

# Navigating the Future

Department of Marine and Coastal Resources,  
Ministry of Natural Resources and Environment THAILAND



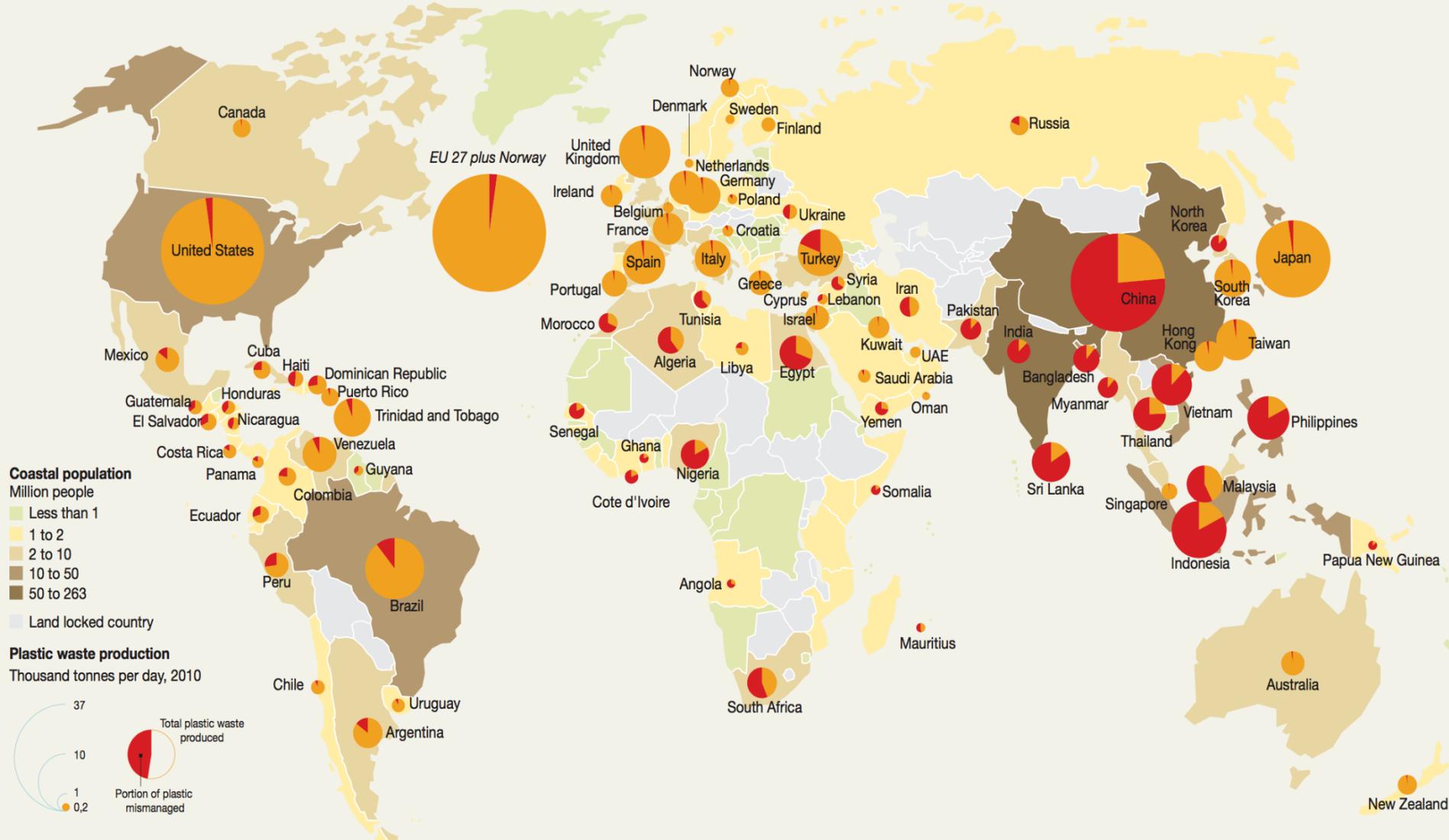
# Marine and Coastal Resources



# Marine Debris problems is Global Concern



## Plastic waste produced and mismanaged



Source: Jambeck, J. R., et al., Plastic waste inputs from land into the ocean, Science, 2015; Neumann B., et. al., Future Coastal Population Growth and Exposure to Sea-Level Rise and Coastal Flooding - A Global Assessment. PLoS ONE, 2015.

