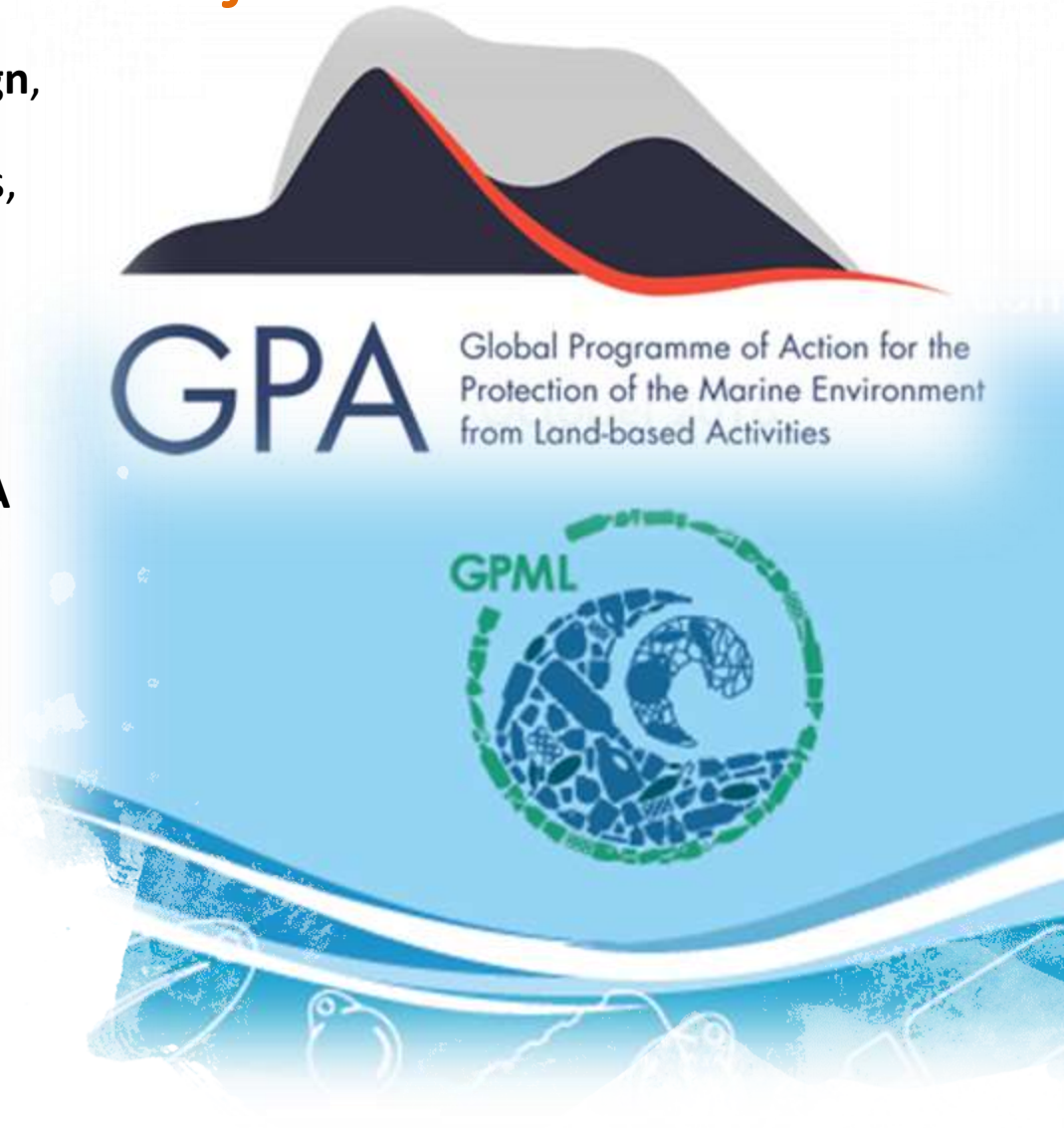


GPML and national source inventories/action plans

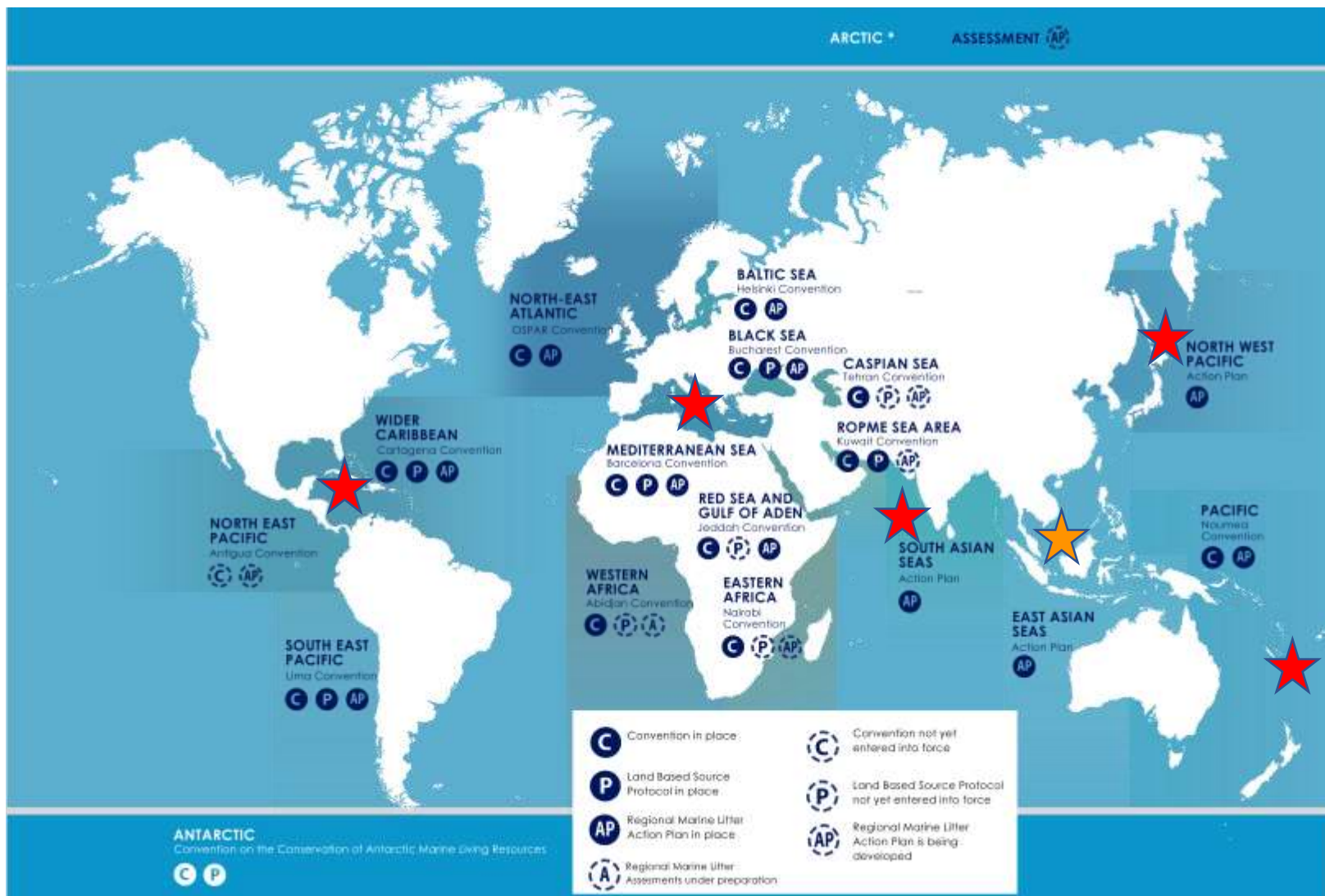
Heidi Savelli, Programme Officer, Marine Litter Programme
Global Programme of Action for the Protection of the Marine
Environment UNEP, Nairobi

Global Partnership on Marine Litter - specific objectives

- **Reduce the leakage** of plastics into the ocean, through **improved design**, the application of the '3Rs' principle (reduce, re-use, recycle), **encouraging 'closed-loop' systems** and more circular production cycles, maximization of resource efficiency and minimization of waste generation;
- Support the implementation of relevant UN General Assembly resolutions including 2030 Agenda for Sustainable Development, **UNEA resolutions & other rel. decisions**
- Support the **implementation of legal, policy, institutional frameworks** and relevant frameworks that implement international law rel. to ML/MP
- Contribute to **marine litter action plans** at different levels where appropriate, identify actors, information sharing, knowledge management, provide guidance - **best available scientific knowledge**, Platform / mechanisms – stimulate action and increase coordination,



Action Plans – Regional and national



18 Regional Seas Programmes,

11 Regional Action Plans on Marine Litter

4 Draft Regional Action Plans (various stages)

1 Assessment underway → Action Plan in 2020 (Abidjan C.)

5-6 Regional nodes – Global Partnership on Marine Litter

National source inventories pilots to guide action plan development in Kenya & Seychelles



Knowledge



- IMO: MARPOL Annex V training course, fibre glass / hull scrapings
- FAO: Abandoned, lost of discarded fishing gear; microplastics – fisheries and aquaculture
- GESAMP: microplastics, risk assessment, guidelines
- UN Habitat: Waste flow analysis, inventories and hotspots
- Emerging issues – IOC-UNESCO
- **G7: Costs of action and non-action**
- **G20: reference to UNEP 2016 Marine Plastic Debris and Microplastics report**



COBSEA Regional Action Plan on Marine Litter

Adopted in 2008; **revised 2019** to align with UNEA and SDGs

I. Background and Rationale

II. Goals and Objectives

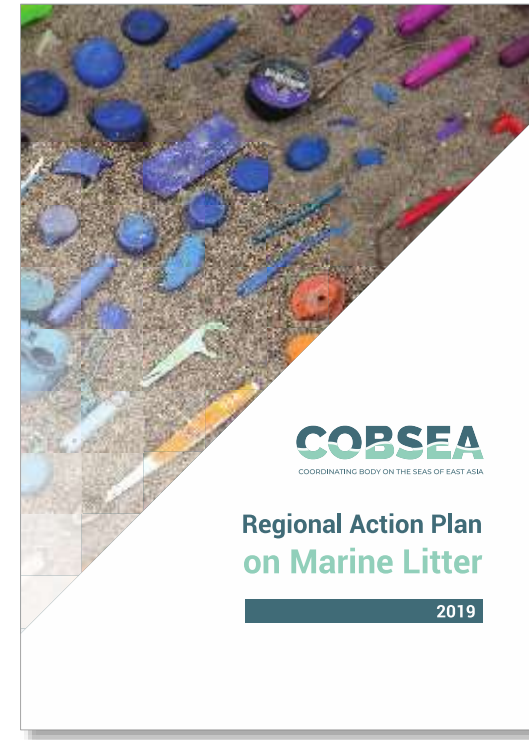
III. Actions: ***land-based sources; sea-based sources; monitoring; enabling conditions***

