



ZERO
WASTE
DAY

BEAT
WASTE
POLLUTION

The International Day of Zero Waste | Geneva Celebration

27 MARCH 2024 | 14:00 - 15:30 CET | PALAIS DES NATIONS, ROOM VIII & ONLINE

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With the participation of



The International Day of Zero Waste | Geneva Celebration

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SPEAKERS



H.E. Emine ERDOĞAN

First Lady of the Republic of Türkiye |
Chairperson of the Advisory Board of
Eminent Persons on Zero Waste
(video message)



**H.E. Amb.
Güven BEGEÇ**

Permanent Representative of Türkiye to
the UN Office at Geneva and other
international organizations in Switzerland



**Dilara
ABDULLAYEVA**

Counsellor, Permanent Mission of the
Republic of Azerbaijan to the UN Office and
other international organizations in
Geneva | UN Climate Change COP29 Host



Arnold KREILHUBER

Director for Europe, UN Environment
Programme



Carlos SILVA FILHO

President, International Solid Waste
Association (ISWA) | Member, UN
Secretary General's Advisory Board on
Zero Waste



Marcos ORELLANA

UN Special Rapporteur on toxics and
human rights



David OGDEN

Deputy Executive Secretary, Basel,
Rotterdam, and Stockholm Conventions



**Moustapha
Kamal GUEYE**

Director, Priority Action Programme on
Just Transitions, International Labour
Organization



**Maggie
MONTGOMERY**

Settings Lead, Water, Sanitation,
Hygiene and Health Unit,
World Health Organization



Elena SANTER

Environmental Affairs Officer, Environmental
Performance Review Programme,
UN Economic Commission for Europe



Kamelia KEMILEVA

Co-Director, Global Cities Hub



**Uğur
İbrahim ALTAY**

President of UCLG and Mayor of Konya
Metropolitan Municipality
(video message)



Graham ALABASTER

Chief, Geneva Office at UN-Habitat |
Moderator



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GLOBAL WASTE MANAGEMENT OUTLOOK 2024 - Turning rubbish into a resource

Carlos Silva Filho, ISWA President and Member of the
UN Secretary General's Advisory Board on Zero Waste



About ISWA

ISWA is the world's leading network promoting professional and sustainable waste- and resource management.

ISWA represents all aspects and stakeholders within the waste management sector: the public, the private and the academic.



**To Promote and Develop
Sustainable and
Professional Waste
Management Worldwide
and the transition to a
Circular Economy**

