

Espace France

by the French Water Partnership



SIDE EVENT

Fighting pollution caused by waste
and plastics: a collective effort to
protect freshwater and oceans!

23 May 2024 / 2:00-4:00 p.m.



INBO
International Network
of Basin Organizations



 **AMBASSADE
DE FRANCE
EN INDONÉSIE,
AU TIMOR ORIENTAL
ET AUPRÈS DE L'ASEAN**
Liberté
Égalité
Fraternité



Water
is a common
good we share



Fighting pollution caused by waste and plastics: a collective effort to protect freshwater and oceans!

Part 1 : International Perspectives

Moderated by:



Corinne Trommsdorff
Executive Director French Solid Waste Partnership



Barbara Pompili
Special Envoy of the President of the French Republic for the One Water Summit



Nani Hendiarti
Deputy Coordinating Ministry for Maritime and Investment, Indonesia



Julie Reynaud
Senior officer - INBO



Dr. Pinida Leelapanang
Chief Environmental Management Officer, Mekong River Commission



Louise Rousseau
French Ministry of Foreign Affairs



Vinda Damayanti
Director for Reduction Waste Ministry of Environment and Forestry Indonesia



Anne-sophie Leclère
Deputy General Director, Eau de Paris



Sabrina Sebaihi
French Member of Parliament, and Vice-president of the French Solid Waste Partnership



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Senior officer – INBO

HANDBOOK :

“TRANSFER OF WASTE AND PLASTICS IN AQUATIC ENVIRONMENTS”



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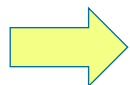
OBJECTIVES, TARGET AND SCOPE OF THE MANUAL



Guidance manual for basin managers and decision makers



- ✓ **Part 1** : How waste enters the aquatic environment and is transported and how to characterise it.
- ✓ **Part 2** : plastics from their generation to their journey in the environment, with a deep dive on the impact of plastics of different sizes on biodiversity and health
- ✓ **Part 3** : How to prevent waste from entering the environment follows the «avoid then manage» principle.



This handbook is a **call to action**, an invitation **to work together** for a future where aquatic environments are preserved and thrive for all.



CASE STUDIES



Lots of case studies to illustrate the different parts

1-Mapping macro-waste on a stretch of the Shkumbin river, Albania
Surfrider



4 - Preserving aquatic ecosystems in Côte d'Ivoire: an initiative against electronic waste



7 - Impact of pneumatic micro-plastics on lakes in Europe



10 - The circular economy in action: when reusable crockery preserves the rivers in French Guiana's National Park



13 - The "Clean Oceans Through Clean Communities" (CLOCC) programme in Indonesia: Building sustainable waste systems for healthier oceans



15 - An eco-cultural solution in Senegal: culture at the service of the environment for a sustainable change in behaviour



2-Methodology for cost-effective, long-term monitoring of transboundary plastic debris pollution in the Lower Mekong Basin
MRCs



5 -Using artificial intelligence to combat plastic pollution in Australia



8 - Producing parliamentary reports and passing laws to limit plastic pollution



11 - Fly-tipping: the major threat to Lake Atitlán in Guatemala



14 - Support for the collection and recycling of plastic waste into plastic pavers – a solution for combatting waste and plastics being transferred into aquatic environments in the province of South Kivu in the Democratic Republic of Congo



16 - Combating plastic pollution in the Danube



3-The Aa and Lys aquatic environment monitoring programme in France: findings and outlook



6 - Reducing micro-plastics in the Delaware River estuary



9 - The PROMISE project: Preventing marine litter in the Lakshadweep Sea (Maldives, Sri Lanka, India) – ADELPHI



12 - Urban Environment Programme in Lomé (PEUL), Togo



17 - The threat of plastic waste in the transboundary catchment areas of the Maroni and Oyapock rivers in French Guiana





PART 1 : TRANSMISSION SOURCES AND VECTORS



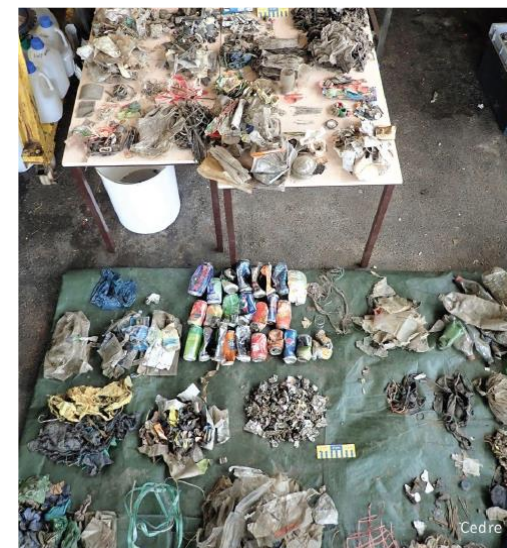
The transfer depends on :

- ✓ **hydrological factors** (such as water height, current speed and discharge)
- ✓ **geomorphological factors** (such as the shape of banks and vegetation, which can act as traps for macrowaste)
- ✓ **physical factors** (such as the type of waste and its shape)

Aggravation :

Extreme one-off events play a role in the diffusion of waste in aquatic environments.

Characterisation and Methods of quantification : Modelling, observation, collection



Characterisation of waste in stormwater discharge (Cedre)



