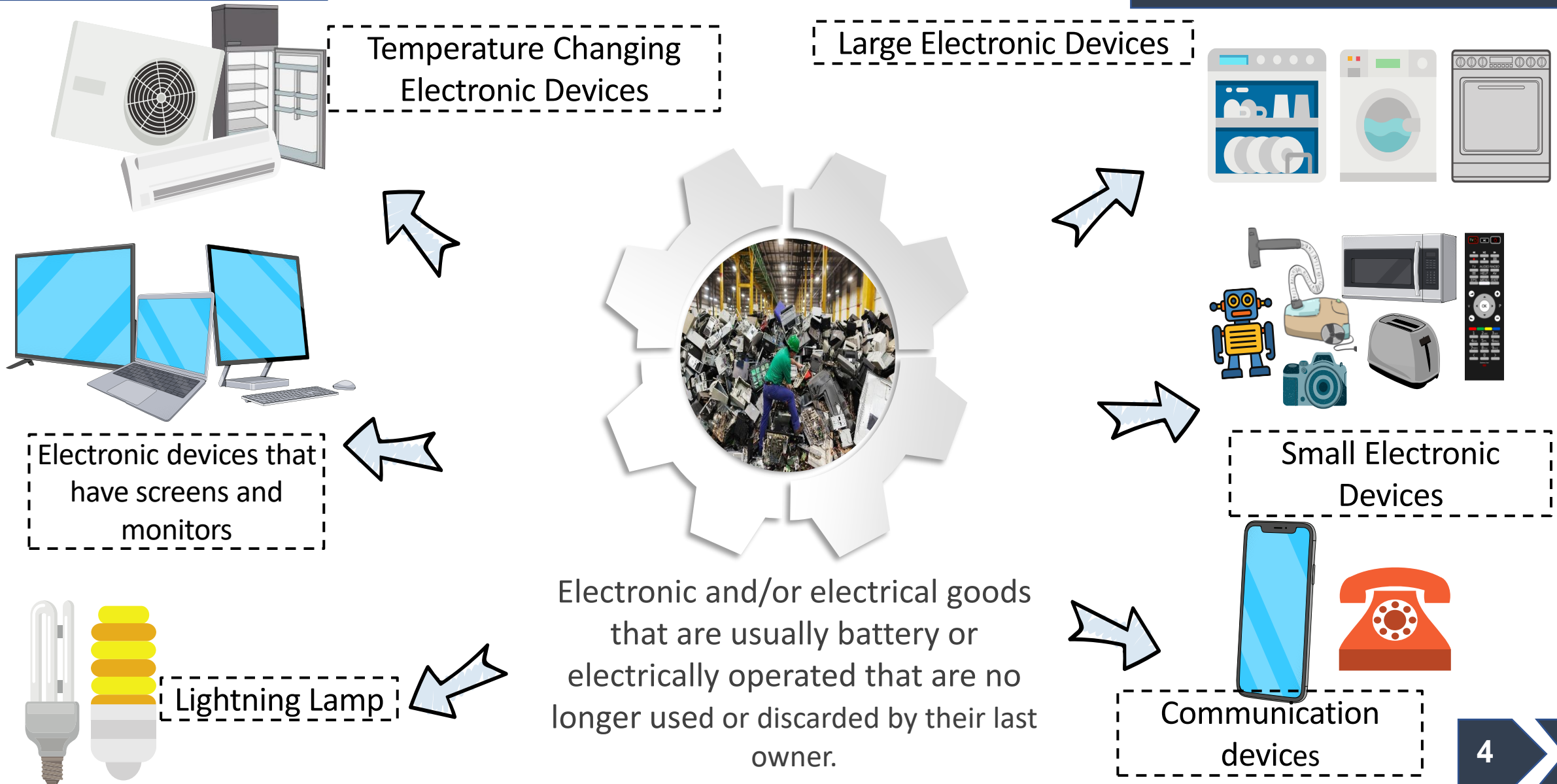




Table 1.
List of B3 Waste
from Non-
Specific Sources

- Electronic waste includes cathode ray tubes (CRT), fluorescent lamps, printed circuit boards (PCB) and metal wires from reconditioned or remanufactured electronic goods.
- **B107d:**

Table 3.
List of B3
Waste from
General
Specific
Sources

Assembly of electronic components or electronic equipment Table 3.