- Our mission



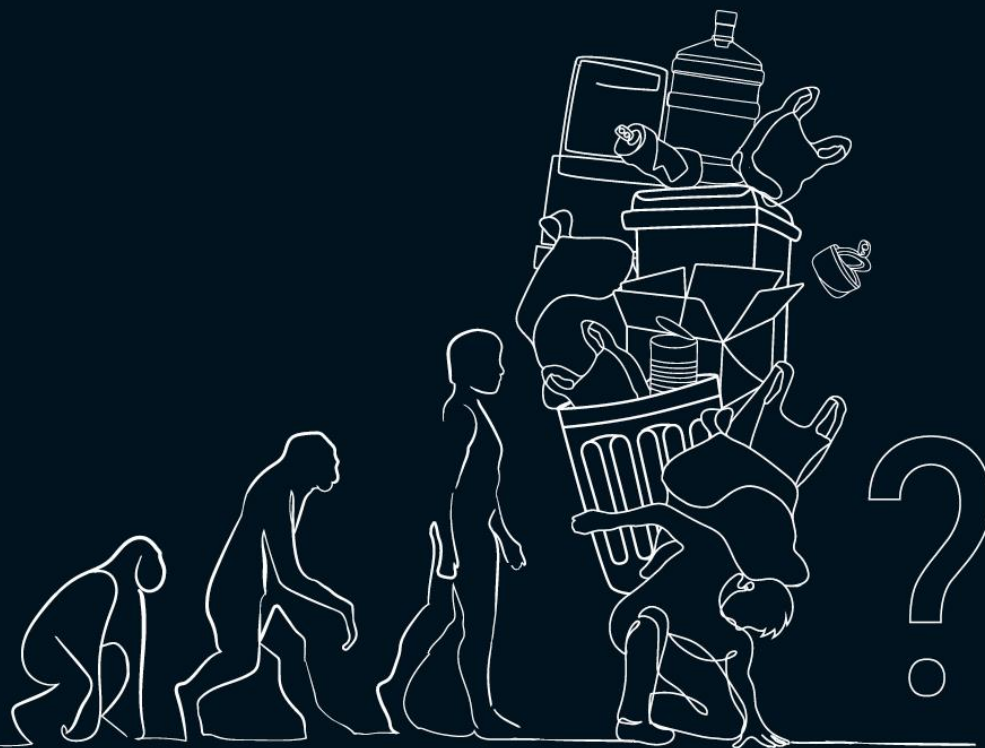




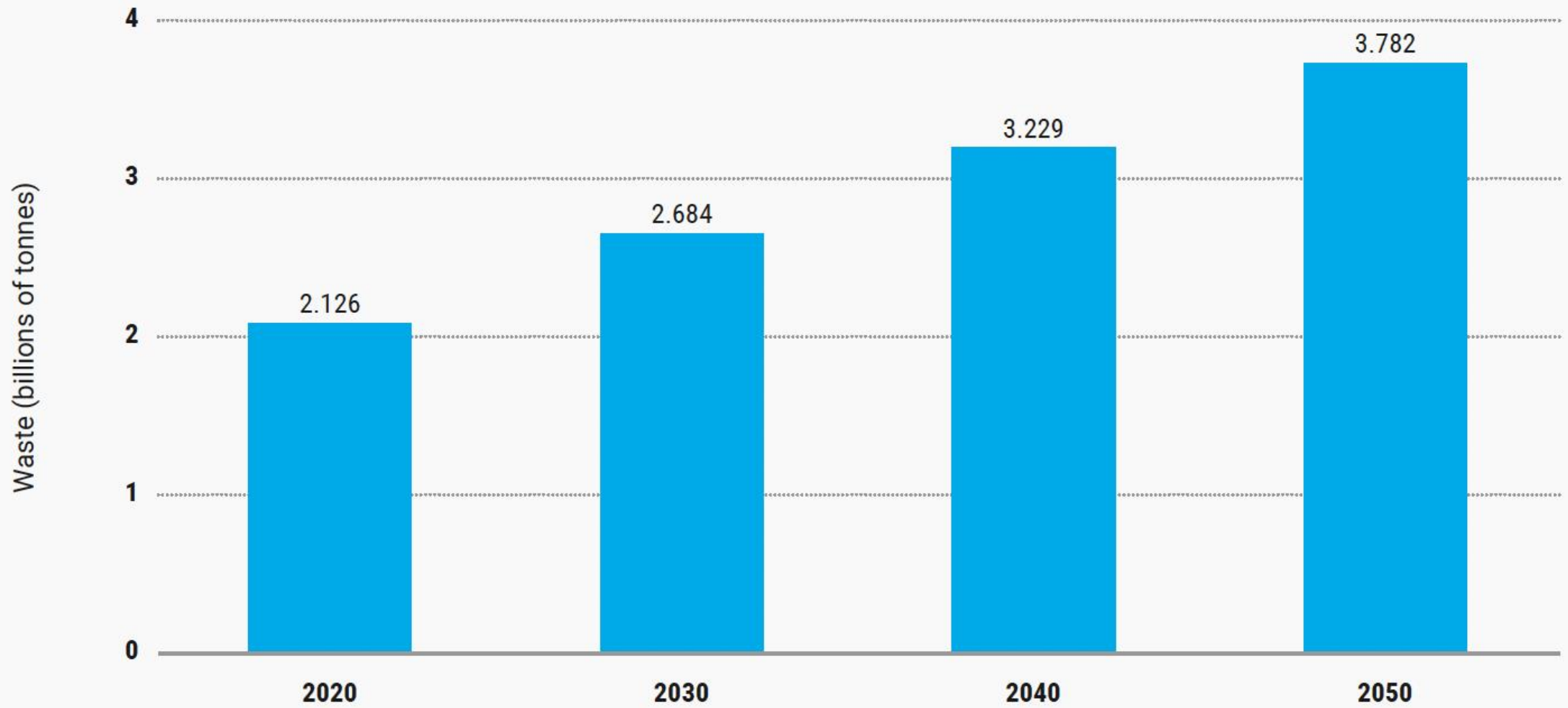


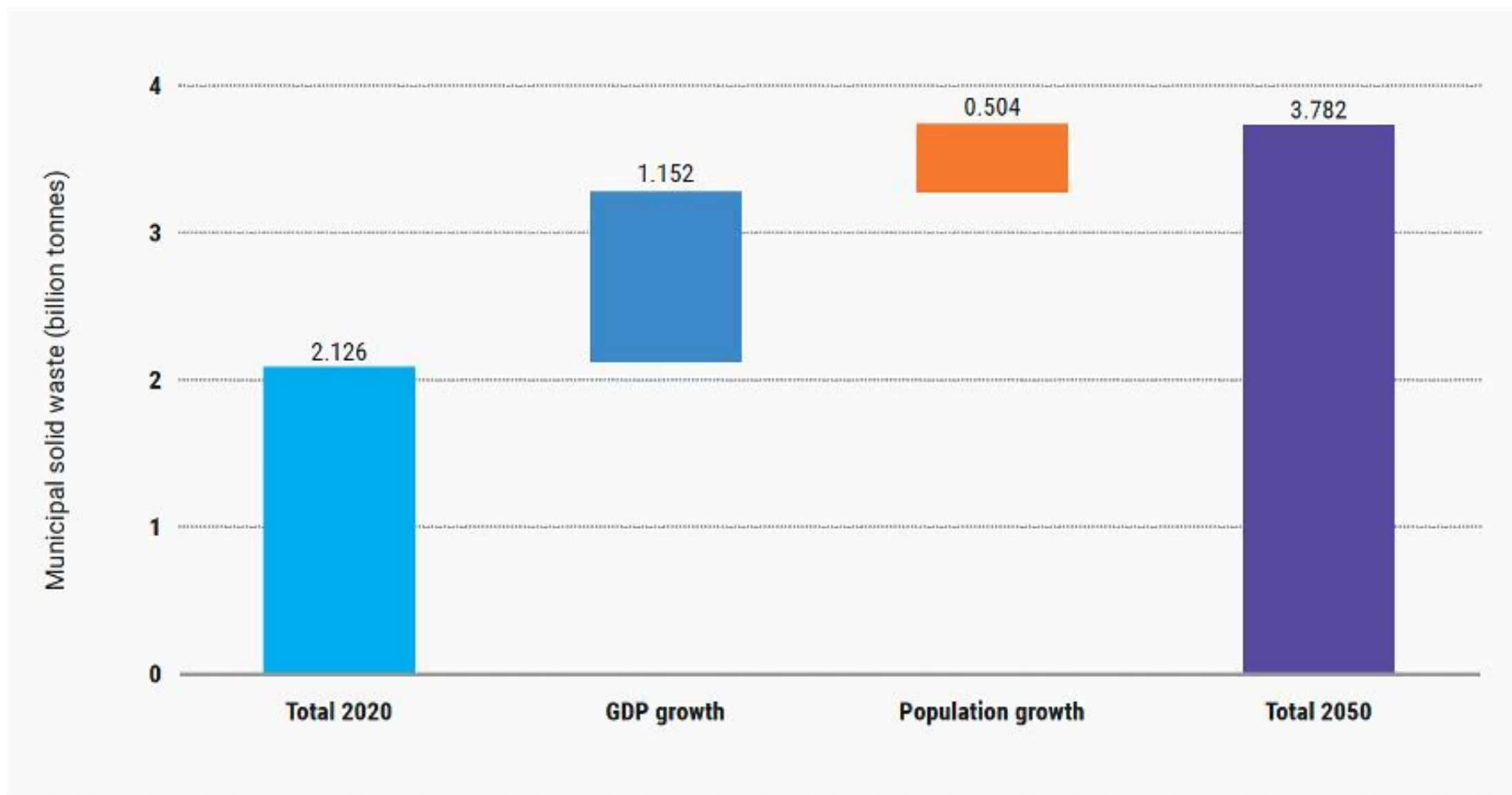
Beyond an age of waste

