



**COORDINATING MINISTRY FOR MARITIME AFFAIRS  
REPUBLIC OF INDONESIA**

# **Improving Solid Waste Management Capacity as a tool for combating Marine Plastic Debris Issue**

**CTI-CFF 13<sup>th</sup> Senior Officials Meeting (Pre- SOM and SOM-13)  
27 – 30 November 2017 Makati City, Philippines**

**Manila, 30 November 2017**

# INDONESIA

1. Largest archipelagic state in the world, with more than 17.000 islands
2. 6 million square km of waters, more than 91.000 km of coastal lines
3. Three time zones
4. 10 neighboring countries
5. Home of 23 % of global mangroves
6. Home of 30.000 km<sup>2</sup> Seagrass
7. Home of 75% of all known marine life
8. 4 Critical Choke Points for global navigations



# CHALLENGES

1. **Fight Poachers**
2. **Armed Robbers at Sea,**
3. **Hijackers at Sea**
4. **Slavery at Sea,**
5. **People Trafficking at Sea,**
6. **Mitigating Climate Change Effect,**
7. **Governmental Services to Remote Islands**
8. **Health of The Ocean**



# CHALLENGES: Health of the Ocean

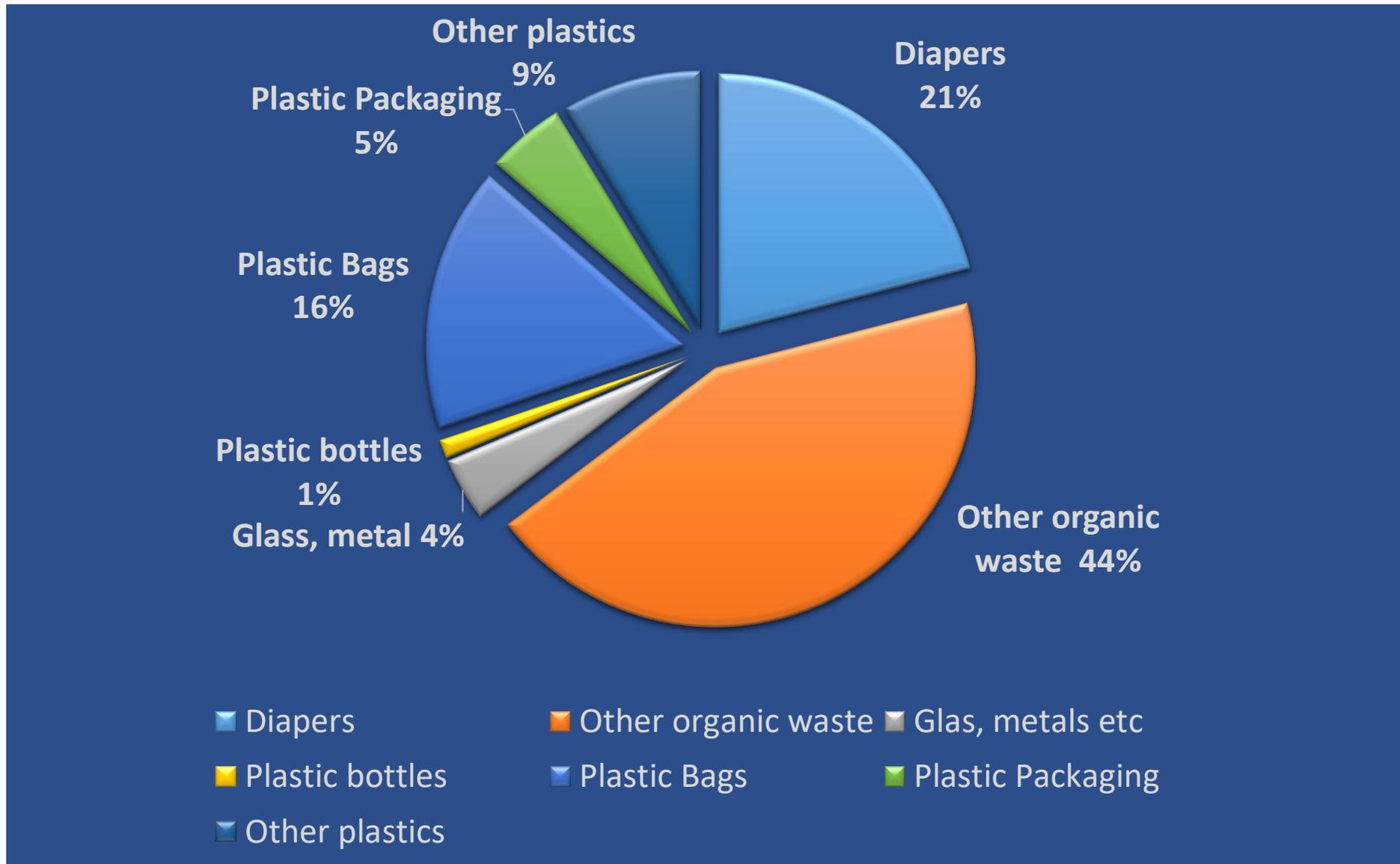
**OIL SPILL**

**SLUDGE OIL**

**OIL POLLUTION FROM FIXED PLATFORM**

**MARINE LITTER**

# COMPOSITION OF INDONESIAN MARINE LITTER



Source: World Bank 2017

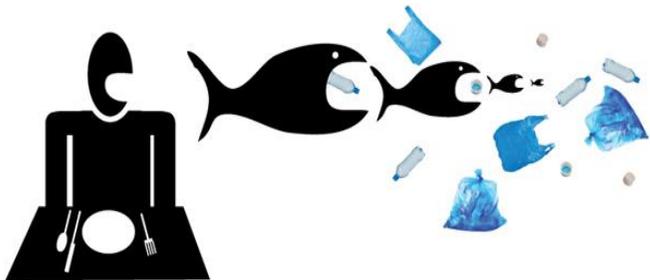
