



Cairo University

Integrated Waste Management

Reduce, Reuse & Recycle

Greeny Green 0.3

Teaching Assistance Kholoud Yahia
Faculty of Regional & Urban Planning
Cairo University

AIESEC 



RECYCLE GO GREEN
INFOGRAPHICS

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Download from
Dreamstime.com



GREENY GREEN 4.0

10 JAN - 22 FEB 2019



EP Fee RM550
+
Living cost: RM2500



Accommodation
Provided
Covered (RM50
utilities)



Airport pickup and
departure support
covered



Field visit
covered



18 slots available

Job Description

1. Train by learning partner
2. Conduct Workshop
3. Facilitate students to take action
in their own school.
4. Facilitator of Green Camp



This project has widened my view towards the people, environment and world. I have become more open-minded embrace different cultures. It provides a platform for me to improve my mistakes and be better version of myself.

-Lee Hui Jun, China



13 CLIMATE ACTION



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The Solid Waste Management Hierarchy

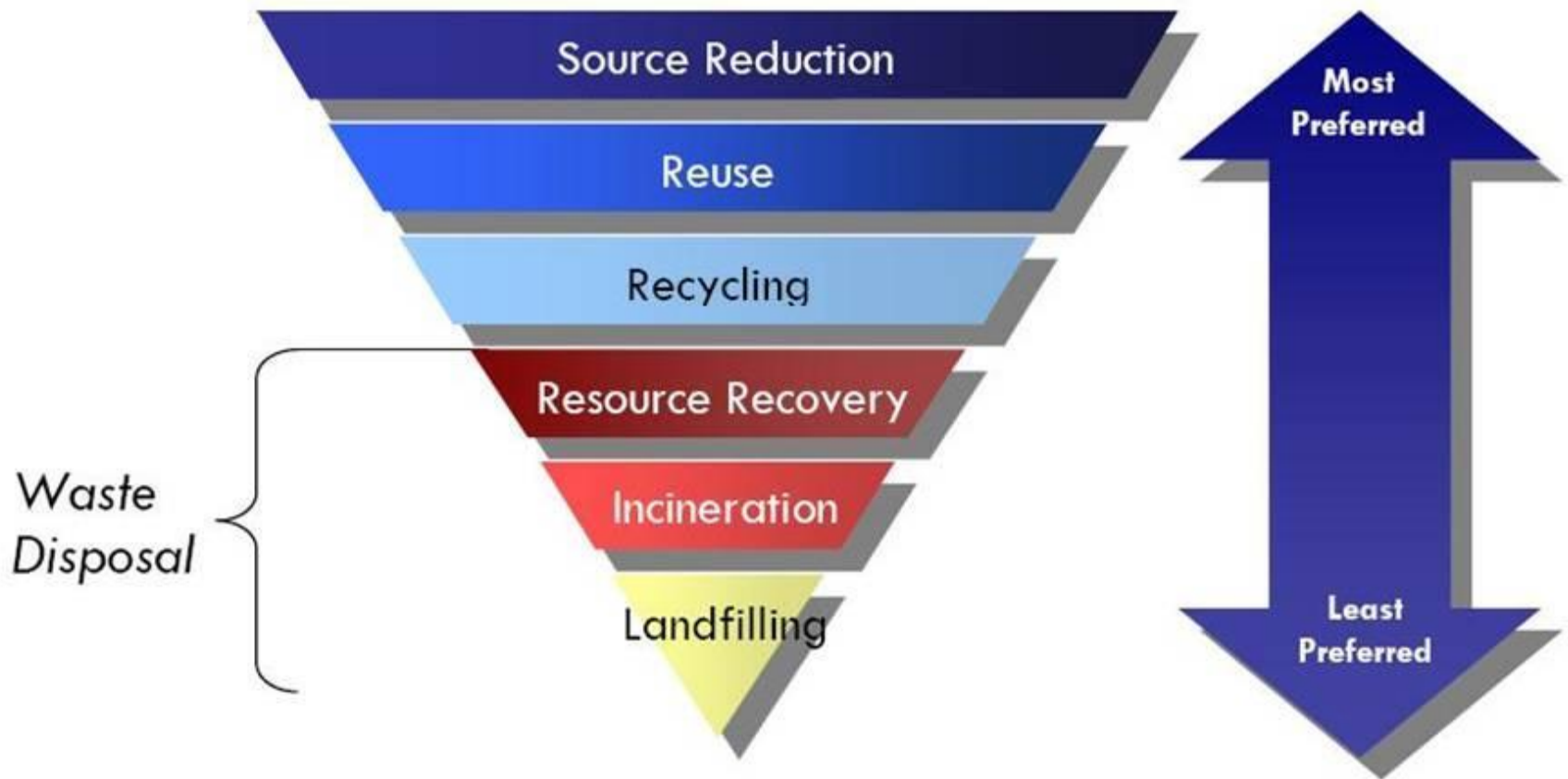


Image: Fairfax County Solid Waste Management

Integrated Solid Waste Management:

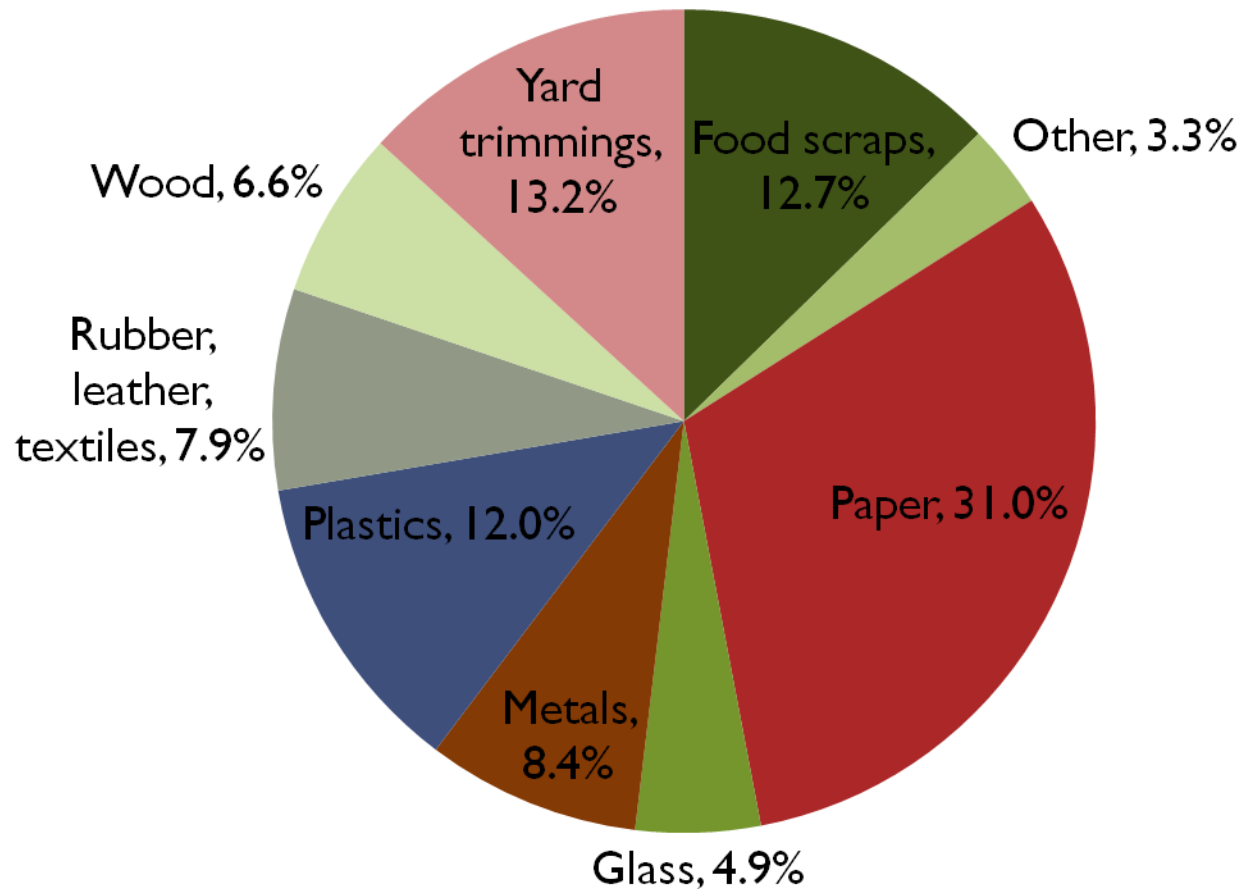
- A set of plans to manage solid waste
- Adopted by many governments
- A means of achieving sustainability

Why Manage Waste?