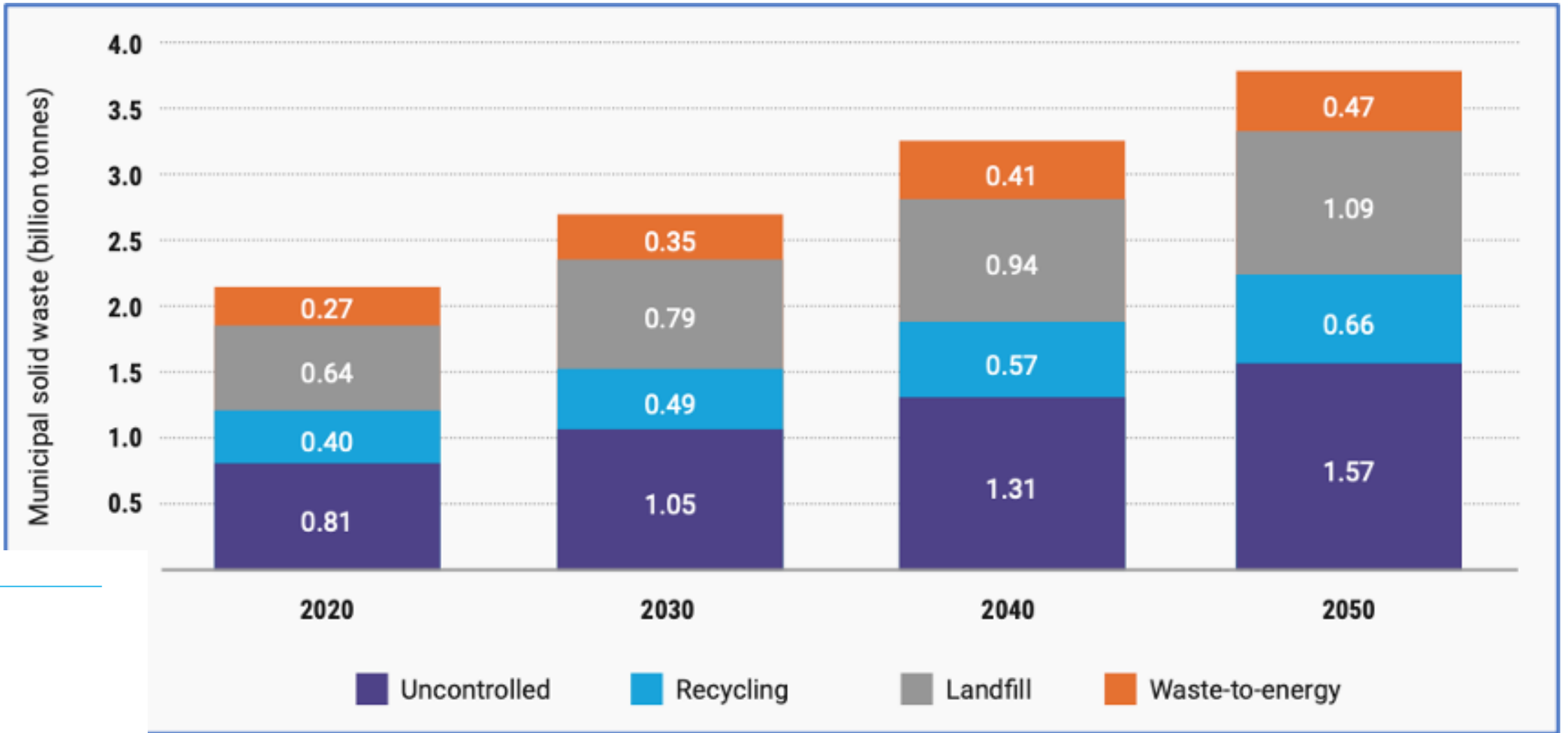
Turning rubbish into a resource



Business-as-usual







Some
2.7
billion
 people do not have
 their waste collected.

