



# Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle / SCP

Thursday 11 February 2021 | 14:00 CET

#GENeva #BeatPlasticPollution



Permanent Mission of Norway  
Geneva



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra





EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics and Waste

26 NOV 2020 09:00 - 10:00

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics, Climate and Air Pollution

10 DEC 2020 14:00 - 15:00

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics and Human Rights

14 JAN 2021 14:00 - 15:00

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics and Health

21 JAN 2021 14:00 - 15:15

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics and Standards

28 JAN 2021 14:00 - 15:15

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics and Trade

04 FEB 2021 14:00 - 15:30

Online | Webex  
GEN



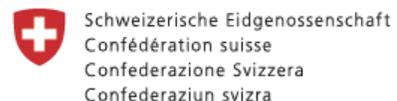
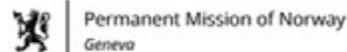
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### Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle/SCP

11 FEB 2021 14:00 - 15:20

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## High-Level Dialogue





EVENT | VIRTUAL

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11 FEB 2021 14:00 - 15:30

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📍 Chemicals and Pollution | Green Economy

🌱 SDG3 | SDG12

## Speakers



UN  
environment  
programme

### Llorenç MILÀ I CANALS

Head, Life Cycle Initiative, United Nations Environment Programme



UNITED NATIONS  
UNCTAD

### Teresa MOREIRA

Head, Competition and Consumer Policies Branch, United Nations Conference on Trade and Development



### Hugo SCHALLY

Head of Unit, Multilateral Environmental Cooperation, DG Environment, European Commission



### Awidya SANTIKAJAYA

Counsellor, Permanent Mission of Indonesia to the United Nations in Geneva



### Kristin HUGHES

Director, Global Plastic Action Partnership, World Economic Forum



### Carsten WACHHOLZ

Senior Policy Manager, Institutions, Governments, and Cities, Ellen MacArthur Foundation



### David AZOULAY (moderator)

Director, Environmental Health Program, Center for International Environmental Law





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Introduction and Setting the Scene

#GENeva #BeatPlasticPollution



**David AZOULAY (moderator)**

Director, Environmental Health  
Program, Center for International  
Environmental Law







environmental  
investigation  
agency



#breakfreefromplastic

## Convention on Plastic Pollution

Toward a new global  
agreement to address  
plastic pollution

June 2020



## Supporting a New Instrument

- Nordic Council
- Caribbean Region (CARICOM St Johns declaration)
- AMCEN – Bamako Resolution
- Pacific Island States
- EU
- UK
- Asian countries (Malaysia, Philipines, etc.)
- Over 50 multinationals



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Plastics in the Life Cycle /  
SCP**

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UNEP Lifecycle Initiative

#GENeva #BeatPlasticPollution



**Llorenç MILÀ I CANALS**

Head, Life Cycle Initiative, United  
Nations Environment Programme





# Addressing Plastic Products Pollution using a Life Cycle Approach

Response to [UNEA4 Resolution 9](#): Addressing single-use plastic products pollution

Llorenç Milà i Canals  
Life Cycle Assessment Team Leader, UNEP  
[Llorenç.milaicanals@un.org](mailto:Llorenç.milaicanals@un.org)



11 February 2021

Economy division, UNEP  
1 rue Miollis, Building VII  
75015 Paris, France

[www.unep.org](http://www.unep.org)  
[www.lifecycleinitiative.org](http://www.lifecycleinitiative.org)

# What is the Life Cycle Initiative?



A multi-stakeholder partnership hosted by **UNEP** since 2002, with public and private funding partners, *enabling the global use of credible life cycle knowledge by private and public decision makers.*

<https://www.lifecycleinitiative.org/>

# Framing the issue

## UNEP/EA.4/Res.9

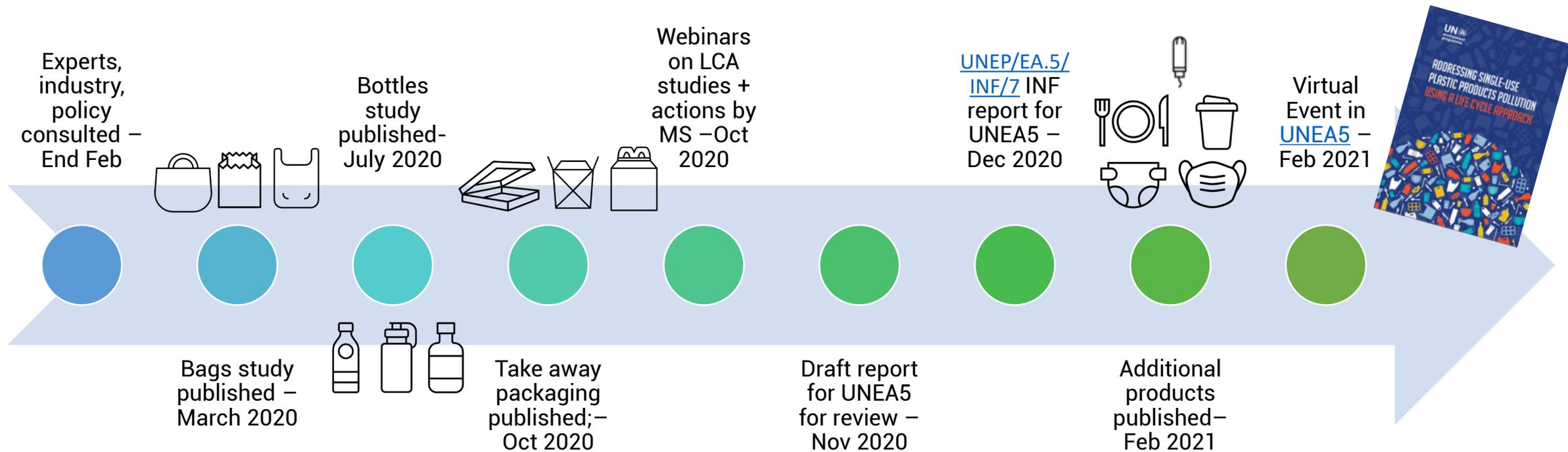
Addressing single-use plastic products (SUPP) pollution (15 March 2019)



- Single-use plastic products present a significant environmental problem and global challenge
- Alternatives are needed
- Policy makers require information to compare alternatives based on full life cycle environmental impacts



# Timeline for the follow-up of the SUPP resolution (OP8c)



Join the virtual event in UNEA 5.1!  
**19<sup>th</sup> February 12h-13h30 CET. [REGISTER here](#)**

[LCA studies and webinars coordinated by](#)  
and **available** through:



# Several LCA meta-studies are already online

<https://www.lifecycleinitiative.org/single-use-plastic-products-studies/>



About Us ▾

**Our Activities ▾**

Resources ▾

Awareness & Training ▾

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Download the publications



Single-use plastic bags and their alternatives: Recommendations from Life Cycle Assessments



Single-use plastic bottles and their alternatives: Recommendations from Life Cycle Assessments



Single-use plastic take-away food packaging and its alternatives

- October 7, 2020
- > Webinar Series on Single Use Plastic Products and Learnings from LCA – October 2020  
September 28, 2020
- > 2 Internship posts at the Life Cycle Initiative  
September 28, 2020
- > Register now! Upcoming webinars on plastics  
September 26, 2020
- > September – October LC Net newsletter is out!  
September 6, 2020

See all our latest stories on our [news page](#).

TRANSLATE THIS PAGE

Select Language ▾

Knowledge partners:



