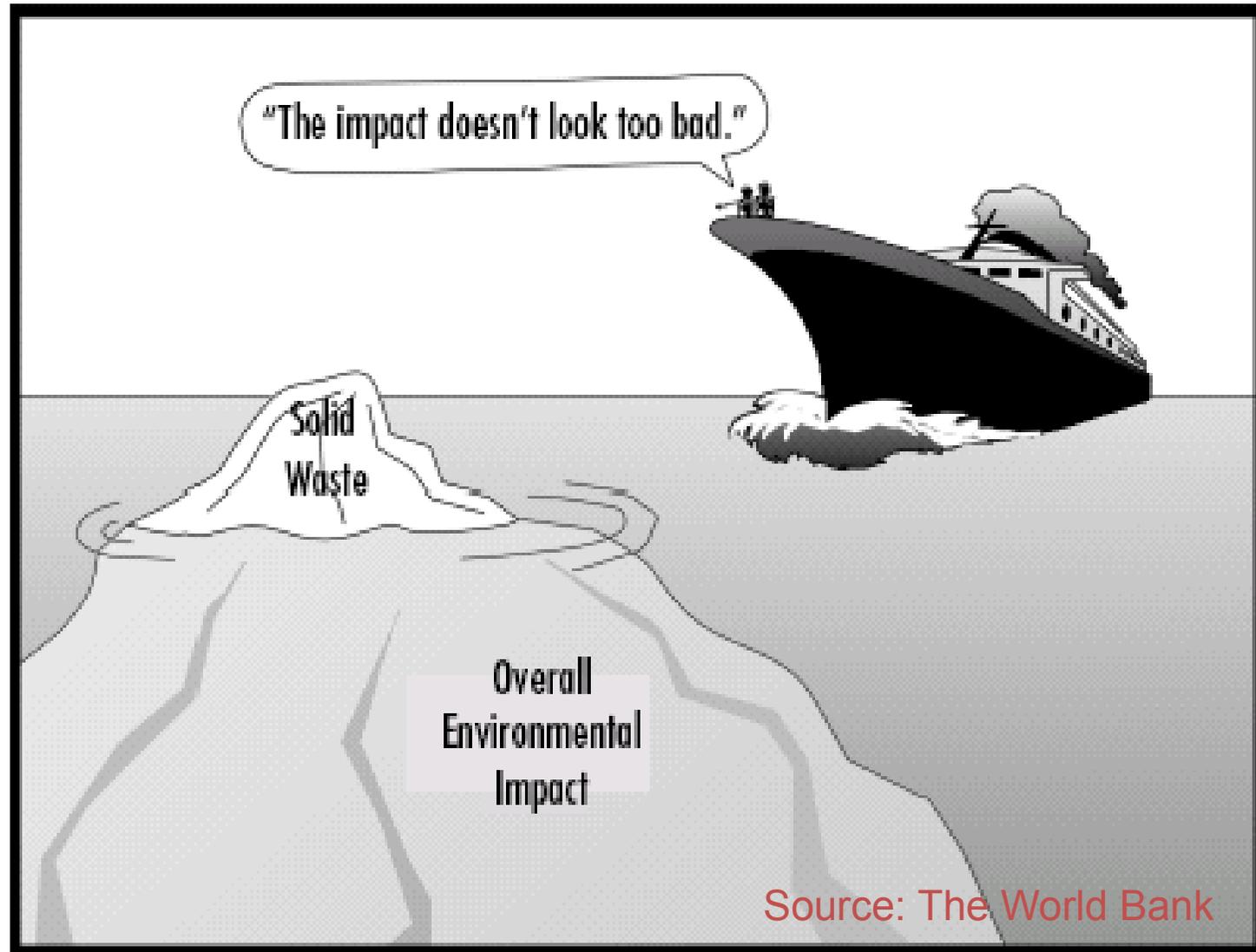




WASTE MANAGEMENT FOR AGENDA 2030

SUSTAINABLE DEVELOPMENT IN CITIES



Source: The World Bank



OVERVIEW

- **Agenda 2030**
 - Sustainable Development Goals
 - Technology Facilitation
 - Financing for Development
- **Sustainable Development in Cities**
- **Holistic Waste Management**
- **UNEP IETC support**

AGENDA 2030 - INTRODUCTION



- Over 150 Heads of State & Government are confirmed to attend the [UN Sustainable Development Summit](#) in New York from 25-27 September 2015 for the adoption of an ambitious, bold and universal sustainable development agenda that will end poverty and promote prosperity by 2030, while addressing the environment.
- The summit outcome document, entitled [“Transforming our World: The 2030 Agenda for Sustainable Development,”](#) was agreed on by the 193 Member States of the United Nations, and includes 17 Sustainable Development Goals.
- This momentous agenda will serve as the launch pad for action by the international community and by national governments to promote shared prosperity and well-being for all over the next 15 years.
- The agenda is unique in that it calls for action by all countries, poor, rich and middle-income. It recognizes that ending poverty must go hand-in-hand with a plan that builds economic growth and addresses a range of social needs.
- The new sustainable development agenda builds on the successful outcome of the [Third International Conference on Financing for Development](#) that recently concluded in Addis Ababa, Ethiopia.
- There is a positive affect the negotiations on a new meaningful and universal climate agreement in Paris this December ([21st Session of the Conference of Parties \(COP\)](#)).