IV. Modalities for Implementation

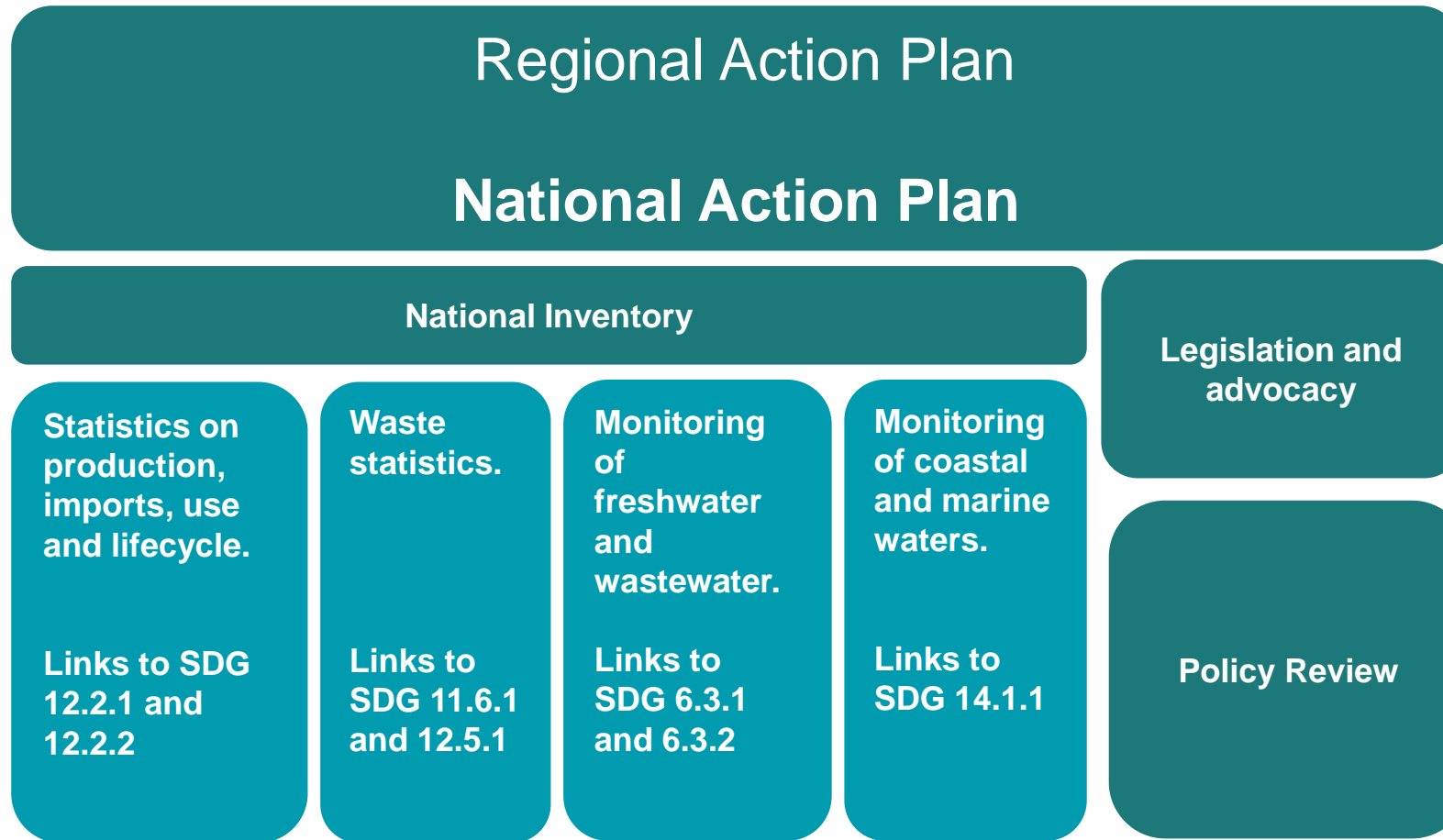
Appendix 1: Relevant SDGs

Appendix 2: ***Description of actions***: initial prioritization

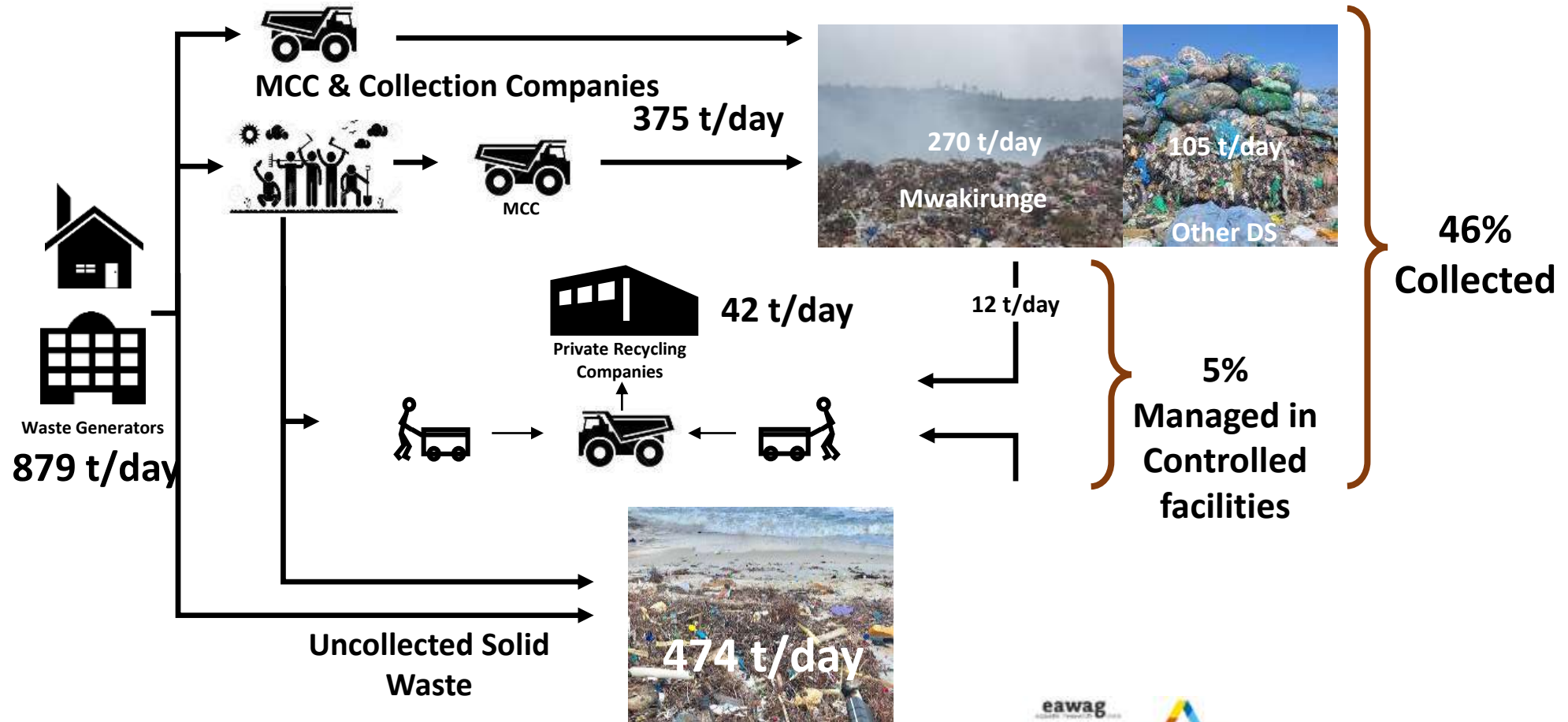
Appendix 3: Terms of Reference of the
COBSEA Working Group on Marine Litter



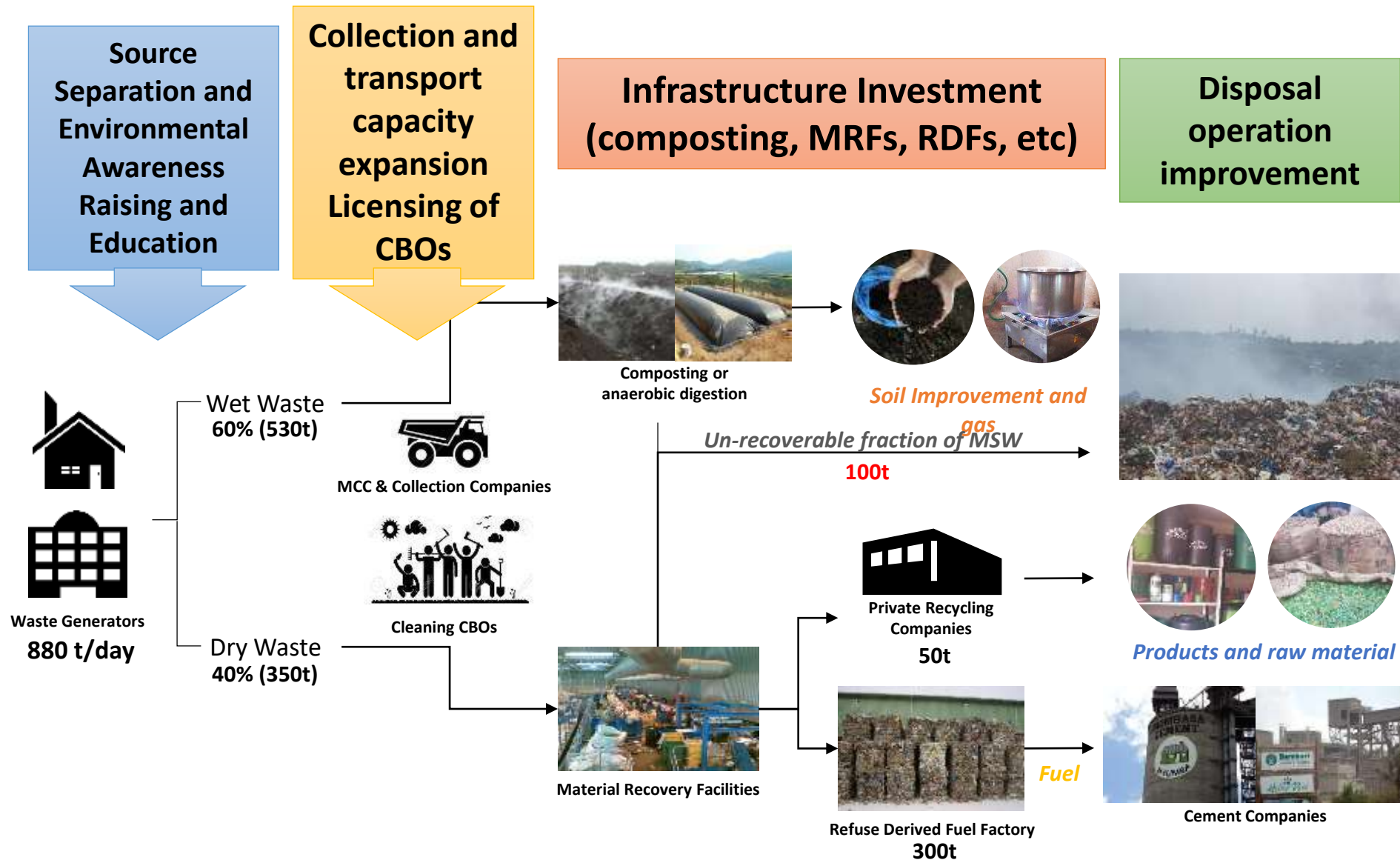
National Source Inventory Approach



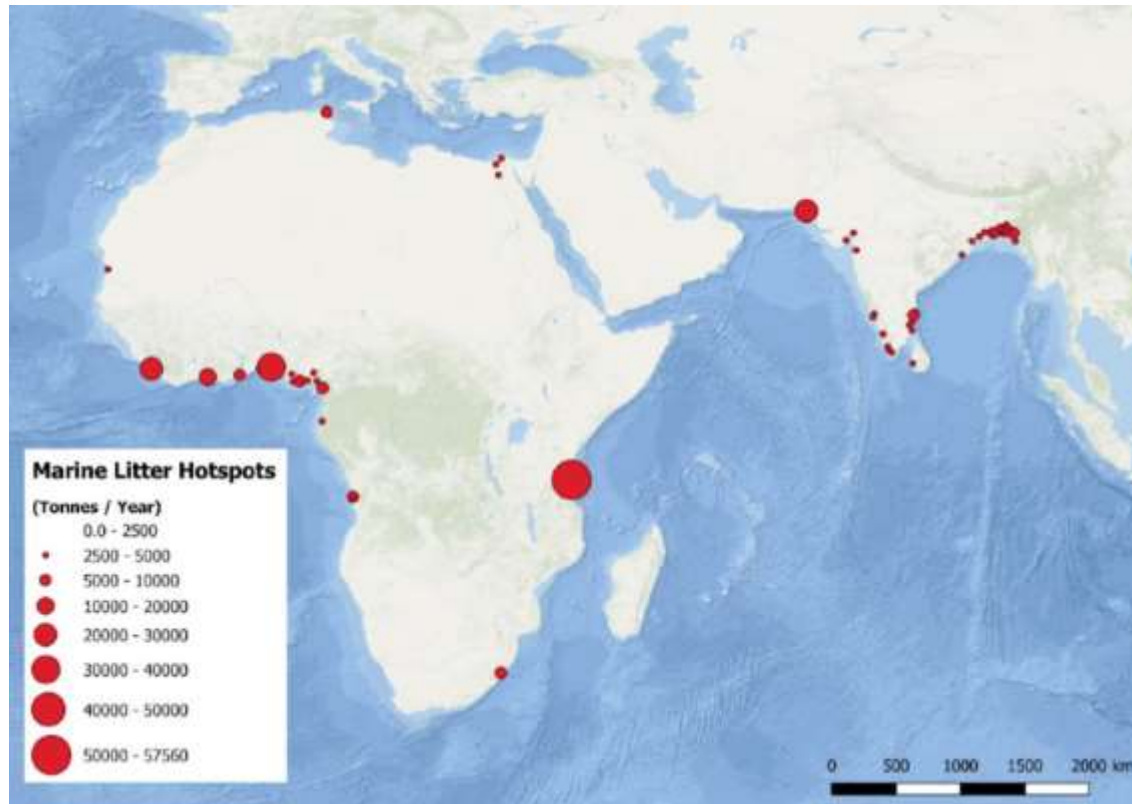
Municipal Solid Waste Flow in Mombasa – Based on Pilot Data Collection of SDG 11.6.1 in Mombasa



Future Waste Flow in Mombasa



Marine Litter Hotspots (unpublished still under review)



Top Marine Litter Hotspots in Africa

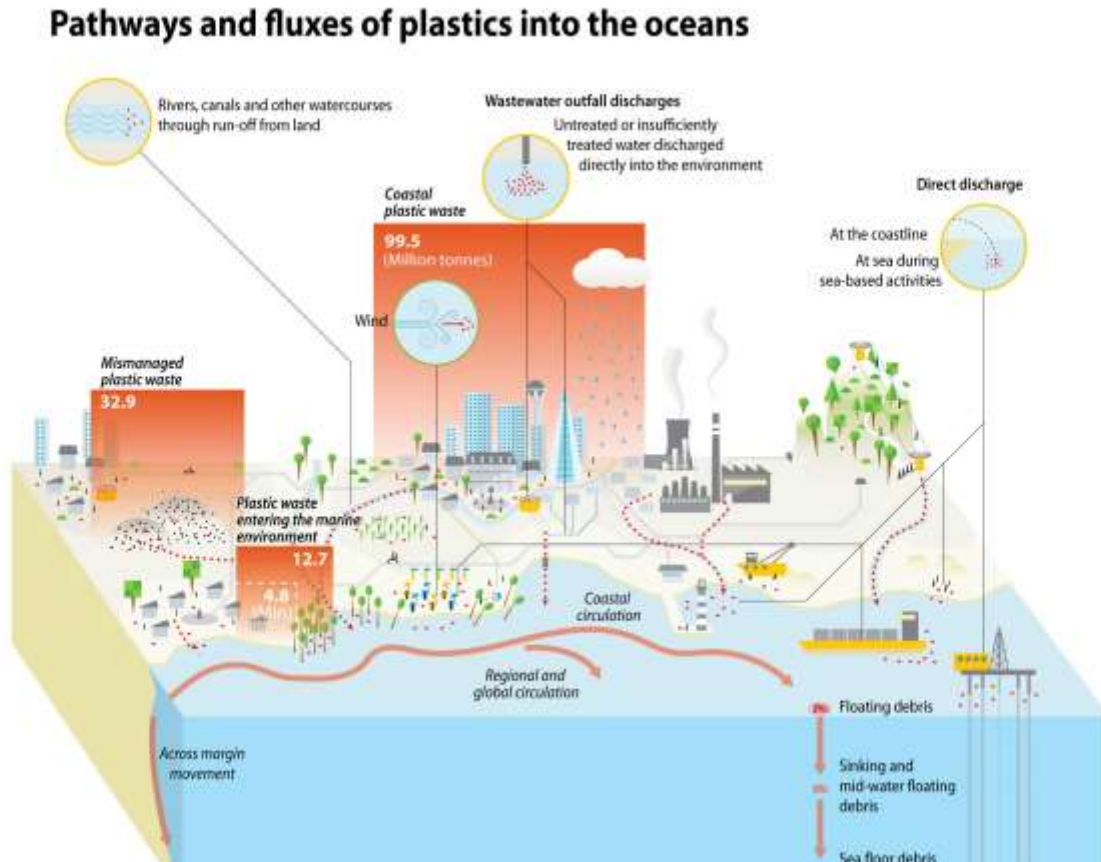
Rank	Country	Municipality
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4	Cote d'Ivoire	Abidjan
5	Ghana	Greater Accra
6	Nigeria	River State
7	Cameroon	Littoral
8	South Africa	Ethekwini
9	Benin	Littoral
10	Tunisia	Tunis
11	Angola	Luanda
12	Mauritania	Nouakchott
13	Gabon	Estuaire
14	Nigeria	Akwa Ibom
15	Nigeria	Delta
16	Egypt	Kafr ash Shaykh
17	Egypt	Al Buhayrah
18	Egypt	Al Fayyum
19	Nigeria	Cross River
20	Nigeria	Bayelsa
21	Cameroon	Ndian
22	The Gambia	Banjul