# MARINE PLASTIC DEBRIS - CONSEQUENCIES



**TOURISM** : MARINE PLASTIC DEBRIS, INVADING MORE AND MORE TOURISM AND COASTAL AREAS



**ENVIRONMENT AND MARINE LIFE** : MILLIONS OF MARINE LIFE THREATENED BY MARINE PLASTIC DEBRIS



**HUMAN HEALTH** : IT WAS FOUND THAT MORE THAN A THIRD OF SAMPLED COMMERCIAL FISH CONSUMED PLASTIC OR MICROPLASTICS

# *Coelacanth*, ancient fish in northern Sulawesi, Indonesia



The living fossil “coelacanth: captured by fisherman, found consuming marine plastic debris, captured in Manado Bay, North Sulawesi (Newspaper, Tribun Manado, may 24<sup>th</sup>, 2012)

# COMMITMENT



Indonesia is to reduce wastes through **reduce-reuse-recycle** up to 30% until 2025, while targeting reduction of marine plastic debris as much as **70% by 2025**

President Joko Widodo, at the Leaders Retreat, G20 Summit, Hamburg-Germany, **Friday July 7<sup>th</sup>, 2017**

# G20 – High Level Conference on Marine Litter

Bremen, 30 May – 1 June 2017

# WHAT HAS BEEN DONE



COORDINATING MINISTRY FOR MARITIME AFFAIRS  
REPUBLIC OF INDONESIA

MINISTRY OF RESEARCH, TECHNOLOGY  
AND HIGHER EDUCATION

International Symposium  
*on Marine Plastic Debris*  
MAKASSAR, 9 - 10 AUGUST 2017



# INDONESIA'S ACTIONS



COORDINATING MINISTRY  
FOR MARITIME AFFAIRS  
REPUBLIC OF INDONESIA

## INDONESIAN OCEAN POLICY



Launched Presidential Decree  
of The Republic of Indonesia,  
No.16 of 2017 on INDONESIA  
OCEAN POLICY, February 2017



Established National Plan of  
Action on Marine Plastic  
Debris (2017-2025). May  
2017