PART 2 : A SPECIFIC WASTE : PLASTIC

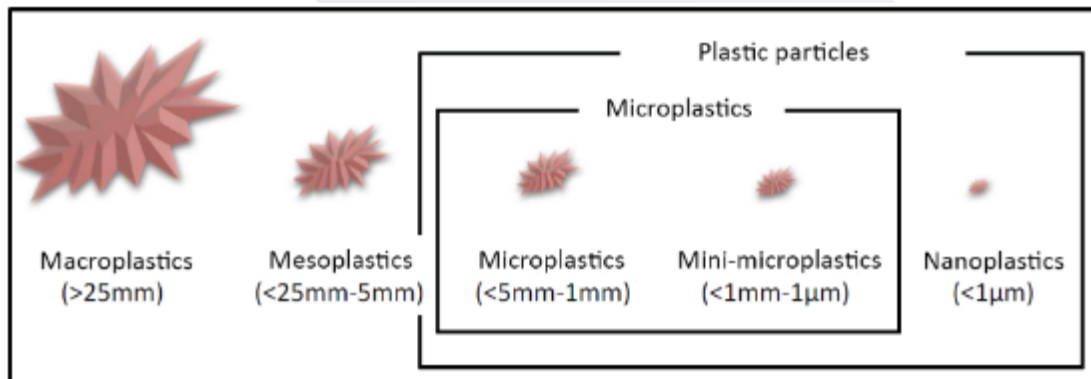


Plastic : a polymer, fillers, plasticisers, other additives

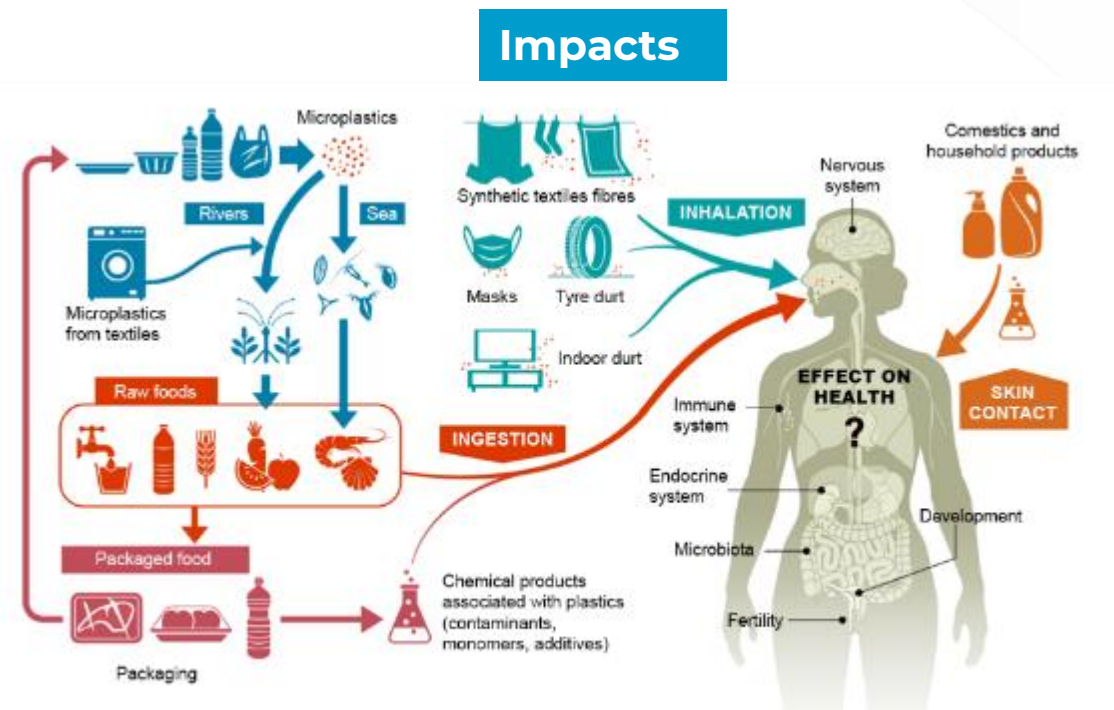
⇒ More than 13,000 molecules are thought to be involved

Once in the environmental compartment, plastic degrades :

- ✓ Fragmentation by mechanical action,
- ✓ Fragmentation by the action of water,
- ✓ Photodegradation due to the action of UV rays, which break down the polymer's molecular chains
- ✓ Degradation by micro-organisms



Plastic waste and downscaling, a possible terminology



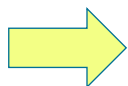
Focus plastics : Humans come into contact with micro-plastics and chemical molecules in a number of ways



PART 3 : TO PREVENT WASTE BEING TRANSFERRED TO WATERWAYS



- ✓ **Reduce waste at source** by examining practices to minimise waste from human activities
- ✓ **Avoid storing waste** in places **where it can be transferred and leaked** into aquatic environments
- ✓ **Organise the collection and treatment of waste** so that it is eliminated from the natural environment
 - managing and treating waste, in taking into account the level of maturity for the waste management system
 - respect the international regulations which propose a framework for waste management
 - reduce the pollution of the natural environment by plastics and other harmful substances
 - set up long-term financing systems
- ✓ **Work with international donor support** for public policies
 - support investment in specific waste management infrastructure
 - help local stakeholders implement the sustainable planning and governance structure
- ✓ **Raise public awareness**
- ✓ **Coordinate levels** of territorial commitment



Political will is the key to addressing these challenges



THANKS



Thanks to all our partners for their contributions writing, case studies research and proofreading :



Corinne Trommsdorff & FSWP members



Aditi Ramola and Marc Tijhuis



Alexandra Monteiro, Mélanie Grignon and Fabien Mainguy



It has been the opportunity to reach out to decision makers on the importance of taking action to reduce and manage waste to prevent it from entering the environment.



MEKONG RIVER COMMISSION FOR SUSTAINABLE DEVELOPMENT



**One of the most successful case studies involving
all the problems the handbook talks about**



Ms Pinida Leelapanang KAMPHAENGTHONG, Ph.D.
Chief Environmental Management Officer
Environmental Management Division | Mekong River Commission Secretariat | Vientiane



Fighting pollution caused by waste and plastics: a collective effort to protect freshwater and oceans!

Part 1 : International Perspectives



Louise Rousseau
French Ministry of Foreign Affairs



Vinda Damayanti
Director for Reduction Waste Ministry
of Environment and Forestry
Indonesia



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Anne-sophie Leclère

Deputy General Director, Eau de Paris



Paris takes action against single-use plastic pollution: the example of water





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Sabrina Sebaihi

French Member of Parliament, and
Vice-president of the French Solid
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Summit



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Fighting pollution caused by waste and plastics: a collective effort to protect freshwater and oceans!

Part 2 : Zoom on Indonesia

Moderated by:



Didier Perez
Expert



Rofi Alhanif
Assistant Deputy for Waste and Wastewater management, Kemenko Marves



Karyanto Wibowo
Director Sustainable Development Danone, Chair of PRAISE & Supervisory board of the Indonesia Packaging Recovery Organisation



Ir. I Gusti Putu Ekayana, M.Si
Head of the Environment Agency, Tabanan Regency



Dadang Cahya Rusdiana
Head Unit of Penanganan Sampah Badan Air, Dinas Lingkungan Hidup Provinsi DKI Jakarta



Pak Victor Nikijuluw
Konservasi Indonesia's Senior Adviser



Lionel Goujon
Head of the water and sanitation division AFD



Vinda Damayanti
Director for Reduction Waste Ministry of Environment and Forestry Indonesia



Louise Rousseau
French Ministry of Foreign Affairs



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Rofi Alhanif

Assistant Deputy for Waste and Wastewater management, Kemenko Marves



**Coordinating Ministry of Maritime Affairs and Investment
Republic of Indonesia**

Plastic Waste in Indonesia: Situation, Strategy, and Policy

**Nani Hendiarti
Deputy Minister for Environment and Forestry
Management, CMMAI**

World Water Forum, 23rd May 2024





Indonesia is the Largest Archipelagic Country in the World with Great Potentials



- 17,500 islands with $\pm 108,000$ km of coastline
- More than **300 ethnic groups** with **700 languages**
- **270 million population**, projected to be **296 million (2030)**
- Located in **a strategic location astride or along major sea lanes** connecting East Asia, South Asia and Oceania.