Top Marine Litter Hotspots in South Asia

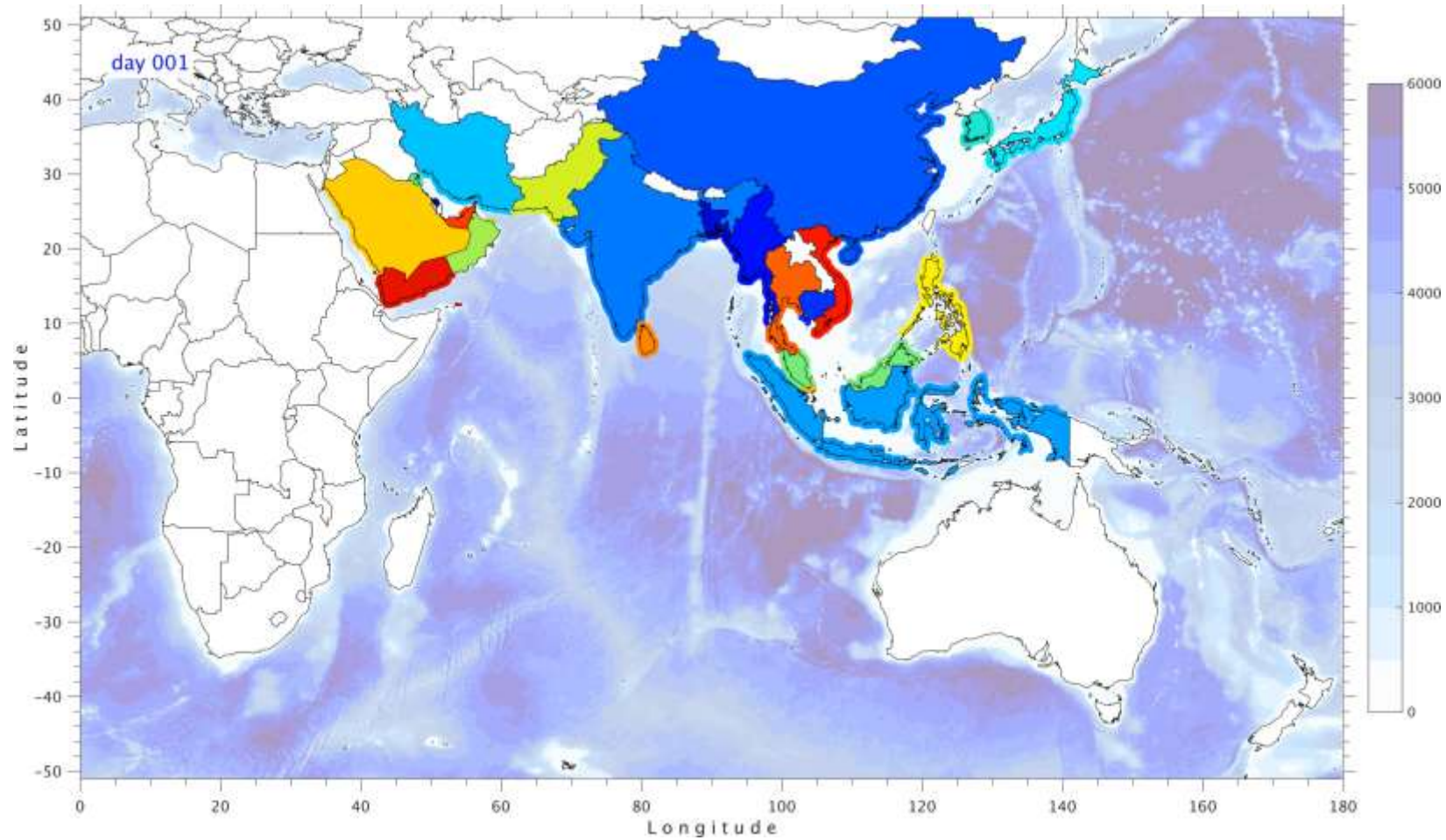
Rank	Country	Municipality
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4	India	Kancheepuram
5	Bangladesh	Barisal
6	Sri Lanka	Colombo
7	Bangladesh	Cox's Bazar
8	India	Purba Medinipur
9	India	Chennai
10	India	Kanniyakumari
11	India	Cuddalore
12	India	Dakshina Kannada
13	India	Thrissur
14	India	Anand
15	Bangladesh	Satkhira
16	India	Kollam
17	Bangladesh	Chandpur
18	India	Puducherry
19	India	Puri
20	India	Bhavnagar
21	India	Balasore
22	Bangladesh	Bhola
23	India	Valsad
24	India	Nagappattinam
25	Bangladesh	Pirojpur
26	India	Thiruvananthapuram
27	India	Kasaragod
28	India	Kolkata

Ongoing work on pathways, accumulation zones and flows

- Guidelines for Harmonization of Monitoring Methodologies of Macroplastics and Microplastics in **Rivers and Lakes**
- Guidelines for **wastewater**
- **Hotspot** assessment methodology
- counterMEASURES - Launched in May 2019, funded by Japan MOFA
 - Aims to identify a model for assessment of plastic leakage and pollution reduction focusing on land-based plastic leakage entering from rivers

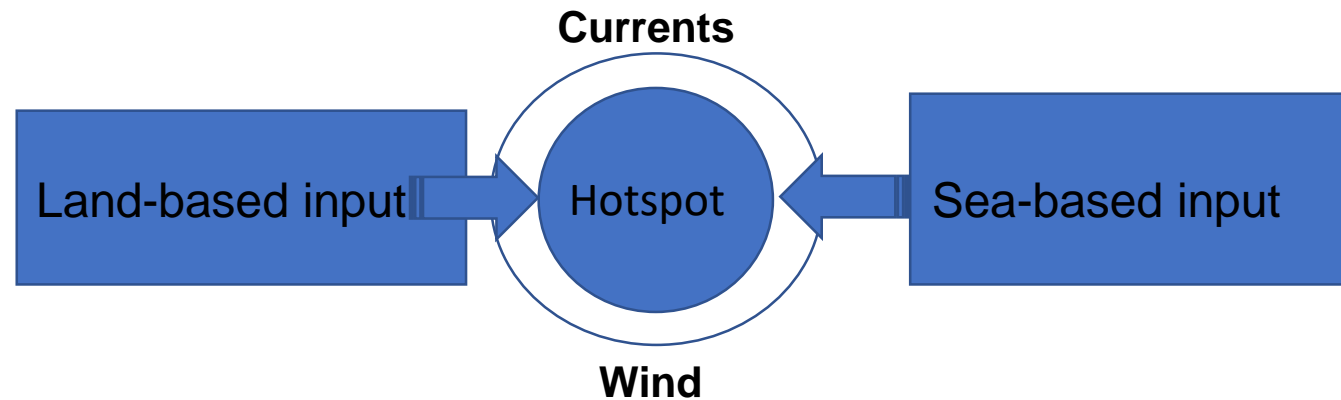


Example of flow model based on Jambeck estimates – updated data needed + monitoring
- assumes uniform input along coastline – still being tweaked
(Florida State University partner)



Guidance priority interventions

- Providing advice on the prioritizing of activities upon request based on **best available scientific knowledge**, and the most **environmentally sound, risk-based** and **cost-effective measures** to prevent and reduce marine litter and microplastics



Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP):

- **Working Group 40** on Sources, fate and effects of plastics and microplastics in the marine environment; **Risk Assessment (upcoming report 103)**
- **Working Group 43** on Sea-based sources of marine litter including fishing gear and other shipping related litter;

Capacity building

Training of Trainers

Based on GESAMP *Guidelines for Monitoring and Assessment of Plastic Litter in the Ocean*

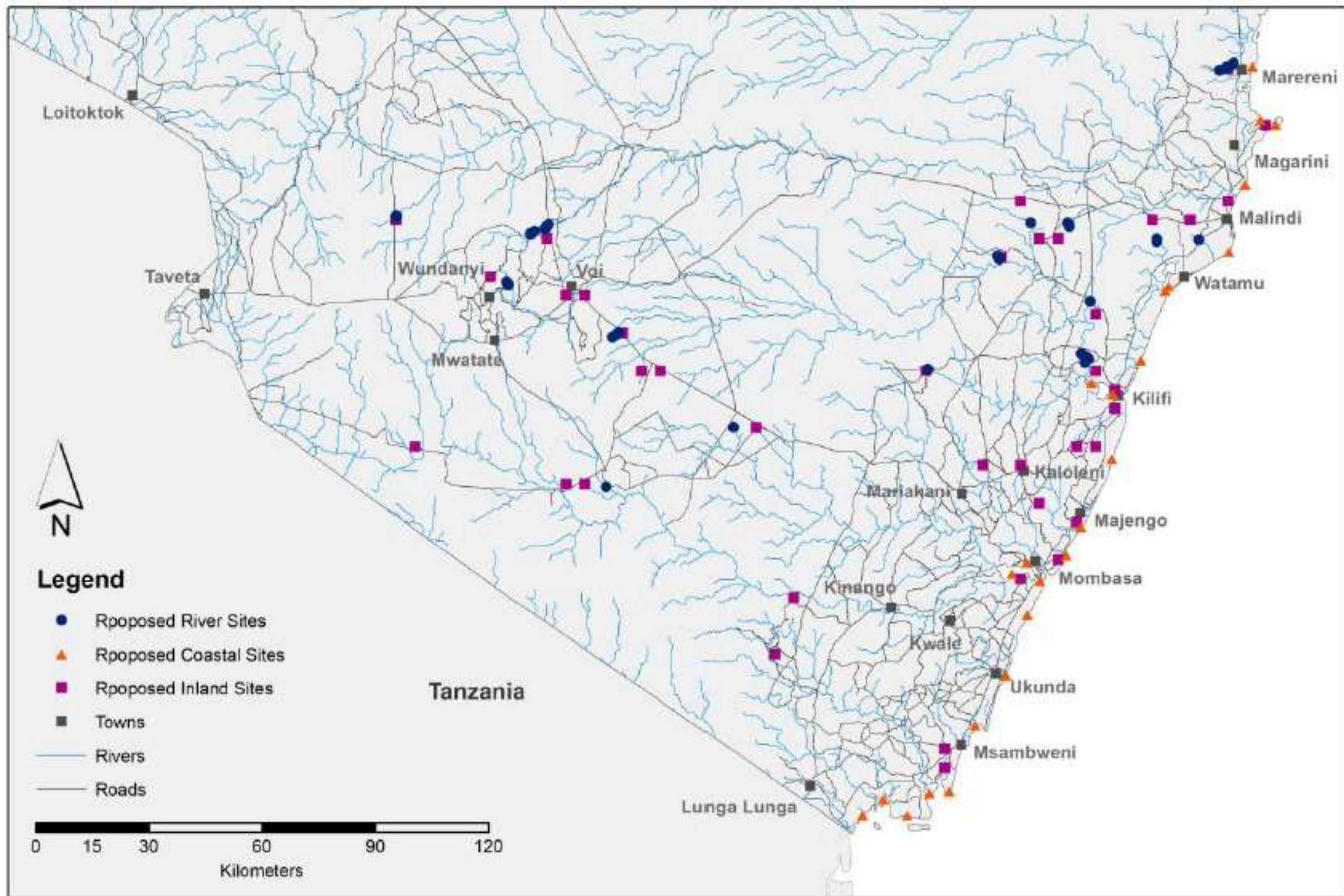


- To support establishment of monitoring programmes to address the need for quality data and effective monitoring (sources, quantities, fate and impact)
- strengthen the capacity of countries to use an evidence-based approach to decision making



Open Universiteit
www.uvu.nl





Capacity building

Massive Open Online Course



Leadership Track:

8 hours of learning (2 blocks)

Expert Track:

32 additional hours (6-8 blocks)

22,000 registered students – 54+ countries

2019 Full: English + Spanish

Short: French, Portuguese, Chinese, Russian, Arabic, Bahasa + E,S

Next:Review

- **More languages**
- **masterclasses**



Improve plastics management (reduce, redesign, reuse, recycle)

Global phase out of non-recoverable plastics
(e.g. microplastics in cosmetics)

Reduce single-use plastics drastically
Global ban on certain types of single-use plastic bags

COUNTRIES: 60 and counting

UPCOMING AREAS OF FOCUS:

What's in your bathroom?