The Government of the Republic of Indonesia

EXECUTIVE SUMMARY

## INDONESIA'S PLAN OF ACTION ON MARINE PLASTIC DEBRIS 2017-2025



# NATIONAL PLAN OF ACTION



- **BEHAVIORAL CHANGE**



- **REDUCING LAND-BASED LEAKAGE**

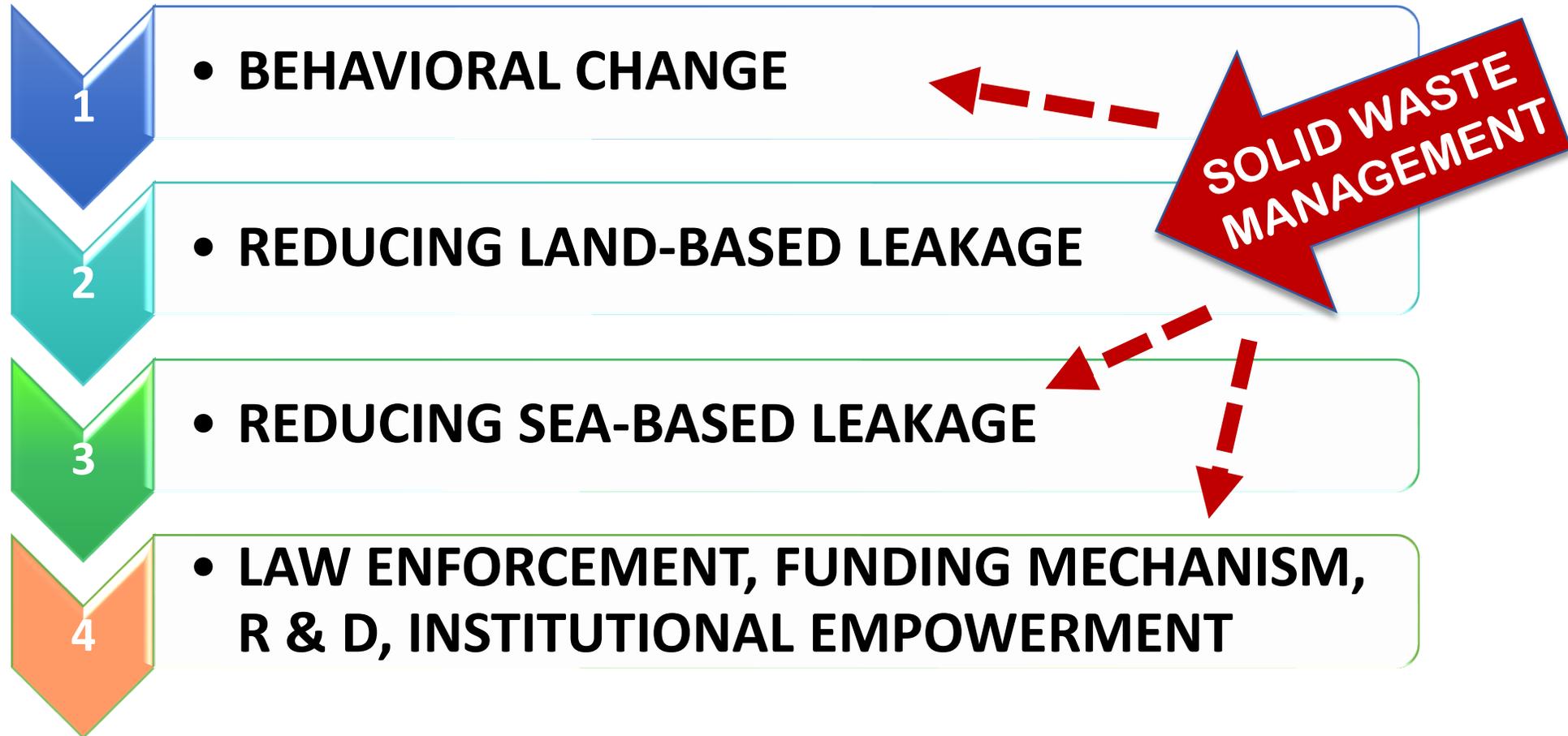


- **REDUCING SEA-BASED LEAKAGE**



- **LAW ENFORCEMENT, FUNDING MECHANISM,  