Indonesia Potential

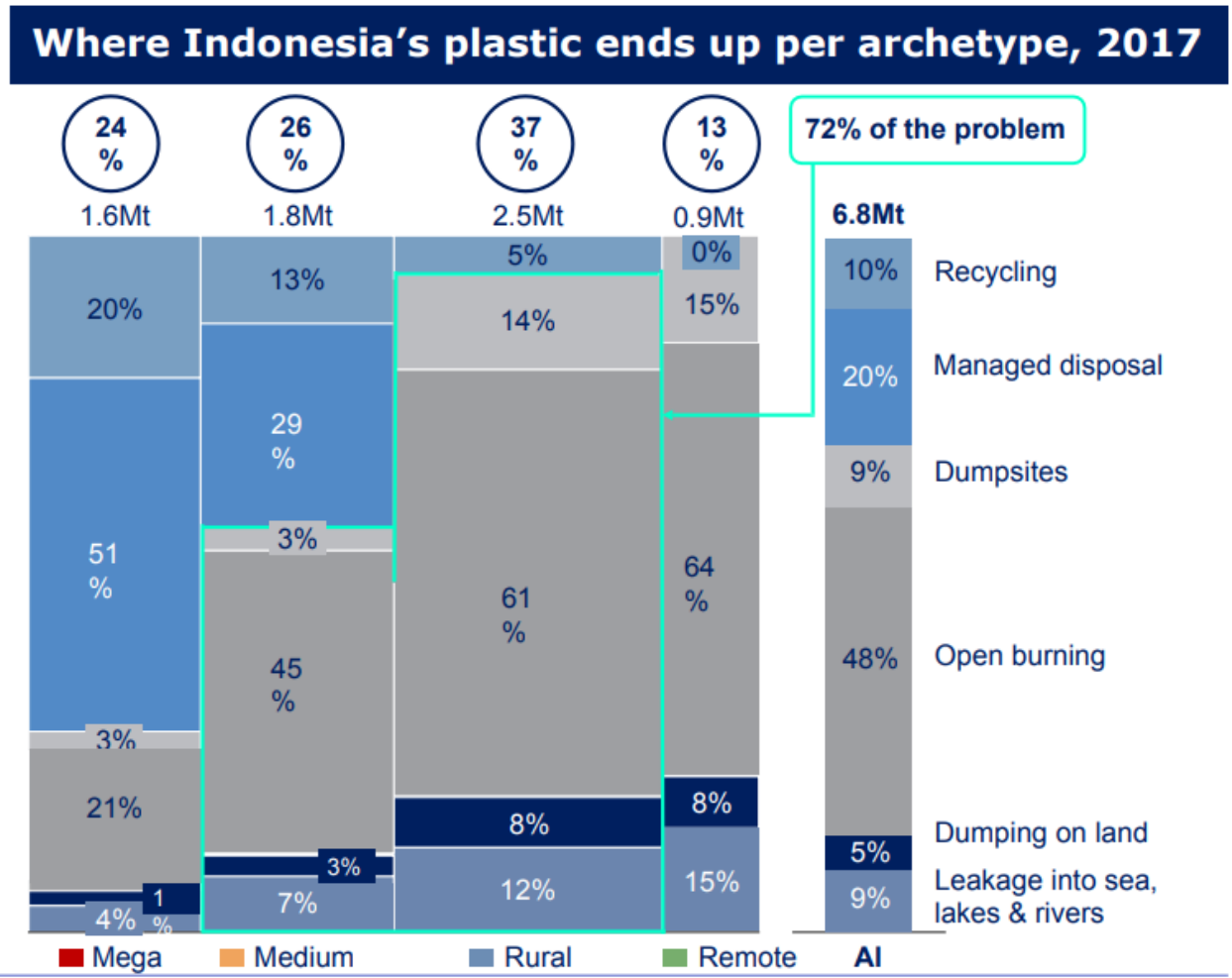
- Abundance of **Natural Resources**
- Huge Renewable Energy Potentials
- Large and Young Workforce (191 mio)
- Growing Digital Economy (Est. to grow by 23% from 2020 – 2025)



More than 80% of land is due to improper handling (collection) of waste, especially in medium and rural cities/districts



- As much as 3/4 of marine plastic waste comes from medium and rural regencies/cities which have low capacity to handle the domestic waste produced.
 - The national leakage rate reaches 9% of the total plastic waste generation each year.
- Source: NPAP, 2018



National Target to Reduce Marine Plastic Waste by 70% by 2025



Chairman of the National Coordination Team for Marine Debris Handling
The Coordinating Minister of Maritime and Investment Affairs



Daily Chairman of the National Coordination Team for Marine Debris Handling
The Minister of Environment and Forestry

RAN PSL IMPLEMENTATION STRATEGY



A NATIONAL MOVEMENT TO RAISE AWARENESS AMONG STAKEHOLDERS

- National movement to socialize the negative impacts of marine debris
- Training on plastic waste sorting and utilization
- Indonesian Maritime School
- Awarding in innovation/pioneering recycling management
- National movement for marine debris awareness



LAND-BASED WASTE MANAGEMENT

- District/city plastic waste management
- Provision of river waste collection infrastructure
- Preparation of GMP for degradable & recyclable plastic products
- Drafting plastic excise regulations
- Provision of plastic waste recycling equipment



COASTAL AND MARINE DEBRIS MANAGEMENT

- Building waste management facilities and infrastructure at PPS & PPN
- Preparation & implementation of SOPs for waste management in marine tourism destinations
- Implementation of ISO 14001 and 14000 certification
- Conducting beach and small island cleanup actions
- Managing waste originating from coastal and small island activities



FUNDING MECHANISMS, INSTITUTIONAL STRENGTHENING, SUPERVISION, AND LAW ENFORCEMENT

- Encourage waste management funding schemes through PPP, CSR, community funds, and other sources
- Strengthen institutionalization
- Improve the effectiveness of supervision and implementation of law enforcement
- Encourage central and regional commitments to prioritize budget allocations in the waste management sector



