

# Updates of National Policies and Implementation Status of the Basel Convention;

Focusing on E -Waste, ULAB's and Mercury Waste



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*Workshop 2017 of The Asian Network for Prevention of Illegal Transboundary  
Movement of Hazardous Waste  
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# OUTLINE:

1. Introduction: Organizational Structure
2. Policy and Regulation in Indonesia
3. Indonesia Nasional Hz Waste Management Concept for E-Waste, ULAB's and Mercury
4. Export & Import Policy
5. Recycling Facility
6. Export Mercury Data 2014-2017
7. Current E-waste Management in DKI Province (success story)
8. Cases of Illegal Traffic of Waste from Indonesia
9. Challenging



Director General For Solis Waste, Hazardous waste and Hazardous Substance Management

Secretary General

Directorate for Solid Waste Management → e waste from the household) (under specific Waste Catagorized) Note : specific waste is the wastes that consist of hazardous waste

Directorate for Hazardous Substance Management

Director For Performance Evaluation of Hazardous Waste and Non Hazardous Waste


Directorate for Verification on Hazardous Waste and Non Hazardous Waste Management (e wastes from the industries)

Directorate for hazardous waste management and contaminated land recovery



# National Regulation on E-waste, ULABs and Mercury Waste

1. Act No. 32/2009 Concerning Environmental protection and Management
2. Government Regulation No. 101 /2014 concerning Hazardous Waste Management
3. Ratification of Basel Convention by Presidential Decree No. 61 Year 1993  
Based on Basel Convention, Annex VIII:A1080 and A1180
4. Ratification of Stockholm Convention : Formally ratified The convention on 28 September 2009, by the Law No. 19/ 2009
5. Ratification of Minamata Convention : Indonesia was signed Minamata Convention on Mercury on 10 October 2013. and formally has ratified the Convention on 20 September 2017, by the Law No. 11/ 2017 and deposited the instruments of ratification to the UN Headquarters in New York, on 22 September 2017
6. Act No. 18 /2008 concerning Municipal Solid Waste Management  
Specific wastes : municipal solid wastes which are content hazardous substances
7. Regulation of the Minister of Environment Number 33 year 2009 on Procedures for Recovery of Contaminated hazardous Waste Land
8. Draft Government Regulation on Municipal Solid Waste for Specific Solid waste
9. Draft on Ministerial decree for Indonesia National Municipal E-Waste.
10. Management from Household sources → on going process
11. Guideline on ULAB's Management → on Going Process



# Government Regulation No.101/2014 regarding Hazardous waste Management

Waste	Waste Code in Government Regulation No.101/2014
E-Waste	<p><i>Based on Annex I, Table 1 List of Hazardous Waste from Not Specific Source: Given Code is B107d for Electronic Waste including CRT, fluorescent lamp, PCB and wire rubber; and A111d for used refrigerant from electronic equipment</i></p> <p><i>Based on Annex I, Table 3 List of Hazardous Waste from General Specific Source, activity 28: Electronic manufacturing or electronic equipment; and activity 29: Recondition and Remanufacturing of Electronic Equipment</i></p>
ULAB's	<p>Given code is A102d Used Lead Acid Battery, and B103d (lead scrap),</p> <p>Activity 18: Used lead acid battery smelter</p> <p>Activity 27: Wet cell batteries</p> <p>Activity 55: Vehicles maintenance</p>
Mercury	<p>Given Code A105d (waste and/or product residue contaminated and/or containing mercury and/or its compounds if the concentration is greater than 10 ppm )</p> <p>Given B101d (waste and/or product residue contaminated and/or containing mercury and/or its compounds if the concentration is less than 10 ppm and greater than 0.3 ppm)</p>

