

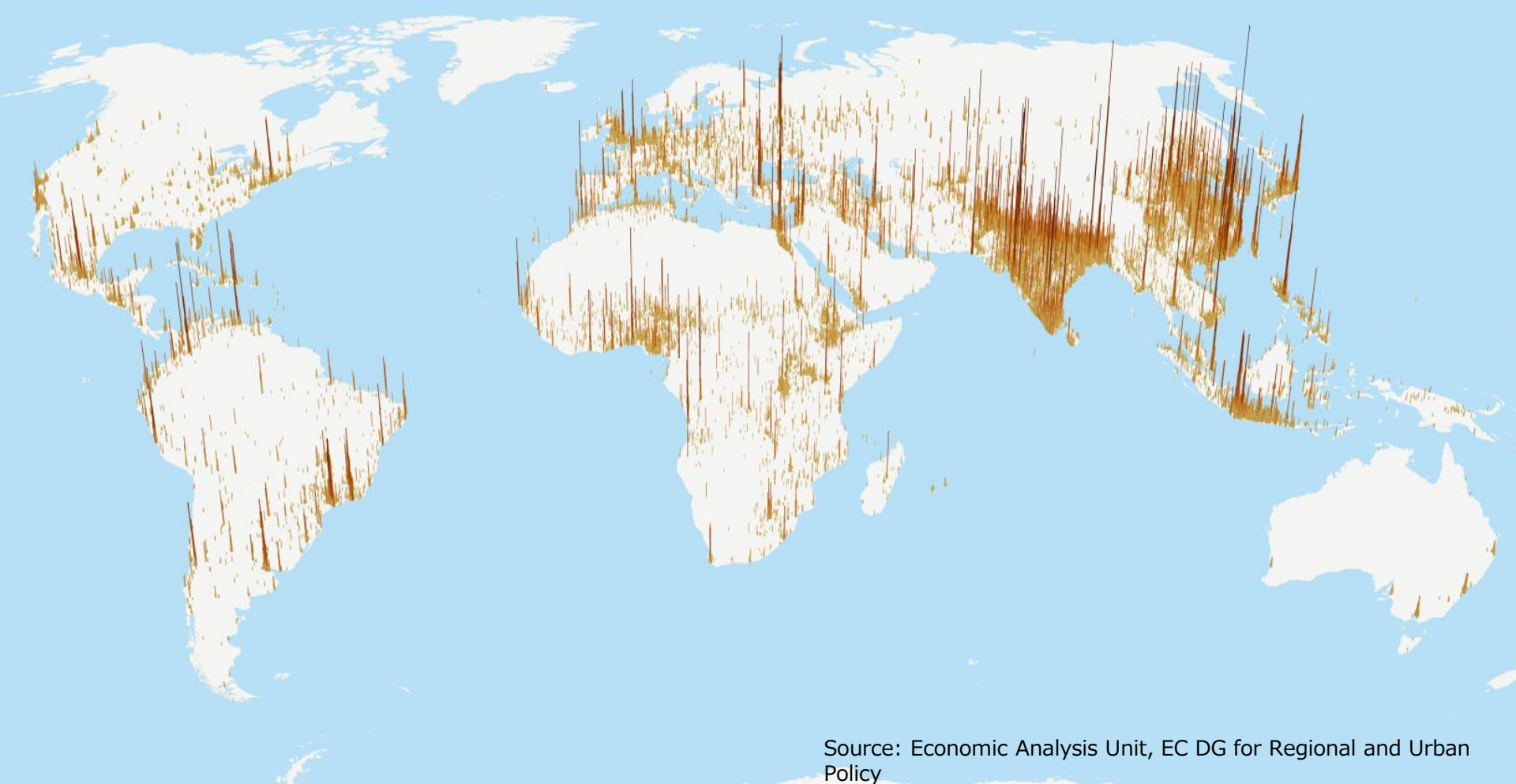
Waste Management in City Development and Case Studies in Kenya and Ethiopia