AGENDA 2030 – SUSTAINABLE DEVELOPMENT GOALS





AGENDA 2030 – KEY ELEMENTS

The Goals will stimulate action over the next 15 years in 5 areas of critical importance:

People, Planet, Prosperity, Peace & Partnership.





TECHNOLOGY FACILITATION

Paragraph 123 of the Addis Ababa Agenda Action and Paragraph 70 of the Post-2015 Development Agenda Outcome Document called for establishing a technology facilitation mechanism in order to support the sustainable development goals.

The mechanism will comprise of :

- a United Nations inter-agency task team on science, technology and innovation for the sustainable development goals
- a collaborative annual multi-stakeholder forum on science, technology and innovation (STI) for the sustainable development goals
- an online platform as a gateway for information on existing STI initiatives, mechanisms and programs.



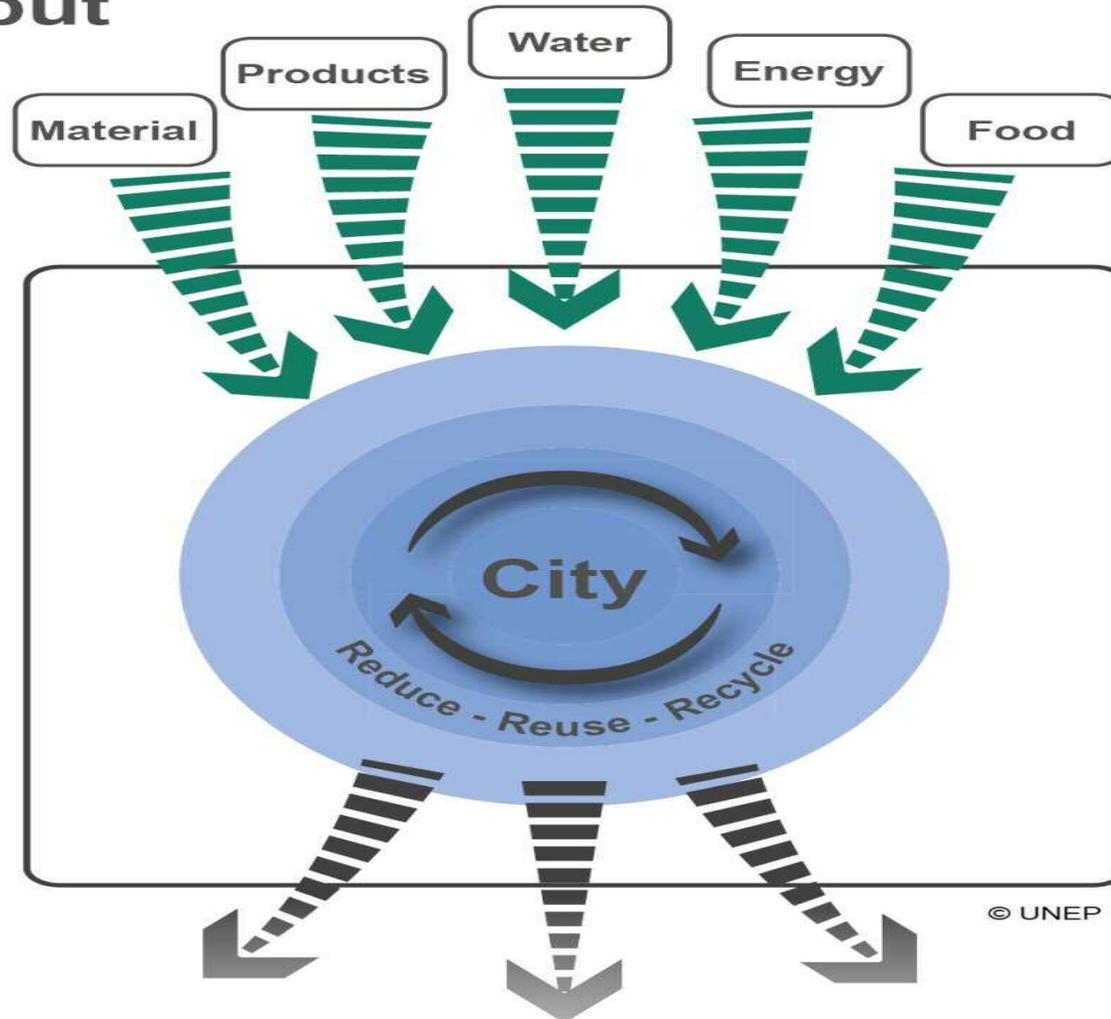
FINANCING FOR DEVELOPMENT

- The Addis Ababa Action Agenda (AAAA) provides:
- **A comprehensive set of policy actions** by Member States, with a package of over 100 concrete measures to finance sustainable development, transform the global economy and achieve the Sustainable Development Goals.
- **A new global framework for financing** sustainable development that aligns all financing flows and policies with economic, social and environmental priorities and ensures that financing is stable and sustainable.