R & D, INSTITUTIONAL EMPOWERMENT**

# NATIONAL PLAN OF ACTION



# 1. PROMOTING BEHAVIORAL CHANGE



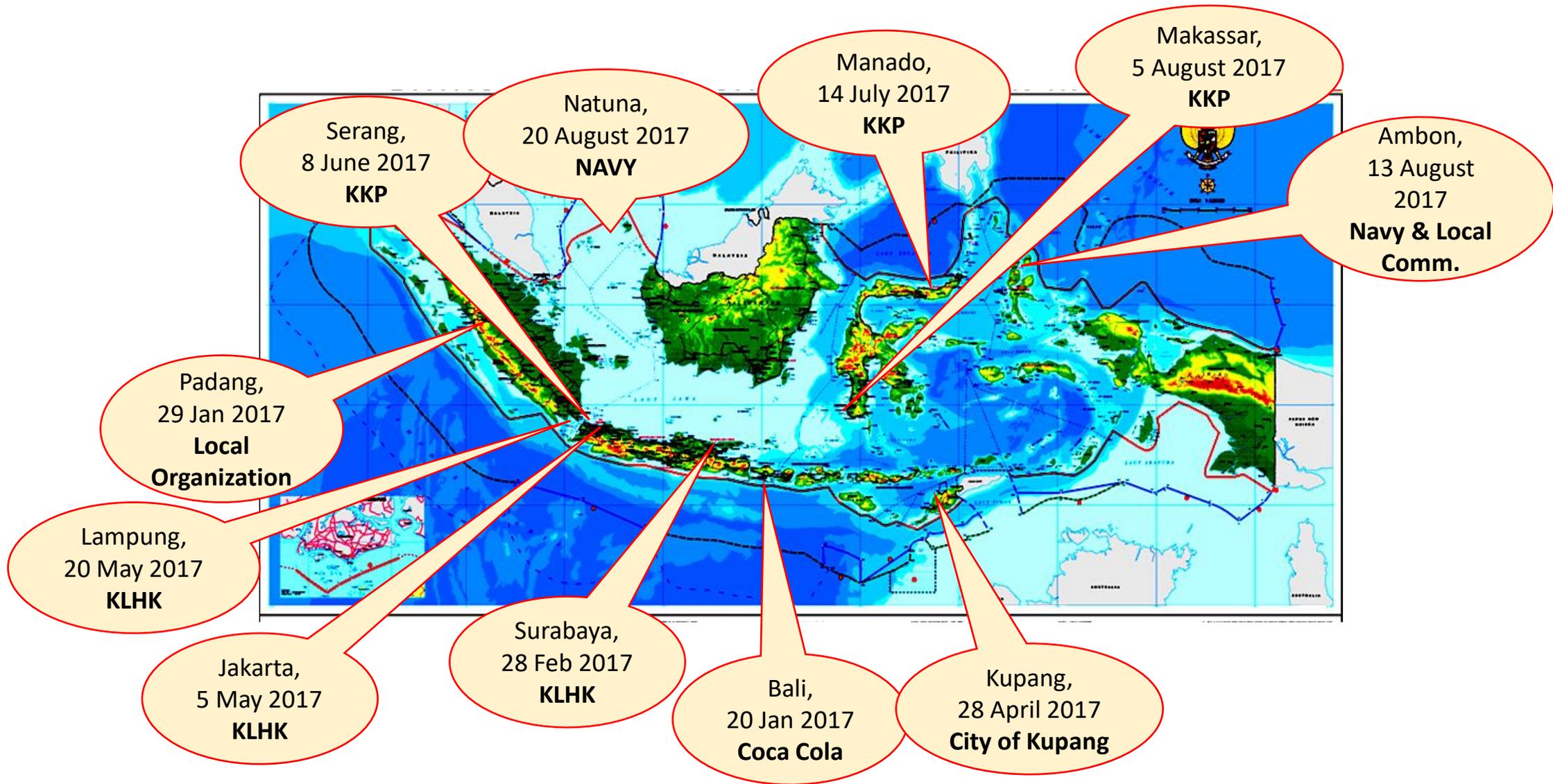
- EDUCATING YOUNG PEOPLE
- INCREASING STAKEHOLDER AWARENESS
- INTER GOVERNMENTAL COLLABORATION
- CROSS SECTOR COLLABORATION
- CHALLENGING OF ELIMINATING PLASTIC WASTE