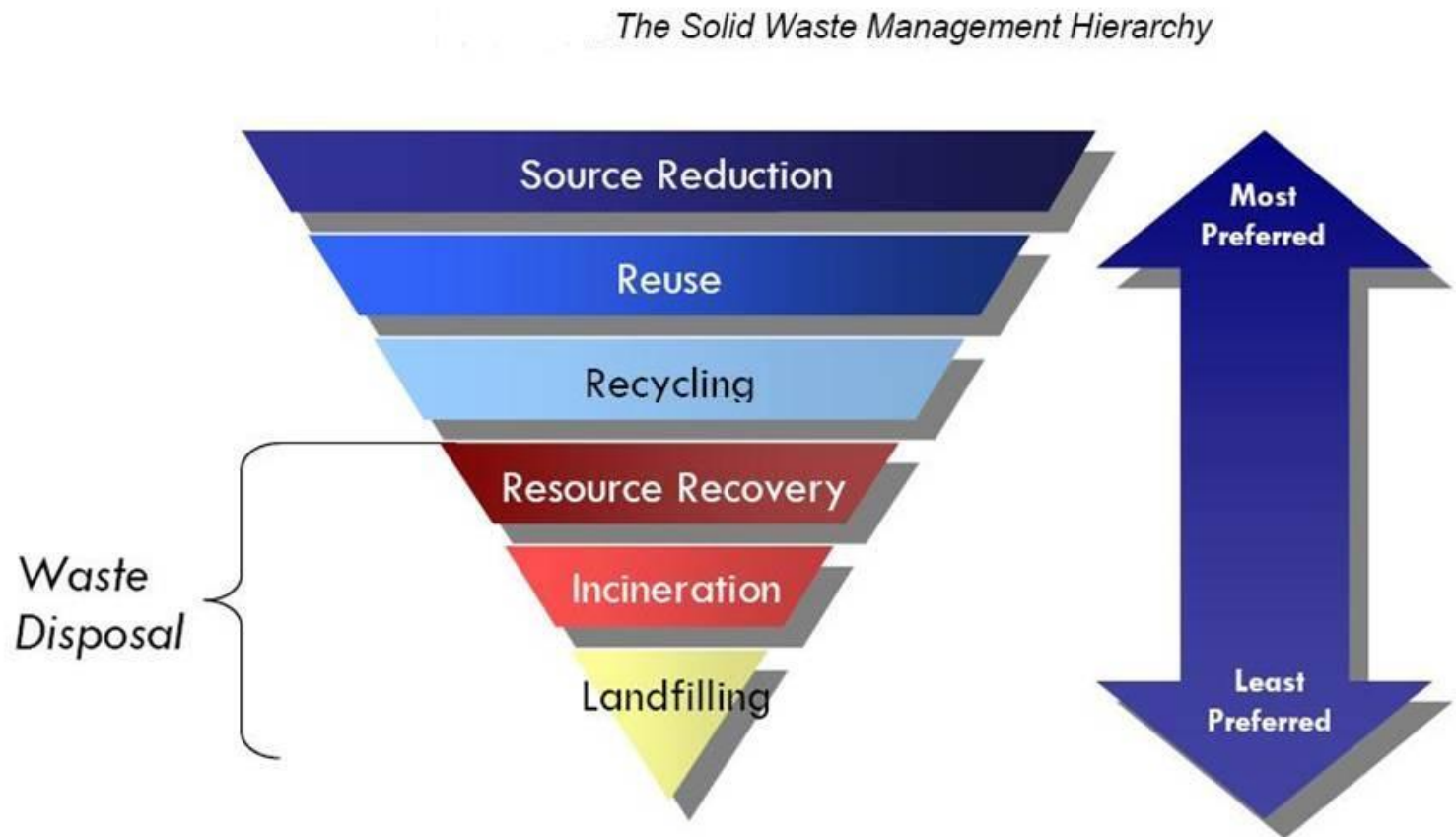
- Conserves resources & energy
- Reduces water & air pollution
- Saves landfill space
- Waste = Food
 - In nature there is no waste
 - Cradle to cradle design
 - Product components are recyclable or biodegradable
 - Extended Producer Responsibility (EPR) or Product Stewardship



