

Main Messages

- Waste generation is anticipated to increase by 70% by 2050 with Sub-Saharan Africa and South Asia growing the fastest (35% of global waste by 2050)
- One-quarter of global plastic waste is coming from East Asia and the Pacific with ocean waste primarily coming from 5 countries in the region. A circular approach is necessary for sustainable development
- Nearly 50% of solid waste operations involve the private sector, nonprofits or civil society and there is further opportunity to engage



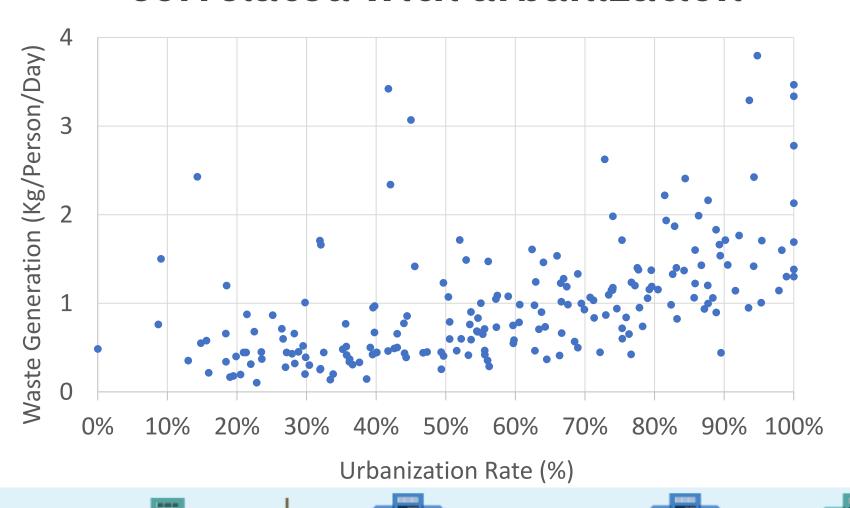


