

Marine Litter in Indonesia

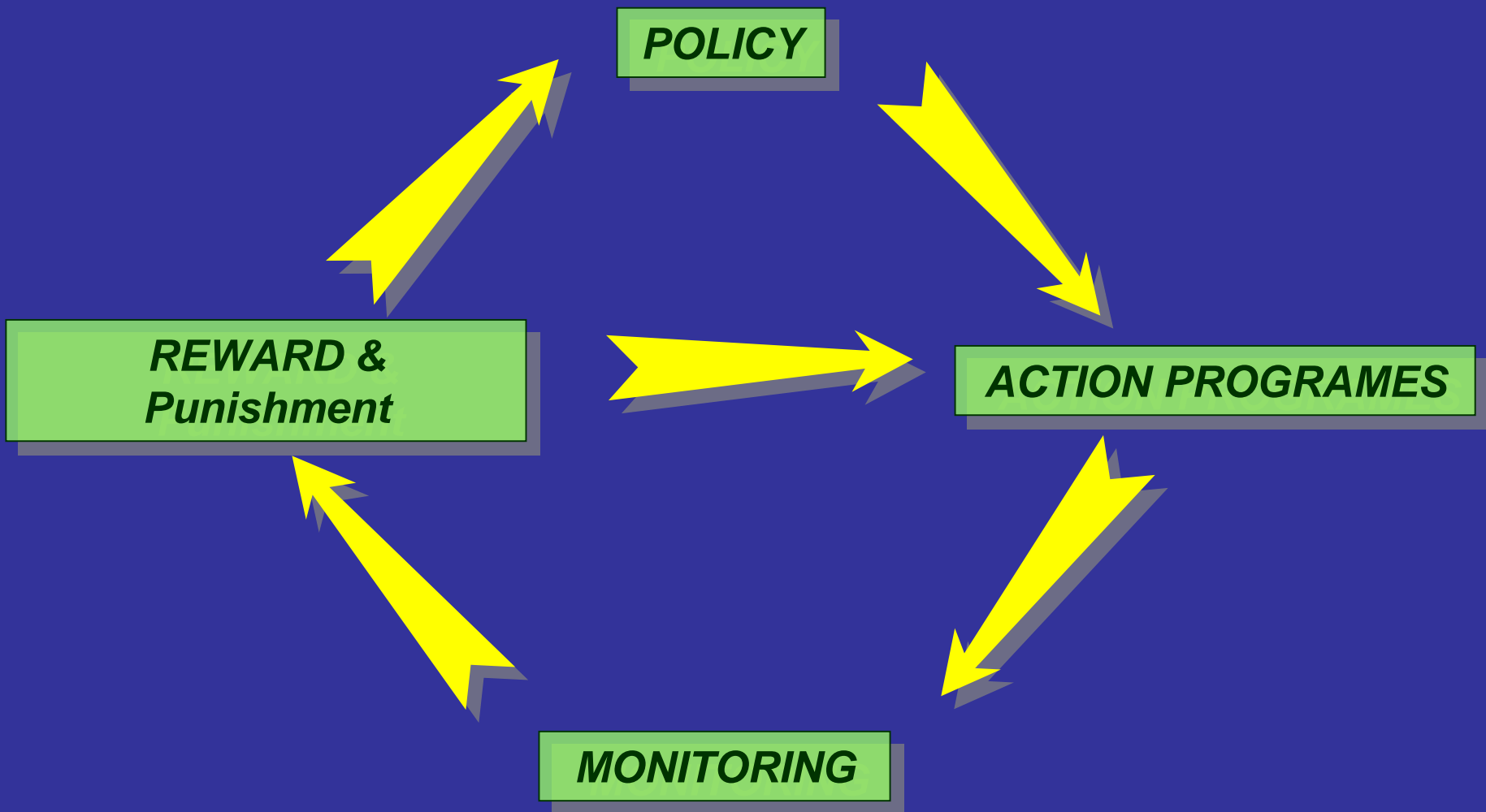
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Coastal Degradation Control

ISSUES

- Indonesia is an archipelagic countries that consists of 17,508 islands, with 81,000 km coastline; some big rivers
- Population in 2005: 210 million, more than 65% located in the coastal area
- Industrial growth centralized in the coastal area;
- It can't be separated between solid waste management in main land --- marine litter management

Pictures



CONCLUSIONS

- Community empowerment:

Campaign, Education, Public Awareness, Develop Community Champion

(There is still a general opinion in the society that "sea is a large waste basket", therefore, there are no concerns on the risk of "throwing waste/litter to the sea".)