# CAMPAIGN ON COMBATTING MARINE PLASTIC DEBRIS



Attended by more than 200 high school, college students and communities at @America, JAKARTA

# COORDINATED CLEAN-UP ACTIONS



# 2. REDUCING LAND-BASED LEAKAGE

## JAKARTA CLEAN-UP ACTION



- PLASTIC DEBRIS COME FROM HOUSINGS, CITY STREETS CARRIED INTO THE OCEAN THROUGH CANAL
- MARINE POLLUTION TO SEA LIFE, ECOSYSTEM AND HUMAN



Cilincing - North Jakarta,  
May 4th 2017

# CANAL CLEAN-UPS, May 6<sup>th</sup>, 2017



Minister Luhut Pandjaitan leads the Canal Clean Ups

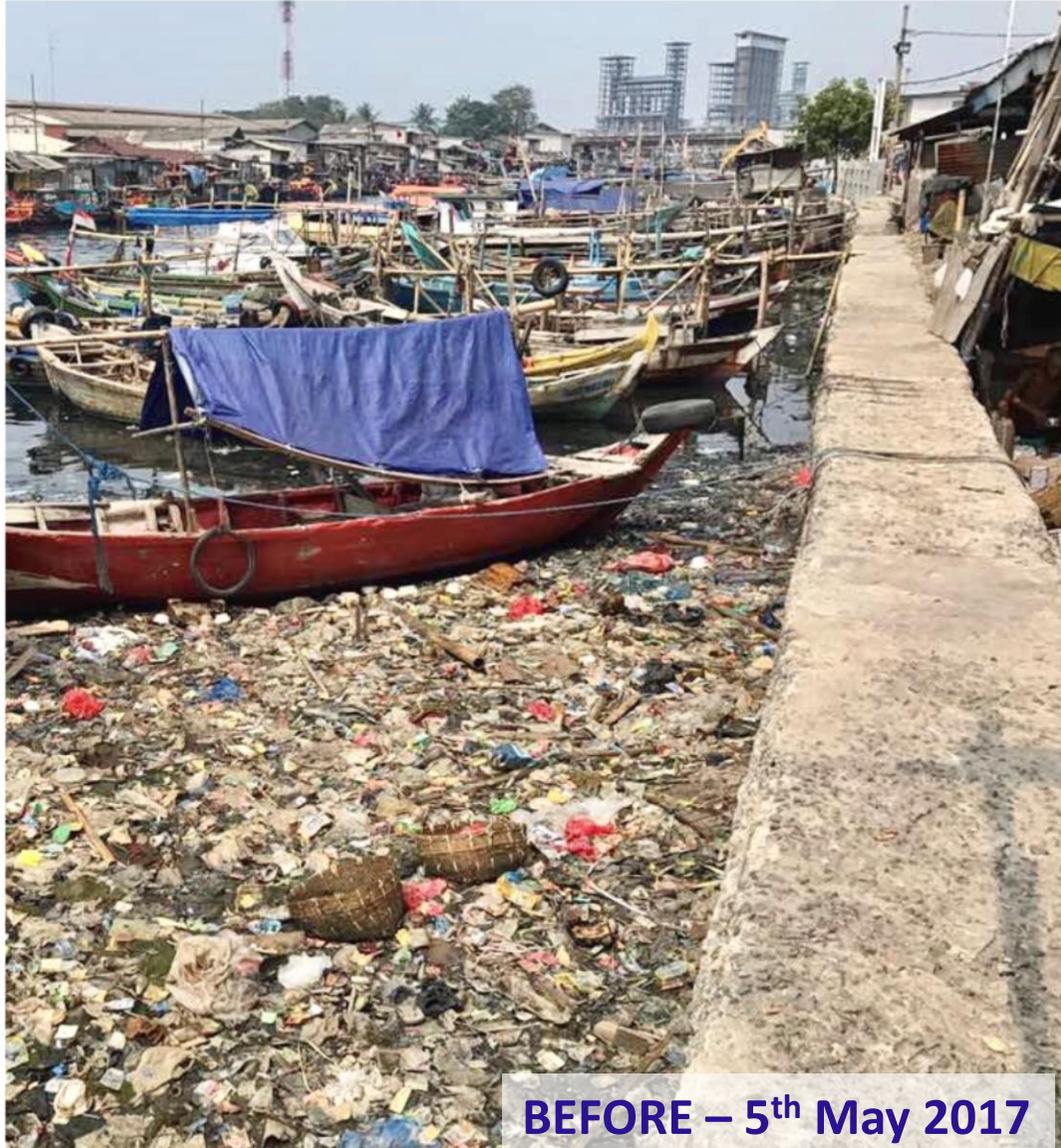


*Supported by foreign embassies (USA, Danish, Belgium, S. Korea)*

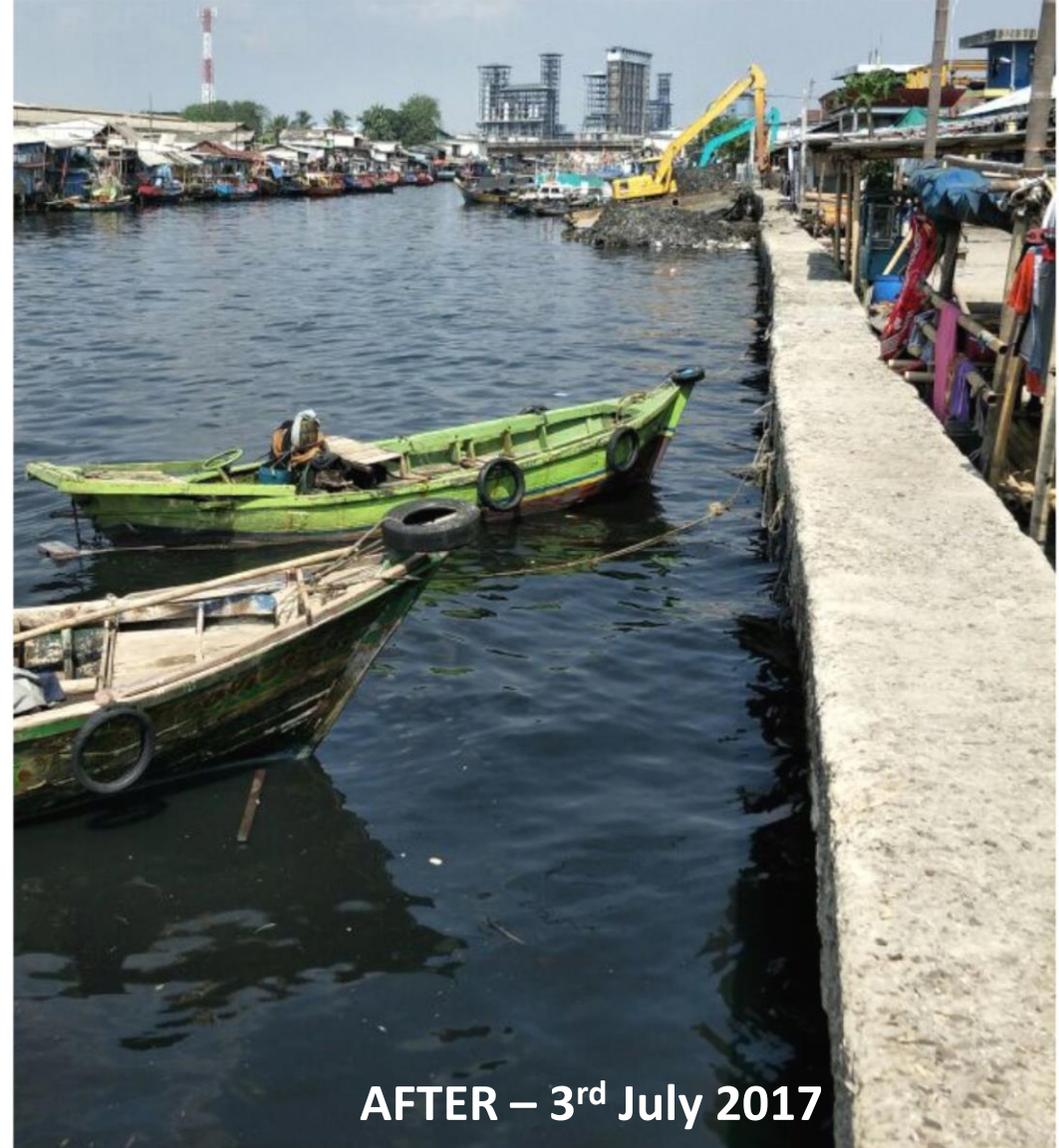
# Example Case – Cilincing Canal Clean Up, 2017