# Key Findings from LCA studies

Addressing single-use plastic products (SUPP) pollution

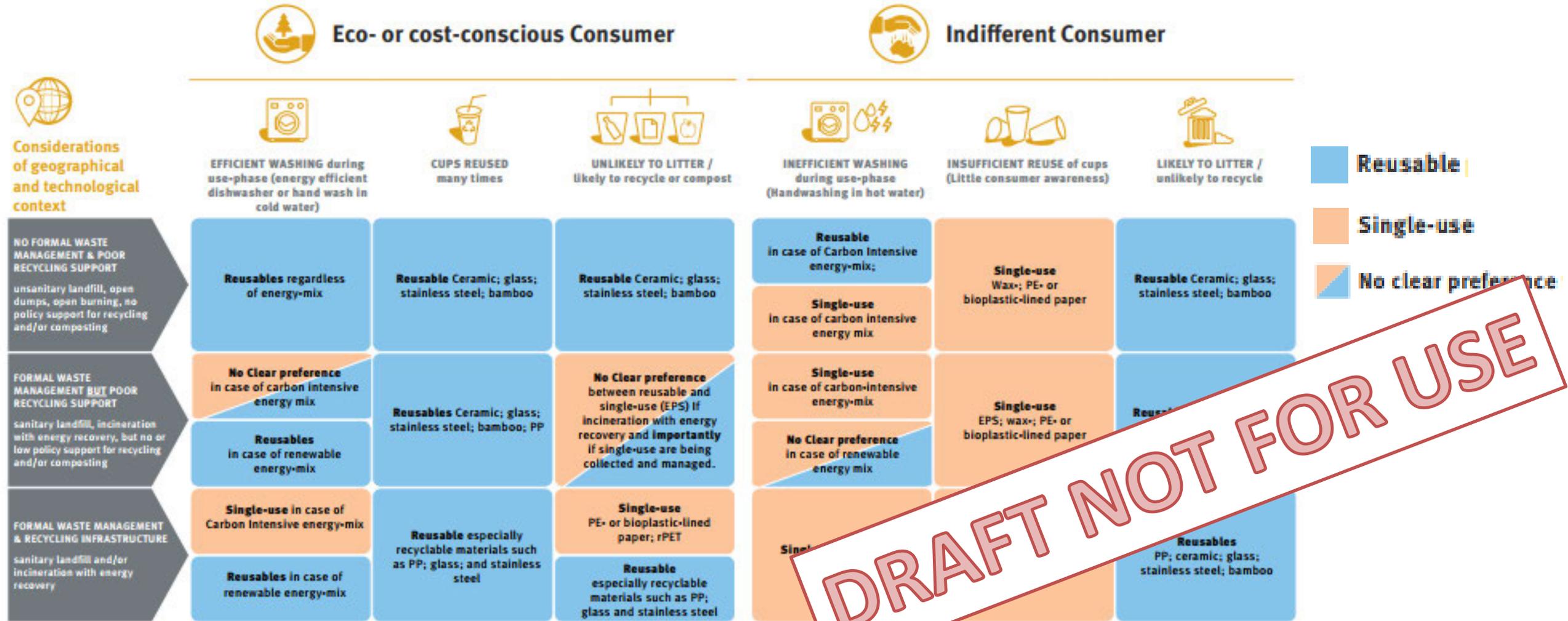
- **Reusable products are environmentally preferable** to single-use ones, regardless of the material, if reused enough times "*the issue isn't just plastic, it's how we use it*"
- **LCA studies need to be supplemented** with a range of additional studies and knowledge (e.g. litter-related impacts)
- Policy design needs to **consider the country context** (energy mix; waste mgt; consumer behaviour...)
- **Cultural context is equally important:**
  - Acceptability of reusable alternatives – social norms
  - **User behaviour** (washing, laundering, changing etc.)
  - Access to waste management – likelihood of littering
  - **Cost (perceived vs. real)**

# What do the LCA meta-analyses tell us?

Life Cycle Assessment (LCA) meta-analyses of existing studies



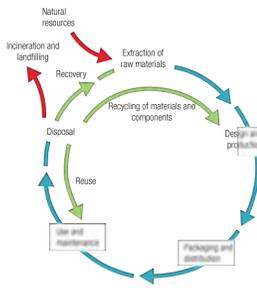
Preferred type of beverage cups depending on waste management context and behavioural considerations.



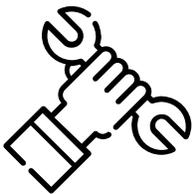
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# What next?

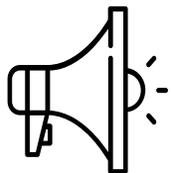
Informing policy with LCA knowledge from SUPP studies



- Most current policy actions relate to use or after-use of plastic products (e.g. end-of-life)
  - Addressing SUPP pollution requires systems change: LCA informs potential trade-offs and hotspots
  - More **comprehensive policies** emerging that address multiple stages of plastic product lifecycles
  - Critical elements: clear definitions, enforcement, targets, timeline



- **Impacts from litter** not yet included in LCA: watch for [www.marilca.org](http://www.marilca.org)
- Updates in LCA datasets of oil & gas extraction to include new data on **methane emissions from venting and flaring**



- Virtual Event UNEA5, Friday 19<sup>th</sup> February 12h-13:30 CET **REGISTER!**





# THANK YOU

Addressing single-use plastic products pollution with a life cycle approach

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Llorenç Milà i Canals  
Life Cycle Assessment Team Leader, UNEP  
[Llorenc.milaicanals@un.org](mailto:Llorenc.milaicanals@un.org)

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Consumer Policies

#GENeva #BeatPlasticPollution



**Teresa MOREIRA**

Head, Competition and Consumer Policies Branch, United Nations Conference on Trade and Development





- **Focal point for Competition and Consumer Policies within the UN system: UN General Assembly resolutions 35/63, 5 December 1980 and 70/186, 22 December 2015**
- **The custodian of the UN Set of Principles and Rules on Competition (1980) and the UN Guidelines for Consumer Protection (1985, revised in 1999 and 2015)**

# United Nations Guidelines for Consumer Protection (UNGCP)



## Objectives include

- To facilitate production and distribution patterns responsive to the needs and desires of consumers;
- and
- To promote sustainable consumption.

## Consumers *legitimate needs* include:

- *Access by consumers to adequate information to enable them to make informed choices according to individual wishes and needs;*
- *Consumer education, including education on the environmental, social and economic consequences of consumer choice;*
- *The promotion of sustainable consumption patterns.*

Other recent recommendations address National policies for Consumer Protection as crucial instruments to establish an adequate legal and institutional framework and Good Business Practices.



Guidelines 42-48

"Consumer education": *knowledge and skills to increase the competence of consumer decision-making.*

"Consumer information": *data to enable decision-making in relation with a purchase.*

UNCTAD Manual on Consumer Protection, 2018

Both are essential for Empowered Consumers but need to be combined with Consumer Protection frameworks.

Consumers right to information: necessary for informed choices according to individual wishes and needs but NOT sufficient to guarantee rational and/or sound purchase decisions.

## EDUCATION AND INFORMATION PROGRAMMES

- ❖ Developed by Governments but also by Consumer organizations and other relevant stakeholders;



- ❖ Encompassing formal education (basic curriculum of the educational system) and stand-alone initiatives;
- ❖ Covering general/horizontal issues as well as theme/sector-specific topics;
- ❖ Special attention granted to vulnerable and disadvantaged consumers.

# SUSTAINABLE CONSUMPTION

## Section H, guidelines 49-62

### Main points:

- ✓ Shared responsibility: member States; businesses; consumer associations; environmental organizations. Consumers need to be informed;
- ✓ Policy-making in partnership with all relevant stakeholders;
- ✓ Mixed instruments and tools are welcomed: regulatory mechanisms, standards, business initiatives;
- ✓ Research, methodologies and data are necessary to support planning and monitoring;
- ✓ Business encouragement towards new sound products and services as new technologies;
- ✓ Governments and international organizations should lead examples of sustainable practices in procurement.



# PRINCIPLES FOR GOOD BUSINESS PRACTICES

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## Part IV - Guideline 11:

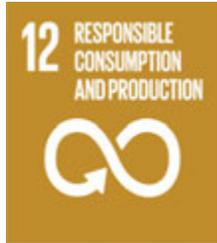
- Fair and equitable treatment;
  - Commercial behaviour;
  - Disclosure and transparency;
- Education and awareness-raising;
  - Protection of privacy;
  - Consumer complaints and disputes.

Other relevant recommendations refer to:

- Encouraging high levels of ethical conduct for traders and providers (Part I. *Objectives*, guideline 1. b) and c):
- Private sector standards (Part II. *Scope of application*, gdl. 2);
- Business compliance with Consumer protection laws and regulations across the world (Part III. *General principles*, gdl. 9).
- Self-regulation (codes of conduct; trustmarks) as a important complement to Consumer protection law and policy, NOT a substitute to public rules and measures.



# Focus on Sustainable Consumption and Production



"Sustainable Consumption includes meeting the needs of present and future generations for goods and services in ways that are economically, socially and environmentally sustainable", United Nations Guidelines for Consumer Protection

- **Doing more and better with less;**
- **Manage resources efficiently (lifecycle thinking);**
- **Reduce waste generation through prevention, reduction, recycling and reuse (SDG 12, sub-target 5)**
- **Reduce resource use, environmental degradation, waste and pollution along the whole life cycle, while increasing quality of life;**
- **Size opportunities for developing countries - "leapfrogging"**



United Nations Environment Programme, Sustainable Consumption and Production, a Handbook for Policymakers, 2015

