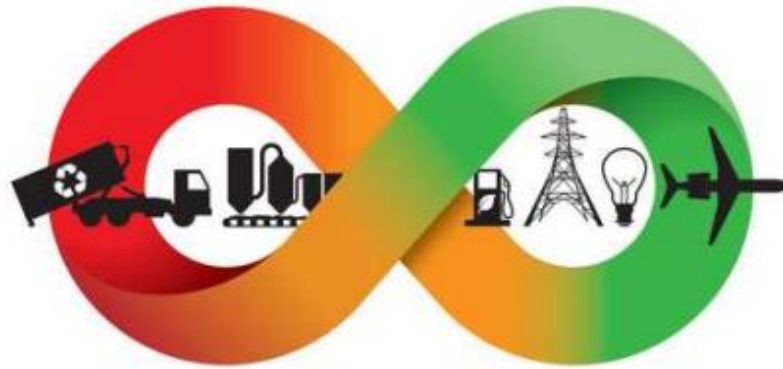
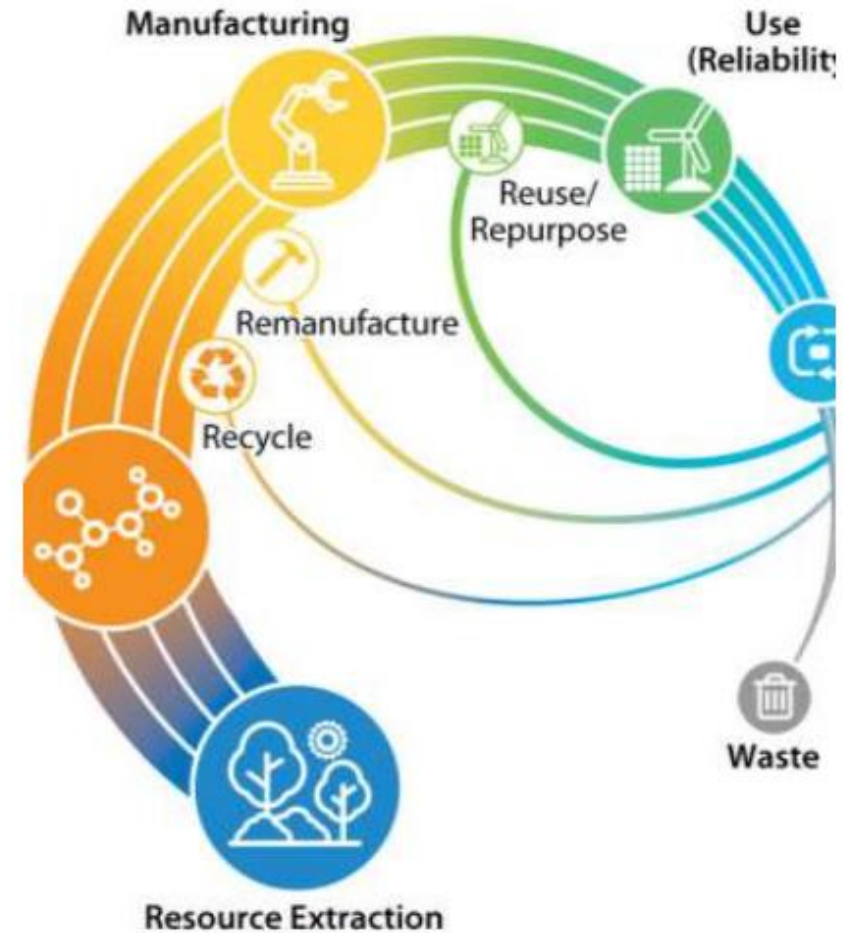