Tourism and Sports

Artists and Athletes

Disposable plastics

Tide Turners Badge

Drive change within the tourism industry as well as major events

Engage key influencers in collaboration with e.g. the International Olympic Committee

Raise awareness about impact of plastics used more than once but with limited life-span

Engage youth in promoting change



Tide Turners Challenge Badge

OP 2. Strengthen scientific and technological knowledge

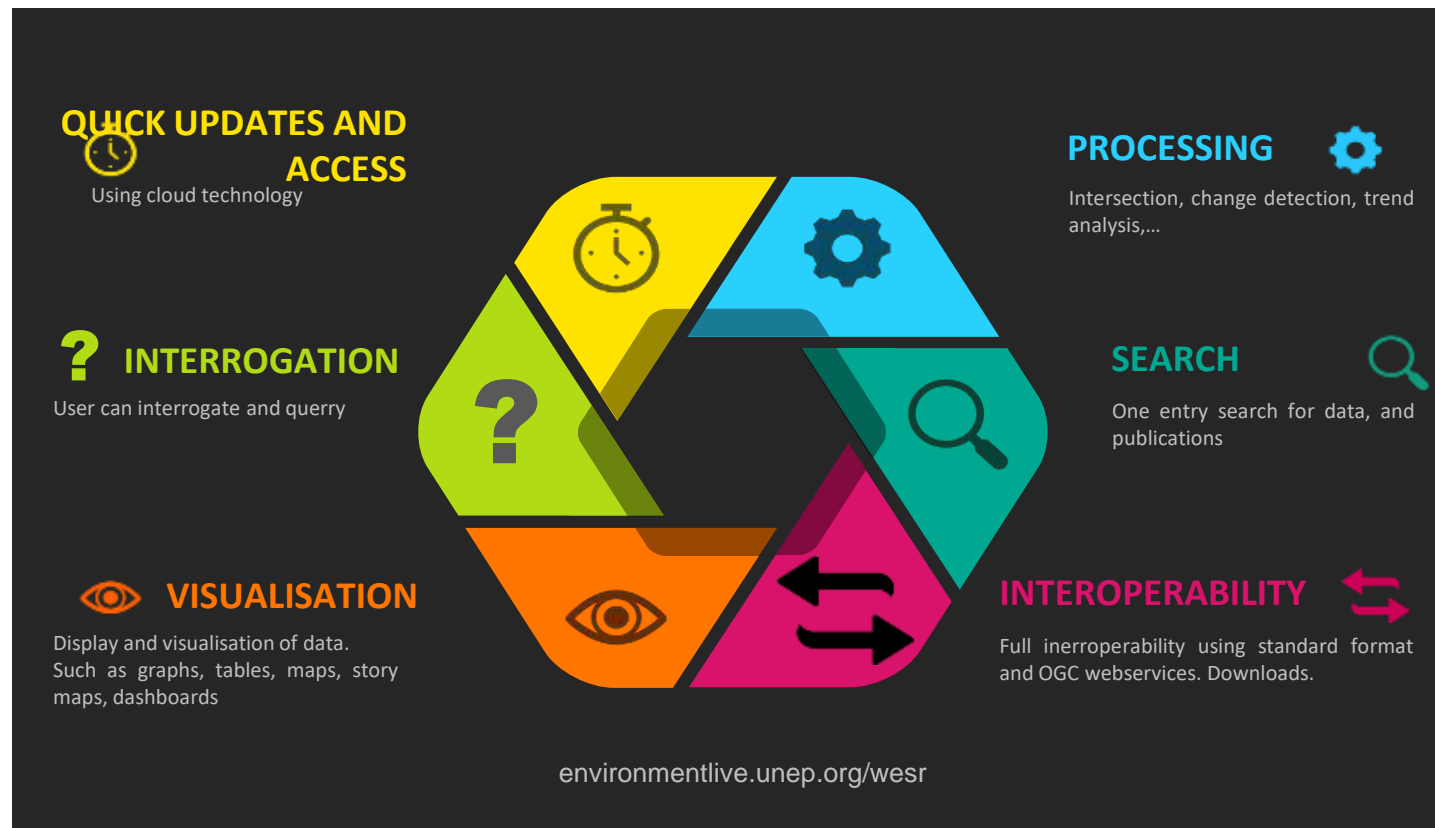


- A** Convene science advisory initiatives → Listing ongoing for consultation
- B** Prepare an **assessment on sources, pathways, and hazards of ML &MP** and its presence in the rivers and oceans, scientific knowledge about adverse effects on ecosystems, potential adverse effects on human health and environmentally sound technology innovations; → Establishment of Advisory Committee
- C** **Recommending indicators** to harmonize monitoring, report and assess methodologies → Approach being prepared
- D** **Gathering information to** form policies and action on environmentally sound technological innovations, options and measures for **reducing risks of discharge** → Initiated: Technology and Innovation primer (linked to 7b) for discussion at AHEG 3

Risk assessment work with GESAMP for hazards and risk management (policy brief under preparation)

OP 3. Information management and coordination

Thematic entry point for marine litter including plastic litter and microplastics through the World Environment Situation Room's drawing on various UNEP initiatives. Features include:



A Global Data and Information Platform for Monitoring Marine Litter and Informing Action

Policy Toolkit, Toolboxes

GPML platform

ETC.

Ad hoc open ended experts group – extended by 4/6 OP7

- **Take stock of existing activities and actions** towards long-term elimination of discharges into the oceans;
- **Identify technical and financial resources or mechanisms** for supporting countries in addressing marine plastic litter and microplastics;
- **Encourage partnerships as well as increased cooperation** in relations to the prevention of marine litter including plastic litter and microplastics that undertake activities, such as **development of source inventories, improvement of waste management, awareness raising, and promotion of innovation;**
- **Analyse the effectiveness of existing and potential response options and activities** on marine litter and microplastics at all levels to determine the contribution in solving the global problem;



Mapping of UN agency ML work (~20 through EMG)

Inventory on plastics and chemicals

Guidelines for single-use plastics policies -> online toolkit

Cost of action / non action

Environmental Justice and Marine Litter

Insurance companies' role in marine litter reduction

Third Meeting of the Ad hoc open-ended experts group on marine litter and microplastics, 18-22 November 2019, Bangkok, Thailand

Thank you for your attention



heidi.savelli@un.org

Cleanseas.org www.gpmarinelitter.org

Project

The third session of the UNEP Assembly stressed the importance of a zero vision i.e. **long-term elimination of discharge of litter and microplastics to the oceans and of avoiding detriment to marine ecosystems and the human activities dependent on them from marine litter and microplastics.**

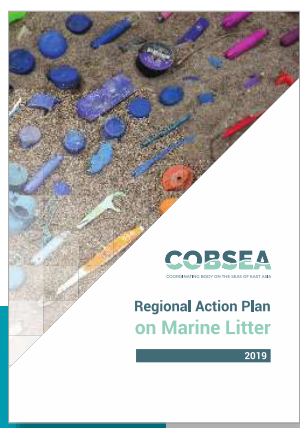
Project outcomes in support of the long-term vision

- Improved global knowledge and commitment related to addressing the sources and impacts of marine litter and microplastics
- Global and Regional commitment toward improved long-term elimination of discharge of litter and microplastics to the oceans
- National actions which include integrated and source-to-sea approaches to combat marine litter and microplastics from all sources

Project outputs

- Knowledge and communication products related to marine litter and its impacts
- Strengthened intergovernmental processes related to marine litter
- Marine litter action plans for African sub-regions including waste management
- National source inventories
- National policy intervention development

Global and regional marine litter commitments



UN ENVIRONMENT ASSEMBLY

- UNEA 1/6: Marine plastic debris and microplastics
- UNEA 2/11: Marine Plastic Litter and Microplastics
- UNEA 3/7: Marine litter and microplastics
- UNEA 4/6: Marine Plastic Litter and Microplastics
- Ad hoc open-ended experts group

Various

- G7 Action Plan (2015), G20 Action Plan (2017), G20 Implementation Framework for Actions on Marine Plastic Litter (June 2019)
- IMO Action Plan
- Bangkok Declaration on Combatting Marine Debris, adopted at ASEAN Summit in June 2019
- ASEAN Framework on Action on Marine Debris

Regional Action Plans (RAP MALI)

- Regional intergovernmental policy frameworks 2008-2019: 11 adopted, 4 drafts, 1 assessment
- Regional and national level actions on: land-based and sea-based sources, monitoring and assessment and enabling activities

National Action Plans

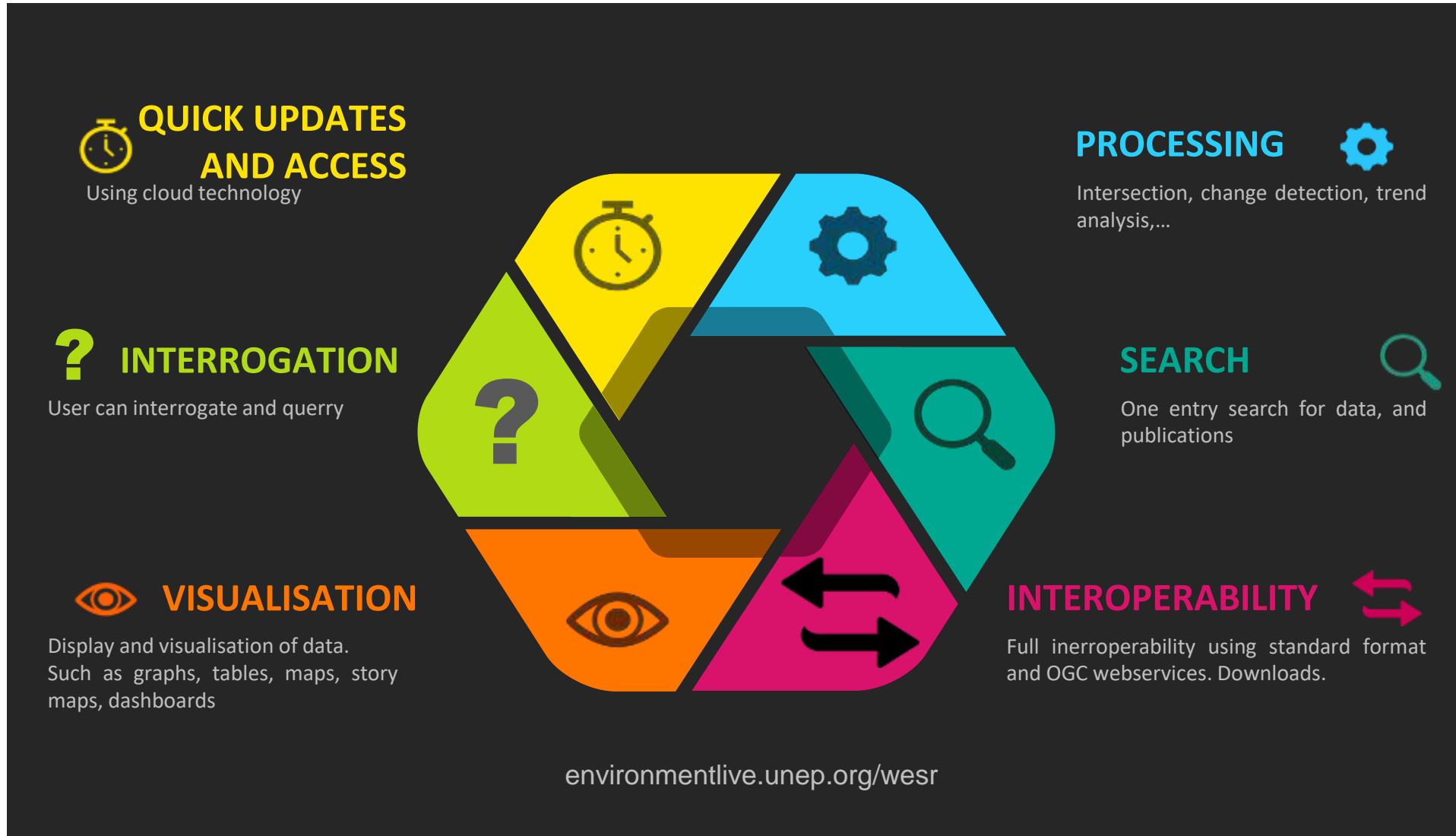
- National Source Inventories
 - Monitoring
 - Waste management
 - Production and consumption
 - Import, export
 - Legislative review
 - Baseline setting

OP 2. Strengthen scientific and technological knowledge

- | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------|
| <p>A Convene science advisory initiatives</p> | <p>➔</p> | <p>Listing ongoing for consultation</p> |
| <p>B Prepare an assessment on sources, pathways, and hazards of ML &MP and its presence in the rivers and oceans, scientific knowledge about adverse effects on ecosystems, potential adverse effects on human health and environmentally sound technology innovations;</p> | <p>➔</p> | <p>Establishment of Scientific Advisory Committee</p> |
| <p>C Recommending indicators to harmonize monitoring, report and assess methodologies</p> | <p>➔</p> | <p>Approach being prepared</p> |
| <p>D Gathering information to form policies and action on environmentally sound technological innovations, options and measures for reducing risks of discharge</p> | <p>➔</p> | <p>Initiated: Technology and Innovation primer (linked to 7b) for discussion at AHEG 3</p> |
| | | <p>Risk assessment work with GESAMP for hazards and risk management (policy brief under preparation)</p> |

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CAPACITY BUILDING: ONLINE COURSES

TRAINING OF TRAINERS



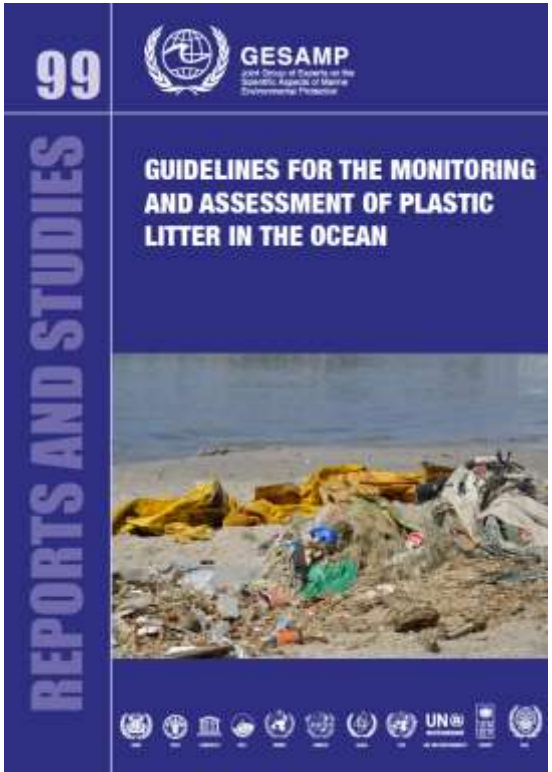
2-week in all UN languages & Portuguese, Bahasa



LEADERSHIP TRACK:
5 hours of learning consist of 2 blocks

EXPERT TRACK (English & Spanish):
32 additional hours consisting of 6 blocks some optional;

22,000 registered participants



Needs assessment

5-day course

Next: online

Webinars

More regions



UN Environment White Paper

A Global Data and Information Platform for Monitoring Marine Litter and Informing Action

Opportunities for Contributions

Contact: Emily.Smail@noaa.gov

- Submissions on marine litter databases and data



[https://form.jotform.com/
91395440653157](https://form.jotform.com/91395440653157)

- Contributions to white paper as an author or reviewer

*Particular need for experts on data integration, access and analysis

National Inventory Approach

Workshop tentatively planned for 15 Nov immediately after SEA of Solutions

Regional Action Plan
National Action Plan

National Inventory

Statistics on
production,
imports, use
and lifecycle.