SUSTAINABLE DEVELOPMENT IN CITIES

Input



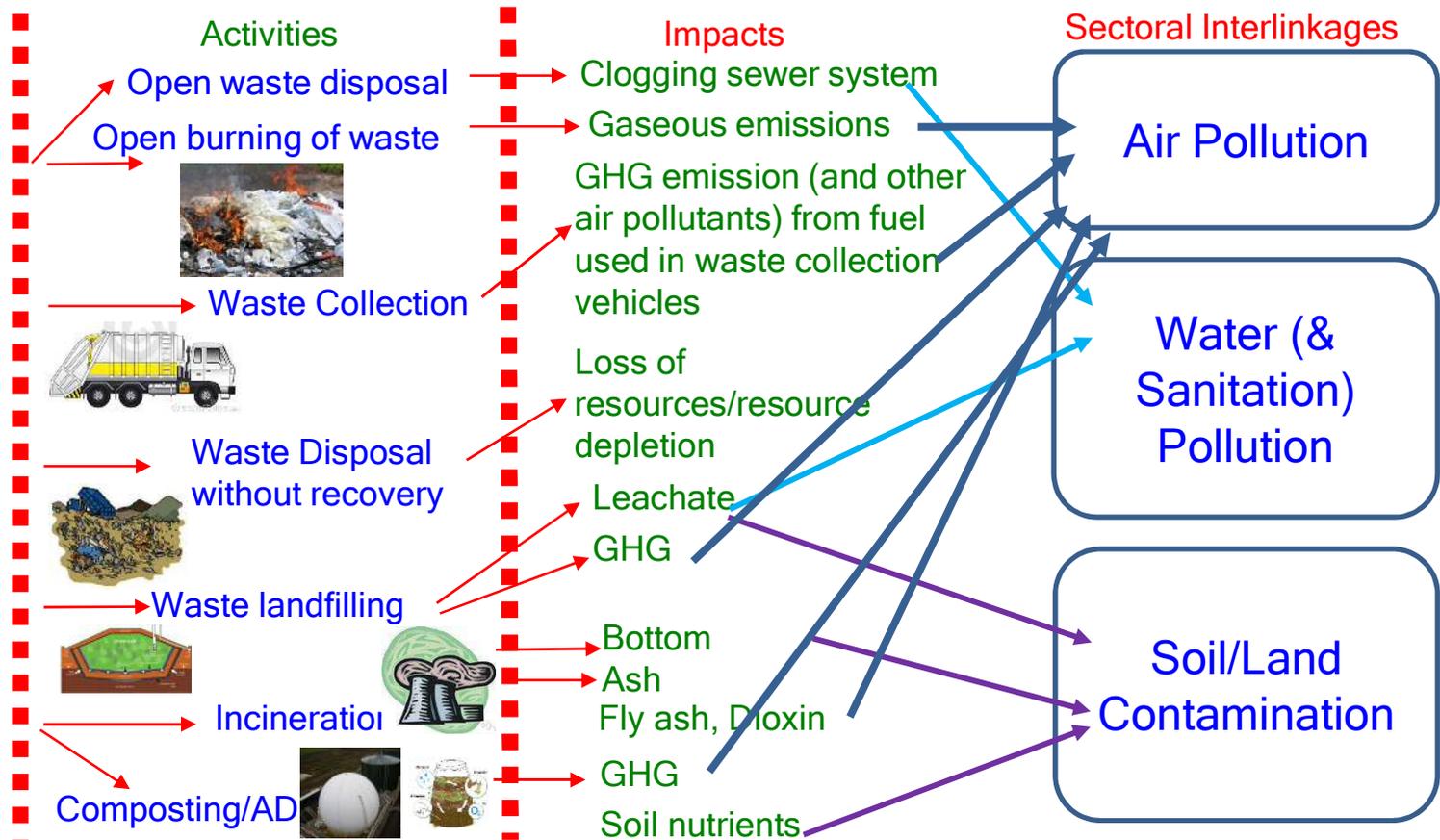
Output



HOLISTIC WASTE MANAGEMENT



Municipal Solid Waste Management





Innovative Policies and Programmes

20th CENTURY

WASTE MANAGEMENT

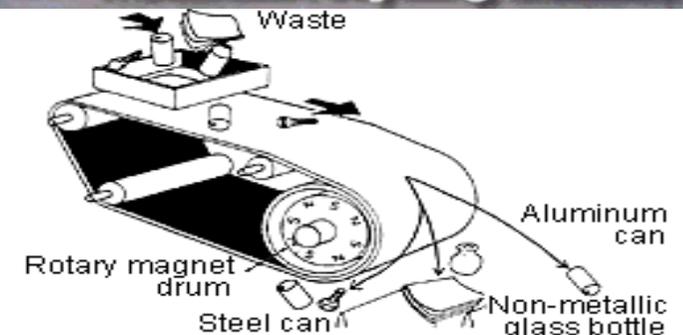
“How do we get rid of our waste efficiently with minimum damage to public health and the environment?”