UN  **HABITAT**
FOR A BETTER URBAN FUTURE

Atsushi Koresawa

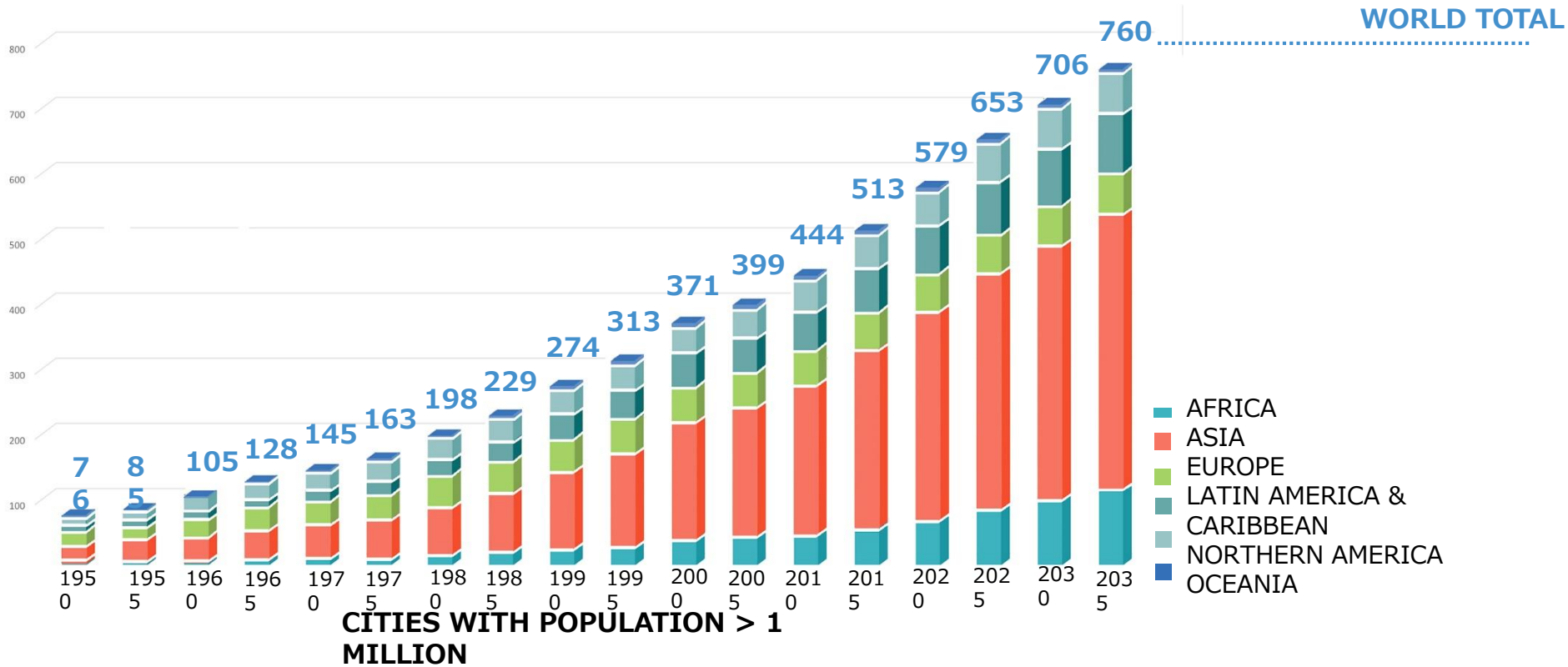
Regional Director

Regional Office for Asia and the Pacific, UN-Habitat



Source: Economic Analysis Unit, EC DG for Regional and Urban Policy

POPULATION DENSITY *1km² grid cell*



Source: World Urbanization Prospects, 2018 Revision

URBAN

CHALLENGES



INCREASE IN SLUM POPULATION

Due to population growth and migration, the number of people in slums increased between 2000 and 2014