01

Waste Management as Usual

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

02

Waste Under Control

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

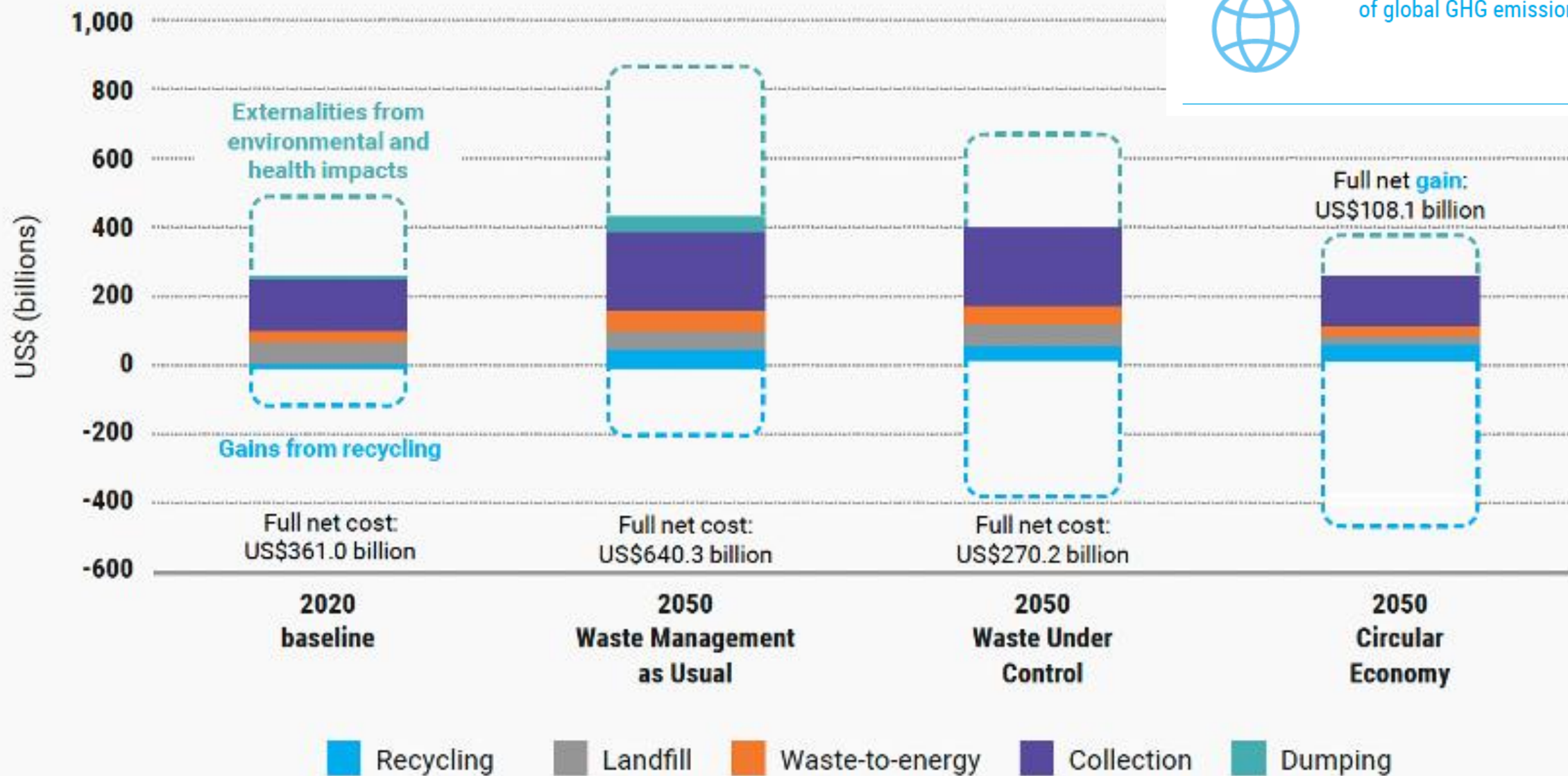
03

Circular Economy

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



Better waste management could mitigate **15%–25%** of global GHG emissions.



Three waste management 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

Producers and retailers need 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.

Key Messages

- * Business-as-usual is exhausted
- * A paradigm shift is urgent
- * Urgent transition from “waste as garbage” to “waste as a resource”
- * Imperative to adopt circular practices with holistic approach (no more siloed management system)
- * A Global Push is needed



A circular economy approach is the only way to make waste management affordable

In 2020 municipal waste and its impacts cost
US\$361 billion per year.

Without urgent change, by 2050 this annual
cost of waste will soar to **US\$640 billion**.



The GWMO 2024 is a guide and call for action to catalyse collective efforts to support bold and transformative solutions, revert the adverse impacts of current waste management practices, and provide clear benefits to every individual living on this planet.

Carlos Silva Filho
President of International Solid Waste Association





iSWA

International Solid Waste Association

THANK YOU!

Carlos RV Silva Filho



www.iswa.org

[f @iswa.org](https://www.facebook.com/iswa.org)

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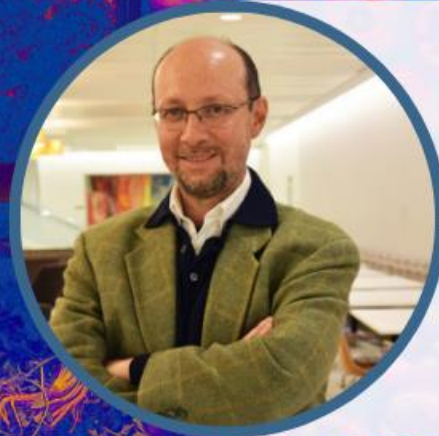
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Zero waste for a healthier future

The health impact of poor waste management and actions for a healthier, greener future

International Day of Zero Waste

Maggie Montgomery (montgomerym@who.int)

27 March 2024

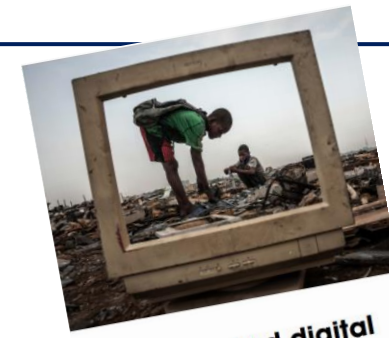
Poor waste management has a detrimental impact on health

- Globally, 1 in 3 hospitals lack basic health care waste management
- > 16 billion injections administered every year; unsafe injections results in 33,8000 new HIV infections, 1.7 million hep B infections, 315,000 hep C infections
- Incineration of plastics generates carcinogens: dioxins and furans
- e-waste (over 1,000 chemicals including mercury, cadmium, lead, bisphenols)
- Open dump sites (33% of global waste) poses risk to waste pickers, soil and air pollution, vector habitat, contributing to plague, malaria, dengue, diarrhoeal disease

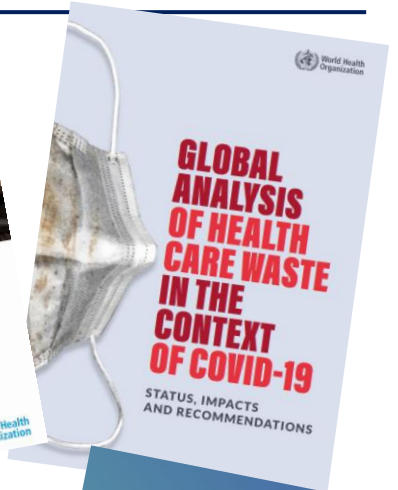


Role of WHO in tackling waste

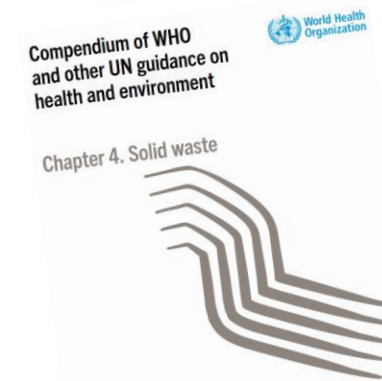
- **Development and dissemination of evidence-based guidance and best practices**
 - “Blue book” on health care waste, e-waste, COVID waste, chemicals, solid waste and health (forthcoming)
- **Leadership and accountability**
 - World Health Assembly Resolutions (2019- WASH and waste in health care facilities; 2024-climate change and health)
- **Country support and capacity building**
 - Health care waste training (Open WHO)
 - National standards and regulation support
- **Coordination and communities of practice**
 - www.washinhcf.org (WHO/UNICEF)
 - Alliance for action on climate change and health (ATACH)