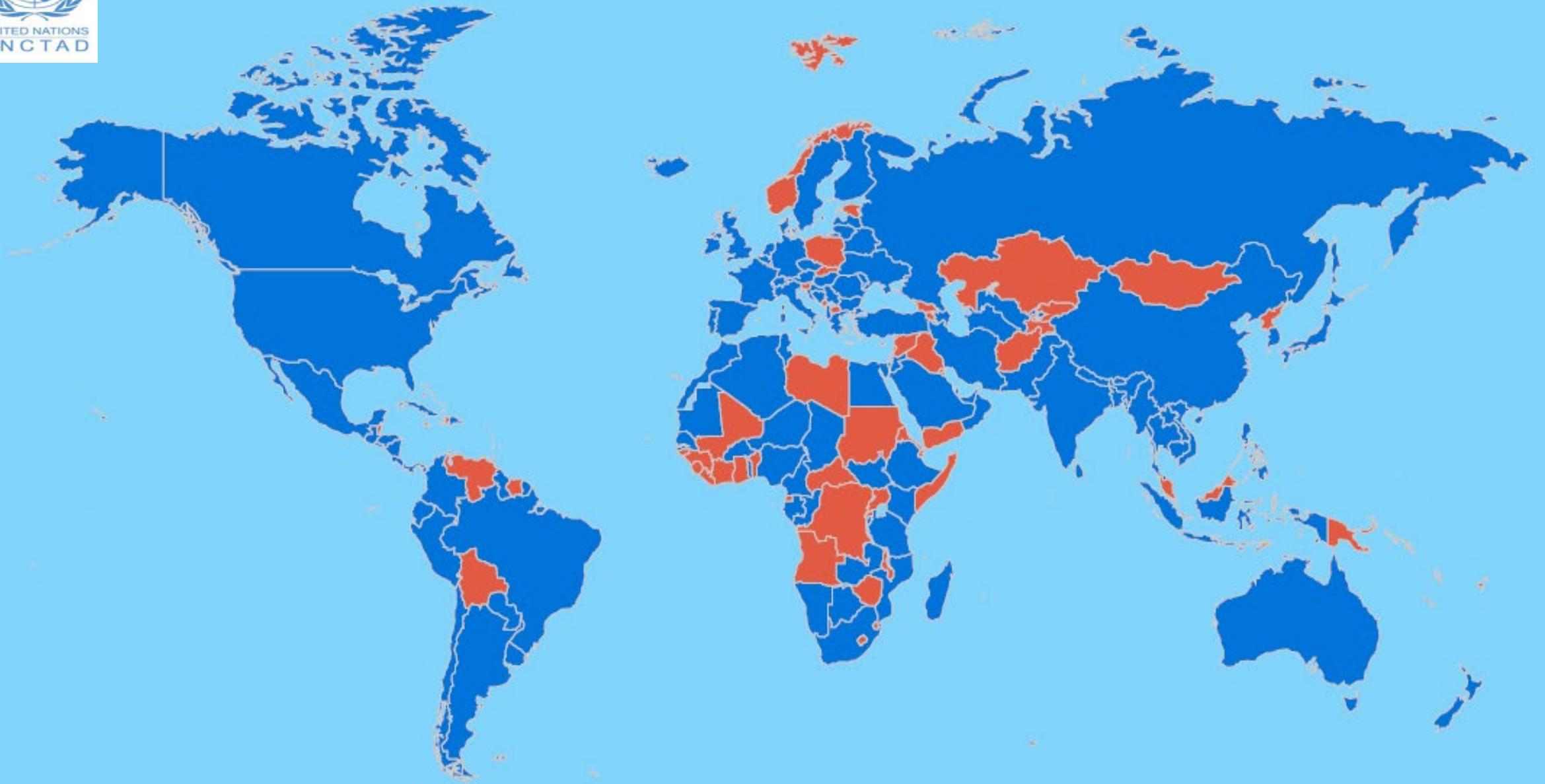




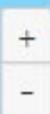


# World Consumer Protection Map

Countries that have designated a consumer protection contact point



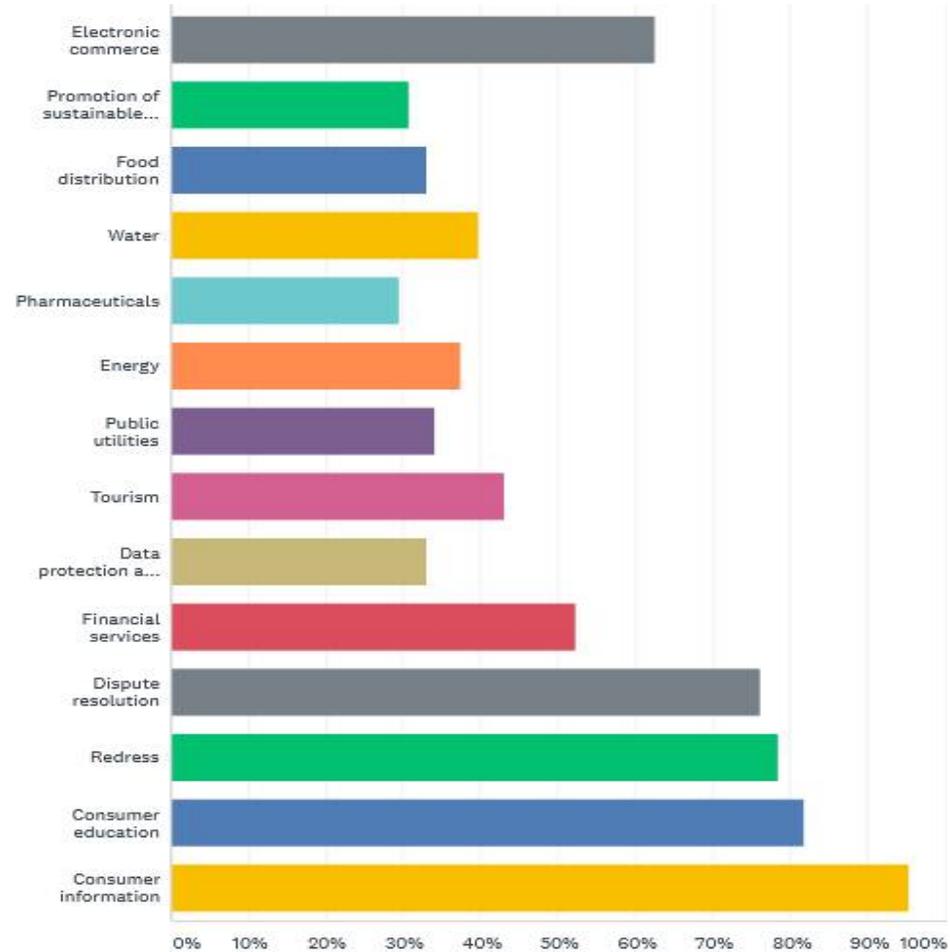
● Yes ● No ● No answer



# WCPM on Sustainable Consumption

**30.68% (27) of the countries taking part of the WCPM have consumer laws covering the promotion of sustainable consumption**

(89 Countries are in the WCPM )



## Role of Consumer Protection Agencies

The Four-E approach is fostering sustainable consumer behavior (UK Sustainable Development Research Network, SDC 2010)

**Enable** access to sustainable choice: education, skills, information;

**Encourage** people through incentives to sustainable choice and taxes on unsustainable options;

**Engage** people in the process of change (public consultations for inputs on policy design);

**Exemplify** with Government policies and practices (public procurement; training of civil servants).



# Consumer policy and Economic policy measures

- **Inform, educate and empower Consumers for informed, sustainable and responsible consumption choices:** recycling as an example;
- **Target different groups of consumers:** children and young persons; women; adults; elderly; low-income households; immigrants;
- **Dialogue with business to encourage more sustainable production (incentives)** product sustainability information; self-regulation initiatives to complement and strengthen consumer protection – see **voluntary sustainability standards**, developed to transform production, global supply chains and consumption patterns through incentives for producers (264 active VSS worldwide as of April 2020);



- **Circular Economy** action plans: to modernise and transform economies while protecting the environment. Changing the way we consume and the way we produce during the entire cycle of products. Consumers need to have a choice of environmentally sound products and be able to identify them, for example, through labelling and environmental seals.

# Consumer policy and Economic policy measures (2)

Plastics: measures aiming to ban (Kenya, EU) or phase out single-use plastics and replace them by durable products for multiple use; strongly encouraging recycling – Reduce, Reuse, Recycle.

Add an “S” related to increased Supply and demand of plastic substitutes (non-plastic materials) and a “W” related to the needed support and investment in Waste management

Snapshot annual exports in selected plastics along value chain (\$US billions and Million Metric Tons, for year 2018).

Some data  
on Plastics  
from  
UNCTAD

	Global Exports	SIDS and Small States Exports
Intermediate forms of plastic	\$ 158 bn ( 39 MMT)	\$ 1.4 bn ( 0.5 MMT)
Intermediate manufactured plastic goods	\$ 83 bn ( 18MMT)	\$ 155 million ( 0.24 MMT)
Final manufactured plastic products	\$ 416 bn ( 74 MMT)	\$2.2 billion (0.29 MMT)
Plastic textiles	\$209 bn ( 38MMT)	\$ 654 million ( 0.7 MMT)
Plastic packaging	\$53 bn (14MMT)	\$ 0.3 bn ( 0.08MMT)
<b>Total plastics exports</b>	<b>\$ 1008 bn ( 336 MMT)</b>	<b>\$15 bn ( 8 MMT)</b>

Source: data from UNCTAD Plastics database (prototype) as of February 2021.

Note: total volume is the sum of all individual transactions, i.e. the volume of plastics traded, not necessarily the volume created.