CIRCULAR ECONOMY



ENERGY FROM WASTE



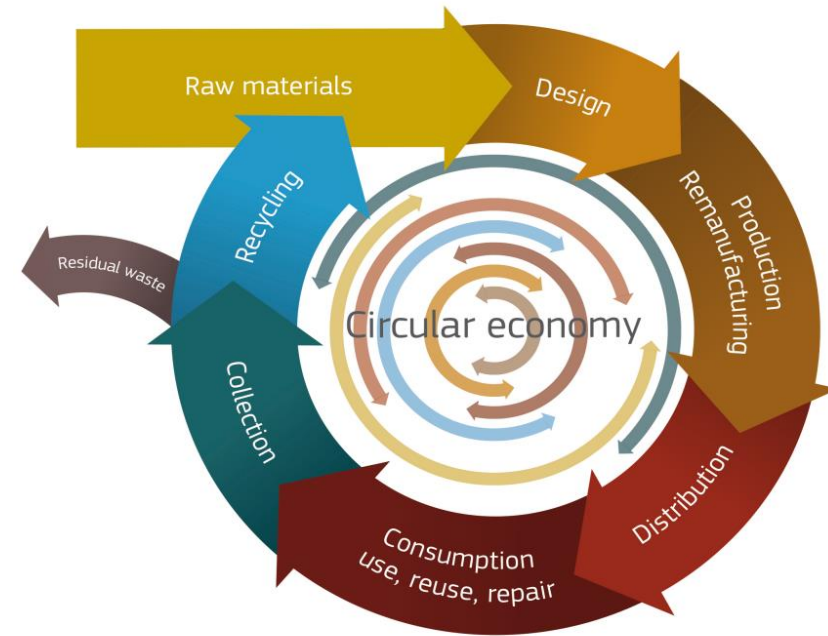
From a Linear Economy...



What is the Circular Economy?

- Maintaining the value of products, materials and resources in the economy for as long as possible while minimising waste generation
- To boost our economy and competitiveness with new business opportunities and innovative products and services.
- For economic, social and environmental gains

... to a Circular Economy