Children and digital dumpsites
E-waste exposure and child health



GLOBAL ANALYSIS OF HEALTH CARE WASTE IN THE CONTEXT OF COVID-19
STATUS, IMPACTS AND RECOMMENDATIONS



Compendium of WHO and other UN guidance on health and environment

Chapter 4. Solid waste



WHO GUIDANCE FOR CLIMATE-RESILIENT AND ENVIRONMENTALLY SUSTAINABLE HEALTH CARE FACILITIES



International Journal of Environmental Research and Public Health



Review

Municipal Solid Waste Management and Adverse Health Outcomes: A Systematic Review

Giovanni Vinti ¹, Valerie Bauza ², Thomas Clasen ³, Kate Medlicott ³, Terry Tudor ⁴, Christian Zurbrugg ⁵ and Mentore Vaccari ^{1,*}

¹ Department of Civil Environmental, Architectural Engineering and Mathematics, University of Brescia, 25123 Brescia, Italy; g.vinti001@unibs.it

² Gangawee Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA 30322, USA; valerie.bauza@emory.edu (V.B.); thomas.clasen@emory.edu (T.C.)

³ Department of Public Health, Environment and Social Determinants of Health, World Health Organization, 1211 Geneva, Switzerland; medlicott@who.int

⁴ SusConnect Ltd, Weedon Bec, Northamptonshire NN7 4PS, UK; terry.tudor@gmail.com

⁵ Department of Sanitation, Water and Solid Waste for Development (Sandec), Eawag—Swiss Federal Institute of Aquatic Science and Technology, Überlandstrasse 133, 8600 Dübendorf, Switzerland; Christian.Zurbrugg@eawag.ch

* Correspondence: mentore.vaccari@unibs.it; Tel: +39-030-371-1300

Abstract: Municipal solid waste (MSW) can pose a threat to public health if it is not safely managed. Despite prior research, uncertainties remain and refurbished evidence is needed along with new approaches. We conducted a systematic review of recently published literature to update and expand the epidemiological evidence on the association between MSW management practices and

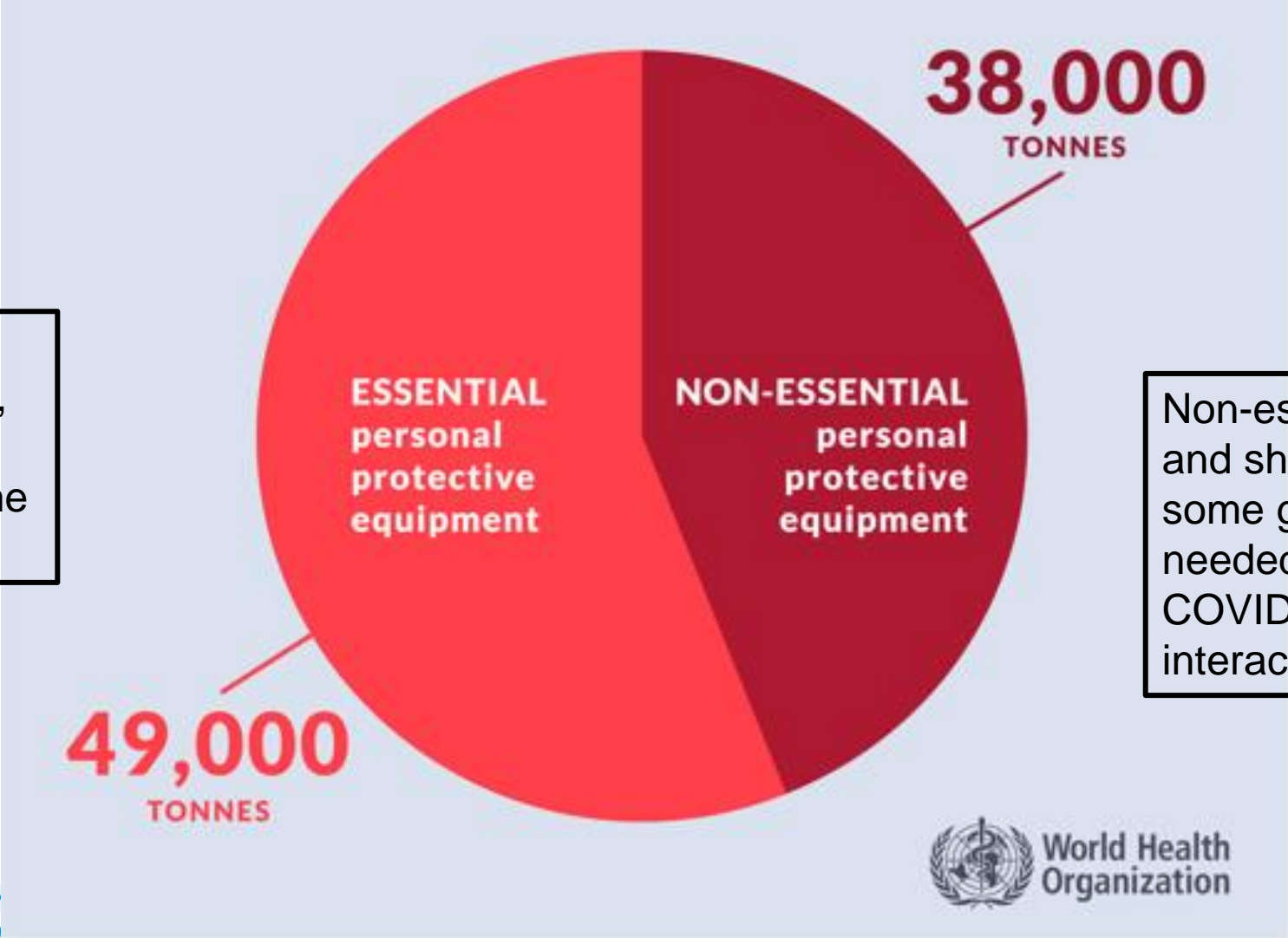


Safe management of wastes from health-care activities

Second edition

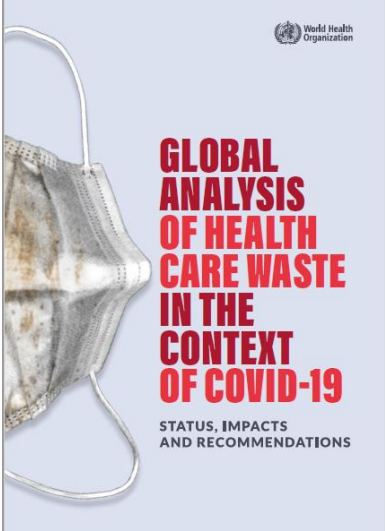
Edited by Yves Charrier, Jorge Emmanuel, Ute Pepper, Annette Pfoes, Philip Rutbrock, Ruth Stanger, Willem Toornoo, Susan Weikum and Rolf Ziggmond

Snapshot of waste challenges: almost ½ of volume of COVID-19 waste items were “non-essential”



Essential: medical masks, gowns, apron protection, some gloves.