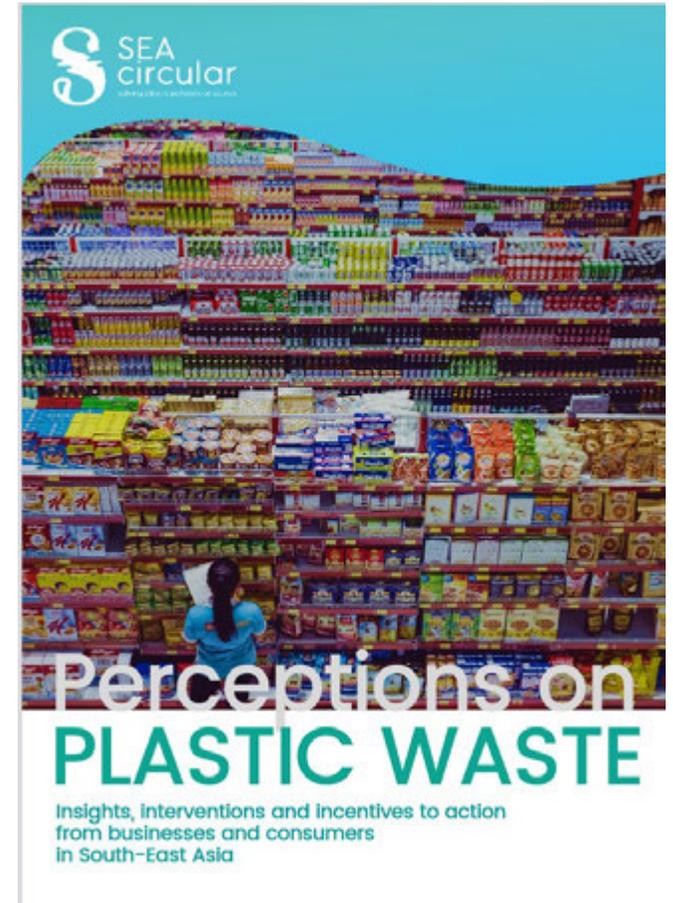


# Developing countries impact and Consumer perception

- Much of the world's waste ends up in less developed countries with looser regulation.
- The spread of secondary material imports (including plastics) into developing countries has widened since China's import ban (2017).
- More than 50% of plastic scrap traded (in both value and weight) are declared as mixed plastics, the cheapest (lowest average declared value by traders), but also harder and more costly to recycle, and worse for the environment.
- Imports of mixed plastics are subject to the lowest average import tariff of 5.4%, the lowest rate among all 4 categories studied.
- Price discrepancy between declared plastic scrap exports and imports of mirroring partners support the fact that there could be a large 'shadow economy' in trade of plastics scrap.

## - UNEP's recent report focused in South-East Asia findings include:

- 91% of consumers state that they are concerned about plastic waste issues.
- About 54% of consumers are recycling and converting their plastic waste into useful products
- 76% of consumers indicate that campaigns should prioritize informing the public about the 3R (Reduce, Reuse, Recycle) concept.
- While 82% of businesses are extremely concerned about plastic waste issues, less than half feel that current efforts are enough. Less than 45% of companies in the five countries are focusing on recycling and reuse actions currently.



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# Some Conclusions

- It is essential to **improve the governance, quality, and traceability of plastics & plastic scrap trade**, acting both at the multilateral level, but also at **both ends of supply chains**.
- **Sustainable Consumption and Production** initiatives focusing on improving how plastics are made, used and recovered are needed, addressing both producers and consumers. Behavioral insights provide important tools for improved and adjusted policy-making.
- **Consumers** can play a very important role but need an encouraging framework: information and education campaigns by Governmental bodies, consumer organizations and other NGOs, and associating businesses are crucial; but direct, strong public measures aimed at production and distribution patterns, combined with the use of international standards and companies' voluntary commitments, are decisive.
- UNCTAD's programme in Consumer Policy and the UNCTAD's Blue Economy and Sustainable Manufacturing and Environmental Pollution projects (supported by the UN development account and the FCDO-UK and active in this area) contribute to highlight and achieve Sustainable Consumption and Production across the world, and help to improve plastics governance in developing countries with high future growth potential.





**THANK YOU!**

[teresa.moreira@unctad.org](mailto:teresa.moreira@unctad.org)

<https://unctad.org/Topic/Competition-and-Consumer-Protection>





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Global Plastic Action Partnership

#GENeva #BeatPlasticPollution



**Kristin HUGHES**  
Director, Global Plastic Action Partnership, World Economic Forum





GLOBAL  
PLASTIC ACTION  
PARTNERSHIP

February 2021

**Shaping a more  
sustainable and  
inclusive world through  
the eradication of  
plastic pollution**



# About GPAP



GLOBAL  
PLASTIC ACTION  
PARTNERSHIP

# What is the Global Plastic Action Partnership?

The Global Plastic Action Partnership (GPAP) is a multistakeholder platform at the World Economic Forum that aims to shape a more sustainable and inclusive world through the eradication of plastic pollution.

Through its impartial global and national platforms, it is uniquely equipped to bring together public, private and civil society leaders to develop joint solutions to the plastic pollution crisis that are both pragmatic and ambitious.

## Affiliated with



## Supported by



Canada



## Hosted at

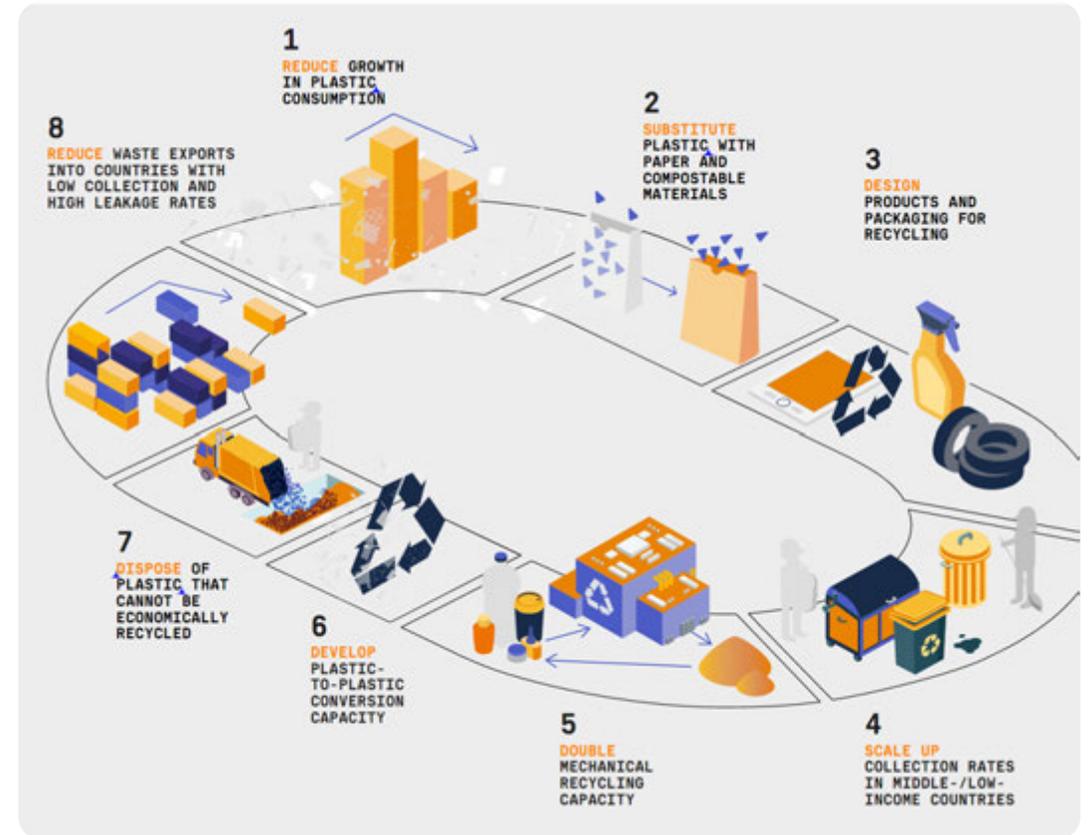


# GPAP is championing the global shift to a circular economy for plastics

It's time to move past the 'take-use-dispose' mindset and towards a closed-loop approach to plastics – one that transforms the life cycle of plastics at all stages, from production to consumption to re-use.

GPAP is the first platform in the world to adopt a groundbreaking model (first created by The Pew Charitable Trusts and SYSTEMIQ) that allows governments to measure, evaluate and address their national plastic pollution challenges in a structured, systemic way.

**Indonesia, Ghana and Viet Nam are the first three countries in the world to pioneer this systems change approach to adopting circular plastics economy.**



Adapted from *Breaking the Plastic Wave*, The Pew Charitable Trusts and SYSTEMIQ, 2020

# What is a National Plastic Action Partnership (NPAP)?

**National Plastic Action Partnerships are the driving force behind the impact that the Global Plastic Action Partnership aims to achieve and replicate around the world.**

NPAPs are locally led multistakeholder platforms that enable collaboration between national governments and other vital partners to turn commitments to plastic waste and pollution reduction into action.

They bring together diverse and inclusive communities of changemakers – business leaders, policy-makers, academics, and international and grassroots organizations – to collectively tackle plastic pollution.