21st CENTURY

RESOURCE MANAGEMENT

“How do we handle our discarded resources in ways which do not deprive future generations of some, if not all, of their value?”

Source: Dr. Paul Connett, Zero Waste, Power Point





VISION FOR HOLISTIC WASTE MANAGEMENT

Benefits of waste management

ENVIRONMENT



Waste management has strong linkages to a range of other global challenges: e.g.

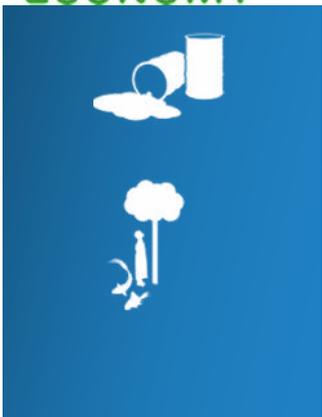
- **climate change**
- **poverty reduction**
- **food and resource security**
- **sustainable consumption and production.**



ECONOMY



SOCIETY

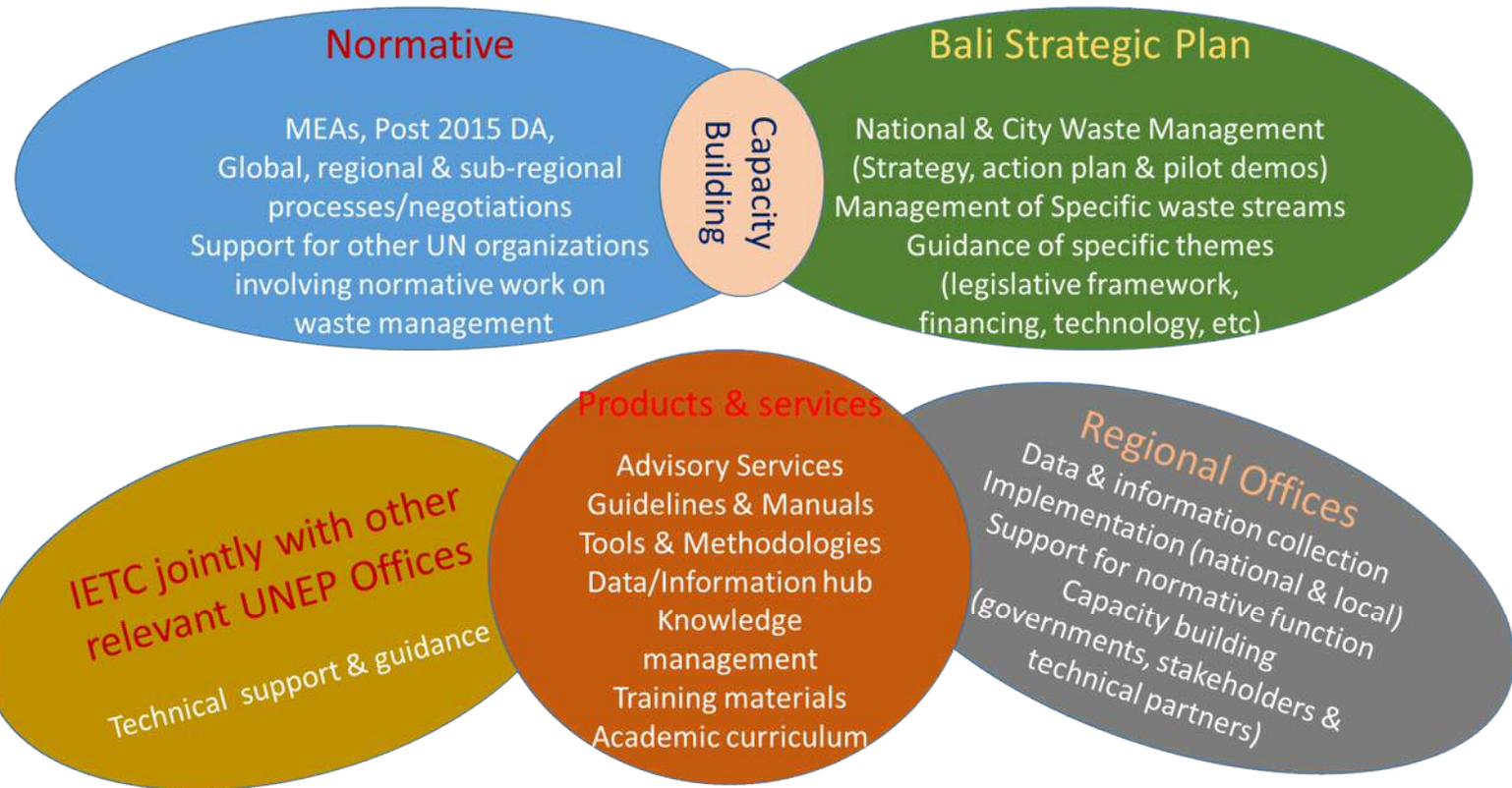


**Waste management is an integral part of the
Agenda 2030**



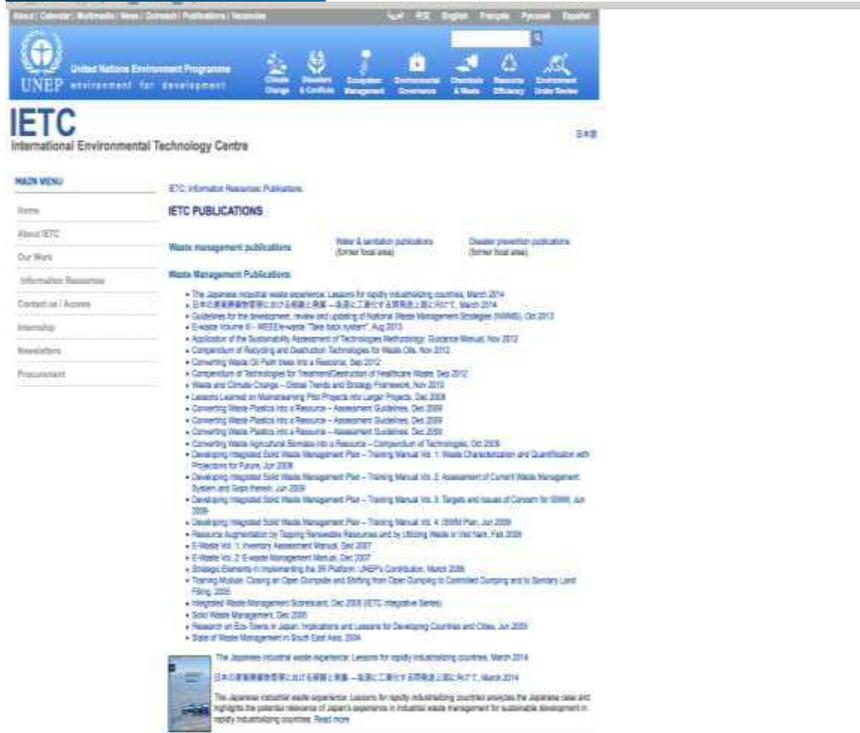
OVERVIEW OF UNEP SUPPORT

UNEP Support on “Waste Management”

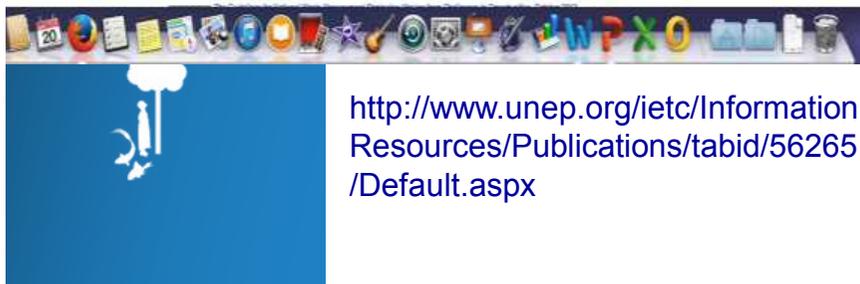




Tools, Methodologies and Compendium of technologies



- Guidelines for Integrated Solid Waste Management in Cities (four volumes)
- Guidelines for Holistic Waste Management at national and city level
- Sustainability Assessment of Technologies
- Waste agricultural biomass to a resource
- Converting waste plastics into a resource
- Technologies for waste oils
- Treatment/Destruction of healthcare waste
- WEEE/e-waste management
- Waste and climate change
- Wastewater reuse
- Water use efficiency – every drop counts



<http://www.unep.org/ietc/InformationResources/Publications/tabid/56265/Default.aspx>



City Plans & Pilot Projects

Integrated Solid Waste Management

Wuxi New District, China – 2008

Pune City, India – 2008

Maseru City, Lesotho – 2009

Matale City, Sri Lanka – 2009

Novo Hamburgo, Brazil – 2009

Nairobi – 2010

Bahir Dar, Ethiopia – 2010

Pathum Thani, Thailand – 2011

Addis Ababa – 2011

Danang, Vietnam - 2012

Kampot, Cambodia - 2012

Bangkok – 2012 Honduras – 2013

Penang (Malaysia) and Ho Chi Minh (Vietnam)
– 2014-15

Waste Agricultural Biomass, Waste Plastics & E-waste

Sri Lanka, Nepal, Pakistan & Malaysia – 2010-11

India, Cambodia and Costa Rica – 2012-13

Wastewater reuse, rainwater harvesting and organic waste
recycling in sugar industry in Vietnam - 2007