Non-essential: hair and shoe covers, some gloves (not needed many COVID-19 interactions)



Summary of key messages

- Uncontrolled solid waste management impacts health
- Possible to protect health and protect the environment-starting with waste reduction
- Manufacturers and consumers have a role and responsibility
- Safe management of waste should be publicly funded and regulated
- Health sector has important role - managing its own waste, norms and standards, training waste workers, strengthening the evidence



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Other Intergovernmental Fora Advancing the Zero Waste Target

Local Perspectives on Advancing Zero Waste

Closing





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WASTE
POLLUTION



Elena SANTER



Environmental Affairs Officer, Environmental
Performance Review Programme,
UN Economic Commission for Europe

The International
Day of Zero Waste | Geneva
Celebration

> [TINY.CC/GEN27MAR24](https://tiny.cc/gen27mar24)

EVENT | CONFERENCE

International Day of Zero Waste 2024 | Geneva Celebration

UNECE Environmental Performance reviews & Zero Waste

Elena Santer



UNECE

Environmental Performance Review Programme
Fourth Cycle

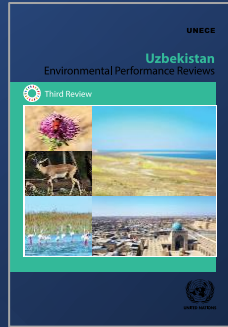
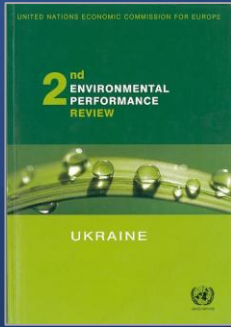
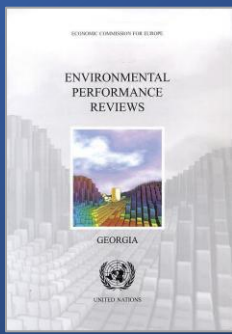


Introduction to Environmental Performance Reviews (EPR)

- External assessments of environmental and economic integration
- Initiated by OECD in 1991, expanded by UNECE in 1993
- Aims to reconcile environmental sustainability with economic growth

Objectives of EPR

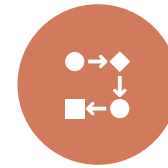
- Improve environmental management and performance
- Promote information exchange on policies and experiences
- Integrate environmental policies into economic sectors
- Enhance public accountability and international cooperation
- Support the achievement of Sustainable Development Goals (SDGs)



EPR Cycles



First-cycle: Baseline assessments



Second-cycle: Progress and accountability



Third-cycle: Focus on environmental governance, financing, and mainstreaming in priority sectors



Fourth-cycle: Circular economy, gender mainstreaming, environmental human rights, and nexus approach

EPR and Zero Waste

Chapter on Waste / Circular Economy

- Highlights waste management challenges and opportunities
- Assesses trends of various waste streams., existing waste reduction initiatives and recycling
- Provides recommendations:
 - Legislation
 - Waste management strategies
 - Data collection and management
 - Etc.
- Supports transition to a circular economy





Exchange of information and good practices

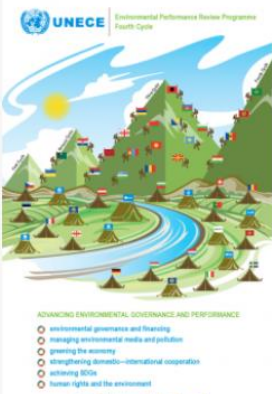
Environmental Performance Reviews

Introduction

An Environmental Performance Review (EPR) is an assessment of the progress a country has made in reconciling its environmental and economic targets and in meeting its international environmental commitments. The EPR Programme assists and supports ECE member countries in improving their environmental management and performance; promotes information exchange on policies and experiences among countries; helps in the integration of the environmental policies into economic sectors; promotes greater accountability to the public; strengthens cooperation in the region; and contributes to the achievement and monitoring of Sustainable Development Goals.

[Read more](#)

In focus



In 2023, the Fourth Cycle of EPRs starts, kicking off a new round of reviews to assist countries' efforts in improving their environment for the benefit of people and planet. At the Ninth Environment for Europe Ministerial Conference (Nicosia, 5-7 October 2022), in their Declaration, Ministers commended the ECE EPR Programme as an effective and practical policy tool with a proven track record stretching back over more than a quarter of a century, recognized the role it plays in supporting the achievement and monitoring of SDGs in the pan-European region.

The Fourth Cycle of EPRs was adopted by the Committee on Environmental Policy in November 2022 and launched in Nicosia where ministers at the Conference endorsed the fourth cycle (ENG, FRA, RUS, UK, etc.). The EPR Programme is a key instrument of the ECE, providing a platform for countries to exchange information and good practices.