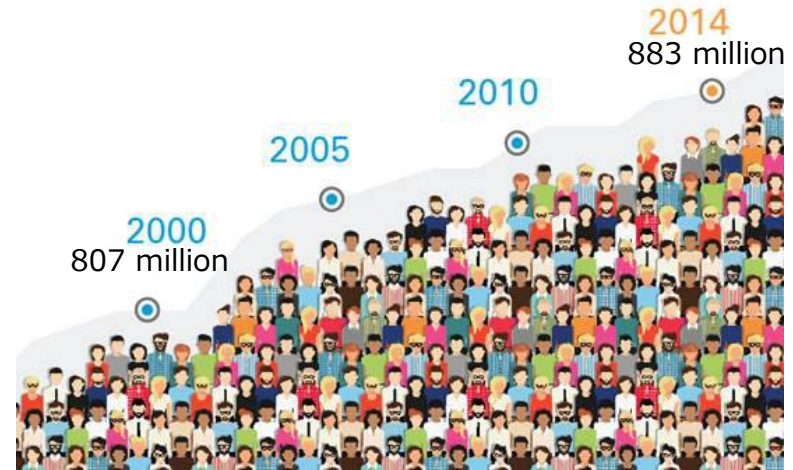
URBAN SPRAWL

In the last 20 years, cities grew at 1.5 times the rate of the population.



DISASTERS MOSTLY AFFECT THE POOR

1.5 billion people were affected by disasters (2005-2015)



Rate of expansion of cities



Rate of population growth

URBAN

CHALLENGES



**AIR QUALITY IN
CITIES IS
ALARMING**



**SOLID WASTE IN
CITIES**

Neglected agenda

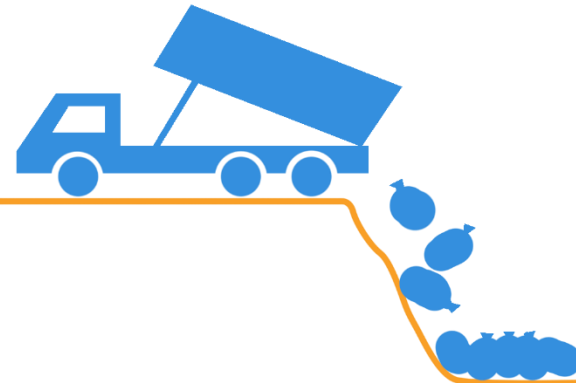


97%

**Developing country
cities not meeting air
quality standards**

49%

**Developed country
cities not meeting air
quality standards**





OCTOBER 1

World Habitat Day

MUNICIPAL
SOLID WASTE
MANAGEMENT

- SWM related Events held in many countries and cities around the world, including Nairobi with presence of President of Kenya
- Japan (MoE) participated in WHD Kenya lead by Mr. Yutaka Matsuzawa, Cabinet Councilor
- Held in conjunction with 'Urban October'; One month promotion of better urban future

CHALLENGES in Municipal SWM



- **30 to 60%** of all the urban solid waste in developing countries is uncollected and less than **50%** of the population is served. Uncollected waste clogs urban drains leading to floods
- Only **10%** of waste generated in developing countries is recycled usually by the informal sector
- **3 billion** people worldwide still lack access to controlled waste disposal facilities.
- Low priority in financing SWM projects. In 2012 only 0.32% of global development finance was allocated to SWM while water and sanitation received 31%