Total US MSW Generation 2008 (by material) EPA



Source Reduction

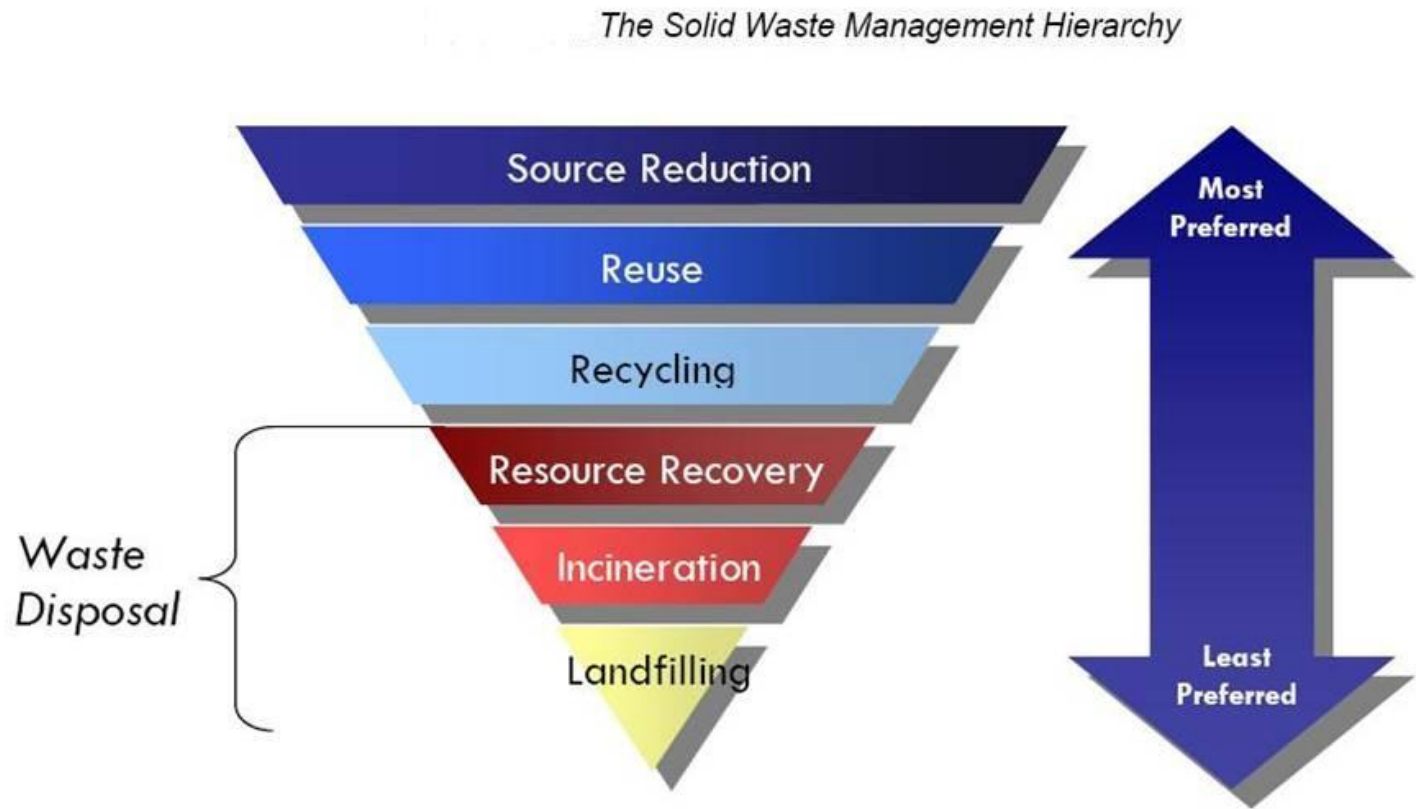


Source Reduction or “Reduce”

- Preferred method: Prevents the generation of waste in the first place
- Manufacturer: Decrease materials/energy used during manufacturing/distribution
- Consumer: Purchase items with minimal packaging, avoid disposable products
- Includes backyard composting



