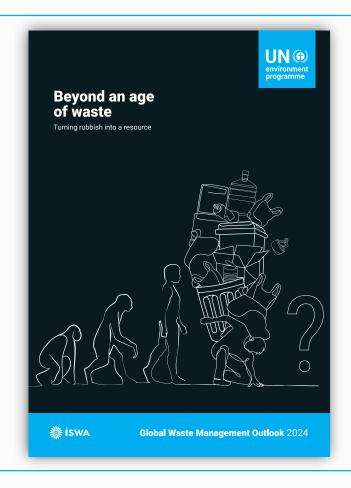


## The Global Waste Management Outlook 2024



- Developed in response to Resolution 2/7 from the second session of the United Nations Environment Assembly (UNEA-2)
- Reaffirmed in Resolution 4/7 from at UNEA-4
- GWMO 2024 provides:
  - updated assessment of global waste management and an analysis of data concerning municipal solid waste management
  - Forecasting waste's impact on society, the environment, and the global economy.
  - strategies for waste reduction and enhanced management



# The triple planetary crisis and waste

#### **Climate crisis**

The collection, processing and disposal of solid waste generates carbon dioxide (CO<sub>2</sub>) and other greenhouse gases and air pollutants, including methane (CH<sub>4</sub>) released from waste disposal sites and black carbon emitted from open waste burning.

#### **Pollution**

Long-term pollution by waste, one of the main drivers of biodiversity loss, puts the integrity of ecosystems at risk.

For example, waste disposed of on land can cause long-term pollution of freshwater sources by pathogens, heavy metals, endocrine-disrupting chemicals and other hazardous compounds.

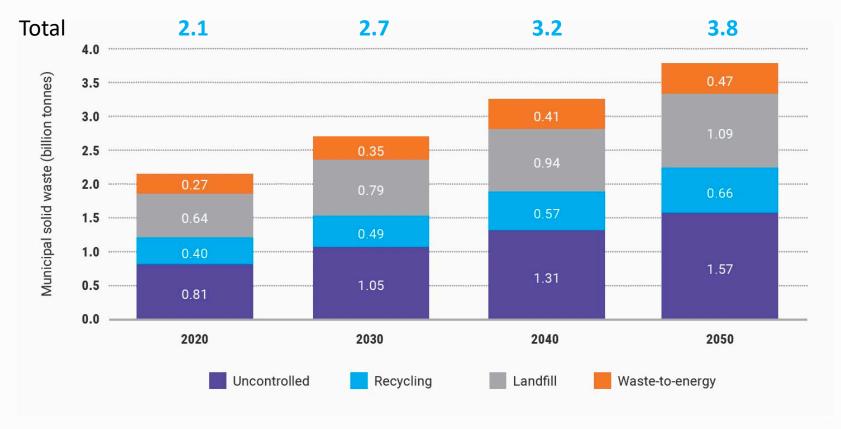
#### **Biodiversity loss**

Open burning of waste releases Unintentional Persistent Organic Pollutants (UPOS),

"forever chemicals"
that can be transported
long distances in the air,
concentrate in the food
chain, and have significant
negative effects on wildlife
and human health including
cancer and infertility.



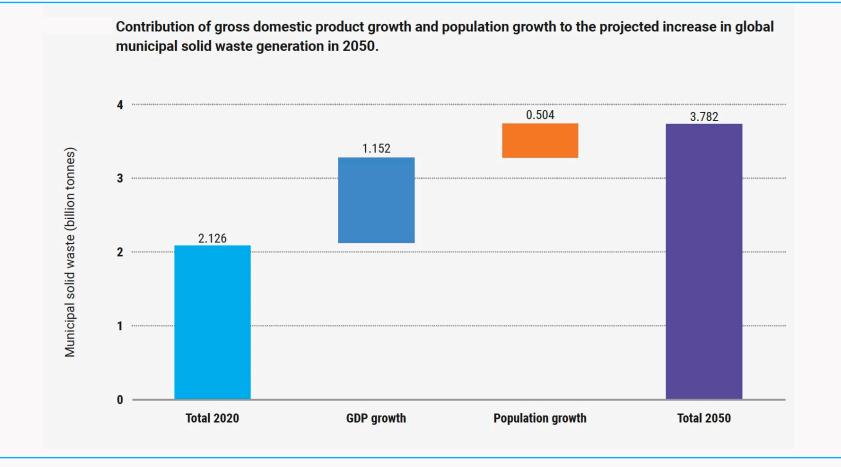
## Projected global municipal solid waste destinations (baseline: 2020)



In a bussiness-as-usual scenario we will end up with **1.57 billion tonnes** annually being openly dumped and/or burned



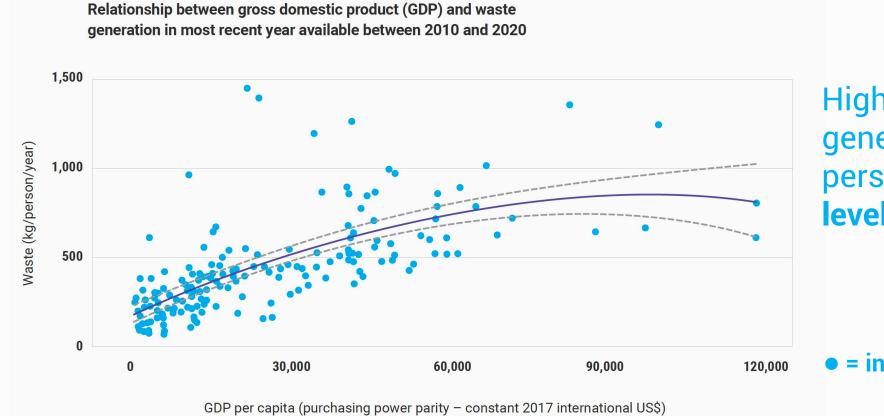
## Main cause for projected growth in waste