17 Goals

169 Targets

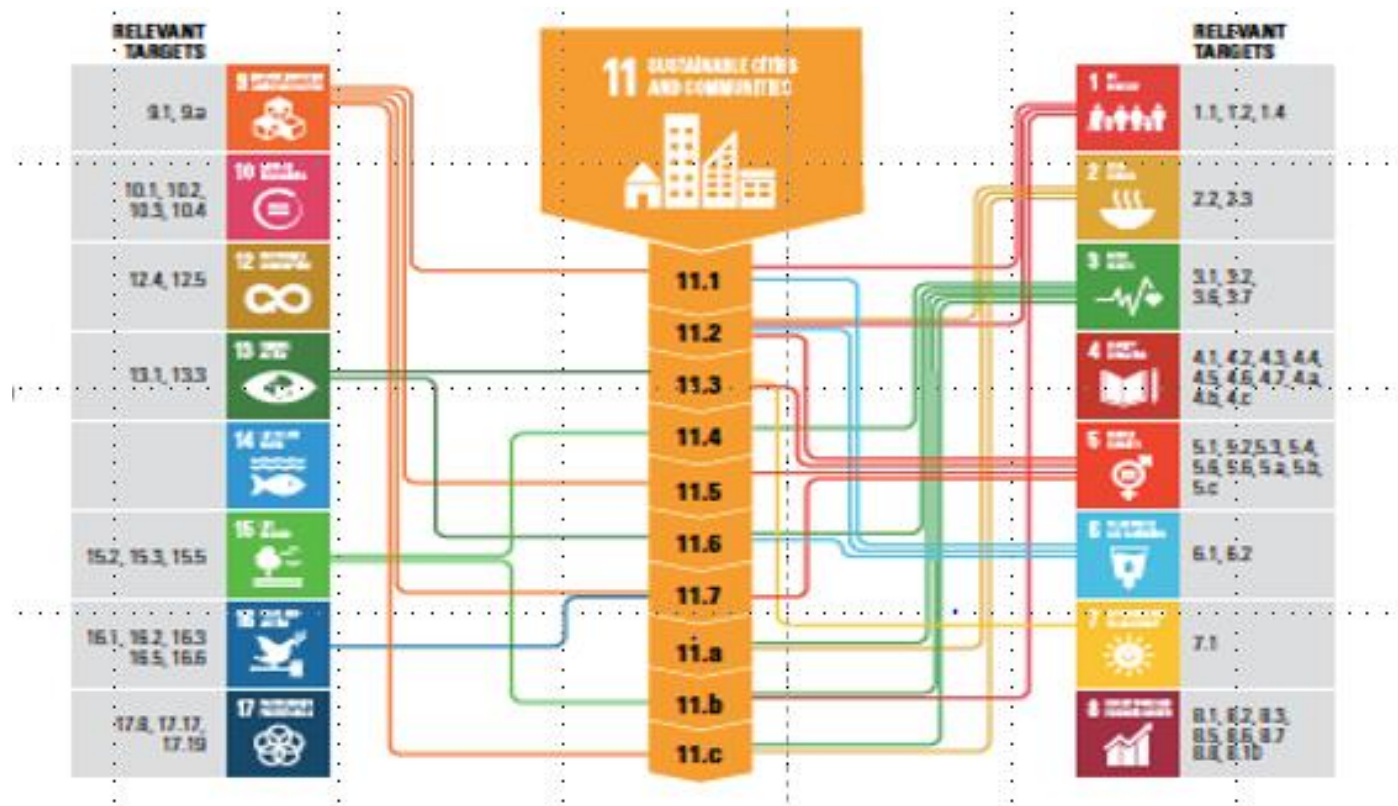
11 Make Cities and Human Settlements Inclusive, Safe, resilient and Sustainable



Target 11.6: By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management

Indicator 11.6.1: % of urban solid waste regularly collected and with adequate final discharge with regards to the total waste generated by the city