An economic system that focuses on reducing, reusing, recycling and recovering materials

What is the goal?

- **Economic sustainability through cost & resource savings, new jobs and business opportunities**
- **Environmental quality & social equity**

How can it be achieved?

- **On micro level e.g. through new business models, product design, behavior change**
- **On macro level e.g. through updated legislation, strategies, incentives**

TODAY'S ELECTRONIC

GADGETS,

TOMORROWS ELECTRONIC

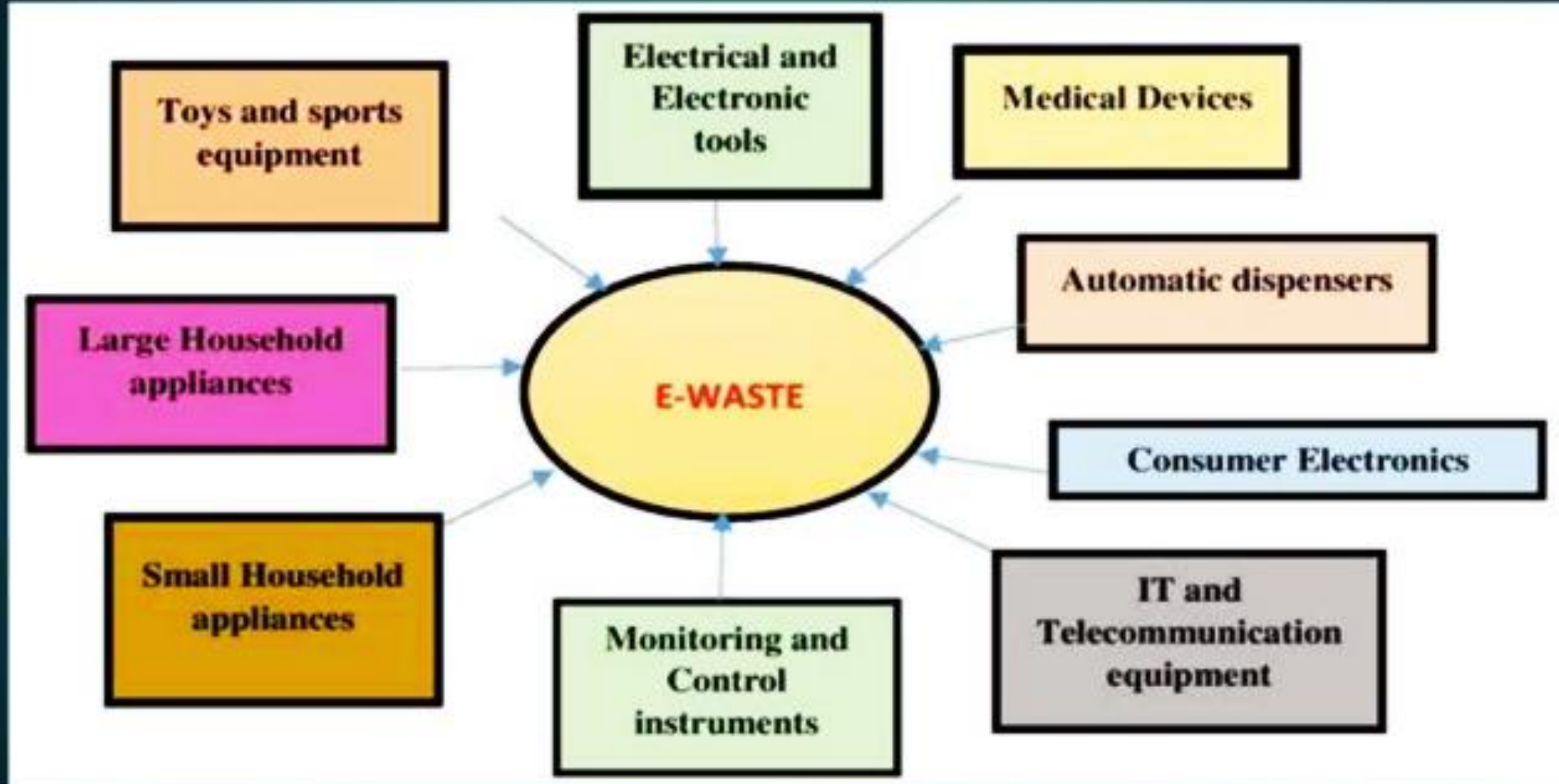
WASTE.....!!