RESEARCH AND DEVELOPMENT

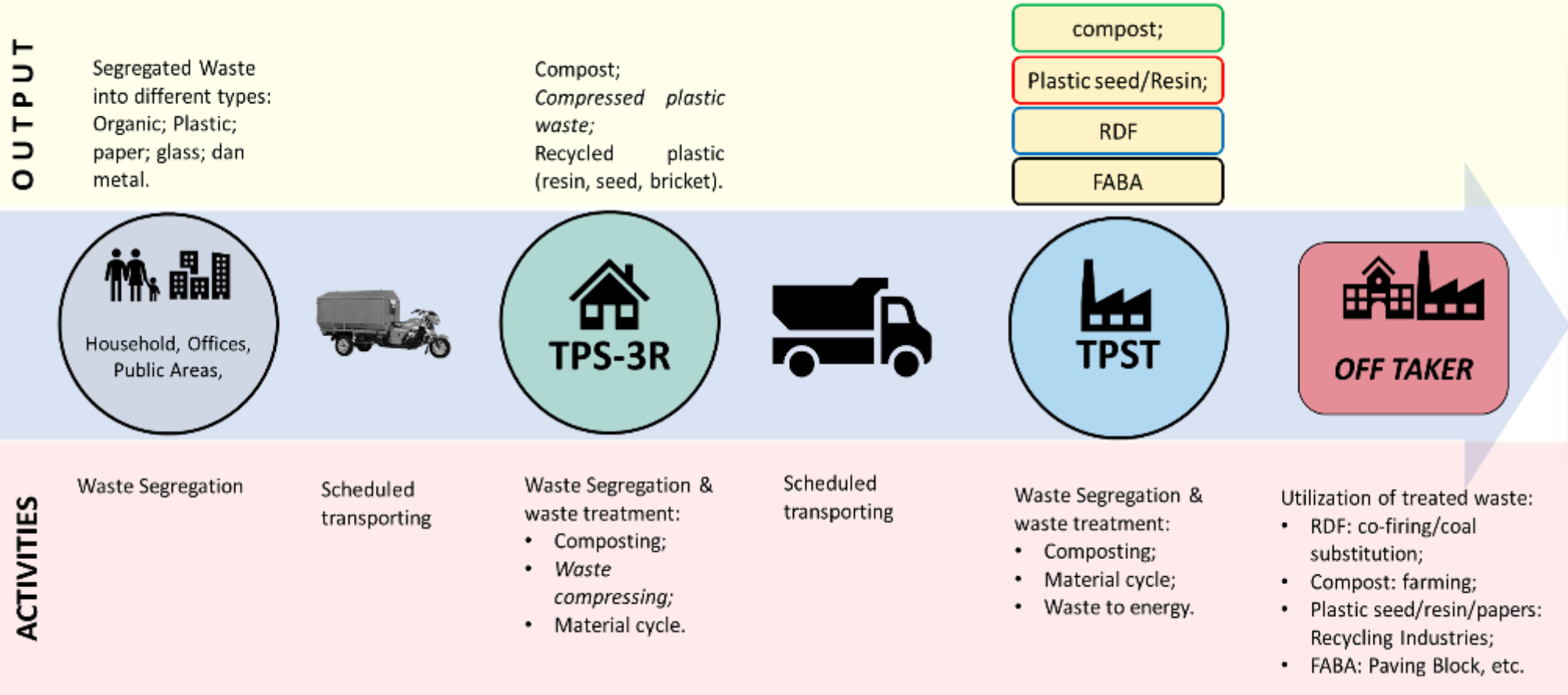
- Encouraging the discovery of plastic replacement materials
- Development of SNI for degradable and recyclable plastic products
- Building an integrated waste database system
- Research on pollution and the impact of marine debris
- Study of the impact of micro and macro plastics on the human body



Ideal waste management process to support more circular waste processing.



Waste management begins with reduction in the upstream sector, sorting, transportation, and processing into various industrial support products and new energy sources.



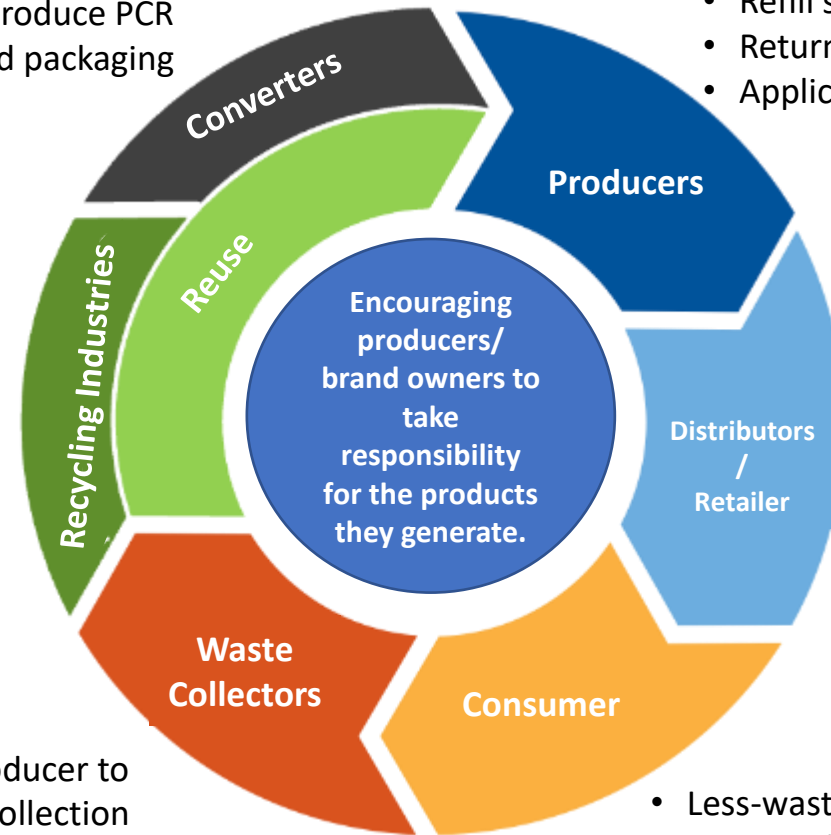


Encouraging producers/brand owners to take responsibility for the products they generate.

- Partnership with Producer to produce PCR products and packaging

- Partnership with Producer to produce PCR products and packaging as well as to implement take-back collection scheme

- Partnership with Producer to implement take-back collection scheme
- Apply reverse logistic for returnable & reusable packaging



- Elimination/*phase out*
- *Re-design*
- Refill system
- Returnable & reusable packaging
- Application of take-back for recycling scheme

- No provide plastic bag
- Application of bulk store scheme
- Application of product retour system
- Application of refill system
- Drop of point for return & reuse packaging
- Drop-of point of take-back scheme

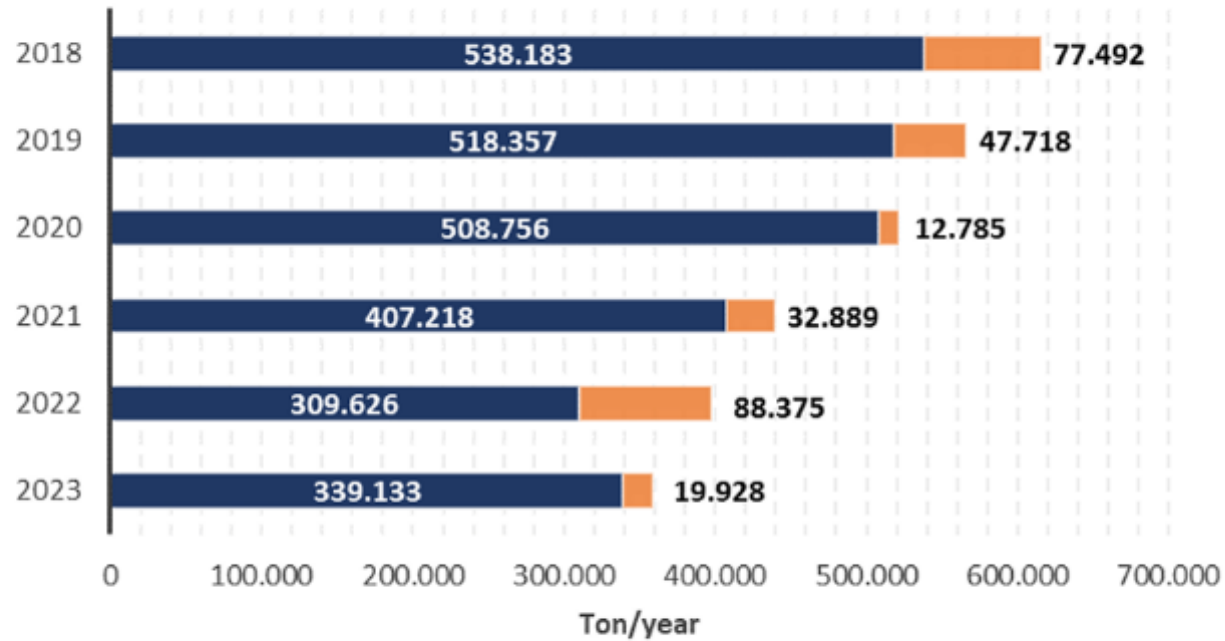
- Less-waste lifestyle:
 - Avoiding single-use plastic items
 - Shopping of no-packaging products and refill system
 - Segregating waste at home
 - Bringing-back packaging for reuse and recycling