**With this partnership, Ghana is taking a historic step forward in our environmental stewardship, our sustainable growth, and our vision for the future.**

**H.E. Nana Akufo-Addo**

President of Ghana



# At both the global and national levels, GPAP works in three key ways



## 1. Convene communities and curate conversations

- ✓ Build national platforms in partner countries that are led and guided by each nation's most influential leaders and change-makers in government, business and civil society
- ✓ Shape a global platform that draws its strength from the inclusive and enthusiastic participation of policy-makers, business leaders, researchers, civil society advocates and social entrepreneurs



## 2. Generate new insights and action roadmaps

- ✓ Establish country-level baselines for measuring plastic waste flows and forecasting the amount of waste that could be reduced through robust policies and investment, thus presenting governments with a clear imperative for action
- ✓ Produce national action roadmaps that present a comprehensive path forward for reducing plastic pollution and achieving a circular economy
- ✓ Create global and national guidance on gender mainstreaming for actors across the plastics value chain



## 3. Catalyse strategic financing

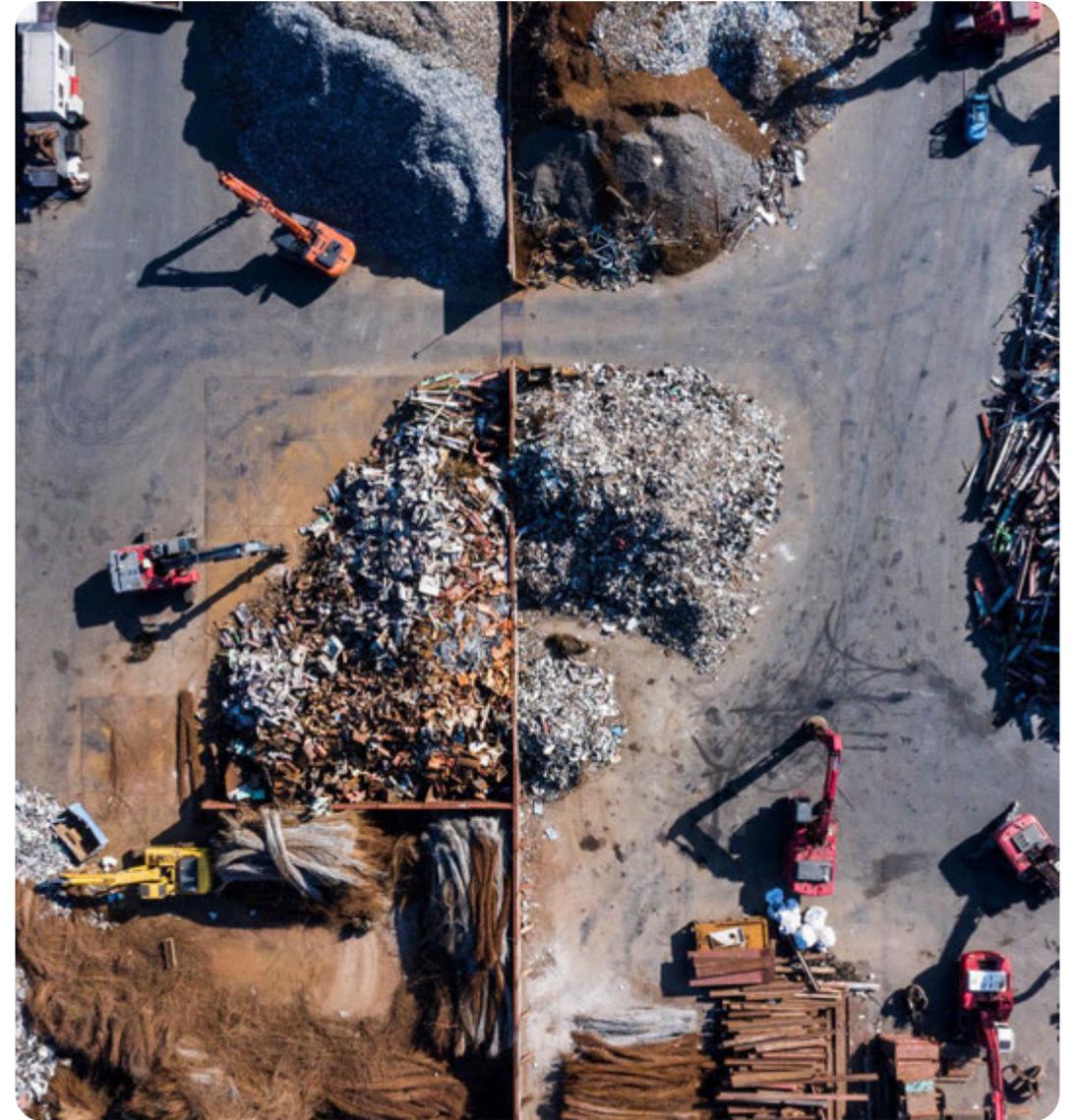
- ✓ Build financing roadmaps for mobilising and attracting funding needed to implement national action plans
- ✓ Forge powerful partnerships globally and nationally dedicated to unlocking financial mechanisms that will give governments a critical boost in turning ambitious action plans from concept into reality

# Looking ahead

We're at a critical moment for accelerating progress. Actions and achievements in the next five years will change the trajectory for 2050.

The COVID-19 pandemic has triggered an unprecedented increase in the amount of mismanaged plastic waste. As a platform created to champion bold, collective, accelerated action on plastic pollution and waste, GPAP is working to rapidly scale up its operations, such as through:

- Bringing the NPAP model to new countries
- Building and strengthening in-country task forces to turn recommendations into on-the-ground action
- Embedding a gender-responsive approach across all work, prioritizing women, girls and traditionally marginalized groups in the transition to a circular economy
- Developing a user-friendly interface to support governments to carry out national plastic leakage assessments and scenario analysis



# Thank you

[globalplasticaction.org](http://globalplasticaction.org)

@PlasticImpact



EVENT | VIRTUAL

# Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle/SCP

11 FEB 2021 14:00 - 15:30

Online | Webex

GEN

📍 Chemicals and Pollution | Green Economy

🌐 SDG3 | SDG12

## Agenda

### Introduction and Setting the Scene

- Introduction to the Session and Setting the Scene | David AZOULAY

### Governance on Plastics and Life Cycle

- UNEP Life Cycle Initiative | Llorenç MILA
- Consumer Policies Contribution | Teresa MOREIRA
- **Global Plastic Action Partnership** | Kristin HUGHES
- A New Plastics Economy | Carsten WACHHOLZ
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# Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle / SCP

Thursday 11 February 2021 | 14:00 CET

## A New Plastic Economy

#GENeva #BeatPlasticPollution



**Carsten WACHHOLZ**

Senior Policy Manager, Institutions,  
Governments, and Cities, Ellen  
MacArthur Foundation



**ELLEN MACARTHUR  
FOUNDATION**



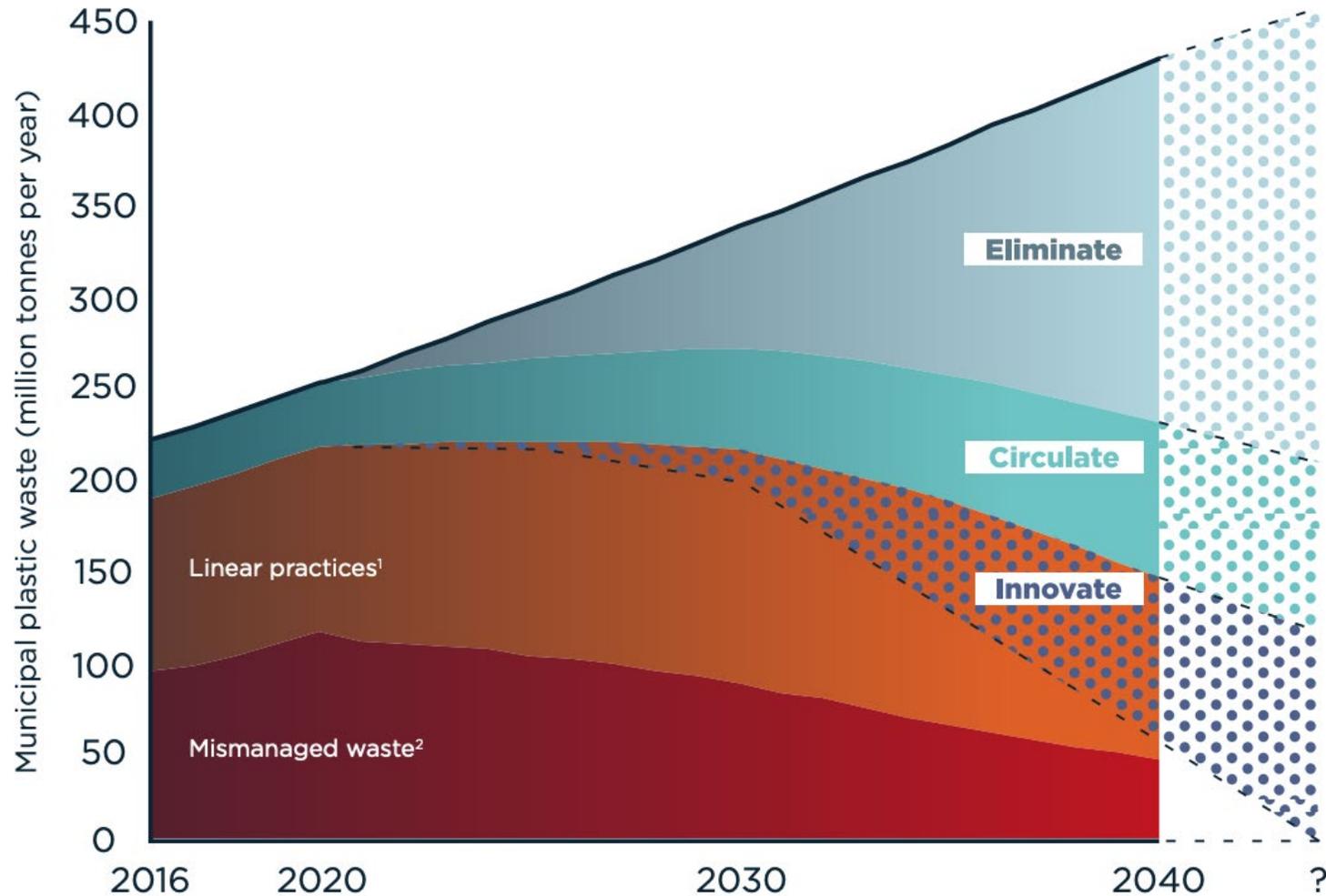
# Plastics in the Life Cycle/ SCP

Geneva Beat Plastic Pollution Dialogues

Carsten Wachholz  
Senior Policy Manager



# A comprehensive circular economy approach to plastics is needed



Based on data from *Breaking the Plastic Wave* study by The Pew Charitable Trusts and SYSTEMIQ (2020)