E - WASTE

Electronic waste, mostly referred as e-waste refers to electrical and electronic equipment (EEE) that has been disposed of by the owner as waste and has no intention of re-using it. E-waste contains both hazardous and valuable elements.



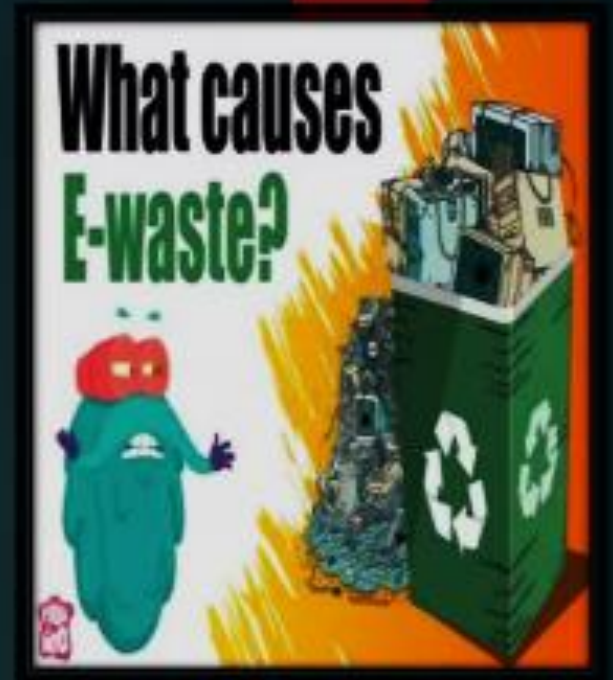
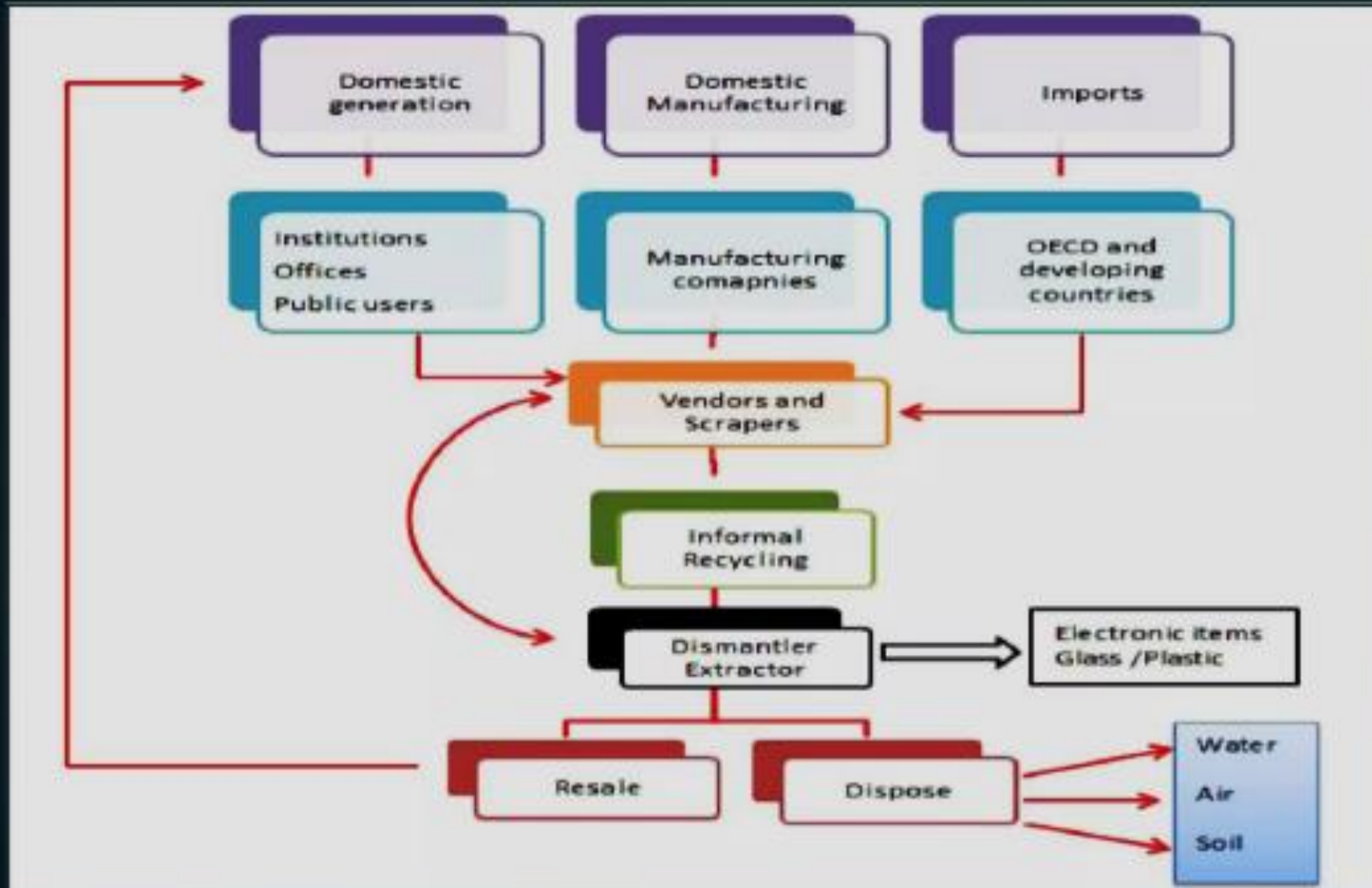
SOURCES OF E-WASTE



CLASSIFICATION OF E-WASTE



CAUSES OF E-WASTE



EFFECTS OF E-WASTE ON ENVIRONMENT



- Emissions from e-waste create environmental damage. Burning of e-waste can cause air-pollution.