Links to SDG
12.2.1 and
12.2.2

Waste
statistics.

Links to
SDG 11.6.1
and 12.5.1

Monitoring of
freshwater
and
wastewater.

Links to SDG
6.3.1 and
6.3.2

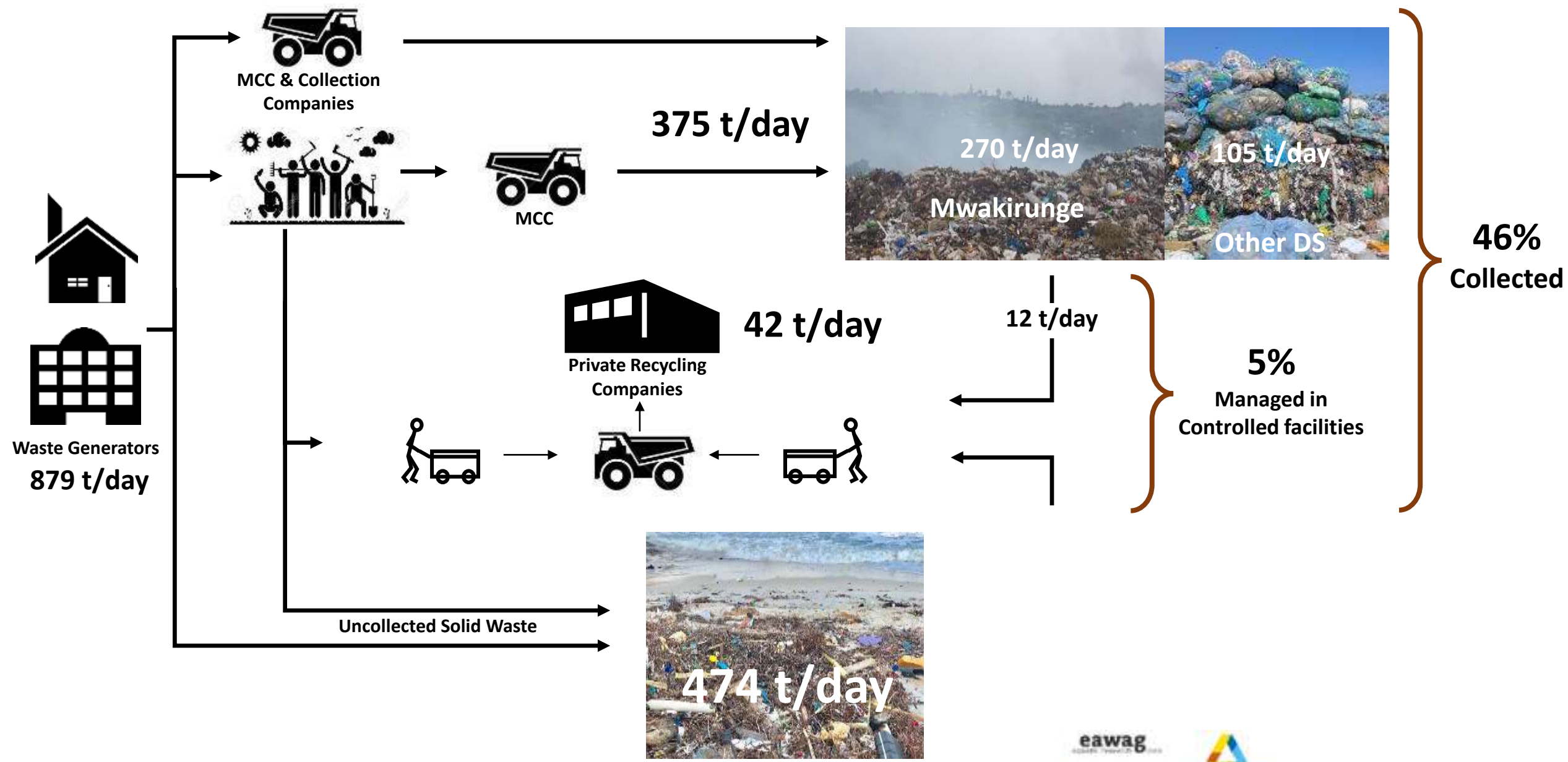
Monitoring
of coastal
and marine
waters.

Links to
SDG 14.1.1

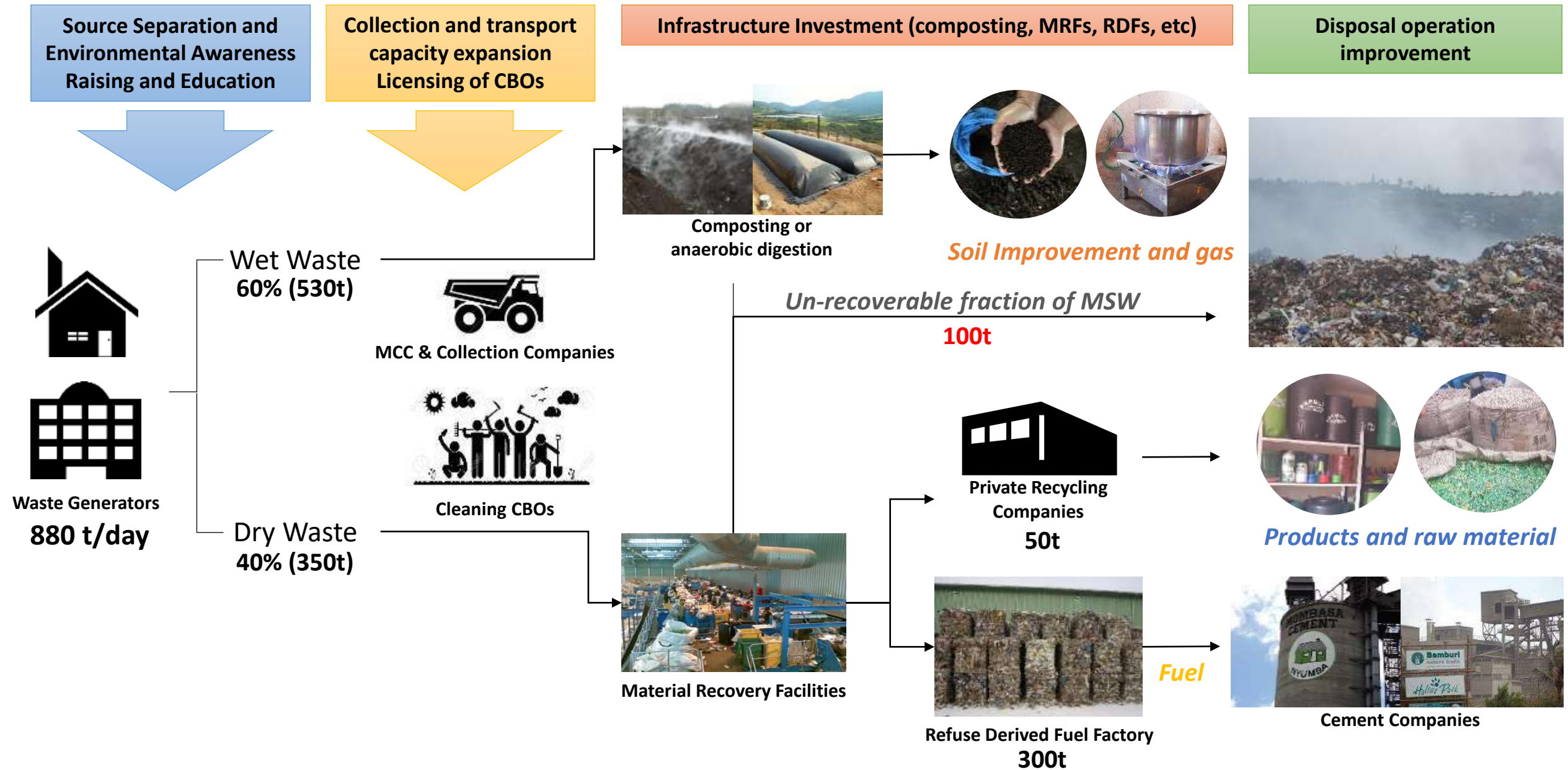
Legislation and
advocacy

Policy Review

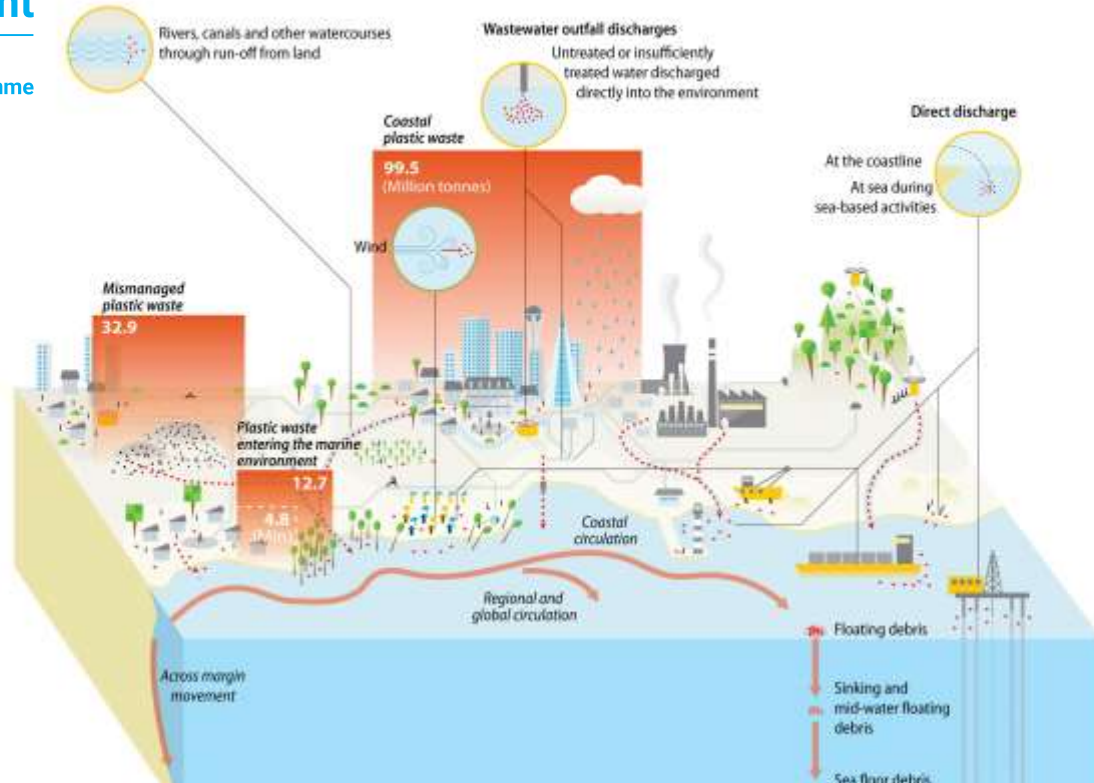
Municipal Solid Waste Flow in Mombasa – Based on Pilot Data Collection of SDG 11.6.1 in Mombasa