Increased consumption through higher income has more than double the impact on waste generation compared to increase in population



## Economic growth and waste generation remain closely linked



Higher income countries generate more waste per person – unsustainable levels of resource use

= individual country



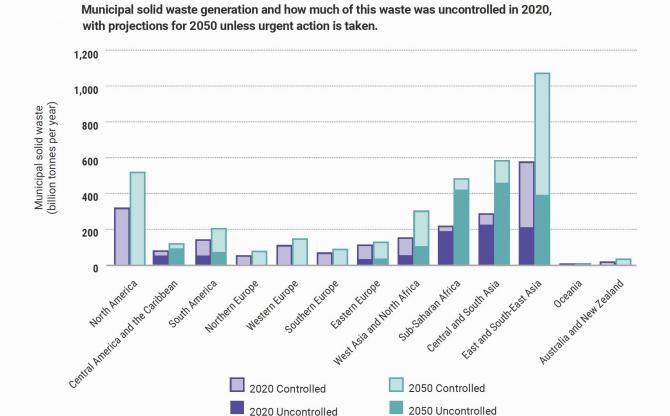


## Waste destination in 2020: controlled vs uncontrolled





## Large projected increase in dumping and burning by 2050



Fast-growing economies that still rely on open burning and dumping have the largest projected waste growth – unsustainable levels of leakage and pollution.



## The three scenarios and their assumptions

# Waste Management as Usual (WMU)

Practices continue as today,
with waste generation
projected to grow fastest in
regions without adequate
waste management capacity.

### Waste Under Control (WUC)

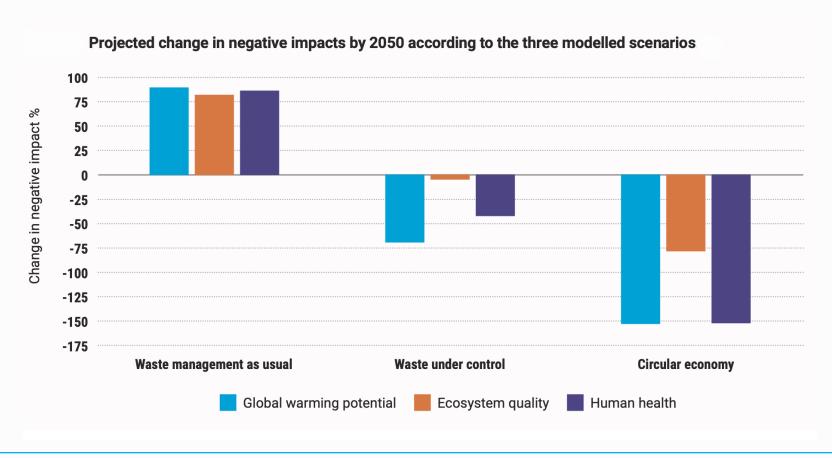
A midway point, with some progress made towards preventing waste and improving its management.

# Circular Economy (CE)

Waste generation decoupled from economic growth, with the global MSW recycling rate reaching 60 per cent and the remainder managed safely.



## Increase in negative impact by 2050



# Waste Management as Usual:

Negative impacts almost double by 2050

### **Waste Under Control:**

Small net improvements are happening

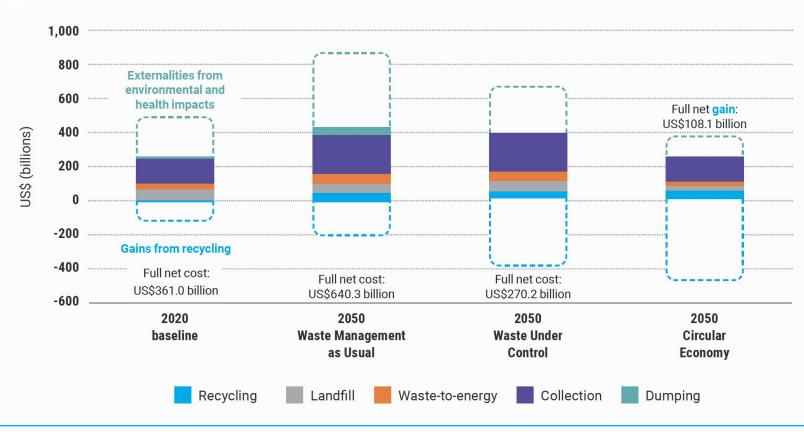
## **Circular Economy:**

Improvements even on 2020 baseline



## Projected costs of the three scenarios







# Why is progress so slow?



- Health and climate impacts are overlooked
- Women and informal workers are neglected
- Enforcement and penalties are weak
- Polluters are not paying... or changing



## Three waste priorities

01

To prevent runaway
negative impacts from
municipal solid waste,
actions must be taken
urgently to halt waste
growth and to shift towards
zero waste and circular
economy models.

02

Municipal solid waste management must be prioritised, in order to provide all communities with affordable services and end the harmful and widespread practice of open dumping and waste burning.

03

to be motivated to provide goods and services in ways that avoid waste generation, while the most problematic and polluting materials should be phased out.



## Recommended pathways



- Harness data and digitalisation.
- Introduce mandatory schemes to ensure that polluters pay.
- Adopt inclusive approaches to engage citizens.
- Integrate the principles of a **just transition** into decision-making.
- Build national expertise.







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