Reuse



Reuse



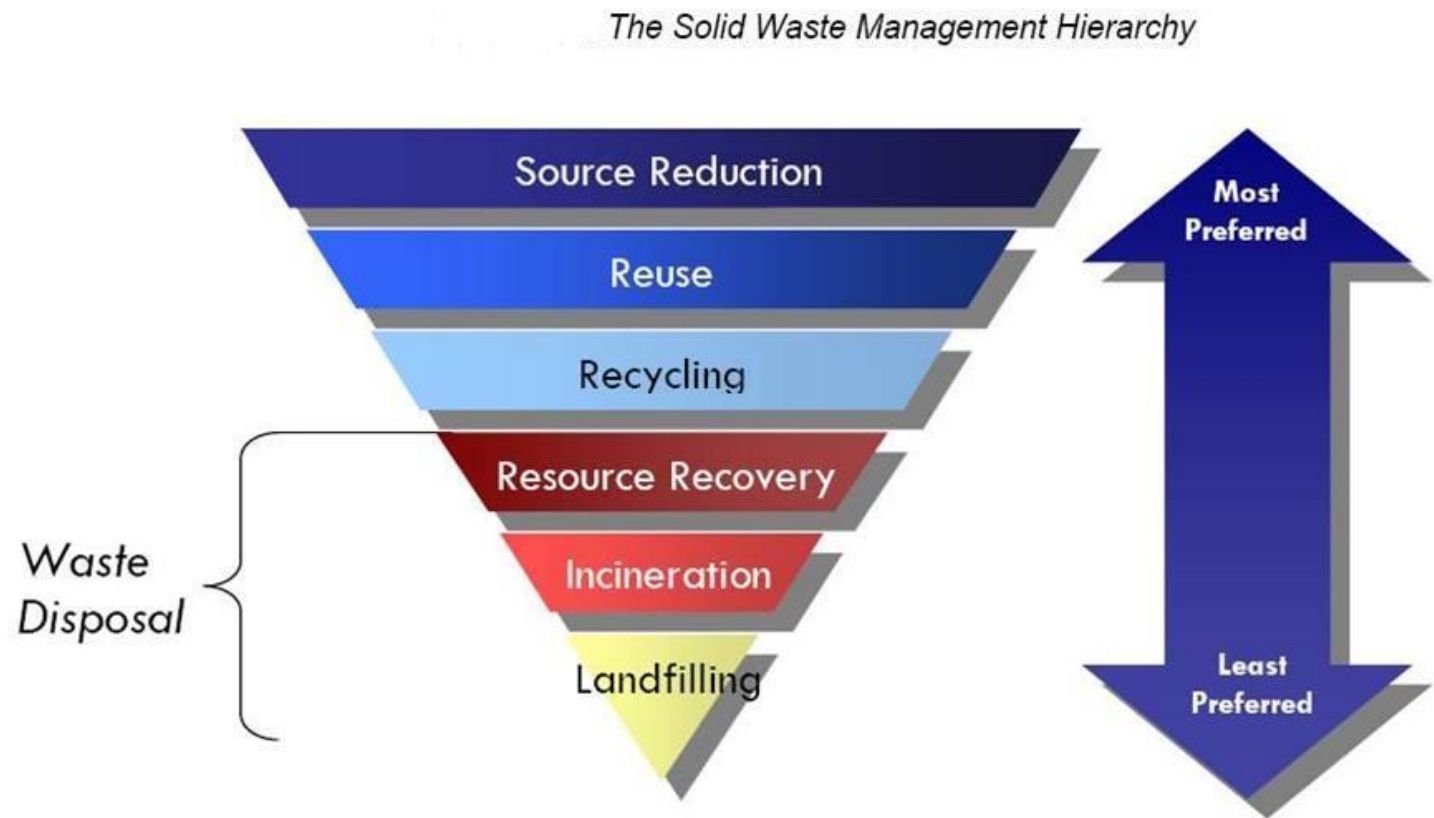
- Prolonging a product's usable life
- Repairing items, selling them or donating them to charity
- Using durable rather than disposable items (i.e. reusable shopping bags, metal spoons)
- Preferable to recycling because item does not need to be collected/reprocessed

Metal vs. Plastic Spoon

- Cost to Purchase:
 - 50 cents for metal vs. one cent for plastic
- Cost to Produce & Maintain:
 - Resources (metal, petroleum, water, chemicals, etc.)
 - Energy used (in extraction, manufacturing, transportation)
- External Costs:
 - Pollution (during extraction, manufacturing, transportation)
 - Disposal (landfill, incineration, litter clean-up)
- Savings from repetitive use of metal spoon:
 - Priceless!