# CANAL CLEAN-UPS, before & 6 weeks later



**BEFORE – 5<sup>th</sup> May 2017**



**AFTER – 3<sup>rd</sup> July 2017**

# 3. REDUCING SEA-BASED LEAKAGE

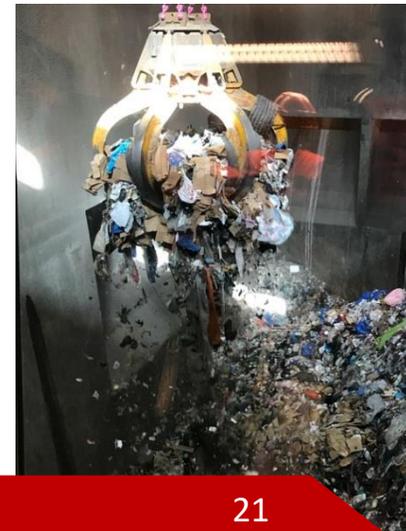
## BEACH CLEAN-UPS



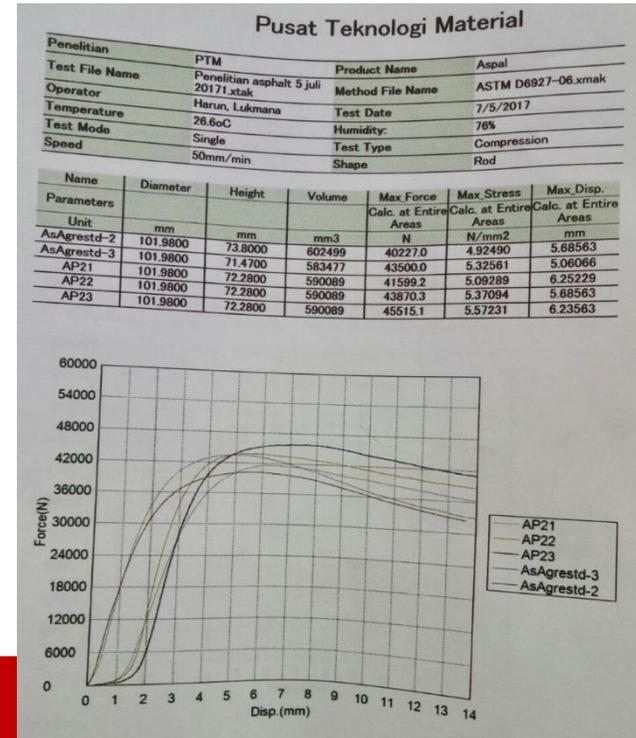
- GARBAGES COULD COME FROM MANY PLACES
- NEED BILATERAL AND REGIONAL COLLABORATION
- IMPROVING RELEVANT TECHNOLOGY FOR MONITORING AND COLLECTING THE PLASTIC DEBRIS FROM THE OCEAN

## 4. LAW ENFORCEMENT, FUNDING MECHANISM, R & D, INSTITUTIONAL EMPOWERMENT

- INTRODUCING PAID PLASTIC BAG
- ENCOURAGING MANUFACTURERS TO USE RECYCLED PLASTICS AS INPUT MATERIALS AS MUCH AS POSSIBLE
- PRODUCING MORE BIOGRADABLE PLASTICS FROM CASSAVA, SEAWEED AND PALM OIL
- DEVELOPING PALSTIC-TAR ROAD (started June 2017)
- WASTE TO ENERGY SOLUTION



# PLASTIC-TAR ROAD



**WE** need to fight this problem with passion to care our oceans that have given us so much for our human life. Lets get rid of this problem because **WE CAN** and **WE CARE**

**THANK YOU**



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