Achievement of Marine Plastic Waste Reduction



Total plastic waste in ocean (ton)



615,675 TON

In 2018

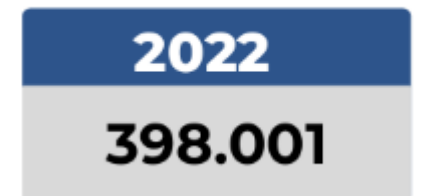
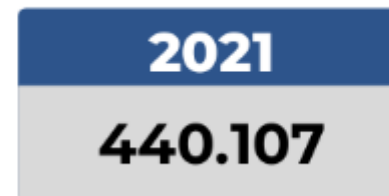
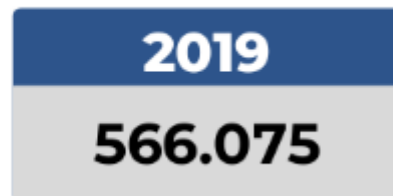
41,68%

359,061 TON

In 2023

■ Land-based Plastic Waste ■ Sea-based Plastic Waste

Source: Various data processed by TKNPSL



Achievement of Marine Plastic Waste Reduction



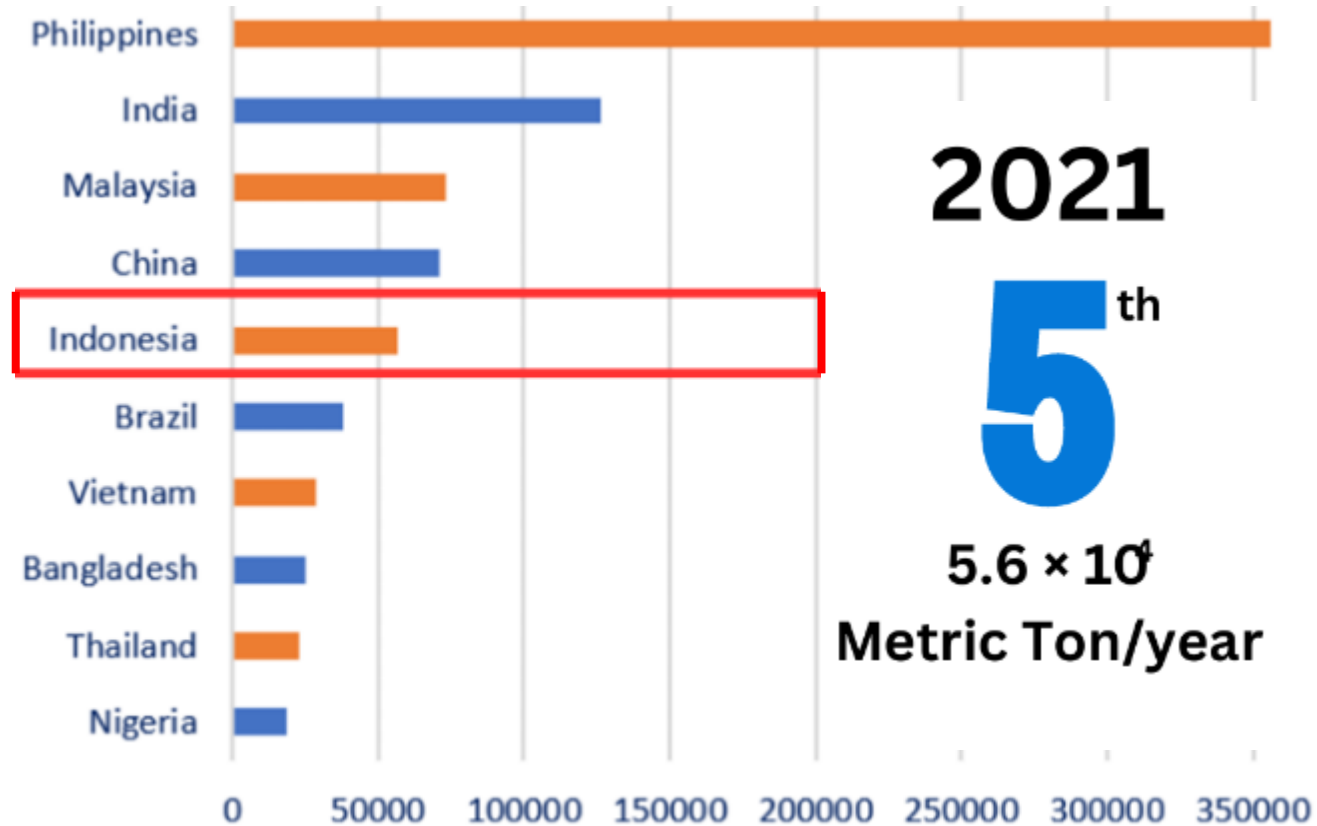
MARINE POLLUTION

Plastic waste inputs from land into the ocean (2015)

Jenna R. Jambeck,^{1*} Roland Geyer,² Chris Wilcox,³ Theodore R. Siegler,⁴ Miriam Perryman,¹ Anthony Andrady,⁵ Ramani Narayan,⁶ Kara Lavender Law⁷

Rank	Country	Mismanaged plastic waste [MMT/year]	% of total mismanaged plastic waste	Plastic marine debris [MMT/year]
1	China	8.82	27.7	1.32–3.53
2	Indonesia	3.22	10.1	0.48–1.29
3	Philippines	1.88	5.9	0.28–0.75
4	Vietnam	1.83	5.8	0.28–0.73
5	Sri Lanka	1.59	5.0	0.24–0.64
6	Thailand	1.03	3.2	0.15–0.41
7	Egypt	0.97	3.0	0.15–0.39
8	Malaysia	0.94	2.9	0.14–0.37
9	Nigeria	0.85	2.7	0.13–0.34
10	Bangladesh	0.79	2.5	0.12–0.31
11	South Africa	0.63	2.0	0.09–0.25
12	India	0.60	1.9	0.09–0.24

Top 10 Countries in the World that release the most plastic into the oceans (tons), 2021



Meijer, et al. 2021; The European House – Ambrosetti on World Population Review data, 2022.



Terima Kasih

📷 [Indonesia_Bersih](#)



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Part 2 : Zoom on Indonesia



Karyanto Wibowo

Director Sustainable Development
Danone, Chair of PRAISE &
Supervisory board of the Indonesia
Packaging Recovery Organisation



2 million of AQUA Jugs are transported everyday into homes, office, cafes, etc.