- A328-1: *Mercury contactor/switch*
- A328-2: *Lampu fluoresen (Hg)*
- A328-4: *Caustic strapping (photoresist)*
- B328-1: *Cathod Ray Tube (CRT)*
- B328-4: *Printed circuit board (PCB)*

Kegiatan 29 : Reconditioning or remanufacturing of electronic goods

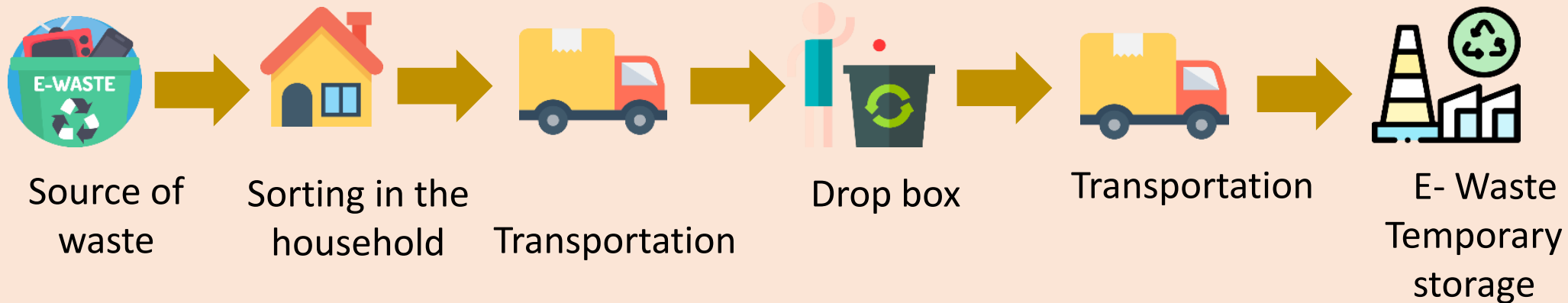
- A329-3: *Caustic strapping (photoresist)*
- A329-4: *Cathod ray tube (CRT)*
- B329-3: *Printed circuit borad (PCB)*

E-WASTE MANAGEMENT SYSTEM

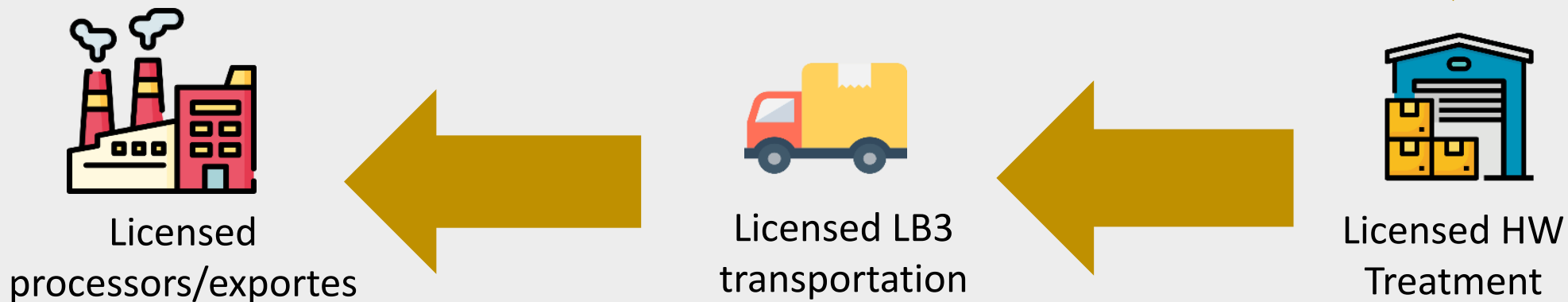


DIREKTORAT PENGELOLAAN LIMBAH B3 DAN LIMBAH NON B3
DIREKTORAT JENDERAL PENGELOLAAN SAMPAH LIMBAH DAN B3
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN

Domestic Waste Management Regulations



Hazardous Waste Management Regulations



E-WASTE IN NUMBERS (2022-2023)



DIREKTORAT PENGELOLAAN LIMBAH B3 DAN LIMBAH NON B3
DIREKTORAT JENDERAL PENGELOLAAN SAMPAH LIMBAH DAN B3
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN

PROVINSI PENGHASIL E-WASTE TERBANYAK (TON)

Provinsi	Limbah E-Waste
DI Yogyakarta	818.160647
Jawa Barat	691.6727
Kepulauan Riau	321.60934
Jawa Timur	138.331162
Banten	119.265938
DKI Jakarta	113.271088
Sulawesi Selatan	78.849077
Riau	62.651158
Jawa Tengah	60.700847