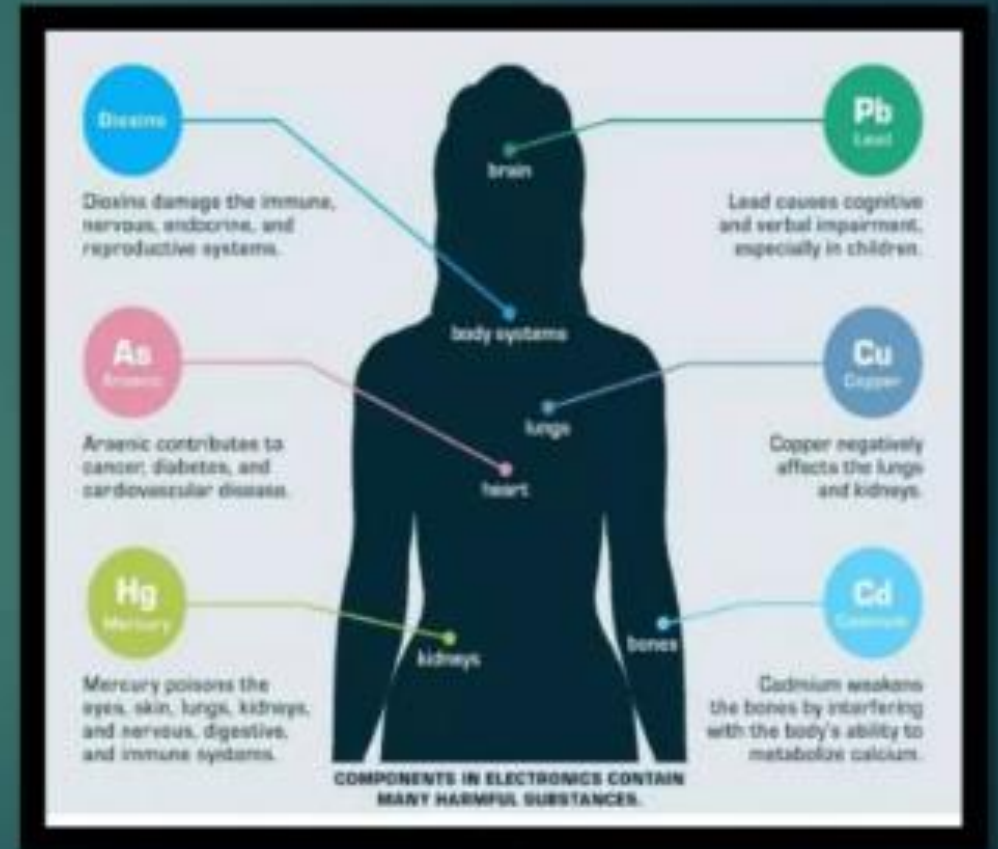
- E-waste dumping yards and nearby places are polluted and cause water pollution.



- E-waste are non-degradable and cause soil pollution and needs special type of treatment.

EFFECTS OF E-WASTE ON HUMAN HEALTH

- ▶ E-waste poses great dangers to human health and the surrounding.
- ▶ This equipment contains chemicals, hazardous elements and heavy metals.
- ▶ Additionally, e-waste workers are directly subjected to both physical and ergonomic risks.



EFFECTS ON HUMAN BODY

Elements	Effects on human body
Lead	Damage to central and peripheral nervous systems, kidney damage. Affects brain development of
Chromium	Asthmatic bronchitis, DNA damage.
Cadmium	Toxic irreversible effects on human health. Accumulates kidney and liver. Causes neural damage.
Mercury	Chronic damage to the brain.
Plastic problems	Burning produces dioxin. It causes reproductive and development system problems.