- Adoption of findings and recommendations through the Committee on Environmental Policy
- Reports available online : <https://unece.org/environmental-policy/environmental-performance-reviews>
- Follow-up and support to the implementation of such recommendations as mandated by Environment Ministers at the Environment for Europe Conference in Nicosia (5–7 October 2022)
- Workshop on waste management: Policies and practices on the basis of UNECE Environmental Performance Reviews (19 - 20 September 2023, Skopje)

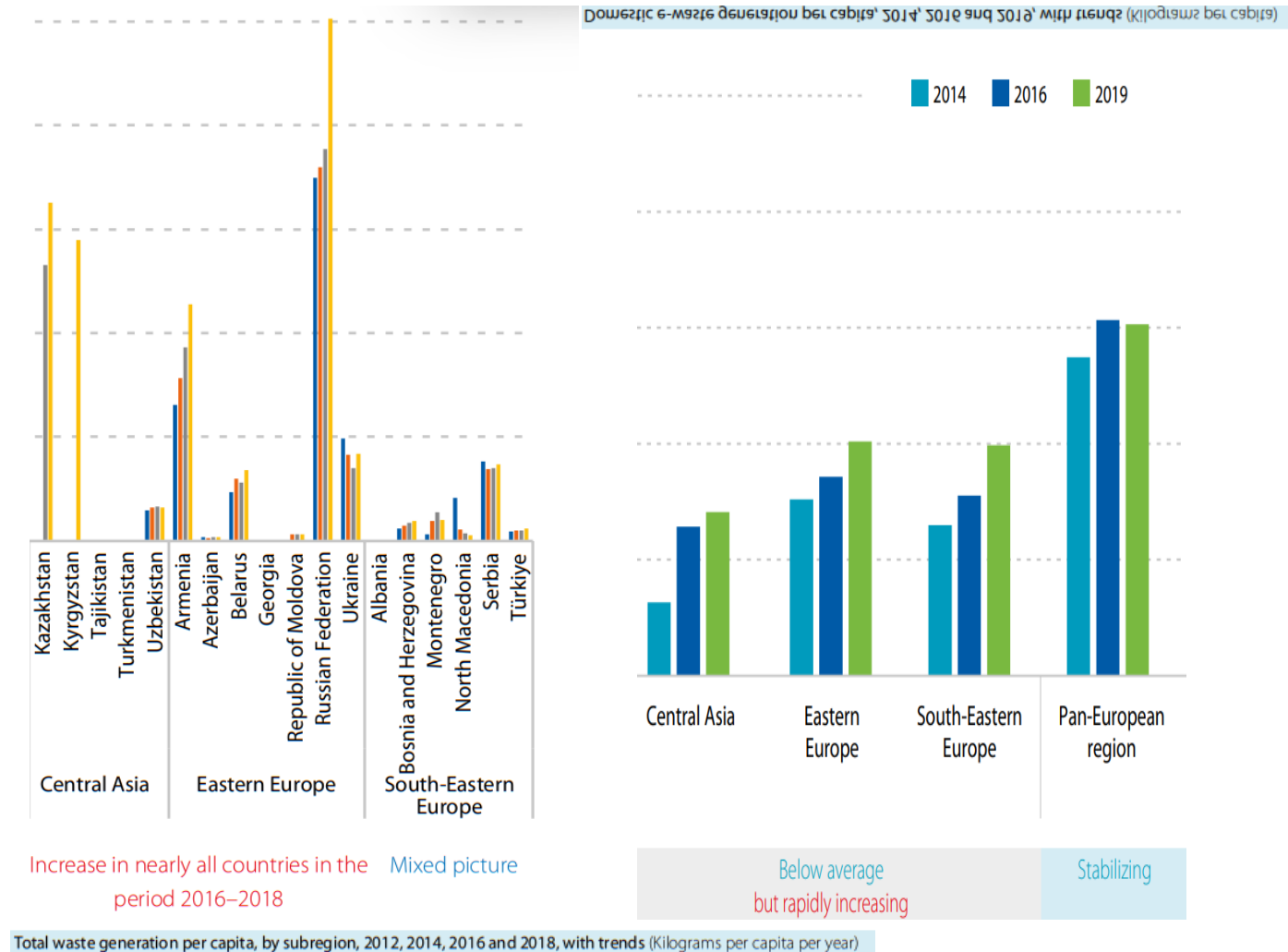
- Environmental Performance Reviews
- Home
- Ongoing Reviews
- Reviewed Countries
- Review Process
- Impact of EPRs
- EPRs & SDGs
- EPRs & Gender
- Evaluations
- Expert Group
- Meetings and Events
- Publications
- EPR Videos
- UNDA Project
- Contact EPR Unit



EPRs & SDGs

Some EPR findings

- Waste generation growing; some countries, like Montenegro, shifting towards services.
- Electronic and medical waste increasing, management evolving
- Persistent issues with obsolete pesticides, hazardous waste hotspots.
- Foreign investments driving many waste-related projects



Figures source: *The Seventh pan-European assessment*

Common challenges for zero waste

- Waste legislation weak; in place enforcement challenging
- Most EPR countries lack proper waste management infrastructure
- Basic infrastructure for proper waste management is lacking in majority of the EPR countries
- Financing for infrastructure lacks, evidence-based costing insufficient
- Separate collection systems limited to pilots, major cities



Common challenges for zero waste

- Unreliable waste generation data prohibits reuse, recycling.
- Uneven sustainable consumption, production decade participation.
- Limited extended producer responsibility schemes implementation.
- Recycling rates persistently low.



EPR: Circular economy & zero waste examples

- **Industrial, construction waste recycling and reuse potential untapped.**
- North Macedonia: white slag in cement; 20% for walls.
- Tajikistan: Repurposed concrete, asphalt improves rural roads.

Photo credit: Markstil, North Macedonia





EPR Recommendation (waste management)

- Government must develop and enforce regional waste management plans, including strategies for medical, industrial, and hazardous waste.
- Introduce or extend producer responsibility for high-pollution waste streams.
- Strategize on closing/rehabilitating dumpsites and improve landfill monitoring and inspections.
- Enhance waste data collection to inform effective waste management.
- Set fair tariffs for municipal waste services, introduce landfill taxes, and create a recyclables market to boost recycling.
- Widely distribute waste management information and offer training for sector workers.
- Launch educational programs and campaigns to raise awareness of waste's impacts and the benefits of reduction, reuse, and recycling.

Circular STEP

Stakeholder Engagement Platform
to Accelerate the Circular Economy Transition
in the UNECE Region



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE
UNITED NATIONS ENVIRONMENT PROGRAMME

Europe's Environment The Seventh Pan-European Environmental Assessment



Environmental Policy

Conventions and Protocols

Introduction: Aarhus Convention and Protocol on PRTRs

Aarhus Convention

Protocol on PRTRs

About the Protocol

Introduction

Content

Text of the Protocol

PRTRs Protocol - Status of ratification

Protocol bodies and mechanisms

Introduction to the Kyiv Protocol on Pollutant Release and Transfer Registers

The Kyiv Protocol on Pollutant Release and Transfer Registers became international law binding its Parties on 8 October 2009. It is the only legally binding international instrument on pollutant release and transfer registers. Its objective is "to enhance public access to information through the establishment of coherent, nationwide pollutant release and transfer registers (PRTRs)."