Future Waste Flow in Mombasa



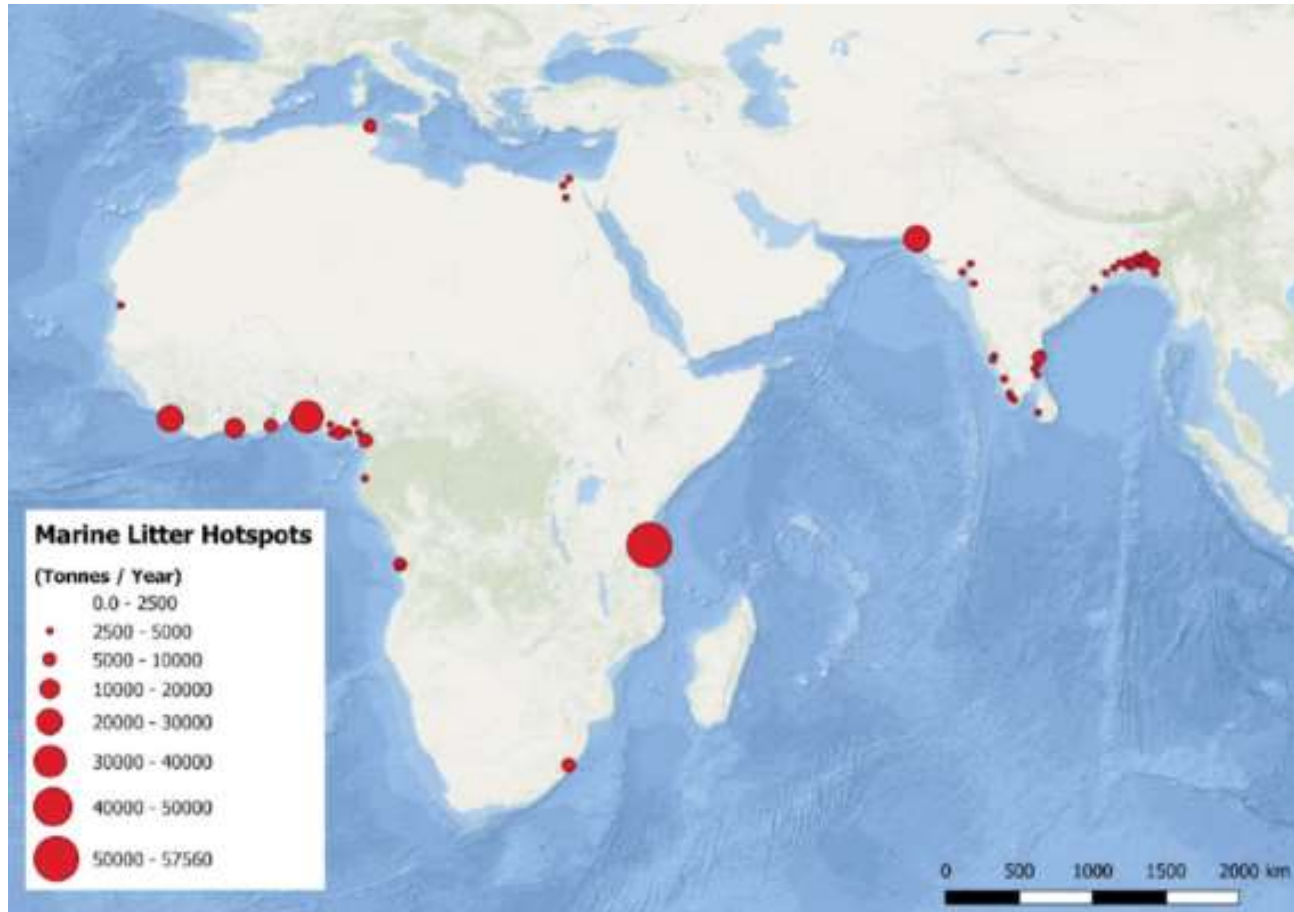
Pathways and fluxes of plastics into the oceans



Ongoing work on pathways, accumulation zones and flows

- Guidelines for Harmonization of Monitoring Methodologies of Macroplastics and Microplastics in Rivers and Lakes
- Hotspot assessment methodology
- Interactive marine litter flow model for Africa and Asia
- National Guidance for Plastic Hotspotting and Actions
- counterMEASURES - Launched in May 2019, funded by Japan MOFA
 - Aims to identify a model for assessment of plastic leakage and pollution reduction focusing on land-based plastic leakage entering from rivers

Marine Litter Hotspots (unpublished still under review)



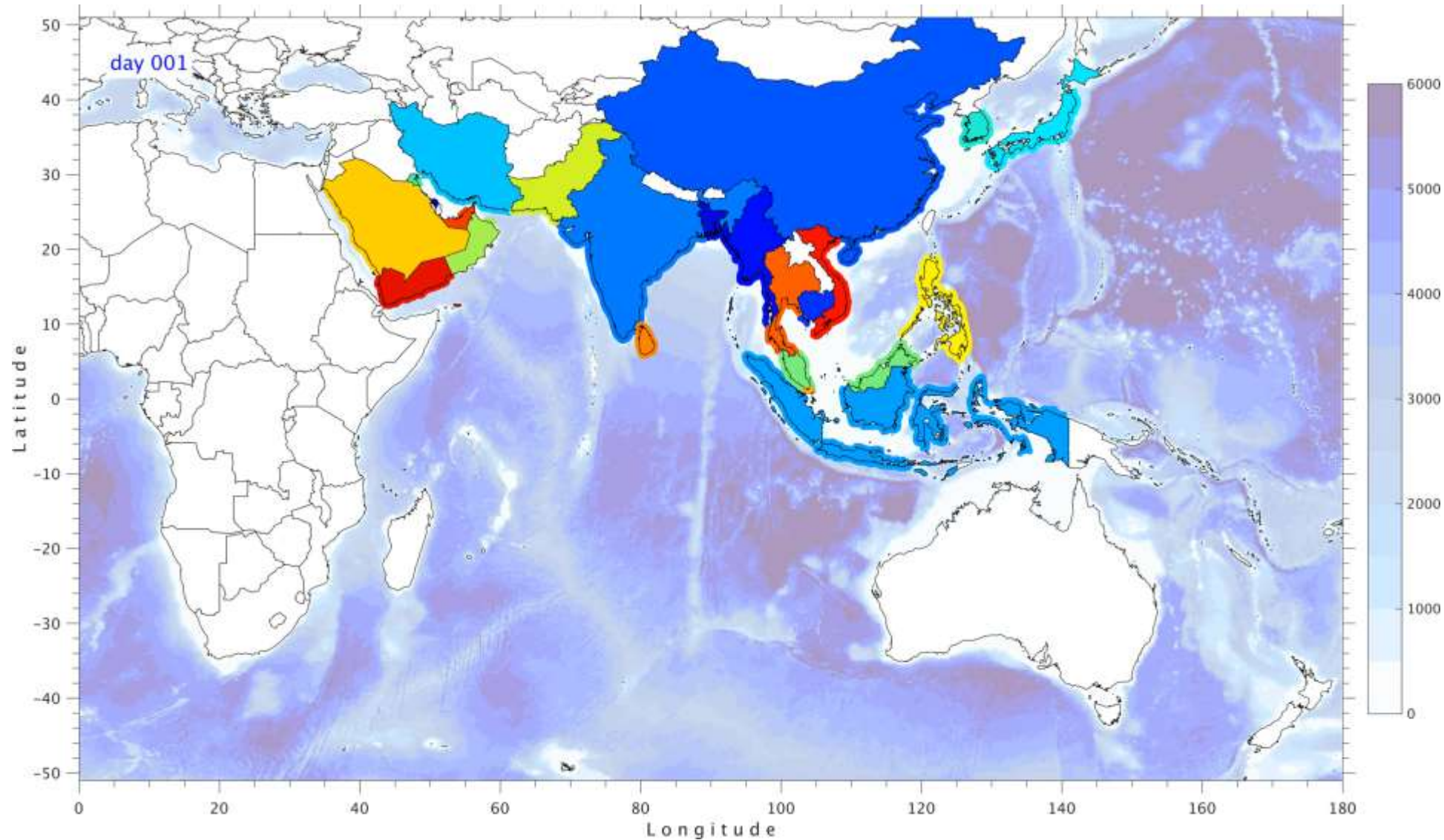
Top Marine Litter Hotspots in Africa

Rank	Country	Municipality
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Top Marine Litter Hotspots in South Asia

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6	Sri Lanka	Colombo
7	Bangladesh	Cox's Bazar
8	India	Purba Medinipur
9	India	Chennai
10	India	Kanniyakumari
11	India	Cuddalore
12	India	Dakshina Kannada
13	India	Thrissur
14	India	Anand
15	Bangladesh	Satkhira
16	India	Kollam
17	Bangladesh	Chandpur
18	India	Puducherry
19	India	Puri
20	India	Bhavnagar
21	India	Balasore
22	Bangladesh	Bhola
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27	India	Kasaragod
28	India	Kolkata

Example of flow model based on Jambeck estimates – updated data needed + monitoring
Assumes uniform input along coastline – still being tweaked (Florida State University partner)



Ad hoc open ended experts group – extended by 4/6 OP7

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- **Analyse the effectiveness of existing and potential response options and activities** on marine litter and microplastics at all levels to determine the contribution in solving the global problem;



Stocktaking

a) Normative:

- i. Inter-ministerial committees, inter-governmental and private sector partnerships;
- ii. Policy instruments specific to waste prevention and management and marine litter specifically

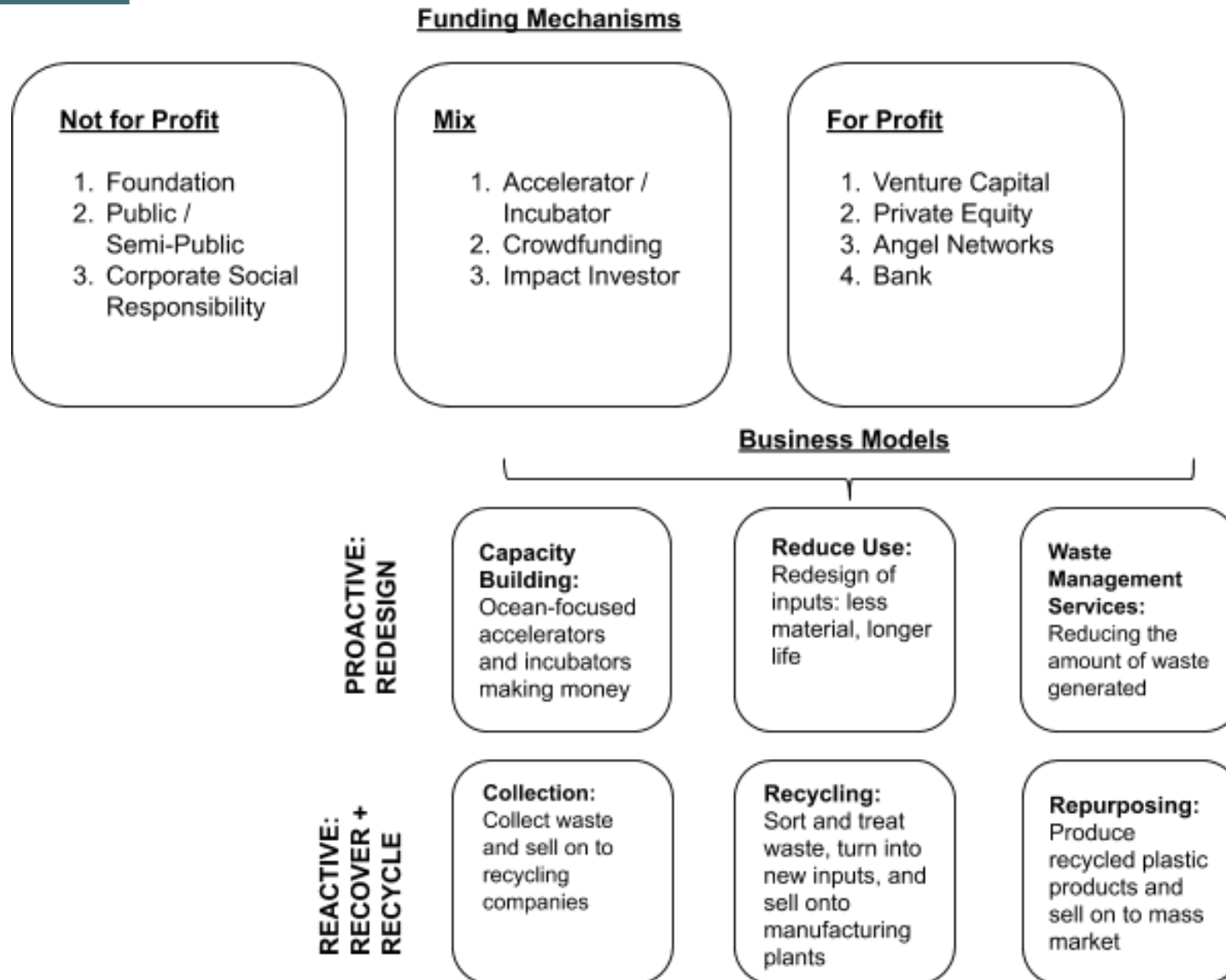
b) Evidential:

- i. Monitoring standards and programmes;
- ii. Reporting and compliance, including standards;
- iii. Funds committed;
- iv. Economic incentives and other stakeholder engagement programmes;

c) Capacity Building:

- i. Awareness programmes focusing on 1) impact knowledge, 2) desired behaviour change or 3) regulatory frameworks (including for e.g. deposit return schemes);
- ii. Sectoral guidelines;
- iii. Workshops and conferences;
- iv. Bilateral programmes.