TOTAL E-WASTE 2022
3.321 TON

TOTAL E-WASTE D 2023
2.629 TON

PETA PERSEBARAN IZIN PENGELOLAAN E-WASTE

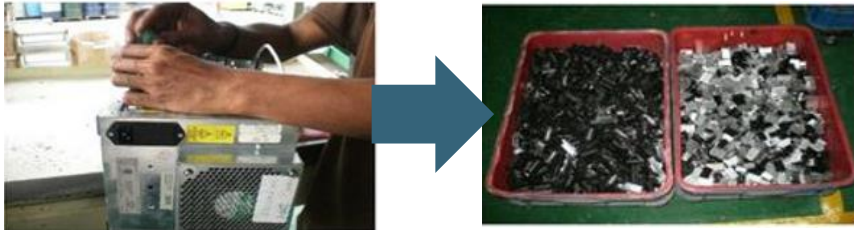


POTENTIAL OF E-WASTE UTILIZATION



DIREKTORAT PENGELOLAAN LIMBAH B3 DAN LIMBAH NON B3
DIREKTORAT JENDERAL PENGELOLAAN SAMPAH LIMBAH DAN B3
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN

MoE strongly encourages efforts to utilize electronic waste while still paying attention to the impact on the environment and human health.



Manual separation with
solder pot

Examples of
Utilization of
Electronic B3
Waste



Processing using crush machine



PCB component
separation



POTENTIAL OF E-WASTE UTILIZATION



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DIREKTORAT JENDERAL PENGELOLAAN SAMPAH LIMBAH DAN B3
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN



Pelleting process of plastic components in electronic waste



Wire process peeler



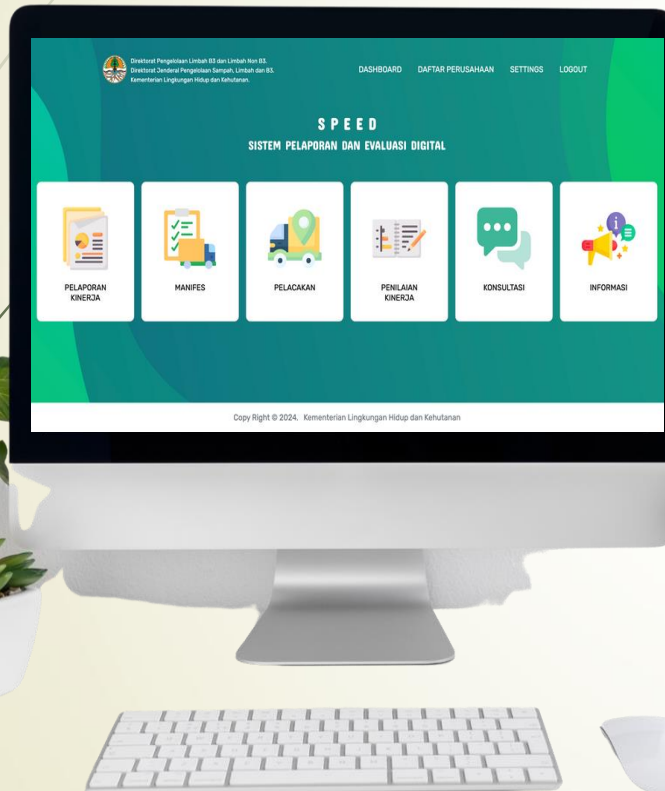
**Metal melting process
Processing using a
crucible machine (Cu,
Zn, Pb etc)**


ON LINE REPORT OF HAZARDOUS WASTE (SPEED)

Regulation MoEF 06 Tahun 2021

- Reports are submitted electronically (6 months)
- Reporting in the form of a sign receive electronic

Manifest electronic



	
Direktorat Penilaian Kinerja Pengelolaan Limbah B3 dan Limbah Non B3 Direktorat Jenderal Pengelolaan Sampah, Limbah dan B3 Kementerian Lingkungan Hidup dan Kehutanan Gedung A Lantai 5 Jl. D.I. Panjaitan Kav. 24 Kebon Nanas, Jakarta Timur 13410	
TANDA TERIMA ELEKTRONIK (ID : 1593767544-3318)	
Telah diterima DATA PENGELOLAAN LIMBAH B3 dari :	
Nama Perusahaan	: UJICOBA1
Sektor / Sub Sektor	: Manufaktur / Pabrikasi
Alamat	: DESA SEKAKO. Kabupaten Kutai Timur. Kalimantan Timur
Periode	: TRIWULAN 2 (01-04-2020 S/D 30-06-2020)
Tanggal	: 03-07-2020
Perizinan Limbah B3	: Penyimpanan Sementara Limbah B3
Tertanda, ttd Direktur Penilaian Kinerja Pengelolaan Limbah B3 dan Limbah Non B3	