- Enhancement Public Private Partnership (PPP) on Solid Waste Management - Marine Litter Management.
- Replication 3R Activities at Wider Scale.
- Increasing quality of the services on solid waste – marine litter management
- Enhancement Monitoring and Information System on Marine Litter

There are very limited data concerning marine litter in Indonesia, which makes it hard to manage the marine litter produced. The existing data and information is not easily available and not centralized in one database/information centre.

CONCLUSIONS

- Replication Integrated River (Watershed) and Coastal Management to Reduce Marine Litter.
- Improving the transfer of information to the public about new practices on Marine Litter Management.
- Expose of the succes stories on Marine Litter Management.
- Increasing Cooperation among local government (upstream to downstream) on solid waste
---to reduce Marine Litter.
- Strengthening networking of stakeholders (recycling orgz, marketing recycle and compost products)
- Replication Reward System for the Neighbourhood Groups Level (under village).
- Law enforcement

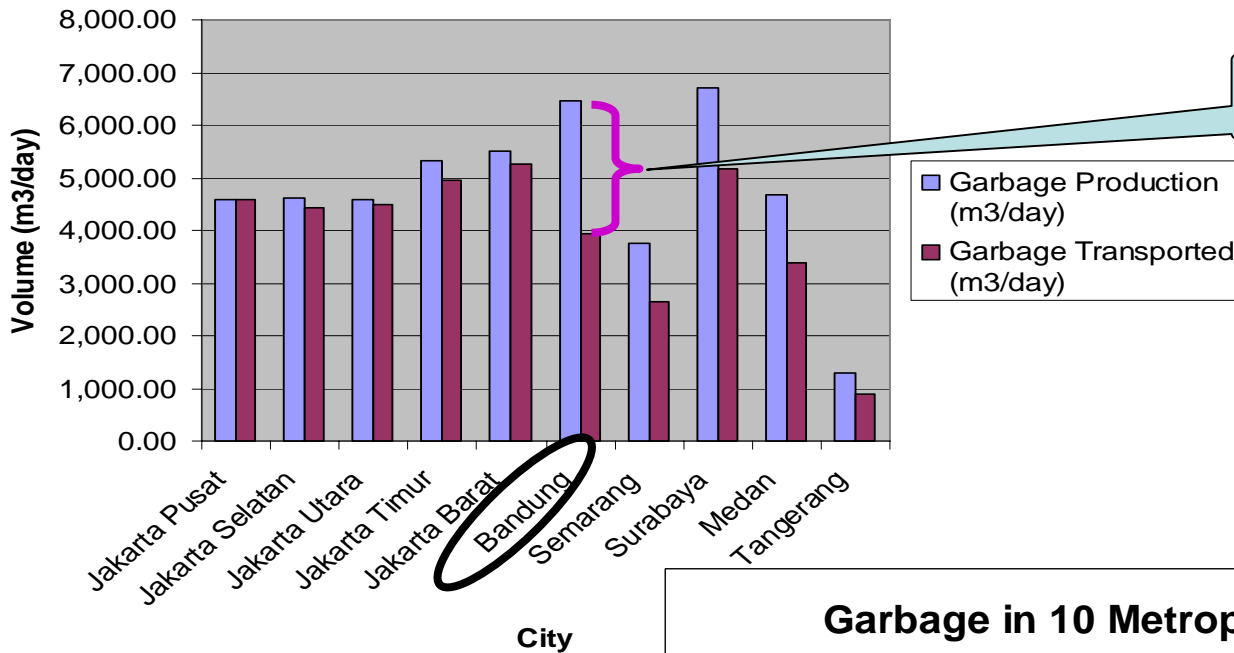
Thank You

POLICY

- Act No. 23/1997 on Environmental Management
- Draft of Action Solid Waste Management
- National Action Plan on Solid Waste Management
- Integrated River (Watershed) and Coastal Management
- Master Plan on River Water Classification (include Solid Waste Management in each segment of the river)
- Desentralization of solid waste management
- Special Allocation Funding to the Local Government for Solid Waste Management
- Provision of Reception Facilities in the Major Ports in Indonesia