<sup>1</sup> Including landfilling, incineration, and conversion of plastic to fuel or energy

<sup>2</sup> Including open burning, leakage into the environment and into the ocean

<sup>3</sup> Solid lines represent the outcomes of the analytical modeling of the *Breaking the Plastics Wave* study. Dashed lines and dotted shading are illustrative, representing the impact of innovation and the impact of continued eliminate and circulate efforts beyond 2040



Perspective on 'Breaking the Plastic Wave' Study: The Circular Economy Solution To Plastic Pollution (2020)

**ONE COMMON VISION** of a circular economy for plastics...



*Global  
Commitment*

**PLASTICS  
PACT**



**UNITING 1000+ ORGANISATIONS** around the world

# Signatories reporting in 2020

**3**

Raw material producers - compostable plastics

**5**

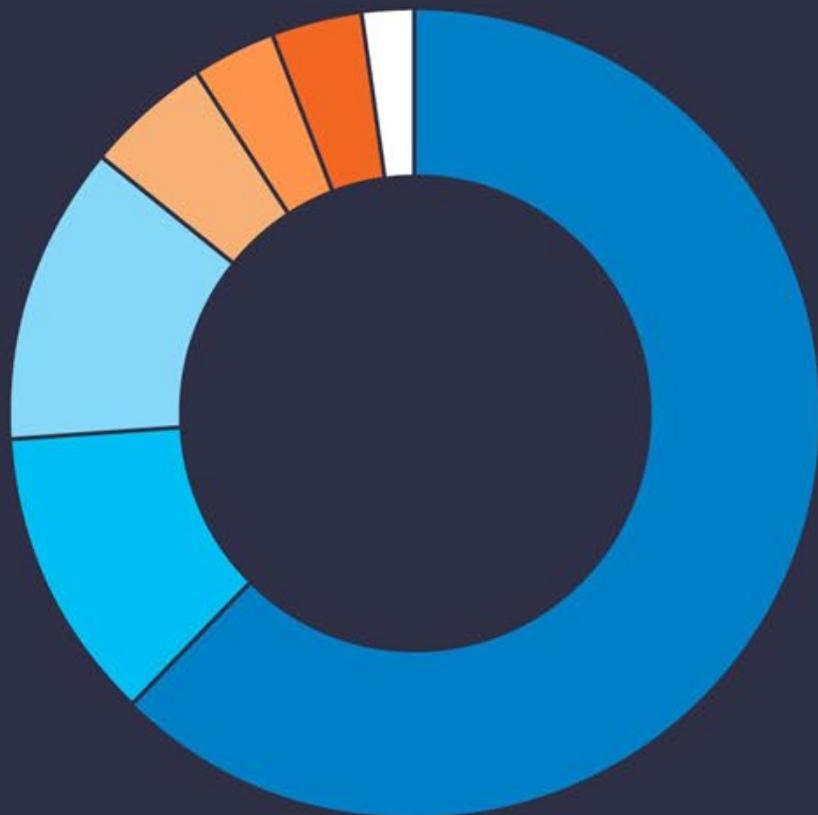
Raw material producers - non-compostable plastics

**5**

Durable goods producers

**7**

Suppliers to plastic packaging industry



**89**

Packaged goods companies, packaging producers and retailers

**17**

Collecting, sorting and recycling companies

**17**

Governments

**28**

Packaging

**16**

Apparel, footwear & accessories

**11**

Household & personal care

**11**

Food

**9**

Beverages

**7**

Retail

**3**

Cosmetics

**4**

Other

## We call on businesses to...



Take bold action on **packaging types** that are not recyclable today



Set ambitious **reduction targets**

## and governments to...



Establish policies and mechanisms for **stable funding for recycling**, e.g. through EPR



Set an **international framework for action** for a circular economy for plastic, through the UN Environment Assembly

**GOAL ONE**

STIMULATE DESIGN FOR  
THE CIRCULAR ECONOMY

**GOAL TWO**

MANAGE RESOURCES  
TO PRESERVE VALUE

**GOAL THREE**

MAKE THE  
ECONOMICS

**GOAL FOUR**

INVEST IN INNOVATION,  
INFRASTRUCTURE,  
AND SKILLS

**GOAL FIVE**

COLLABORATE FOR  
SYSTEM CHANGE





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# Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle / SCP

Thursday 11 February 2021 | 14:00 CET

Indonesia Lifecycle Approach

#GENeva #BeatPlasticPollution



**Awidya SANTIKAJAYA**

Counsellor, Permanent Mission of  
Indonesia to the United Nations in  
Geneva



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# Indonesia's experience and perspective in combatting plastic pollution

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**Awidya Santikajaya**

Permanent Mission of Indonesia to the United Nations in Geneva

**#beatplasticpollution**

# Plastic matters: Environment vs Economy

## Plastic as an environmental problem

Total Waste  
Generated

65,8 million tons/year  
(MoEF, 2017)

Plastic  
Waste  
Generation

6,8 million tons/year  
(NPAP WEF, 2020)

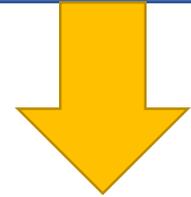
Plastics  
Waste  
Leakage

0,27 – 0,59 million tons/year  
(LIPI, 2019)

Business as  
Usual  
Scenario

Population (↑)  
Economic growth (↑)  
Plastics Production and Usage (↑)  
Plastic Waste Collection and Recycle (=)

- Indonesia is home for 17.491 islands
- World's 2<sup>nd</sup> longest coastline 108.000 km
- More than 330 big rivers end up to the ocean
- 50 % population live within 50 km from the sea
- Local and global ocean currents transferred marine litter



## Geographical Factors:

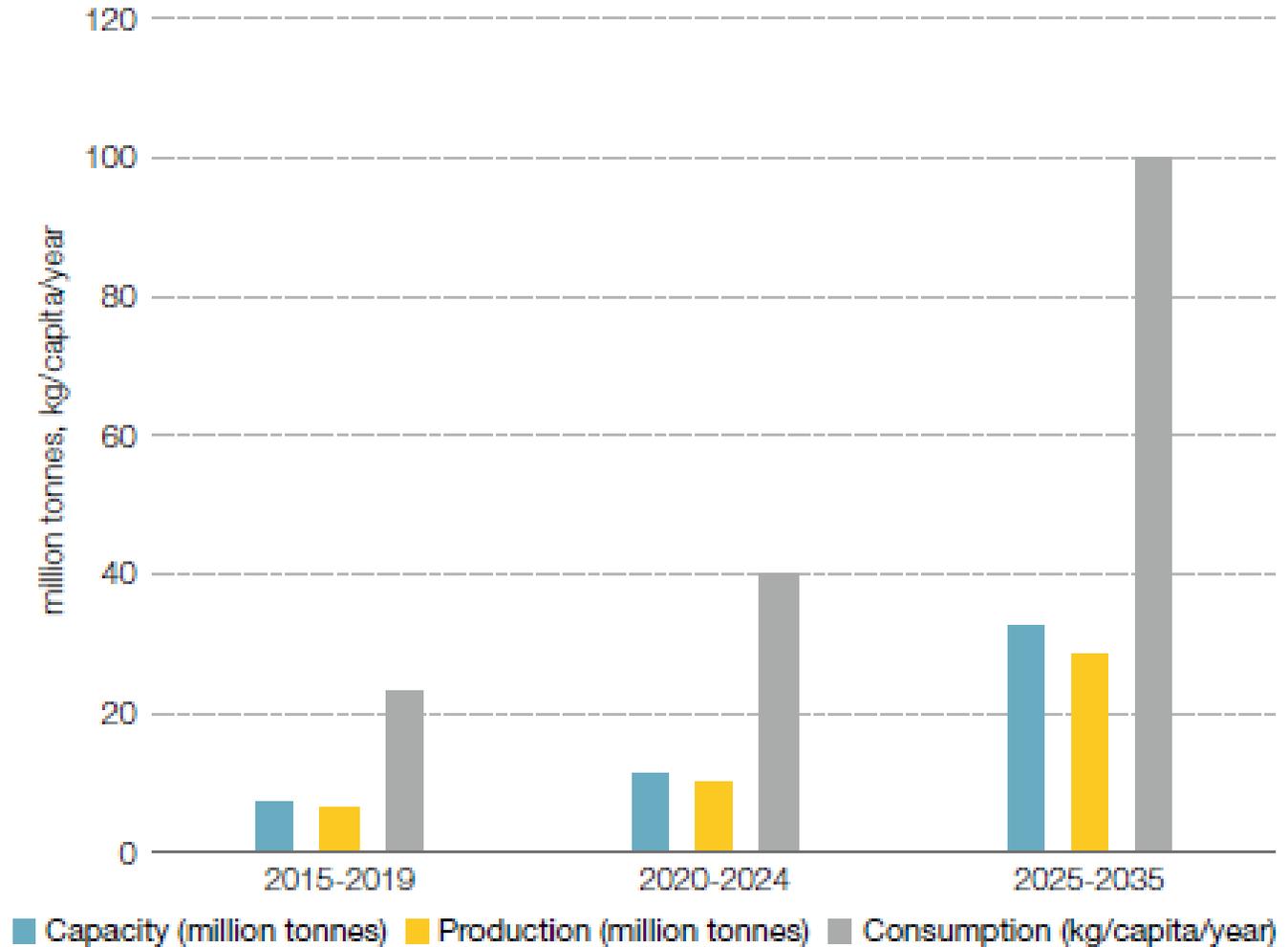
Unmanaged Plastic waste easily enters the sea