E-WASTE DOCUMENT FOR TRANSPORTATION



Username

Password

➡ LOGIN

☑ DAFTAR

🎥 TUTORIAL

📄 PANDUAN

KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN
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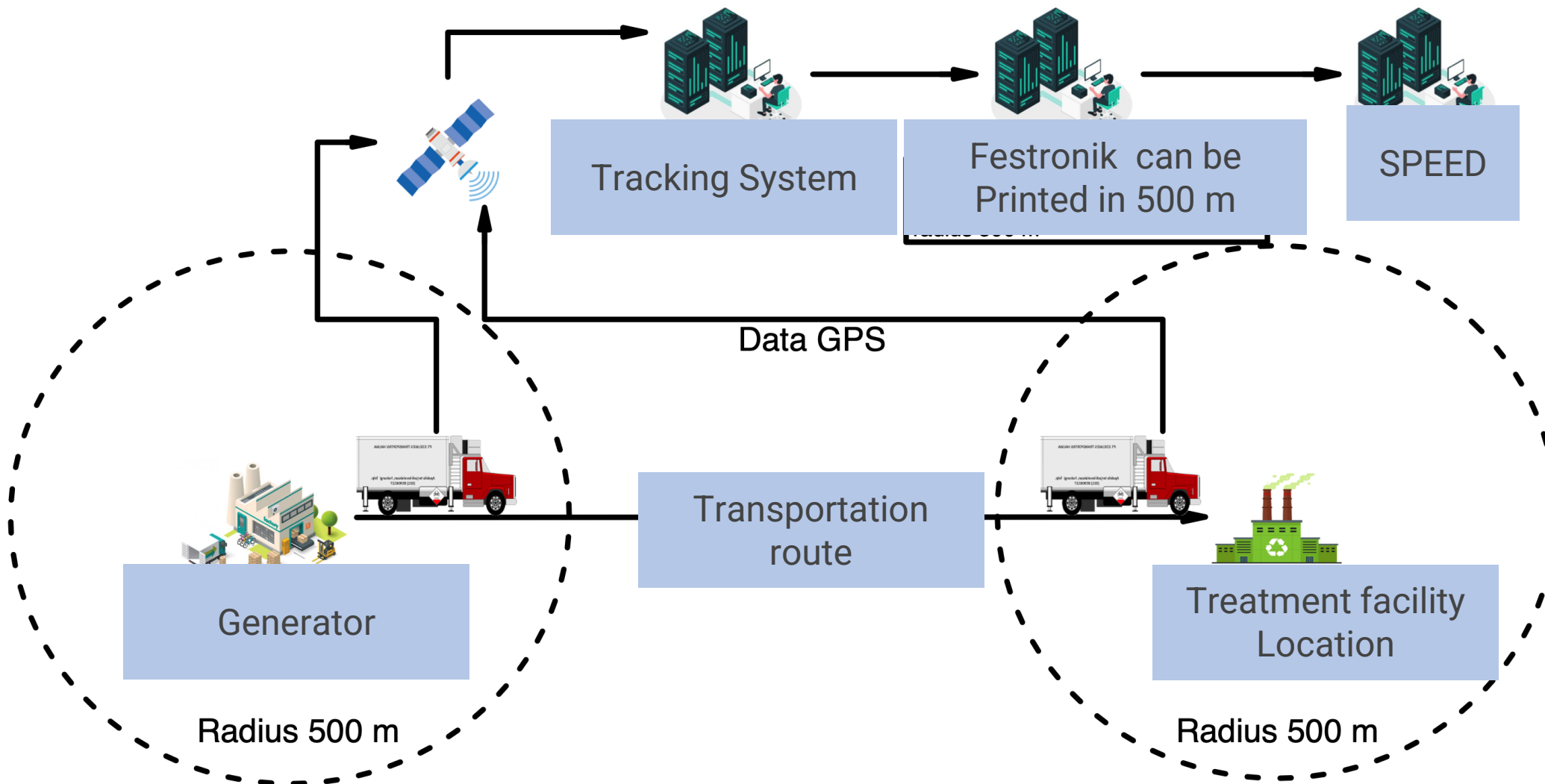
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DISTANCE BASED - FESTRONIK



DIREKTORAT PENGELOLAAN LIMBAH B3 DAN LIMBAH NON B3
DIREKTORAT JENDERAL PENGELOLAAN SAMPAH LIMBAH DAN B3
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN





- Increasing public awareness in handling electronic waste from household sources
- Develop guidelines for handling electronic waste synergistically
- Encourage the development of the electronic waste utilization industry
- Develop a funding mechanism for electronic waste utilization





THANK YOU