- 82% less carbon | 250.000 tons plastics reduced





Indonesia Packaging Recovery Organization (IPRO)

is a voluntary, non-profit, independent, and professionally managed, focused on promoting circular economy thru **reusable**, the **collection** and **recycling** of *post consumer packaging* by verifying financial flows, complying to social and national and international environmental standards towards a circular economy in Indonesia.





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Ir. I Gusti Putu Ekayana, M.Si

Head of the Environment Agency,
Tabanan Regency

Tabanan Regency Waste Management



Nusa Dua 23 May 2024

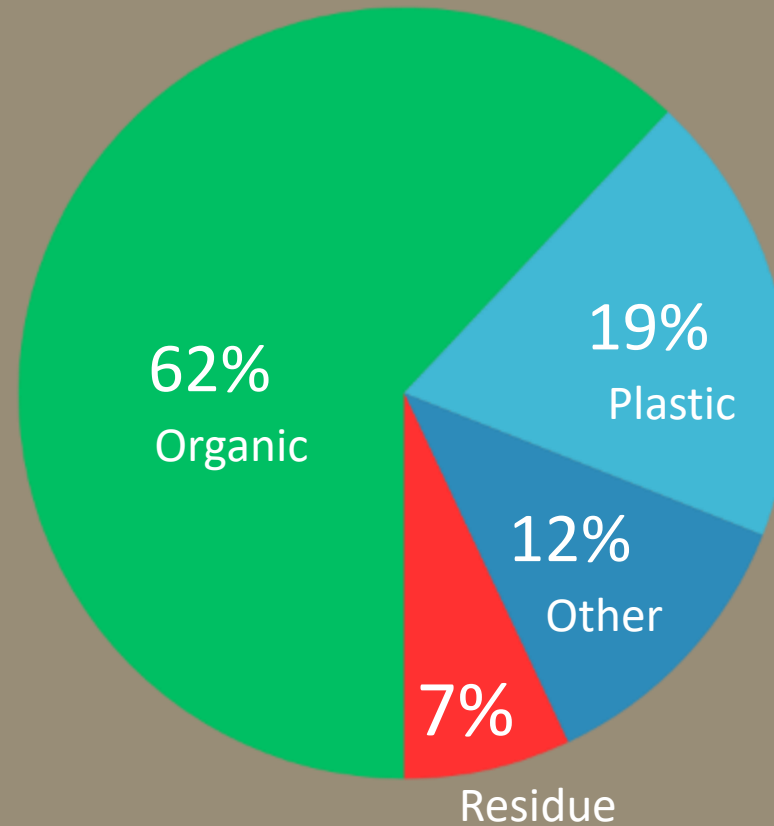
- Tabanan = 15% of the surface area of Bali
- Population = 469.000
- 133 Villages / 43 villages with a TPS3R*
(* sorting and recycling facility to divert waste from landfill)
- Landfill established in 1996 > 110 t/d



Waste Generation

Waste Generation	Tonnes/day
House Hold	171
Non House Hold	251
Total	422

Waste Composition





The Challenges

- Increasing volumes of waste/ capita
- Insufficient availability of collection services and the final disposal for residual waste
- Low sorting at source, which aggravates the lack of availability
- Lack of operational standards for infrastructures
- Lack of integration with the private sector



Tabanan Regency Development Vision 2005-2025

Tabanan Sejahtera Based on Agriculture

1. Realizing healthy, intelligent, productive, and religious human resources (HR)
2. Realizing economic growth and equity while taking into account the sustainability of environmental functions and balance
3. Creating responsible agriculture. Resilient agriculture is characterized by the products produced having comparative and competitive competitiveness
4. Making Tabanan Regency as the center of Bali Province Agrotourism
5. Realizing excellent public services by forming a good government system
6. Preserving and developing regional culture

Tabanan Regency Development Vision 2021-2026

Nangun Sat Kerthi Loka Bali:
Through the Universal Planning Development Pattern in Tabanan Regency towards Tabanan New Era: Safe, Superior, Madani (AUM)

1. Creating a safe and comfortable Tabanan Society in life (*Aman*)
2. Building Tabanan Society that has the ability and high competitiveness in all areas of life (superior)
3. Realizing Tabanan Society that has socio-economic independence in various fields with personality in culture (Madani)

Tabanan Waste Management Vision 2023-2045

Kabupaten Tabanan bebas sampah menuju **SURGA BALI**
Surga: Sampah **UR**usan war**GA**
Bali: **B**ersih, **A**man, **L**estari, **I**ndah

Tabanan Regency is waste-free towards **BALI PARADISE**
Heaven: citizen participation in managing waste to create Bali:
Clean, Safe, Sustainable, Beautiful

Container and collection

- a) Reduce leakage of waste into the environment by improving access to collection and disaggregated container practices at the correct source.
- b) Build a disaggregated waste management system that can be accessed throughout the region and enjoyed by all Tabanan people
- c) Change static collection system to mobile to control free rider system.

Processing and recycling

- a) Increase waste recycling and utilization of processed products from waste by potential offtakers from other sectors (agriculture, fisheries, animal husbandry, tourism and industry).
- b) Optimization of TPS3R for processing organic waste into standardized compost raw materials.
- c) Optimization of the Waste Bank as a sustainable collector of recycled materials and disaggregated organic materials at the village level.
- d) Producing standardized compost through the Compost House, and increasing the selling value of recycled materials through PDU (Recycling Center).

Final Processing

- a) The transportation and final processing of residues (waste processing residues) from all districts is the responsibility of the local government and the landfill is operationalized in a sanitary landfill.
- b) Gradual transition from landfill to SARBAGITA Regional TPST by maximizing the strength of Tabanan as part of the Sarbagita Urban Area National Strategic Area (KSM) which still has land.

**Governance
System**

Waste Management Regulations

1. Creating legal certainty through a clear and complete Policy Package with gradual and collaborative implementation
2. Towards social order from all stakeholders through strengthening legal awareness, implementing incentives to encourage changes in understanding and involvement of customary/religious leaders for social behavior;
3. Creation of legal order through strengthening customary, social, administrative, and criminal law enforcement systems, as well as community complaint mechanisms
4. Creating certainty of investment in the waste management sector with the principle of sharing risk, cost, and income.

Waste Management Institution

1. Distribution of waste management authority to OPDs related to waste sources proportionally
2. Strengthening the performance of District Level services, through the implementation of BLUD and the establishment of 1 new UPT professionally and gradually.
3. Strengthening the performance of Village Level services, Village Assistance to have independent waste services.
4. Strengthening service performance by the public and non-government:
5. Development of Waste Banks in each Banjar Dinas and integrated with informal, village and district sector services
6. Encourage the involvement of professional and responsible private management operators to be involved.
7. Strengthening the joint responsibility of all stakeholders through the Working Group and the Multi-Party Forum on Waste Management as a forum for coordination
8. Strengthening Tabanan coordination as part of the Sarbagita Urban Strategic Area
9. Increased human resource capacity as needed System development

Waste Management Financing/ Funding

1. Budgeting commitment to finance the waste management system through the waste system financing planning package
2. Encourage sustainable funding and financing through service improvements according to minimum service standards with professional operators and contribution collection systems
3. Creation of a business climate, ease of doing business, and involvement of the regional banking system to create a pattern of cooperation with the informal sector
4. Professional assistance in the financial and managerial fields for the establishment of a professional and transparent operational and management system in village/local government waste management facilities.