## Economic dimension of plastic

Number of companies producing plastic	1,580 companies
Number of workforces	37,327 people
Production	2,310,000 tonnes /year
Import	1,670,000 tonnes/year

## Plastic industry development in Indonesia



## Tricky question:

**How to develop win-win policies to address plastic pollution?**

Source: MoI, SWI, MoEF

# Indonesia's holistic approach to plastic problems

**Presidential Regulation No. 97 / 2019  
on National Action Plan on Waste  
Management**

**Presidential Regulation No. 83 / 2018  
on National Action Plan on Tackling  
Plastic Marine Debris**



- Reduce marine plastic debris by 70% by 2025
- Reduce waste by 30% by 2025
- Increase the quantity of waste properly handled by 70% by 2025

**Carried out by 16 line Ministries /  
Agencies through 5 main activities**

**Public education**

**2**

**Improving waste management**

**1**

**Funding mechanism and law enforcement**

**4**

**Research and development**

**3**

**Prevention of plastic waste leakage in coastal and the sea**

**5**

Year	Waste generation projection (tonne)	Plastic waste generation projection (tonne)	Target plastic waste reduced through EPR effort (tonne)
2020	67,8000,000	9,492,000	1,423,800
2021	68,500,000	9,590,000	1,726,200
2022	69,200,000	9,688,000	1,937,600
2023	69,900,000	9,786,000	2,250,780
2024	70,600,000	9,884,000	2,471,000
2025	70,800,000	9,912,000	2,973,600

## Extended Producer Responsibility

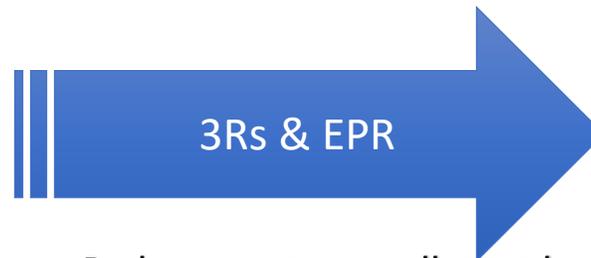
Source: Mol, SWI, MoEF

**New paradigm**

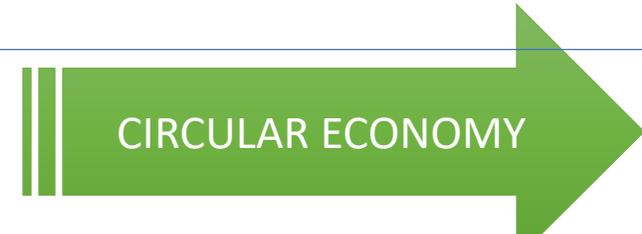
Towards a circular economy



- Waste as pollutant loads
- No waste reduction
- No waste to resource
- No resource efficiency
- Full virgin resource extraction
- Linear economy: make-use-dispose



- Reduce waste as pollutant loads
- Reduction at source
- Waste to resource
- Resource efficiency
- Limit virgin Resource extraction
- Producer responsibility

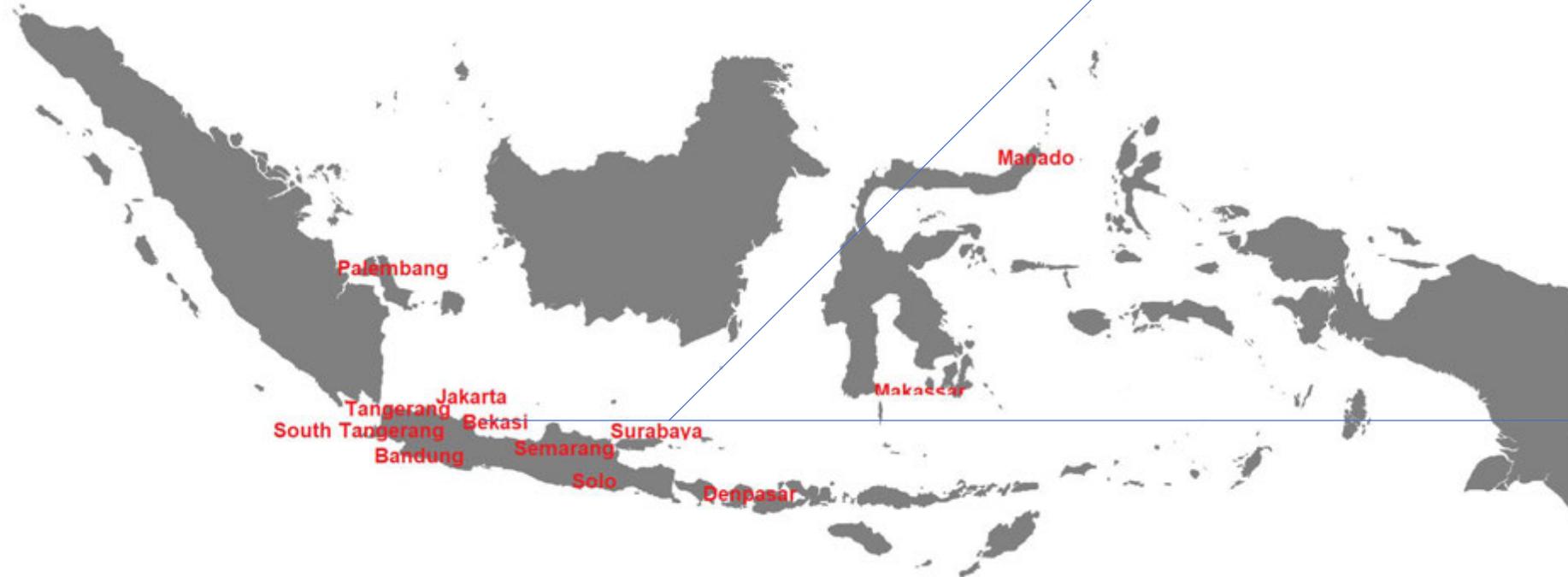


- Eliminate single-use plastic items, design for reuse & recycle
- Make waste a new life as long as possible
- Achieve sustainable cities and communities (sdg goal no 11)
- Achieve responsible consumption and production (sdg goal no 12)

## Plastic waste-to-electricity

Presidential Regulation No.35/2018 Presidential Regulation on Acceleration of Development of Waste-to-Energy Installation using Environmentally-sound Technology

Waste-to-energy plants are being built in 12 cities across Indonesia



## Plastic asphalt



Plastic tar road in Bali

## Plastic waste-to-fuel



- The First Refuse-Derived Fuel (RDF) plant in Indonesia has been in operation since July 2020 in Cilacap Regency.
- It converts 20 tons of domestic waste into RDF to substitute coal or co-firing at the production of cement by PT. Semen Indonesia.