Hosting and Working with International Initiatives

- The Global Waste Management Outlook – with ISWA
- The Global Partnership on Waste Management (GPWM) - Secretariat
- University consortium on waste management
- Training Resource Pack (TRP) for hazardous waste with ISWA & UNIDO
- Municipal Solid Waste Initiative of the Climate and Clean Air Coalition (CCAC)





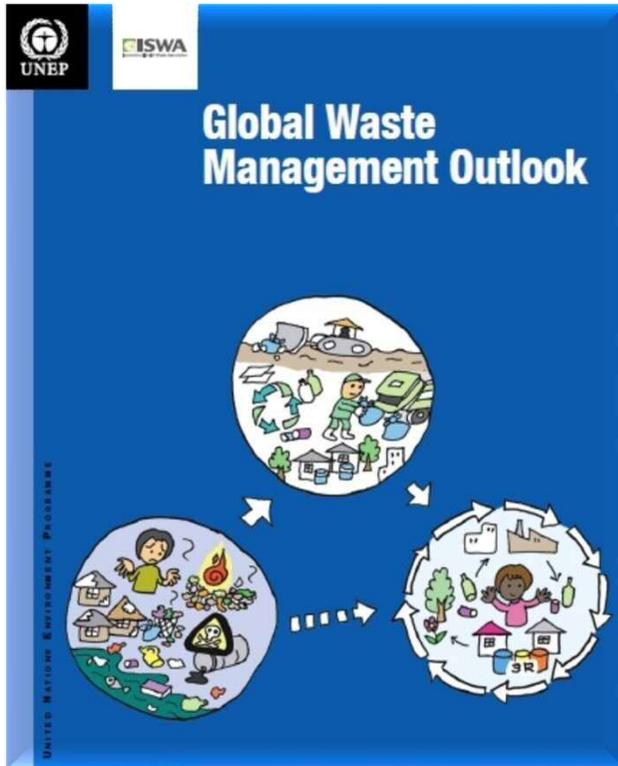
Waste Management Strategy for Countries & Cities (2015-18)

Country	City
AFRICA	
Ghana	Accra
Uganda	Entebbe
Mauritius	
Niger	Niamey
Nigeria	Abuja
Cameroon	Yaonnde and Donala
Ethiopia	Mekele or Adis Ababa
Tanzania	Dar-es-salam or Dodoma
Zimbabwe	Harare
Kenya	Nairobi

ASIA	
Nepal	
India	Kota
Bhutan	Thimphu
Tajikistan	Dushanbe
Kyrgyzstan	Almaty
Mongolia	Ulaanbaatar
Myanmar	Mandaley or Yangoon
Cambodia	Phnom Penh
Malaysia	Penang

Latin America & Caribbean

(cities to be identified)	
Honduras	Jamaica
El Slavador	Colombia
	Ecuador
Saint Lucia	Uruguay
Dominican Republic	Paraguay



GWMO & RWMO

Global Waste Management Outlook
& Regional Waste Management Outlooks

UNEP IETC – November 2015





AGENDA 2030 AND WASTE MANAGEMENT

GLOBAL WASTE MANAGEMENT GOALS		RELATED SDGs	
Ensure by 2020	W.1 Access for all to adequate, safe and affordable solid waste collection services	3 – Health for all	11 – Safe cities
	W.2 Stop uncontrolled dumping, open burning	3 – Health for all 11 – Safe cities 12 – Sustainable consumption and production (SCP)	6 – Clean water and sanitation 14 – Marine resources 15 – Terrestrial ecosystems
Ensure by 2030	W.3 Achieve sustainable and environmentally sound management of all waste, particularly hazardous waste	12.4 – Managing all waste 13 – Climate change	7 – Access to energy
	W.4 Substantially reduce waste generation through prevention and the 3Rs (reduce, reuse, recycle) and thereby create green jobs	12.5 – The 3Rs 8 – Growth & employment	1 – End poverty 9 – Sustainable industry
	W.5 Halve per capita global food waste at the retail and consumer levels and reduce food losses in the supply chain	12.3 – Food waste	2 – End hunger; food security