PRTRs are inventories of pollution from industrial sites and other sources. Although regulating information on pollution, rather than pollution directly, the Protocol is expected to exert a significant downward pressure on levels of pollution, as no company will want to be identified as among the biggest polluters. All UN Member States can join the Protocol, including those which have not ratified the Aarhus Convention and those which are not members of the United Nations Economic Commission for Europe. It is by design an 'open' global treaty.



UNECE

Environmental Performance Review Programme
Fourth Cycle

Thank you

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27 MARCH 2024 | 14:00 - 15:30 CET
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AGENDA

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Opening Remarks | Geneva Zero Waste Celebration

Key Messages of the Global Waste Management Outlook 2024

Advancing the Agenda to Beat Waste Pollution in Multilateral Geneva

- **Marcos ORELLANA** | UN Special Rapporteur on toxics and human rights
- **David OGDEN** | Deputy Executive Secretary, BRS Conventions
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Kamelia KEMILEVA

Co-Director, Global Cities Hub



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- **Dilara ABDULLAYEVA** | Counsellor, Permanent Mission of the Republic of Azerbaijan to the UN Office and other international organizations in Geneva | UN Climate Change COP29 Host

Local Perspectives on Advancing Zero Waste

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Dilara ABDULLAYEVA



Counsellor, Permanent Mission of the Republic of Azerbaijan to the UN Office and other international organizations in Geneva | UN Climate Change COP29 Host

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- **Uğur İbrahim ALTAY** | President of UCLG and mayor of Konya metropolitan municipality

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Uğur İbrahim ALTAY

President of UCLG and Mayor of Konya
Metropolitan Municipality (video message)

UCLG
United Cities
and Local Governments



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THANK YOU!



H.E. Emine ERDOĞAN

First Lady of the Republic of Türkiye |
Chairperson of the Advisory Board of
Eminent Persons on Zero Waste
(video message)



**H.E. Amb.
Güven BEGEÇ**

Permanent Representative of Türkiye to
the UN Office at Geneva and other
international organizations in Switzerland



**Dilara
ABDULLAYEVA**

Counsellor, Permanent Mission of the
Republic of Azerbaijan to the UN Office and
other international organizations in
Geneva | UN Climate Change COP29 Host



Arnold KREILHUBER

Director for Europe, UN Environment
Programme



Carlos SILVA FILHO

President, International Solid Waste
Association (ISWA) | Member, UN
Secretary General's Advisory Board on
Zero Waste



Marcos ORELLANA

UN Special Rapporteur on toxics and
human rights



David OGDEN

Deputy Executive Secretary, Basel,
Rotterdam, and Stockholm Conventions



**Moustapha
Kamal GUEYE**

Director, Priority Action Programme on
Just Transitions, International Labour
Organization



**Maggie
MONTGOMERY**

Settings Lead, Water, Sanitation,
Hygiene and Health Unit,
World Health Organization



Elena SANTER

Environmental Affairs Officer, Environmental
Performance Review Programme,
UN Economic Commission for Europe



Kamelia KEMILEVA

Co-Director, Global Cities Hub



**Uğur
İbrahim ALTAY**

President of UCLG and Mayor of Konya
Metropolitan Municipality
(video message)



Graham ALABASTER

Chief, Geneva Office at UN-Habitat |
Moderator



27 MARCH 2024 | 14:00 - 15:30 CET | PALAIS DES NATIONS, ROOM VIII & ONLINE

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NEXT ON GENEVA **BEAT PLASTIC POLLUTION** DIALOGUES



VIRTUAL

Chemicals in the Plastics Treaty: Perspectives on Protecting Human Health

28 MAR 2024 12:00 - 13:30

Online | Webex
IPEN, GEN

- 🕒 Chemicals and Pollution | Plastics
- 🌐 SDG3 | SDG12



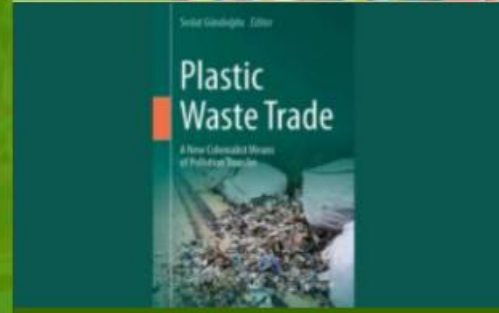
VIRTUAL

Plastics Pollution and Environmentally Sustainable Plastics Trade: Call for Action

09 APR 2024 14:00 - 15:30

Online | Webex
WTO, GEN

- 🕒 Chemicals and Pollution | Plastics
- 🌐 SDG3 | SDG12



VIRTUAL

Launch and Panel Discussion | Plastic Waste Trade: A New Colonialist Means of Pollution Transfer

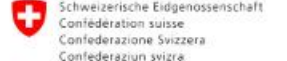
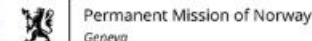
15 APR 2024 15:00 - 16:30

Online | Webex
Basel Action Network, GEN

- 🕒 Chemicals and Pollution | Plastics
- 🌐 SDG3 | SDG12 | SDG17



»»» tiny.cc/GENBeatPlasticPollution



WHAT'S NEXT?

➤➤ genevaenvironmentnetwork.org



VIRTUAL

**Road to OEWG 3 | The
Capacity-Building
Function of the Science-
Policy Panel on
Chemicals, Waste and
Pollution Prevention:
Lessons Learned from
Existing Science-Policy
Interfaces and Sharing of
Views (AM)**

11 APR 2024 10:00 - 11:30

Online | Webex
OEWG SPP CWP, GEN

- 📍 Chemicals and Pollution | Science
- 📍 SDG3



VIRTUAL

**Road to OEWG 3 | The
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Views (PM)**

11 APR 2024 14:00 - 15:30

Online | Webex
OEWG SPP CWP, GEN

- 📍 Chemicals and Pollution | Science
- 📍 SDG3



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