Physical System



Matur Suksma



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Part 2 : Zoom on Indonesia



Dadang Cahya Rusdiana

Head Unit of Penanganan Sampah
Badan Air, Dinas Lingkungan Hidup
Provinsi DKI Jakarta

BULKY WASTE INTO RDF (REFUSE DERIVED FUEL) CILIWUNG RIVER JAKARTA

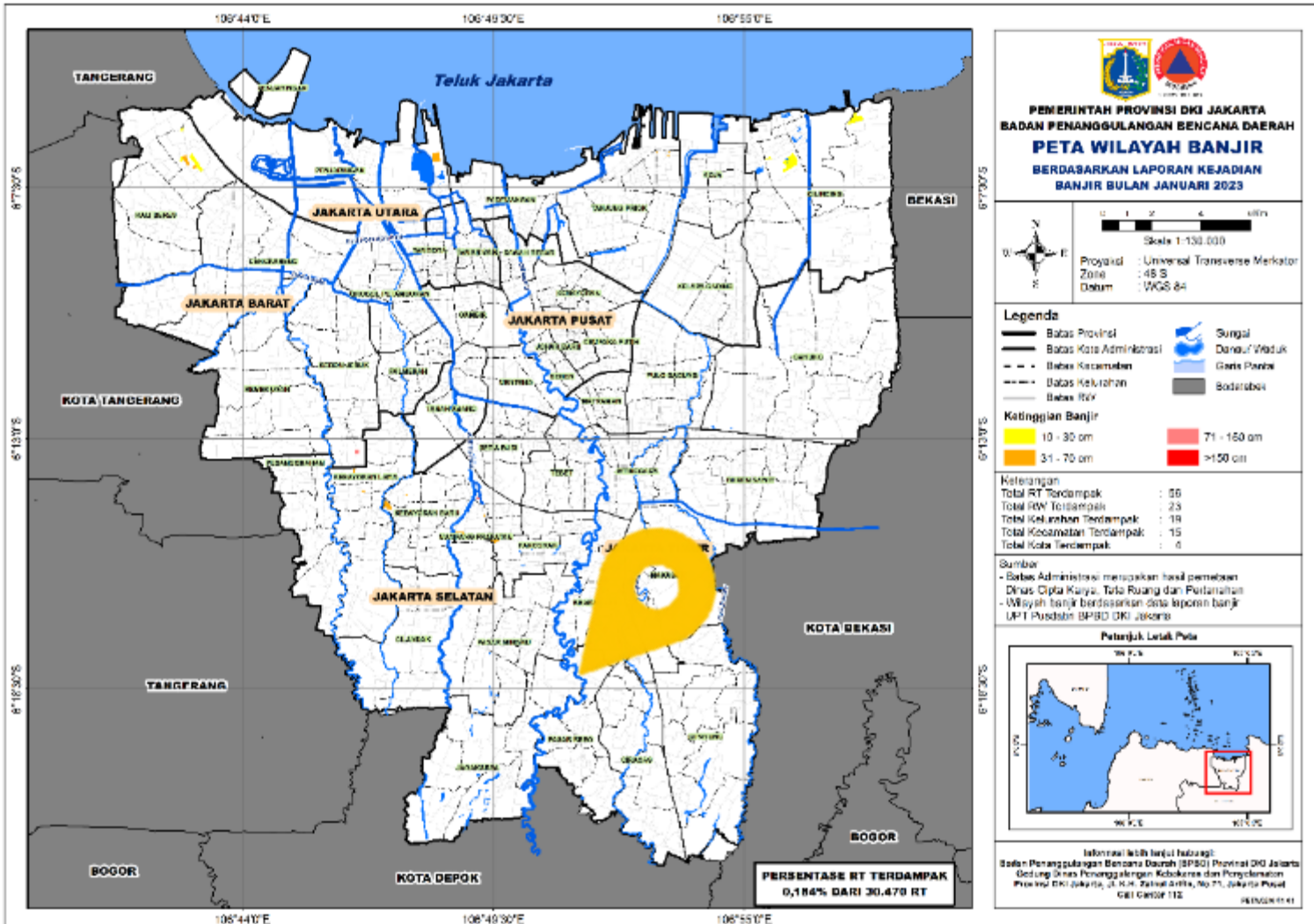
OWNED BY :



**UNIT PELAKSANA BADAN AIR
DINAS LINGKUNGAN HIDUP
PROVINSI DKI JAKARTA**



RIVER IN THE CITY OF JAKARTA



Sumber : <https://bpbd.jakarta.go.id/infografis/57/peta-banjir-bulan-januari-2023>



Lokasi...

Jln. TB.Simatupang Rt003 Rw005 Kel. Tanjung Barat, Kec. Jagakarsa, Kota Administrasi Jakarta Selatan

Kapasitas...

Dapat menampung sampah dengan kapasitas hingga 222 m³/hari atau hamper mencapai 50 ton/hari

Ponton...

Memiliki 2 unit ponton pengarah sampah yang mengalir menuju aliran kali gendong menuju saringan tahap #1

Saringan Sampah Otomatis...

Terdiri atas 2 tahapan saringan otomatis

❖ Saringan Tahap #1

Menahan sampah-sampah berukuran besar

❖ Saringan Tahap #2

Menahan sampah-sampah berukuran kecil

Proses Treatment...

Sampah diolah melalui 2 kali tahapan penyaringan dan 2 kali tahapan pencacahan untuk dimanfaatkan menjadi bahan composting dan RDF (refused derived fuel)

BEFORE...



AFTER...



BEFORE...



AFTER...



BEFORE...



AFTER...



BULKY WASTE to RDF JOB SITE VIEW OF THE PROJECT



BULKY WASTE to RDF JOB SITE VIEW OF THE PROJECT





MSW & BULKY WASTE PRIMARY SHREDDER

Bulky Waste Crusher

Exavator Spider

Sampah yang telah di hancurkan menjadi ukuran 1cm-30cm dan memisahkan logam-logam secara otomatis

Sampah yang di ambil dari kali gendong



Foto sampah-sampah yang diangkut dari Sungai Ciliwung



MANUAL SORTIR OF FOR PLASTIC, GLASS, STONE, ETC

Di transfer menggunakan Horizontal Conveyor dan Incline Conveyor



Operator UPS Badan Air Lingkungan Hidup sedang memilah sampah-sampah plastic yang sudah di cacah di bulky waste crusher sebelum masuk ke drum screen dan secondary shredder



Foto Pemilahan sampah-sampah plastic oleh UPS Badan Air Lingkungan Hidup Jakarta

DRUM SCREEN RUNNING

Incline Conveyor untuk sampah berukuran <3cm

Incline Conveyor untuk sampah berukuran >3cm untuk masuk ke mesin pencacah tahap 2 (secondary shredder)