Waste is expected to increase by 70% by 2050

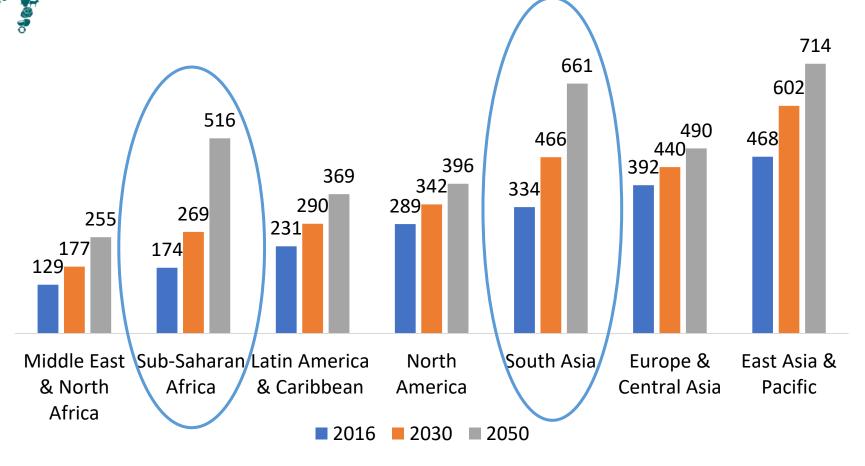
2016: 2.01 billion tonnes

2050: 3.40 billion tonnes

Waste generation is positively correlated with urbanization

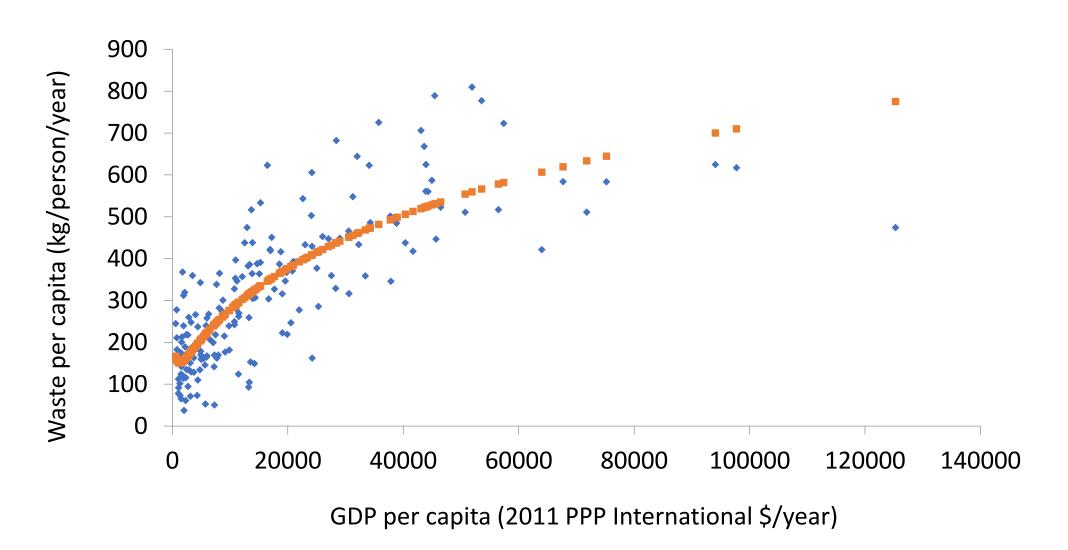




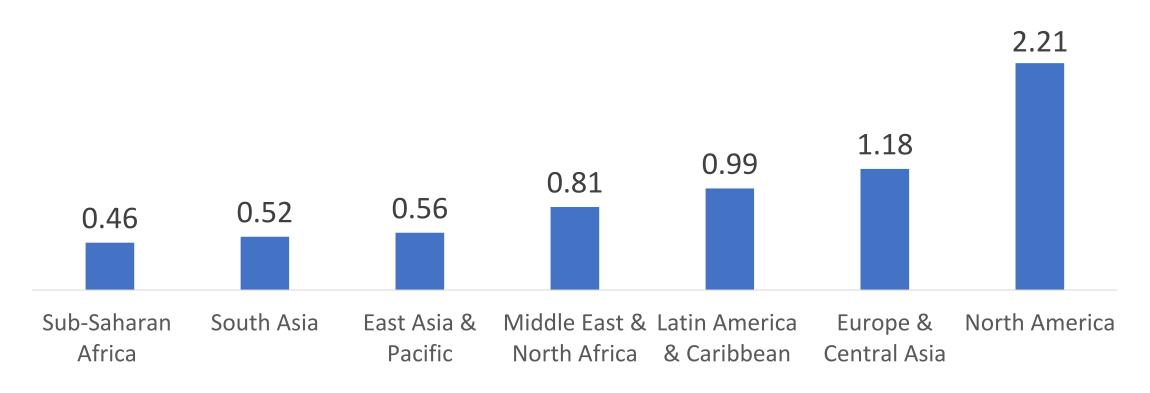


Projected Waste Generation Millions of tonnes/year

Per capita waste generation increases with income



High income countries generate 34% of the world's waste with 16% of the global population



Projected Waste Generation (kg/capita/day)