MISSION

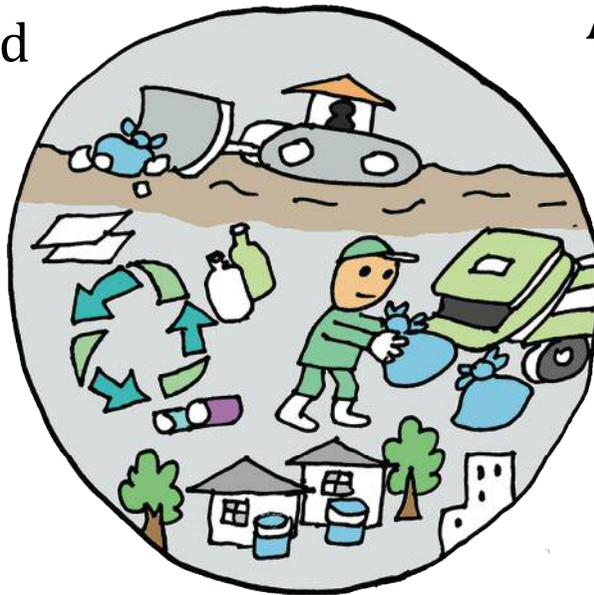
Waste management is an essential utility service

Public health priority

Extend municipal solid waste collection to **100%** of the urban population

Environmental priority

Achieve **100%** controlled disposal
Eliminate open dumping and burning



High Moon

COST OF INACTION

Public health impacts of uncollected waste

- Gastrointestinal and respiratory infections, particularly in children
- Blocked drains aggravate floods and spread infectious disease



High Moon

Environmental impacts of open dumping and burning

- Severe land pollution and freshwater, groundwater and sea pollution
- Local air pollution and climate change





ESTIMATING COSTS OF INACTION

Costs to society exceed the financial costs per capita of proper waste management by a factor of 5-10

- Health care
- Lost productivity
- Flood damage
- Damage to businesses and tourism



High Moon

Data are scarce

But evidence is clear

*Need to act now,
rather than waiting
for ever for perfect
information*





CIRCULAR ECONOMY CONCEPT

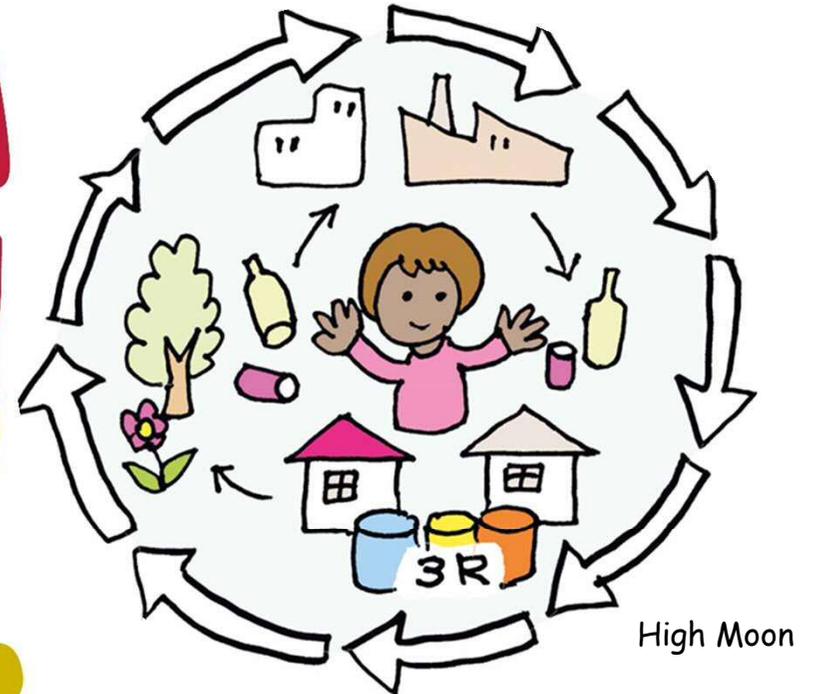
Ensure access for all to basic waste services

Deal with the hazardous substances in wastes



Tackle the problem at the source

Close a clean material cycle



We still have much to do to switch from a **linear** to a **circular economy**



Regional Waste Management Outlooks



- In-depth focus at regional level with country sheets
- Transfer knowledge and experiences across the regions and countries