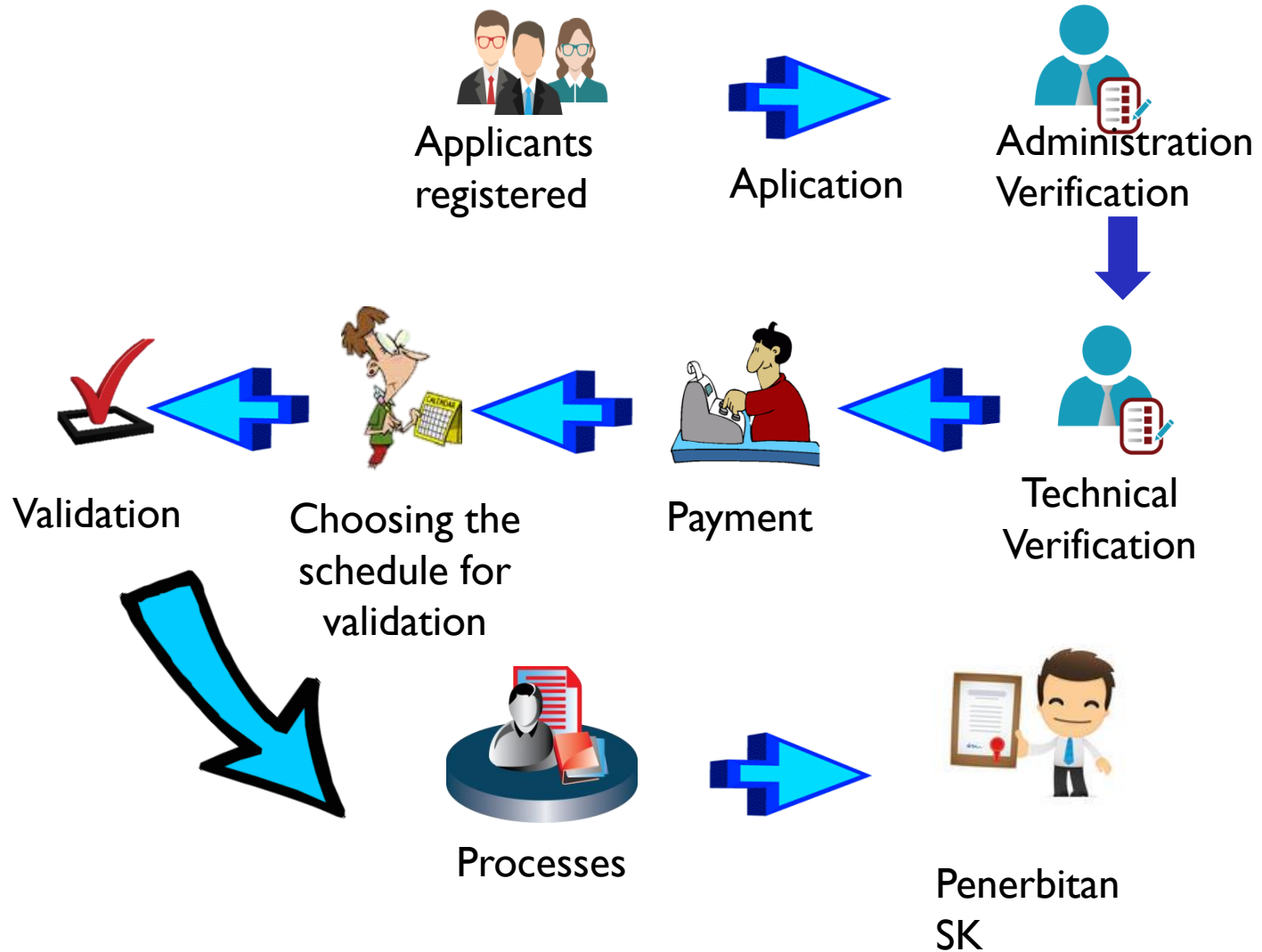


# Permit System Based on Gov. Regulation No.101/2014

	Mayor	Governor	Minister
Storage	<input checked="" type="checkbox"/>		
Collection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Transportation			<input checked="" type="checkbox"/>
Utilization			<input checked="" type="checkbox"/>
Processing			<input checked="" type="checkbox"/>
Landfill			<input checked="" type="checkbox"/>



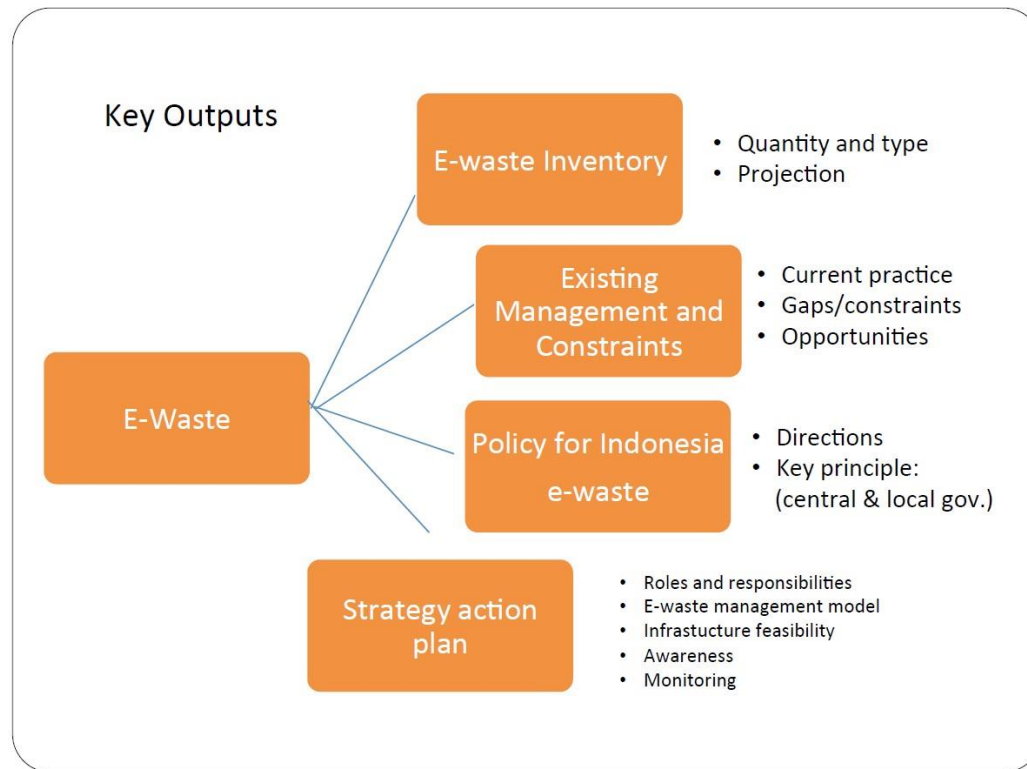
# Permit System Based on Gov. Regulation No.101/2014 (since 2016 online system already implemented)