Inventory of financial resources and mechanisms

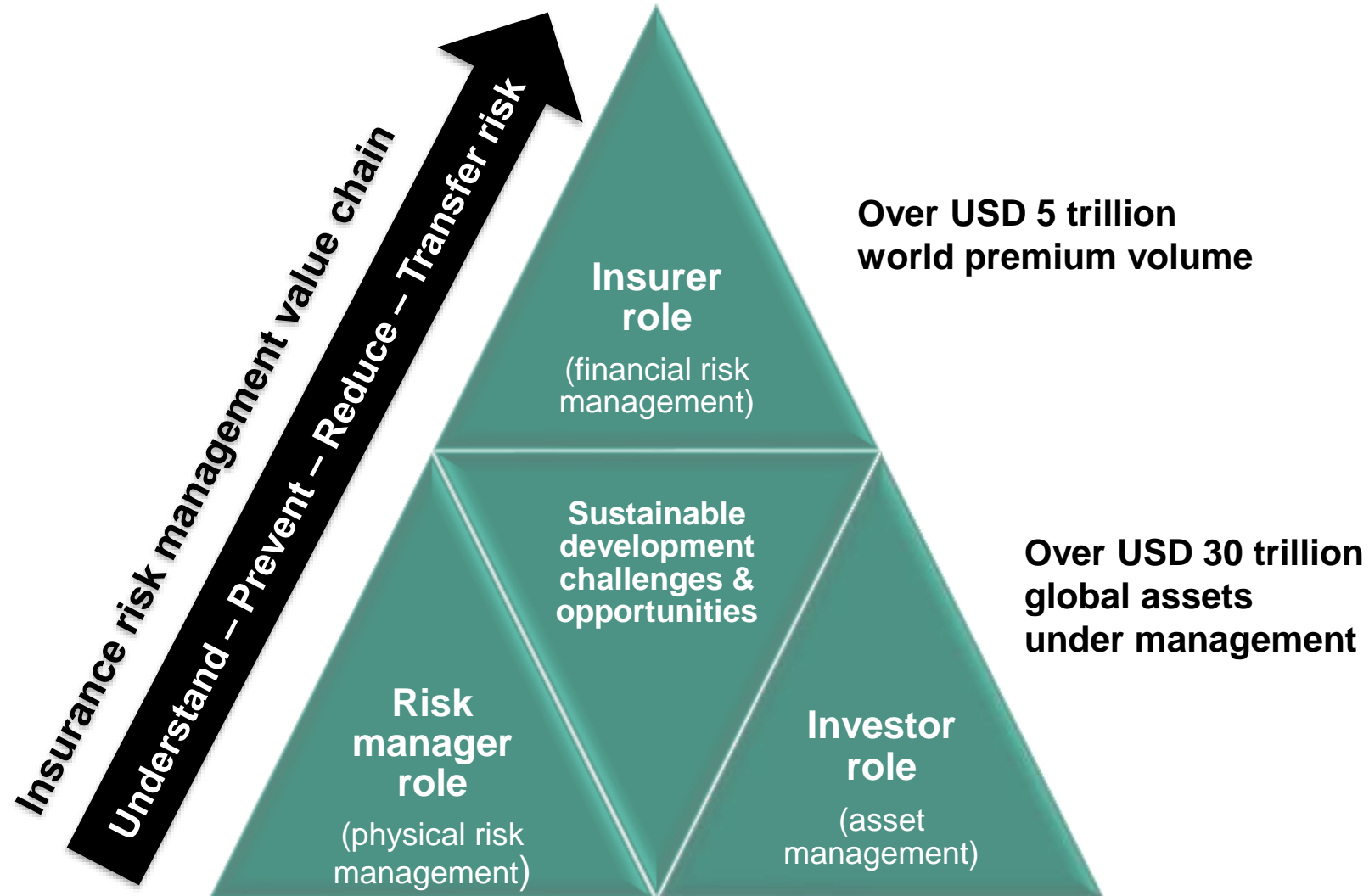


Kenya Case study

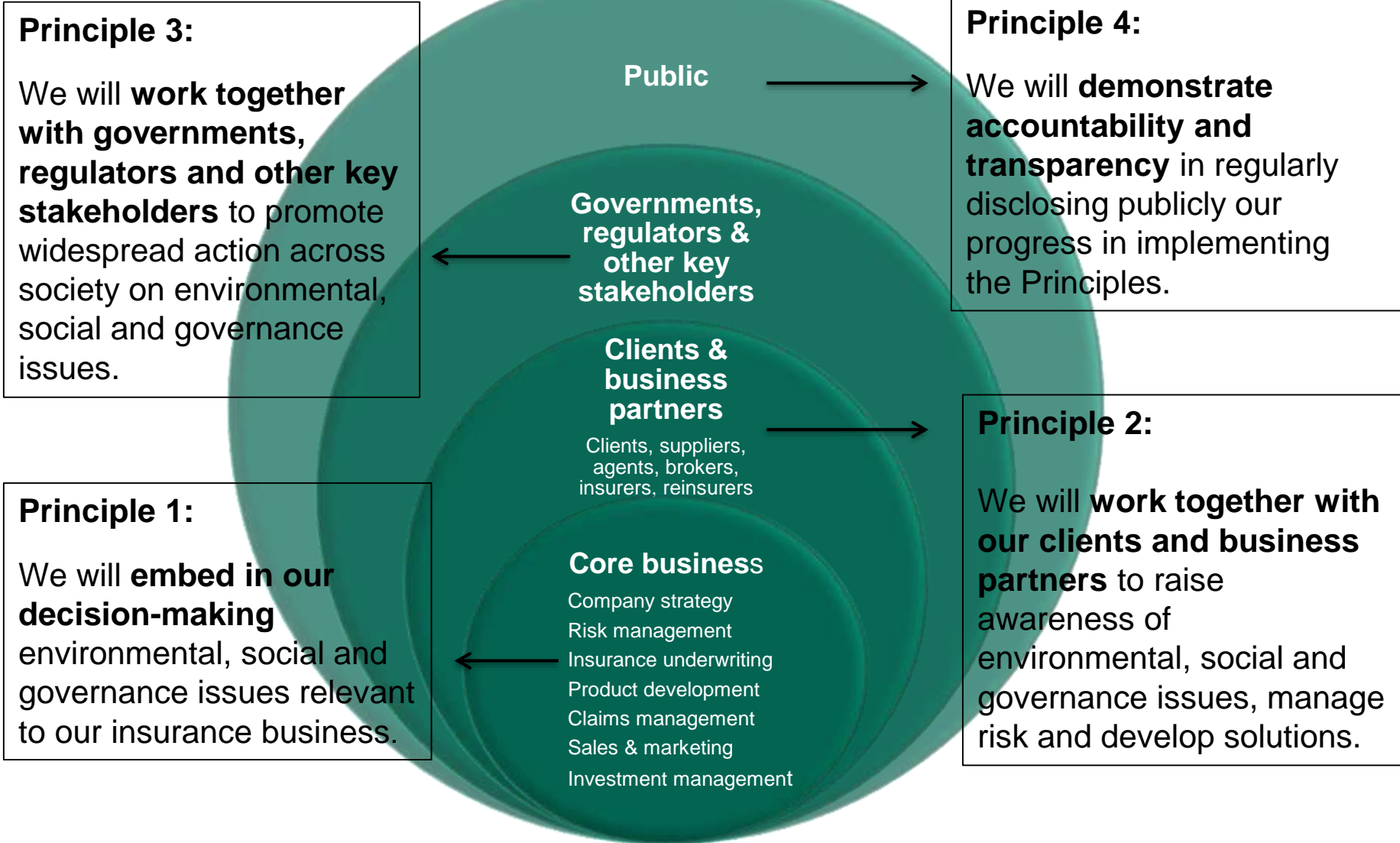
Summary of Various Quantitative Elements Forming Part of This Study

	Note*	Value USD
Estimated Annual Cost / Lost Revenues due to Marine Plastic Pollution:		
Loss of Fisheries Incomes:	1.1	1,390,800
Loss of Marine Tourism Income:	1.2	6,150,000
Expenses from Beach Clean Up Costs:	1.3	162,769
Lost Revenues Due to Decreased Domestic Tourist Beach Visits:	1.4	1,161,825
Lost Revenues Due to Decreased International Tourist Beach Visits:	1.5	3,030,670
		<u>11,896,064</u>
Estimated Cashflow Potential to Address Marine Plastic Pollution:		
Plastics Tax levied on Producers:	2.1	100,000,000
Environmental Levy on Shipped Cargo:	2.2	7,680,000
Fishing For Litter:	2.3	<u>49,400,000</u>
		157,080,000
Plastics Deposit Scheme**	2.4	
Purchase of Plastics Import / Manufacturing Credits**	2.5	
Plastics for Large-scale Infrastructure Construction and Development **	2.6	

The triple role of the insurance industry in sustainable development



The Principles for Sustainable Insurance: A global roadmap to drive systemic change



Launch of UN Environment's Principles for Sustainable Insurance Initiative (PSI) in 2012



June 2012, Rio de Janeiro, Brazil



“The Principles for Sustainable Insurance provide a global roadmap to develop and expand the innovative risk management and insurance solutions that we need to promote renewable energy, clean water, food security, sustainable cities and disaster-resilient communities.

“With world premium volume of more than \$4 trillion and global assets under management of more than \$24 trillion, insurers that embed sustainability in their business operations can catalyze the kinds of financial and investment flows and long-term perspectives needed for sustainable development.

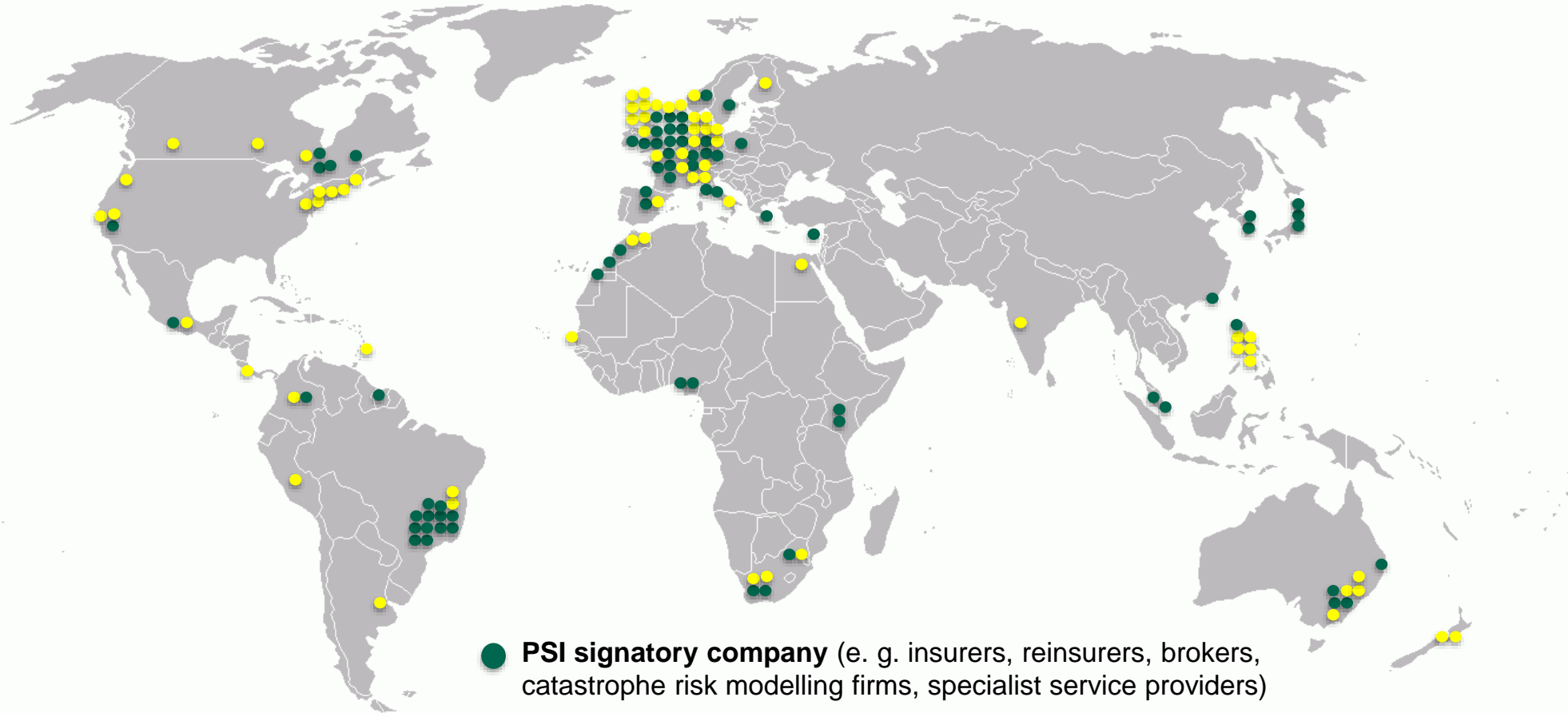
“The United Nations looks forward to working with all sectors of society towards the global embrace of this important new initiative as we shape the future we want.”

Ban Ki-moon, UN Secretary-General



PSI membership by country of domicile

- 140 members and growing
- Insurers representing about 25% of world premium + USD 14 trillion in assets under management
- Largest collaborative initiative between the UN and the insurance industry



- **PSI supporting institution** (e.g. insurance associations, insurance initiatives, insurance regulators and supervisors, academia, civil society organisations)

Implementing the Principles: Examples

A company commitment



Swiss Re's Sustainability Risk Framework

Umbrella policies

- Human rights & environmental protection

Guidelines

- Animal testing
- Dams
- Defence sector
- Forestry, pulp & paper, palm oil
- Mining
- Nuclear non-proliferation
- Oil & gas
- Thermal coal

Swiss Re among first in insurance industry to integrate environmental, social & governance (ESG) benchmarks into investment decisions (Jul 2017)

- Swiss Re publication explains why ESG integration makes economic sense for long-term investors
- Swiss Re selected benchmarks based on the MSCI ESG methodology for its equities and fixed income portfolios

Environmental, social and governance aspects		
Environmental aspects	Social aspects	Governance aspects
Pollution	Political environment and public perception	Responsible and careful planning and assessment
Natural resources and biodiversity	Working conditions	
	Health and safety for the community	Compliance
	Resettlement of people	Consultation and transparency
	Cultural heritage	

Munich Re's processes, guidelines and tools to assess ESG issues in insurance underwriting and investment

Allianz's screening process for ESG issues in insurance and investment transactions

SCOR's scoring grid to help insurance and reinsurance underwriters assess ESG practices in sensitive sectors and lines of business

Implementing the Principles: Examples

A company commitment



“The debate is no longer about whether, it's about when.”

“As an insurer, I have personally witnessed many times humanity's capacity for resilience. This gives me hope that we will learn from the errors of the past and set ourselves on a path towards a more sustainable future, beginning here today and resulting in a comprehensive, fair and ambitious agreement this December.

In any case, we have no choice: a 2°C world might be insurable, a 4°C world certainly would not be.”

Henri de Castries, Chairman & CEO, AXA Group

22 May 2015, Climate Finance Day, Paris

Henri de Castries at the Climate Finance Day | May 22nd 2015

“The debate is about understanding risk and managing it, not about whether we can prevent climate change. Insurance companies are committed to climate change solutions in partnership with public institutions but also relevant private players.”