Asia Pacific
Waste Management Outlook

Latin America & Caribbean
Waste Management Outlook

Africa
Waste Management Outlook

Central Asia
Waste Management Outlook

Next series of outlooks
1. West Asia
2. SIDS

Mountain Countries
Waste Management Outlook



LEGISLATIVE FRAMEWORK & GOVERNANCE

Guidelines for Framework Legislation for Integrated Waste Management

DRAFT

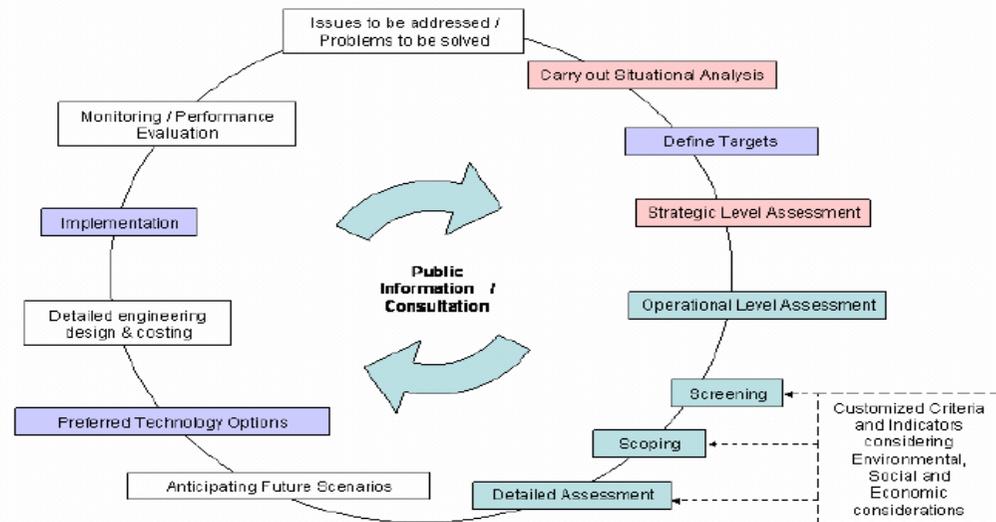


Environmentally Sound Technologies (ESTs)



Application of the Sustainability Assessment of Technologies (SAT) Methodology
Guidance Manual

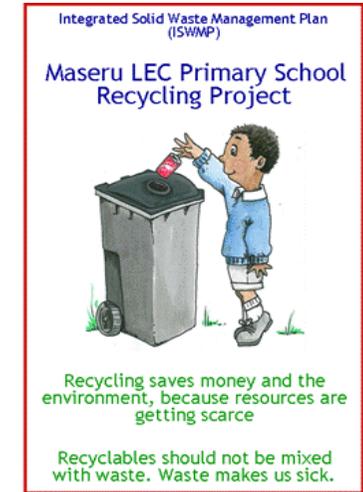
United Nations Environment Programme





COMMUNICATION

- **Decision makers/government officials** – workshops, site visits, pamphlets
- **Technical professionals** - workshops, site visits , pamphlets
- **Industry, services representatives** – consultations, discussions, workshops, briefing papers, posters



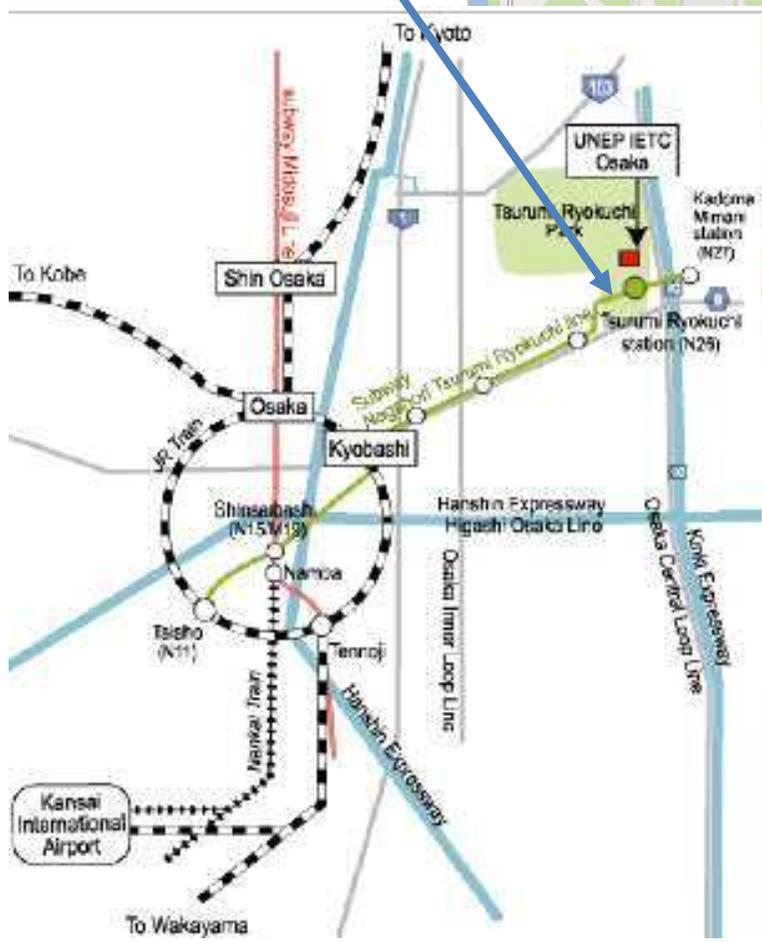
- **Association representatives, Communities, schools** – Education campaigns, (posters, clean-up activities), consultations, award schemes, competitions, media

IETC office in Osaka



Nearest station 最寄り駅

大阪市営地下鉄
鶴見緑地駅



国際環境技術センター (IETC)
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Web: <http://www.unep.org/ietc>

*Partnership,
Partnership and
Partnership
Thank You...*