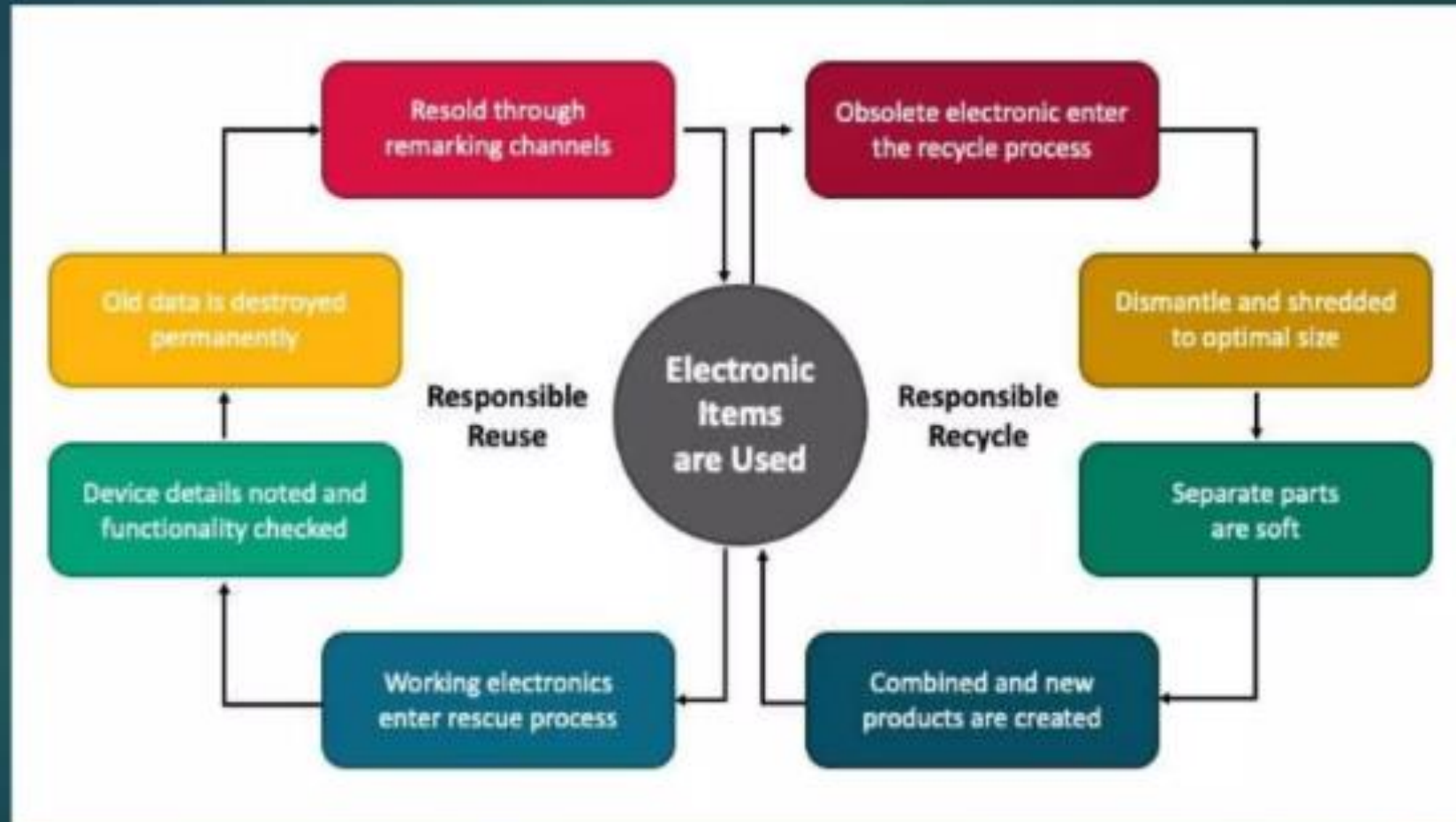
METHODS OF DISPOSAL OF E-WASTE

There are a few different ways to dispose of e-waste; each come with their own set of environmental issues.

- ▶ Landfilling
- ▶ Acid Bath
- ▶ Incineration
- ▶ Recycling
- ▶ Reuse



MANAGEMENT OF E-WASTE



RECYCLING OF E-WASTE

Improper disposal of e-waste hurts both the planet and our health.

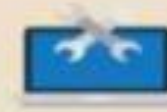
Follow the tips below to properly dispose of your e-waste.



Take to
recycling center
accepting
electronics



See if
someone can
repair your
device



Consider
buying
refurbished
devices



Keep using older
products instead
of buying the
newest tech
device



Sell or donate
your device

STATISTICS

According to statistics we are generating more than 40 million tons of e-waste a year and only 27% of this is recycled.

India is in the 5th position in the generation of e-waste.(Being the largest user of smart phones this ranks may increase in the future.)



CONCLUSION

In summary, the impact of e-waste on human health and the environment demands urgent action. Proper disposal and recycling are vital to prevent hazardous substance release. Collaborative efforts between governments, industries, and individuals are essential to ensure a safer and sustainable future for all.