Recycle



Recycle

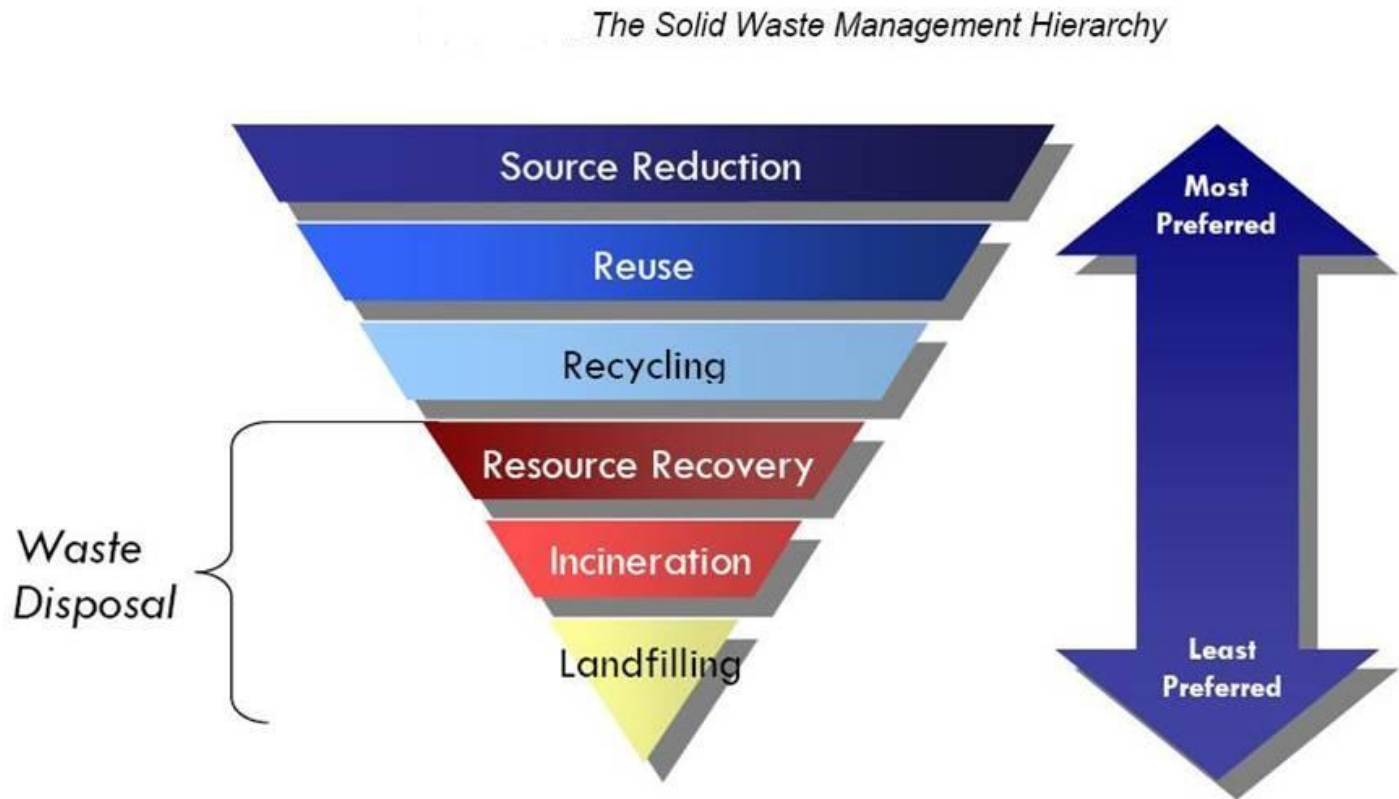


- Taking a product at the end of its useful life and using all or part of it to make another product
- Benefits: Saves energy, natural resources, and landfill space, reduces pollution, creates jobs and useful products
- Requires collection, processing, remanufacturing and purchase (Close the Loop!)
- EPA estimates 75% of our waste is recyclable

Think Green



Waste Disposal Last in the Hierarchy



Waste Disposal

Resource Recovery

- Resource Recovery (AKA Waste-to-Energy): Waste is burned to produce energy
- Preferred to landfilling – reduces bulk of municipal waste to ash and provides energy
- Downsides:
 - Some items may be difficult to burn or cause potentially harmful emissions
 - Strict regulatory restrictions and high environmental and economic costs