Garbages in 10 Metropolitan Cities in Indonesia

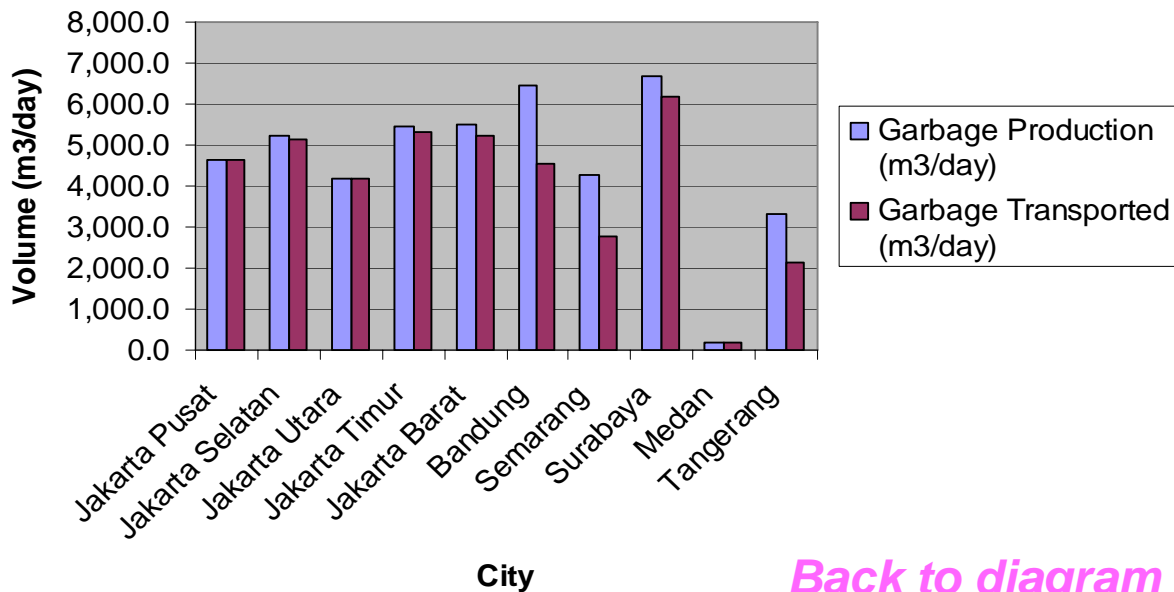
Year 2004



Example: >2000 m3 released

Garbage in 10 Metropolitan Cities in Indonesia

Year 2005

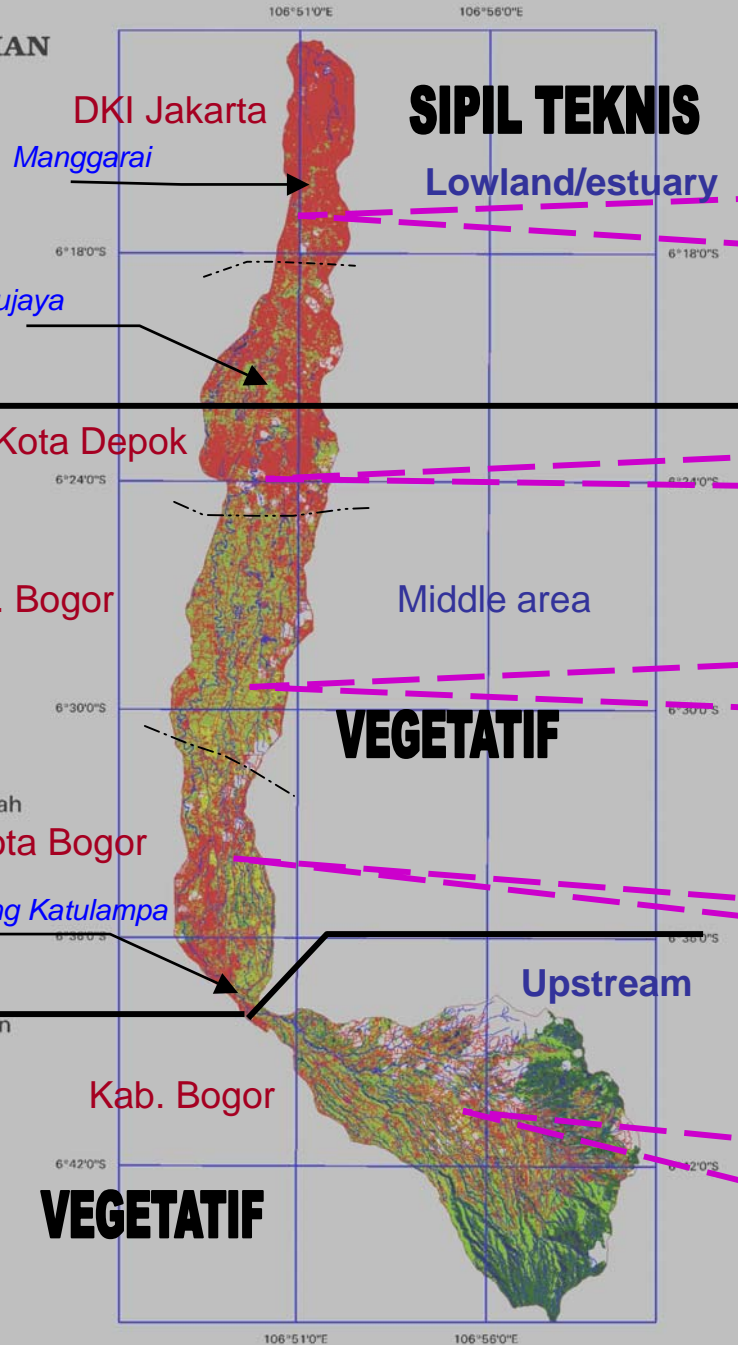
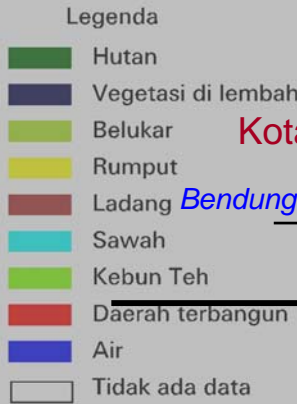
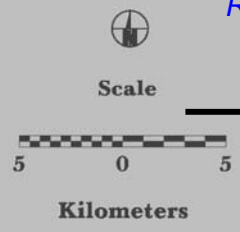


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PENUTUPAN LAHAN

DAS CILIWUNG

TAHUN 2001



SIPIL TEKNIS

Lowland/estuary

Middle area

VEGETATIF

Upstream

VEGETATIF

River Stream

- Domestic waste
- Decrease of catchment area
- Industrial waste
- River garbage

- Domestic waste
- Decrease of catchment area
- Industrial waste

- Domestic waste
- Decrease of catchment area
- Industrial waste
- Cuttle raiser/farming

- Domestic waste
- Industrial waste

- Erossion
- Spatial planning
- Domestic waste
- Cuttle riser/farming

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PETA TELUK JAKARTA



ACTION PROGRAMMES

- Public Awareness.
- Enhance the community participation on solid waste management.
- Implementing 3R Principles – develop marketing framework of compost, paper, plastic product
- Public Private Partnerships on Waste Management.
- Enhancement Services of Solid Waste Management (technical aspect, institutional, public participation, law enforcement)
- Clean Up Programme
- Clean School Programme.
- EcoPort Programme.

Waste Collection and Treatment Facilities at Ocean Fishery Port / Pelabuhan Perikanan Samudera (PPS)

Name of PPS	Area (m ²)	
	Waste Water Treatment Facilities	Solid Waste Collection Facilities
PPS Belawan	80	200
PPS Bungus	24	60
PPS Cilacap	-	-
PPS Jakarta	965	-
PPS Kendari	700	14

Source : Ministry of Maritime Affairs and Fisheries

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MONITORING AND EVALUATION

- Mapping sources of waste generation
- ADIPURA (initiative by national government)
Clean and Green City Competition
- Competition at Neighbourhood Groups level
ex: Jakarta City (initiative by private sector, pers)
- EcoPort Awards from Ministry of Transportation

REWARD & PUNISHMENT

- Public announcement for Clean, Green, and Dirty City.
- ADIPURA Awards from the President for the Mayors.
- Public announcement for Clean, Green, and Dirty at neighbourhood groups level.
- Incentive funding for waste management (waste minimization)
 - Solid waste management
 - Public participation















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