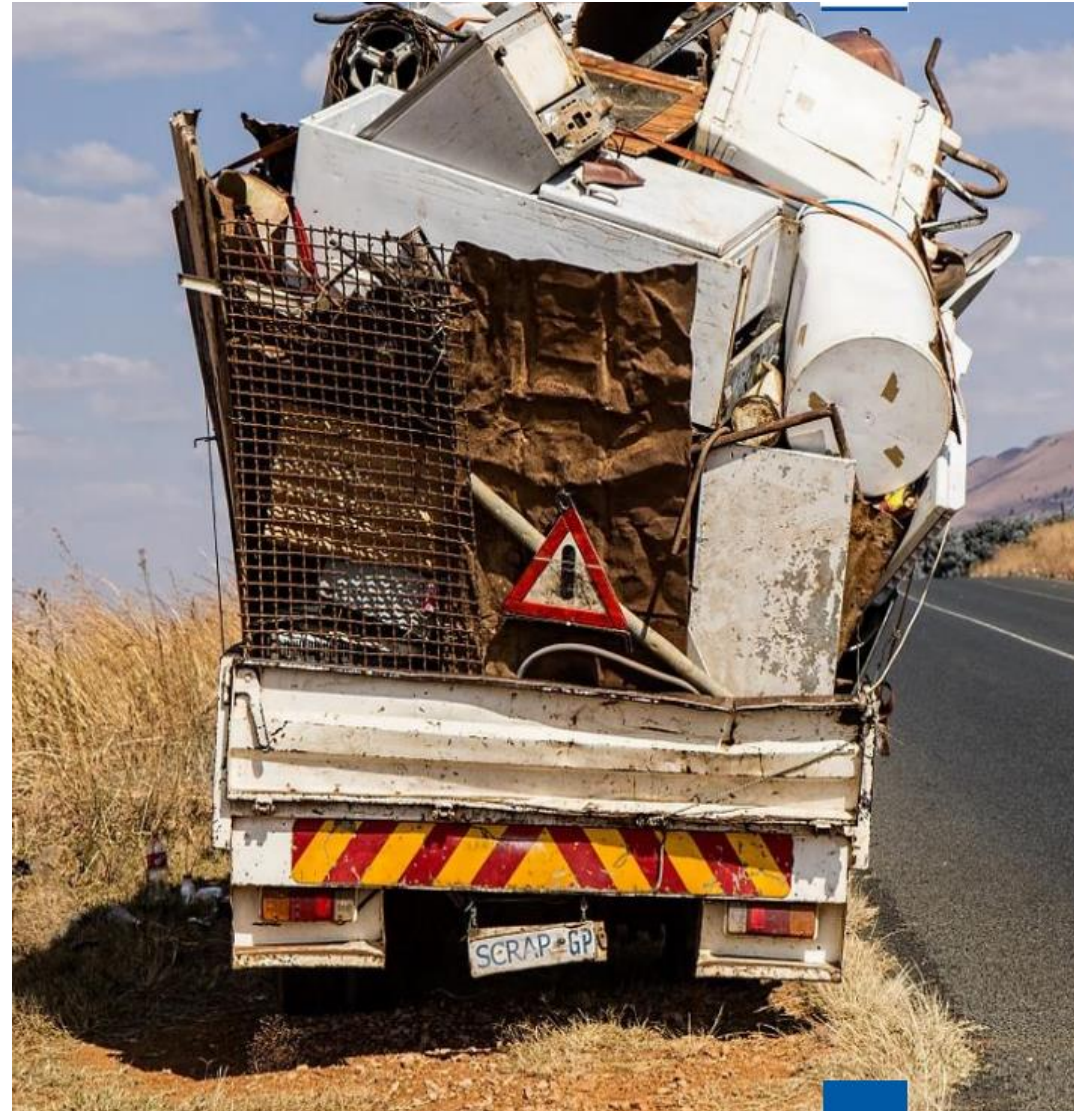




Reimagine

Reduce

Reuse



[Explaining the Circular Economy and How Society Can Re-think Progress | Animated Video Essay \(youtube.com\)](#)