COAL DIVESTMENT

AXA has decided to divest from the companies most exposed to coal-related activities. The initiative represents a divestment of **€ 0.5 billion**.

“GREEN” INVESTMENTS

AXA committed to its green investments, aiming to invest in **€ 3 billion**.

Climate Finance Day

ESG* INTEGRATION AND SIGNING THE “MONTREAL CARBON PLEDGE”

AXA has committed to supporting the FICPI* initiative, to be launched next month, on its green investment portfolio. AXA has also signed the Montreal Carbon Pledge, an initiative to reduce the carbon footprint of the investment portfolio. AXA has also signed the UN Principles for Responsible Investment.

AFRICAN RISK CAPACITY

A regional insurance pooling mechanism that helps mitigate the which have high fire conditions that create devastating economic and social conditions.

Various PSI members have made commitments to disengage from coal-intensive business through their investments and/or insurance underwriting, to increase green investments, and/or align investments with science-based targets and the goals of the Paris Climate Change Agreement



First global guide to manage ESG risks in non-life insurance business

(Feb 2019 → public consultation version)



Objectives of the guide:

- Provide guidance to insurance industry participants in developing **approaches to assess ESG risks in non-life insurance, particularly industrial & commercial insurance**
- **Support clients, intermediaries and other stakeholders in facilitating ESG-related info** which might be required during ESG due diligence of transactions
- **Highlight materiality of ESG risks to various lines of business and economic sectors**, including characteristics which might affect ability to assess and mitigate such risks
- **Address growing concerns by stakeholders (e.g. NGOs, investors, governments) on ESG risks** and articulate peculiarities of insurance business
- Demonstrate valuable role insurance industry plays in global economy and society, and **strengthen industry's contribution to sustainable development**

Leaders' perspectives on the PSI global ESG guide



Oliver Bäte
CEO, Allianz Group

“Managing risks is at the heart of any insurer. **The sustainability guide for non-life underwriting transactions raises the industry’s ambition to manage environmental, social and governance risks and helps to achieve the UN Sustainable Development Goals and the climate target of the Paris Agreement.**”

“We are proud to share our long-standing expertise in integrating sustainability into daily business with peers and partners, who might stand at the beginning of this important development. **Driving a low-carbon and inclusive economy to secure our future only will succeed if all players are truly committed and create measurable contributions.**”



Christiana Figueres
Convenor, Mission 2020 & former
Executive Secretary,
UN Climate Change

“The latest Intergovernmental Panel on Climate Change (IPCC) report shows that there’s a world of a difference—in terms of adverse economic, social and environmental impacts—between a world with an average temperature increase of 2 degrees since pre-industrial levels, and one with 1.5 degrees. **As risk managers, insurers and investors, no industry has the capacity to keep us safe other than the insurance industry.**”

“**The PSI’s global sustainability guide is a clarion call for the ambitious action needed in the run up to the UN Secretary-General’s Climate Summit and the 2020 climate turning point.**”

“**As financial scientists, we need the insurance industry to complete the IPCC report by translating the latest climate change science into the language of risk that the world can fully understand and tackle with radical collaboration and stubborn optimism.**”

Insurers piloting the recommendations of FSB Task Force on Climate-related Financial Disclosures (TCFD)



23 leading insurers: > 10% of world premium & USD 6 trillion assets

Will develop new generation of tools to assess climate-related physical, transition and liability risks



Insurers protecting World Heritage Sites



United Nations
Educational, Scientific and
Cultural Organization

In support of

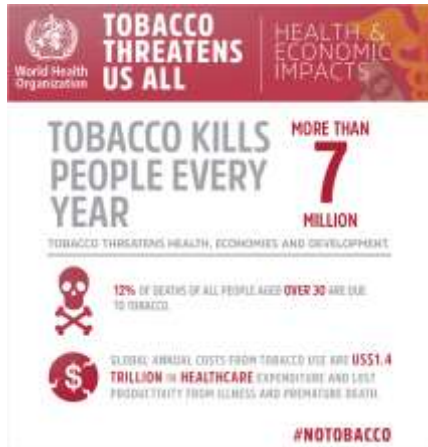


World
Heritage
Convention



- Over 1,100 natural, cultural, and mixed World Heritage Sites across the globe.
- Natural World Heritage Sites provide economic, social and environmental benefits → but almost half are threatened by harmful industrial activities
- Commitment to protect World Heritage Sites across risk management, insurance and investment activities of the insurance industry
- Launched at 42nd Session of UNESCO World Heritage Committee in Bahrain (July 2018)
- PSI ,WWF and UNESCO have produced first-ever insurance industry guide to protect World Heritage Sites across risk management, insurance and investment activities

Insurers and investors supporting tobacco-free finance



UN General Assembly Week (Sep 2018, New York)

- Tobacco a primary driver of dramatic rise in chronic non-communicable disease, killing > 7 million people per year, expected to rise to 8 million by 2030
- Without urgent action, tobacco-related disease forecast to result in 1 billion premature deaths in 21st century
- Smoking costs global economy > USD 1 trillion a year, far outweighing global revenues from tobacco taxes
- UN Sustainable Development Goal 3 (Health) has target to strengthen implementation of WHO Framework Convention on Tobacco Control

The Tobacco-Free Finance Pledge

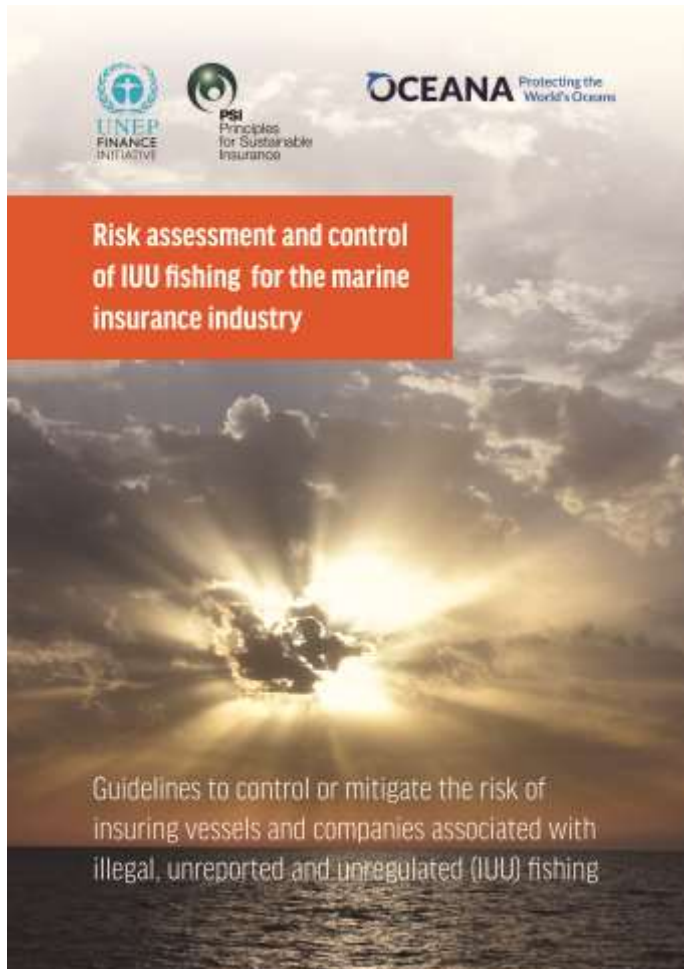
> 150 investors, insurers, banks and key stakeholders have signed the Pledge

- USD 7.5 trillion in assets under management
- USD 2 trillion in corporate loan books
- USD 190 billion in gross premiums written

Pledge developed by Tobacco-Free Portfolios, PSI, PRI, UNEP FI, AXA, BNP Paribas, Natixis and AMP Capital

Insuring and investing in a sustainable ocean economy

PSI-Oceana global guide to tackle illegal, unreported & unregulated fishing



- Pirate fishing—or illegal, unreported & unregulated (IUU) fishing—costing global economy USD 10 to 23.5 billion yearly
- About 1 in 5 fish caught illegally, posing serious threats to environment and global fish supplies
- IUU fishing risks: Increased claims, other crimes (e.g. human trafficking, slavery, transport of illegal arms or drugs), fraud, legal liabilities, reputational damage
- IUU fishing contributes to overfishing and destruction of marine habitats and ecosystems, and marine pollution



Sustainable Blue Economy Finance Initiative



- If the ocean were a country, it would have the world's 7th largest economy
- Value added of world's ocean economy estimated to grow to > USD 3 trillion by 2030 and employ > 40 million
- Sustainable finance for all ocean-based industries: from shipping, fisheries and tourism; to aquaculture, energy and biotechnology
- Founding partners: European Commission, European Investment Bank, WWF, World Resources Institute and UNEP FI

Unwrapping the risks of plastic pollution, marine plastic litter and microplastics to the insurance industry



Physical risks

Transition risks

Liability risks

Reputational risks

Insurance lines:

- Agriculture & Forestry
- Aviation
- Credit & Surety
- Engineering
- Health
- Liability
- Life
- Marine
- Motor
- Property
- Pet insurance

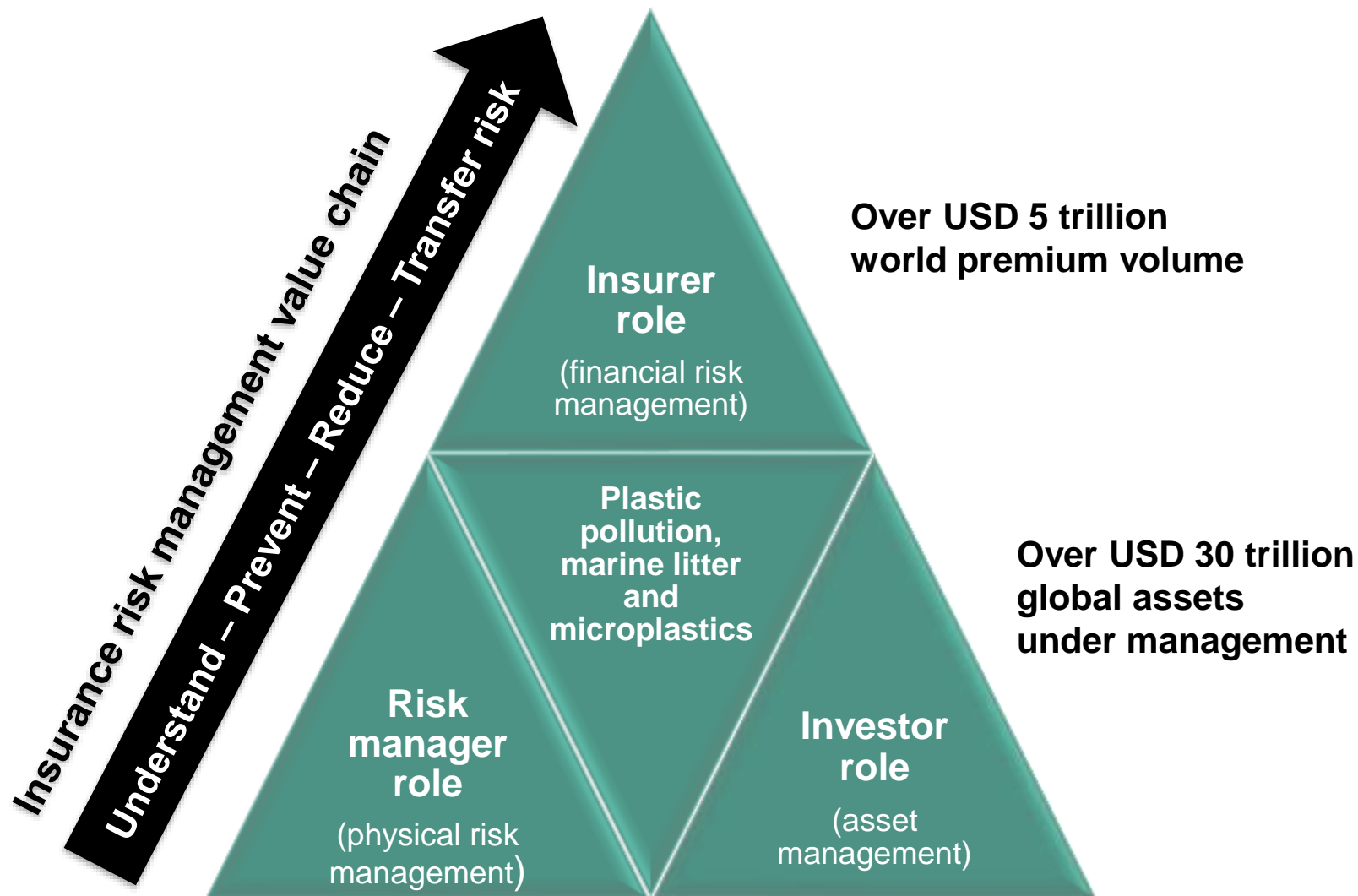
UN Environment-PSI global study on plastic pollution, marine plastic litter & microplastics



Asset classes:

- Cash and cash equivalents
- Commodities
- Fixed income
- Hedge funds
- Private equity
- Public equity
- Real estate

The triple role of the insurance industry in tackling plastic pollution, marine litter and microplastics



Third Meeting of the Ad hoc open-ended experts group on marine litter and microplastics, 18-22 November 2019, Bangkok, Thailand

Thank you for your attention



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Global Partnership
on Marine Litter

Join the **GLOBAL PARTNERSHIP ON MARINE LITTER**

GPA hosts it and provides secretariat services

Launched in Rio+20, June 2012 to protect human health and the environment by the reduction and management of ML

Voluntary multi-stakeholder partnership ~ 160+ partners, IMO, FAO and many networks in their own right

Help countries reach their targets related to Sustainable Development Goal target 14.1

Activities e.g. Clean Seas Campaign, Massive Open Online Courses <http://gpmarinelitter.org/>