## NATIONAL PLASTIC ACTION PARTNERSHIP (NPAP)

- A multi-stakeholder platform for collaboration on solutions between various stakeholders
- Officially launched in May 2020 by Indonesia and WEF

### Action Plan: 5 Key Changes

#### Reduce

Reduce or substitute (R&S) plastic usage to prevent consumption

#### Substitute

Redesign plastic products and packaging for reuse or high-value recycling

#### Collect

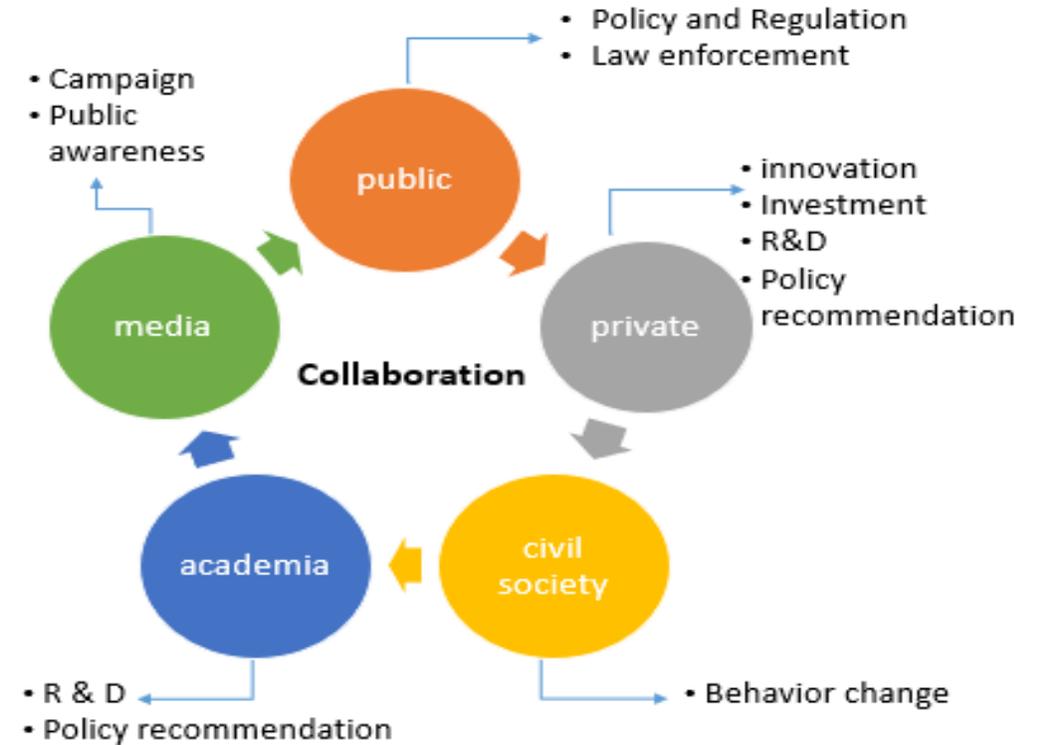
Boost formal and informal collection systems to collect more waste

#### Dispose

Build or expand controlled waste disposal facilities

#### Recycle

Quadruple current recycling capacity





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## Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle/SCP

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# EU PLASTICS STRATEGY

#GENeva #BeatPlasticPollution



**Hugo SCHALLY**

Head of Unit, Multilateral  
Environmental Cooperation, DG  
Environment, European Commission





# Plastics in the Life Cycle/ SCP

Geneva Beat Plastic Pollution Dialogues, 11 February 2021

*Hugo-Maria Schally, Head of Unit,  
DG Environment, European Commission*

# A new vision for Europe



*35 actions along the entire life cycle of products, to:*

- Make **sustainable products** the norm in the EU
- **Empower** consumers and public buyers
- **Focus also on key product value chains**
- Ensure **less waste, more value**
- Make circularity work for **people, regions** and **cities**
- **Lead global efforts** on circular economy (eg. global agreement on plastics)

# Key product value chains



## Implementation of the EU Strategy for Plastics in a Circular Economy

- Mandatory requirements for recycled content and waste reduction measures
  - Reinforce mandatory essential requirements for packaging: design for reuse & recycling
  - EU-wide labelling that facilitates correct separation of packaging waste
  - Rules for safe recycling into food contact materials of plastic materials other than PET
- Address presence of microplastics in the environment
- Policy framework on bio-based and biodegradable plastics
- Implementation of Single Use Plastic Products Directive

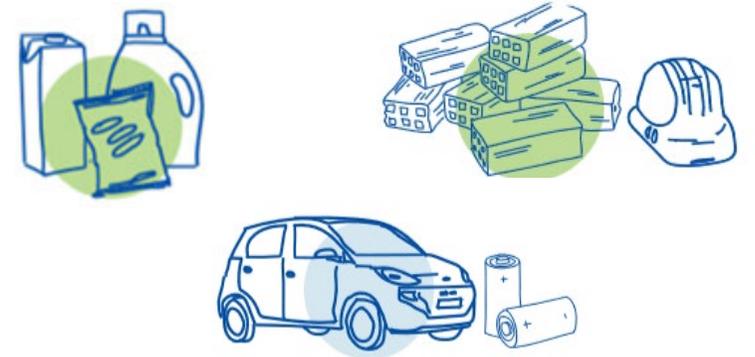
# Recycled content

## *Aim Plastics Strategy:*

**10 million tons of recycled plastics** in new products on the EU market by 2025



**Mandatory requirements** for key products such as packaging, construction materials and vehicles



# Microplastics

## Cosmetics, detergents, paints

- Towards a ban through REACH restriction dossier: by 2021?

## Tyres

- Revision Tyre Labeling Regulation
- Standard on tyre abrasion

## Pellets

- Chain certification & Permitting
- Operation Clean Sweep

## Textiles

- Standard on measuring microplastics releases
- Washing

## Microplastics in water

- Science related to risk & occurrence
- Legislation: water & marine

# Framework for bio-based and biodegradable plastics

Sourcing, labelling and use of **bio-based plastics**

- ⇒ Study on feedstock (LCA)
- ⇒ Study on sustainable sourcing and content

**Use of biodegradable plastics**

“no license to litter”

- ⇒ Study by Chief Scientific Advisors
- ⇒ Study on agricultural plastics

**Use of compostable plastics – criteria**

Limit cross-contamination of waste streams

Study finalised:

- Environmental benefit over alternative
  - Product not recyclable or reusable
  - Capture of bio-waste
- Quality of compost – contamination with non-compostable plastics

# Global efforts

- Global agreement on plastics
- Global Alliance on Circular Economy and Resource Efficiency
- ‘Safe operating space’ for natural resource use
- Reflections on an int’l agreement on natural resource management
- Promote CE bilaterally, regionally and multilaterally, incl. through development and international cooperation programmes
- Free trade agreements to reflect enhanced CE objectives

# Global Agreement on plastics

- No country can do it alone– the problem is transboundary in scale and nature
- Global action based on resource efficient and circular approach to plastics along its life-cycle
- Filling the gaps: regulatory and governance gaps exist along the full life-cycle but are most prominent in the upstream part
- Build on existing instruments and not duplicate efforts
- Embedded flexibility -national commitments adjusted to country specific context

# Global agreement on plastics– Key elements

- Common vision at a global scale
- Sustainable Production
- Sustainable Consumption
- Environmentally sound waste and wastewater management
- Monitoring and reporting
- Resource mobilisation

# Way forward

- Build on outcomes from Ad hoc open-ended expert group on marine litter and microplastics
- Sufficient information to urgently take action at global level
- Decision at UNEA 5.2 (February 2022) – establishment of an Intergovernmental Negotiating Committee?

Thank you!



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# Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle / SCP

Thursday 11 February 2021 | 14:00 CET

QUESTIONS

# Q & A

ANSWERS

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### Geneva Beat Plastic Pollution Dialogues | Plastics and Waste

26 NOV 2020 09:00 - 10:00

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics, Climate and Air Pollution

10 DEC 2020 14:00 - 15:00

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics and Human Rights

14 JAN 2021 14:00 - 15:00

Online | Webex  
GEN



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### Geneva Beat Plastic Pollution Dialogues | Plastics and Health

21 JAN 2021 14:00 - 15:15

Online | Webex  
GEN



EVENT | VIRTUAL

### Geneva Beat Plastic Pollution Dialogues | Plastics and Standards

28 JAN 2021 14:00 - 15:15

Online | Webex  
GEN



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### Geneva Beat Plastic Pollution Dialogues | Plastics and Trade

04 FEB 2021 14:00 - 15:30

Online | Webex  
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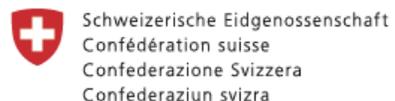
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### Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle/SCP

11 FEB 2021 14:00 - 15:20

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## High-Level Dialogue





# Virtual Events in Support of UNEA-5

17-19 February 2021

## Ocean Action for Sustainability

**Ocean Action for Sustainability - Building a global vision to tackle plastic pollution**

17 February 2021 | 17.00 – 18.30  
EAT | UNEP & Government of Kenya

## Plastic Waste & Basel Convention

**Tackling plastic waste through the Basel Convention**

18 February 2021 | 15.30 – 17.00  
EAT | Basel Convention

## Single-use plastic products pollution

**Addressing single use plastic products pollution with a life cycle approach**

19 February 2021 | 14.00 – 15.30  
EAT | UNEP Economy Division

## UN Science-Policy- Business Forum on the Environment

**Managing Risk: Marine Litter Mitigation and Prevention**

19 February 2021 | Part of the UN Science-Policy-Business Forum on the Environment



EVENT | CINEMA

## Wednesdays for the Planet | The Sanctuary: Survival Stories of the Alps

17 FEB 2021 13:30 - 15:30

Online

GEN

🕒 Nature

🌐 SDG14 | SDG15



Geneva Road Map:  
invitation to countries,  
IOs and CSOs to join  
the effort

Let's make this Super Year for Nature, one  
that makes a difference for its defenders

EVENT | VIRTUAL

## Geneva Roadmap 40/11 | Milestones and Opportunities in 2021

25 FEB 2021 13:00 - 14:30

Online | Webex

🕒 Human Rights and Environment



# Geneva Beat Plastic Pollution Dialogues | Plastics in the Life Cycle / SCP

Thursday 11 February 2021 | 14:00 CET

#GENeva #BeatPlasticPollution



Permanent Mission of Norway  
Geneva



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