Drum Screen untuk menyaring/memisahkan sampah yang berukuran <3cm turun ke bawah dan >3cm lanjut ke tahap pencacah 2 (secondary shredder)



Foto mesin penyaring sampah berukuran kasar dan halus

SECONDARY SHREDDER RUNNING

Sampah RDF ukuran 0cm-5cm siap yang sudah di cacah dan siap dikirim ke OFF TAKER



pencacah sampah RDF ke 2 oleh mesin secondary shredder menjadi ukuran 0cm-5cm

Network: 16 Nov 2023 09:32:39 WIB
Local: 16 Nov 2023 09:32:39 WIB
225° SW



Foto mesin tahap pencacahan 2 (secondary shredder) menjadi sampah RDF, siap dikirim ke OFF TAKER



Output
Material
RDF

Network: 16 Nov 2023 09:32:39 WIB
 Local: 16 Nov 2023 09:32:39 WIB
 226° SW
 Jalan Muara Dalam 1
 Kecamatan Jagakarsa, Kota Jakarta Selatan 12530
 - Altitude: 60.4m

PT. INDOCEMEN TUNGGAL PRABAKSA Tbk.

Kantor Pusat:
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Nama: 157/PT/AFAM-SCRN/2023
Sifat: Perihal
Perihal: Penawaran Indocemen sebagai off-taker Bahan Bakar Alternatif dan Penyediaan Penyediaan dan Pengolahan sampah Sungai Ciliwung

Kepada Yth:
 Kepala UPST - Dinas Lingkungan Hidup Provinsi DKI Jakarta
 Jalan Mendala V No. 87 Ciliwung,
 Kecamatan Kramat Jati
 DKI Jakarta - 12640

Sehubungan dengan adanya rencana pengembangan pengolahan sampah kota yang sesuai lingkungan oleh Pemerintah Provinsi DKI Jakarta berupa Proyek Sistem Penyediaan dan Pengolahan sampah Sungai Ciliwung di Lokasi Simet, pang. Jakarta Selatan, Atasepa Tu. (sebagai kami sampaikan sebelumnya PT Indocemen Tunggul Prabaksa Tbk. untuk menjadi off-taker Bahan Bakar Alternatif.

Dapat kami sampaikan bahwa PT Indocemen Tunggul Prabaksa Tbk. memiliki potensi memanfaatkan Bahan Bakar Alternatif tersebut sebagai energi yang digunakan secara berimbang, sehingga sanggup memenuhi seluruh hasil produksi Bahan Bakar Alternatif tersebut yang terdiri dari komposisi utama adalah dry plus 3. Adapun spesifikasi yang diharapkan adalah sebagai berikut:

Sebagai bagian dari konsolidasi PT Indocemen Tunggul Prabaksa Tbk. perlu berkoordinasi dengan pihak terkait untuk dipertimbangkan melakukan diskusi mengenai aspek legal, teknis dan lainnya dan rencana pengembangan pengolahan sampah tersebut. Sebagai langkah awal, PT Indocemen Tunggul Prabaksa Tbk. bersedia bekerja sama dengan Pemerintah Provinsi DKI Jakarta untuk pemanfaatan Bahan Bakar Alternatif dari fasilitas pengolahan sampah tersebut.

Demikian surat ini kami sampaikan, terima kasih atas perhatian dan kerjasamanya.

Ditandatangani, 16 November 2023
 Di Jakarta
PT INDOCEMEN TUNGGAL PRABAKSA Tbk.

Seksi C. R. R. R. R.
 General Manager Energy and Alternative Fuel, Alternative Material Division
 PT Indocemen Tunggul Prabaksa Tbk.

Tembusan:

- Kepala Dinas Lingkungan Hidup Provinsi DKI Jakarta
- Kepala Badan Air Dinas Lingkungan Hidup Provinsi DKI Jakarta
- Direktur Utama, PT Indocemen Tunggul Prabaksa Tbk.
- Direktur Business and Development, PT Indocemen Tunggul Prabaksa Tbk.





Foto pemanfaatan composting untuk media bercocok tanam oleh petugas UPS Badan Air Lingkungan Hidup

No.	Description	Volume	Amount (IDR)
I	Work Preparation	1,00 set	3.500.000.000,00
II	Civil Contruction Work	1.00 set	120.000.000.000,00
III	RDF Processing Technologies		160.000.000.000,00
Total			283.500.000.000,00



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Fighting pollution caused by waste and plastics: a collective effort to protect freshwater and oceans!

Part 2 : Zoom on Indonesia



Pak Victor Nikijuluw

Konservasi Indonesia's Senior
Adviser



KAJIAN AKADEMIS
UNIT PELAYANAN TEKNIS DAERAH (UPTI)
PENGELOLA PERSAMPAHAN
KABUPATEN KAIMANA



BERTAKARIB
KERJASAMA PELAKSANAAN DAN MONITORING SAMPAH DI SUNGAI UO GADING
MELALUI PROTOTYPE MANGROVE-BIN

Dalam rangka meredakan laju kegiatan Miskin Inovator Laboratorium yang diselenggarakan oleh Conservation International dengan judul "Rencana Pengembangan dan Uji Coba Pilot Prototype Alat Pengumpul Sampah untuk Kesehatan Mangrove Indonesia" pada hari Kamis, 20-04-2017 (Tanggal Dua Puluh Empat April Tahun Dua Ribu Tujuh Belas), di Balai Penelitian dan Observasi Laut - Kementerian Kelautan dan Perikanan, Jalan Baru Perancis nomor 1 (satu) Kabupaten Jember, telah dilakukan kesepakatan kerjasama berbagai pihak untuk pelaksanaan dan monitoring sampah di Sungai Uo Gading melalui prototype Mangrove-Bin yang dibantu dengan acara perayaan Hari Bumi, dengan tugas dan tanggung jawab sebagai berikut:

Kesepakatan ini berlaku untuk empat bulan pelaksanaan, yaitu dimulai dari tanggal 20 April hingga 19 Agustus 2017. Adapun biaya dan pembungkaman kerjasama pelaksanaan dan monitoring ini akan dibayarkan secara detail pada dokumen pendukung lain yang telah dibagikan bersama.

Jember, 20 - 04 - 2017
 Yang Bertanggung Jawab,

Kelompok Masyarakat Pebuli
 Sumberdaya Air Sungai Uo Gading
 dan Lestari Uo Gading
 (KUMADALU UO GADING)

 Jusuf Karim
 Ketua Kelompok

Balai Penelitian dan
 Observasi Laut (BPOL)

 Dr. I Nyulian Radjaja, M.Sc
 Kepala Balai

Conservation International
 Indonesia (CI)

 I Widi Iwan Dewantama
 Manajer Program Pulau Bali

Mengetahui,
 Dinas Lingkungan Hidup
 dan Jember

 Drs. I Hanik Kusudi Erawati
 Kepala Dinas



SALINAN



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Lionel Goujon

Head of the water and sanitation
division AFD



THANKS



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