# Ocean's Plastic Waste in ASEAN



## Top 10 sources of ocean's plastic waste



About 80% of marine plastic debris comes from land-based pollution. It was discharged into the ocean through about 10 main rivers, which are mostly located in Asia. If we reduce the discharged plastic debris about 50% from these rivers, the ocean's plastic waste will be reduced up to 37%.

# Thailand's Marine Debris Situation in 2018



Waste Management in Thailand's Coastal area

**11.47 million tonnes**

59 %

25 %

16 %



6.73 million tonnes  
Disposed Properly



2.93 million tonnes  
Waste Utilized

**1.81 million tonnes**

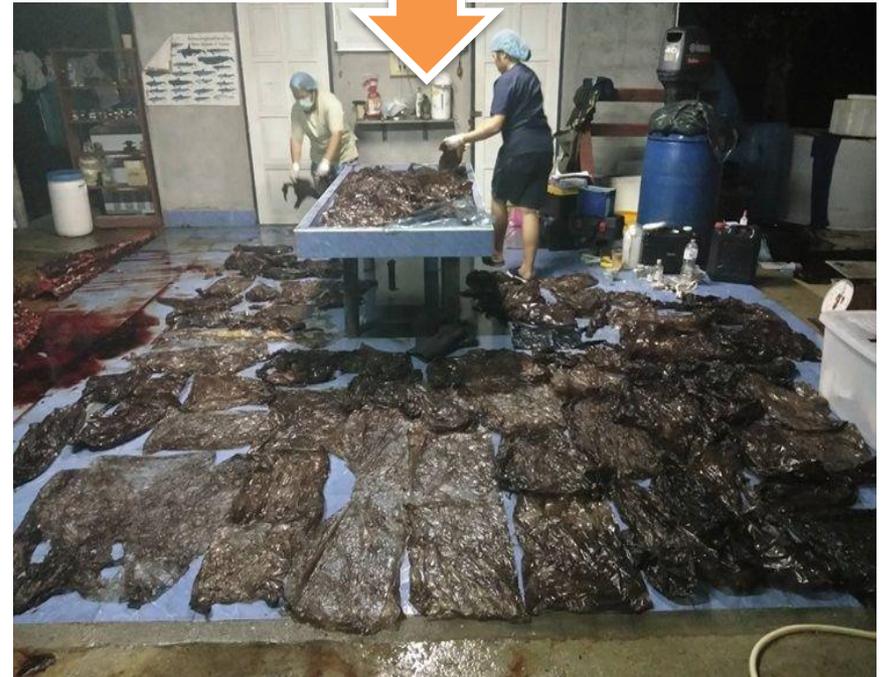
Disposed Improperly



12 % Plastic Waste  
217,200 ton/yr

10-15 % Marine Plastic Waste  
21,700-32,600 ton/yr

# Marine Debris is the Transboundary Issue



Other countries  
label/brand



# ASEAN ACT

## ASEAN Conference in Reducing Marine Debris in ASEAN Region Phuket, Thailand, 22-23 November 2017





# Special ASEAN Ministerial Meeting on Marine Debris Bangkok, Thailand, 5 March 2019



# Thailand's Roadmap on Plastic Waste Management 2018 - 2030

## The Objective

1. to reduce and stop the use of plastic and replace it with environmentally friendly materials by 2019/ 2022
2. 100% of plastic waste will be reusable by 2027

(ร่าง) Roadmap การจัดการขยะพลาสติก พ.ศ. ๒๕๖๑ - ๒๕๗๓  
(Thailand's Roadmap on Plastic Waste Management 2018 - 2030)



# Overall concept for Marine debris management



## Land to Sea Waste Management

### Upstream

- » Apply 3R / circular economy
- » Set national target, by 2027
  - Reduce 50% of marine plastic debris
  - Reduce and recycle 100 % of target plastics
- » Ban specific items of single-use plastics,
  - By 2019 : cap-seal, plastic micro-bead, oxo-degradable plastics
  - By 2022 : shopping plastic bag, Styrofoam box, plastic cup, plastic straw



### Midstream

- » Increase efficiency in solid waste management throughout the processes of collecting, sorting, and disposing of discarded solid materials
- » Public Private Partnerships (PPP) for Plastic and Waste Management



### Downstream

- » Coastal Cleanup Program
- » Smoke-free and Zero Waste Beach
- » Remove floating debris in rivers/canals, by using;
  - garbage boom
  - garbage interceptor
  - garbage trap
  - garbage collection boat



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