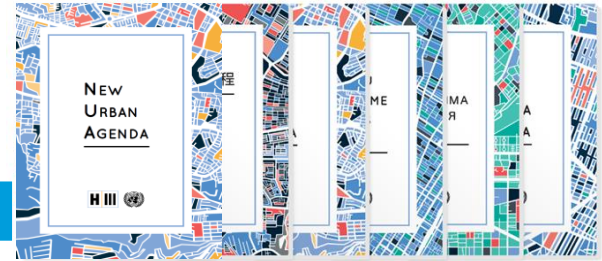
Links between SDG 11 and the other SDGs



SDGs



New Urban Agenda



English 中文 عربي Français Русский Español

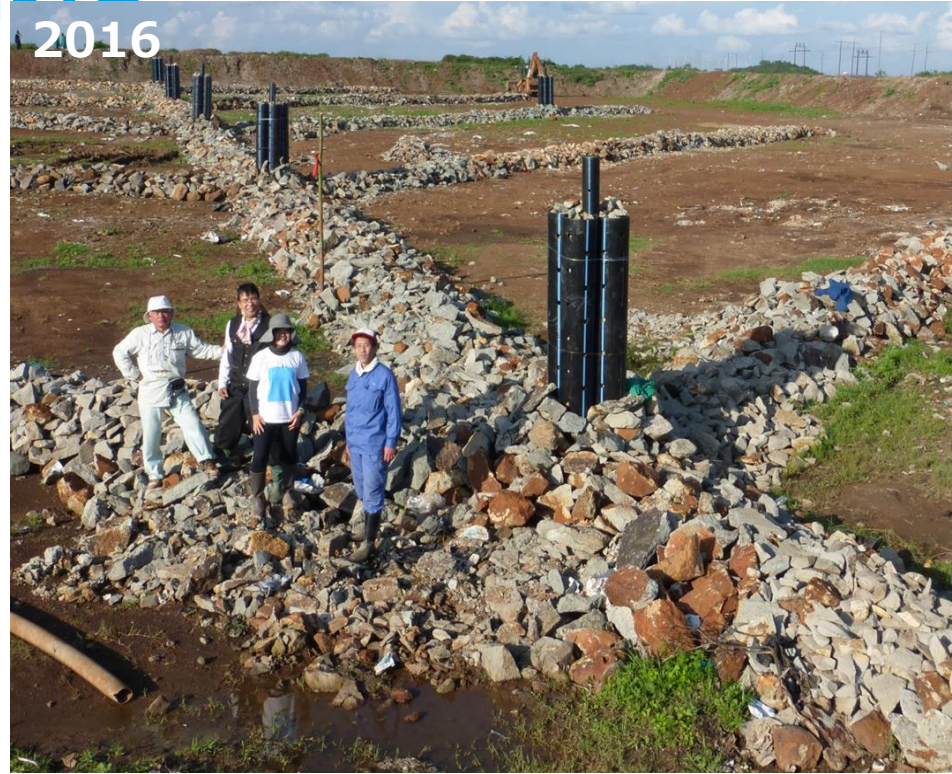
- The New Urban Agenda refers several times to waste management;
 - Promotion of environmentally sound waste management
 - Promotion of Reduce, Reuse Recycle (3Rs) and conversion of waste to energy e.g organic waste to biogas
 - Promotion of Reduce, Reuse Recycle (3Rs) and conversion of waste to energy e.g organic waste to biogas
 - Emphasis on extended producer responsibility (E-waste management, recycling)

IMPLEMENTING “Fukuoka Method” IN KENYA

2015



2016



Kiambu County, Kenya (© UN-Habitat)

IMPLEMENTING “Fukuoka Method” IN KENYA



- ★Engagement of waste pickers as daily workers
- ★Use of locally available, recycled and sustainable materials and methods



IMPLEMENTING “Fukuoka Method” IN ETHIOPIA

Stabilization of Koshe Dumpsite in Addis Ababa

- Landslide at the dumpsite killed 200 people in March 2017
- UN-Habitat received 2 M from the Government of Japan to stabilise the dumpsite and conduct capacity development of disposal site operation to local authorities
- The project commenced in April 2018 and will benefit 4 million people in Addis Ababa City, Ethiopia



Stabilization of Koshe Dumpsite in Addis Ababa



- Stabilization of dump site based on 'Fukuoka Method' to prevent further landslides and gas explosions, stabilizing the dump site by constructing safer slopes, installing gas ventilation pipes and leachate collection

An aerial view of a city skyline, likely Tokyo, with a blue overlay. The text is centered over the image.

THANK YOU
*For your kind
attention*

<https://unhabitat.org>

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<http://www.fukuoka.unhabitat.org>