Waste Disposal

Incineration & Landfilling

- Strict regulatory restrictions and high environmental and economic costs
- Items barely decompose in a modern landfill
- Landfills face capacity restrictions
- NIMBY syndrome



The Solid Waste Management Hierarchy

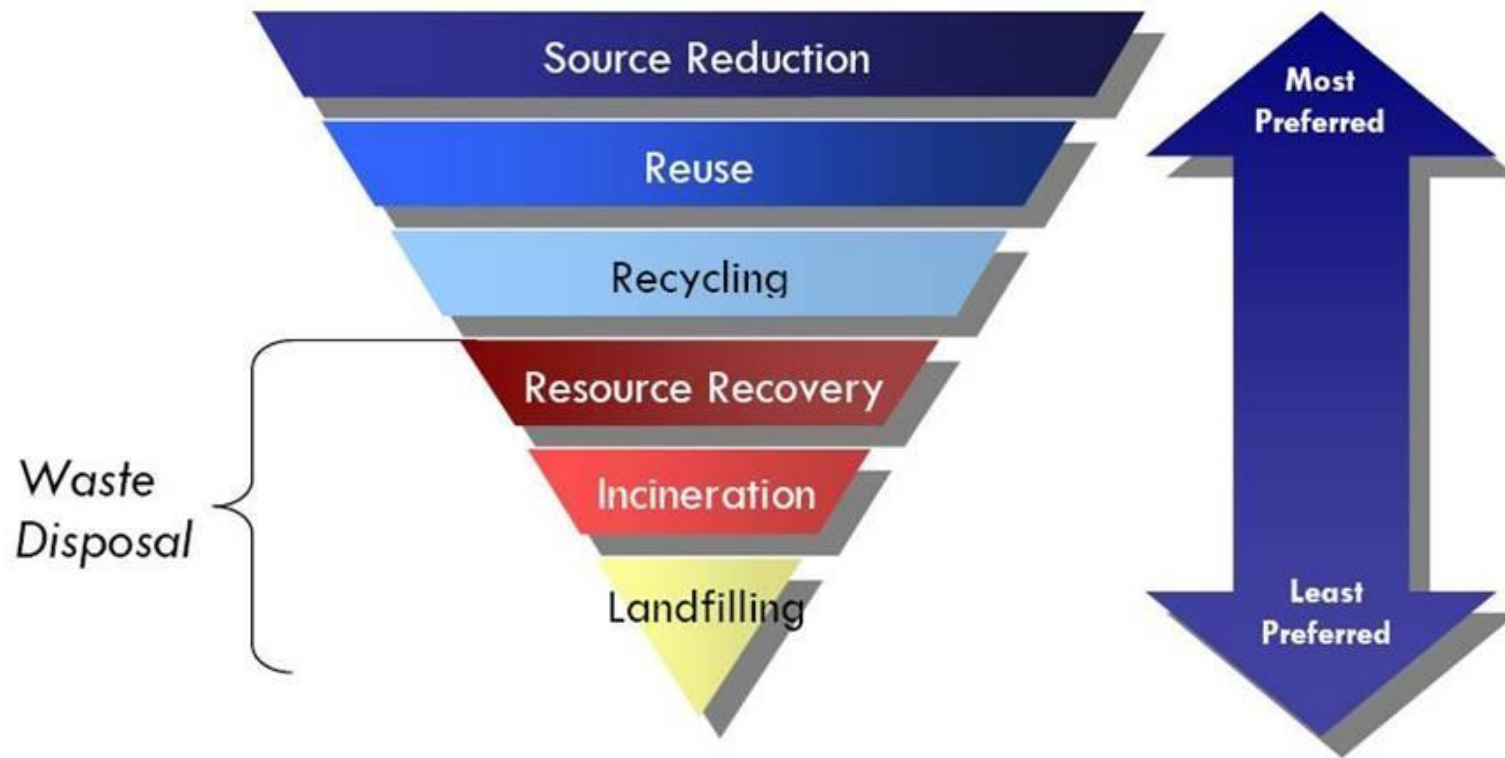


Image: Fairfax County Solid Waste Management

- Resource depletion, pollution and landfills are not the legacy we want to leave to future generations
- Recycling/reuse saves precious resources & energy
- Best solution is to reduce waste in the first place

Urban Farming