Average global waste generation is 0.74 kg/capita/day





Plastic waste generation is growing rapidly

242 million tonnes





24 trillion plastic bottles

4.8 million Olympic-sized swimming pools





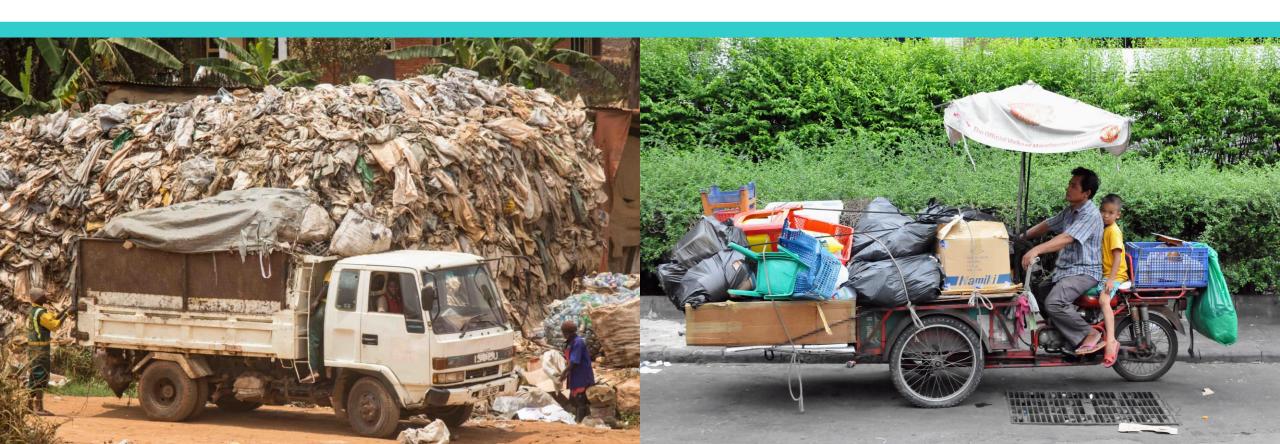
Three regions account for 60% of plastic waste generation



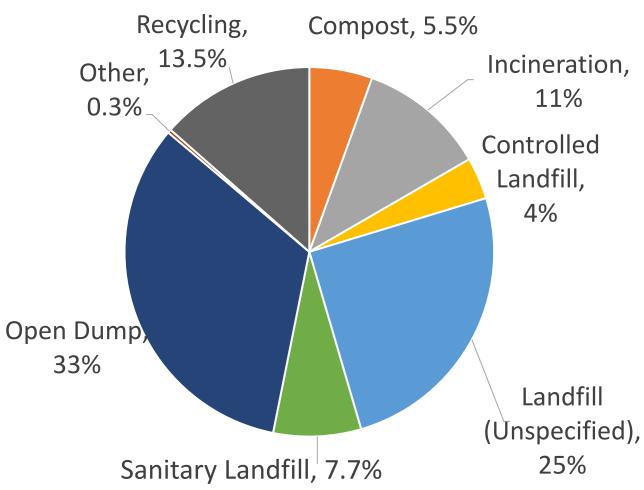




Low-income countries collect only 39% of waste







Solid waste management contributes to 5% of global emissions (excluding transportation)

2016: 1.6 billion tonnes CO₂-equivalent GHG emissions

2050: 2.6 billion tonnes CO₂-equivalent GHG emissions





Waste is overwhelming a predominantly local government responsibility





>50% of services are operated by public entities & ~1/3 involve a public-private partnership



In low-income countries waste management consumes ~20% of municipal budgets

High income countries: >\$100/tonne

Lower-income countries: ~\$35/tonne



The poor are most affected by inadequate waste management





Scale of informality is significant, with at least 1% of urban population earning informally through waste sector

In Mumbai, Jakarta, and Buenos Aires, economic impact is estimated to be more than \$880 M/year

Studies have shown challenges include

lack of access to quality waste streams (73%), unstable prices (87%), & lack of negotiation power (61%) across 5 cities in Africa, Asia and Latin America

harassment (80%), social exclusion (97%), poor treatment by local authorities (84%), & regulations & bylaws regarding waste (89%) in Bogota and Durban



Models to improve informal livelihoods in waste sector:

- 1)Formalization and integration of waste pickers
 - 2) Strengthening of the recycling value chain
- 3) Consideration of alternative employment opportunities



Major investment is needed



- 1) Focus on Sub-Saharan
 Africa and South Asia
 which account for nearly
 half of the growth in waste
 by 2050
- 2) Prioritize 5 countries in Asia to address bulk of marine litter problem





Engage partners

- 3) Adopt regulations & incentives to attract financing and the right partners—private sector, nonprofits, informal sector, or civil society
- 4) Work with manufacturers, governments, operators, & citizens to support a circular economy