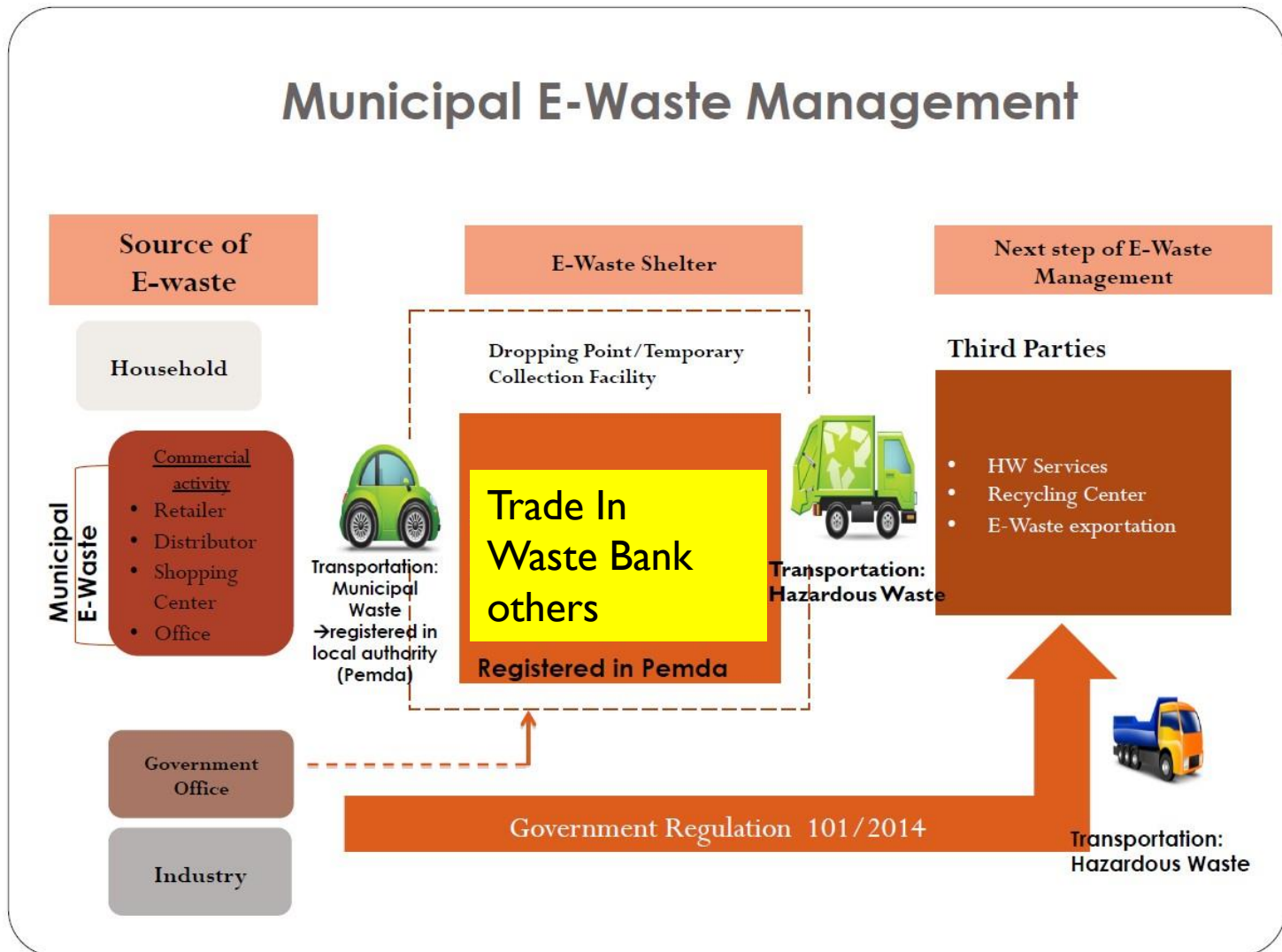
# Indonesia National Municipal E-Waste Management Concept

*Indonesia still developed the specific municipal solid waste regulation that cover e-waste from household, office and commercial building*





# Concept of Municipal E-Waste Management



# Used Lead Acid Batteries (ULAB's)

**Waste Generator(Used Lead Acid Batteries)**

Industry/Activity

1. Lead acid batteries sellers
2. Vehicles service centers

households

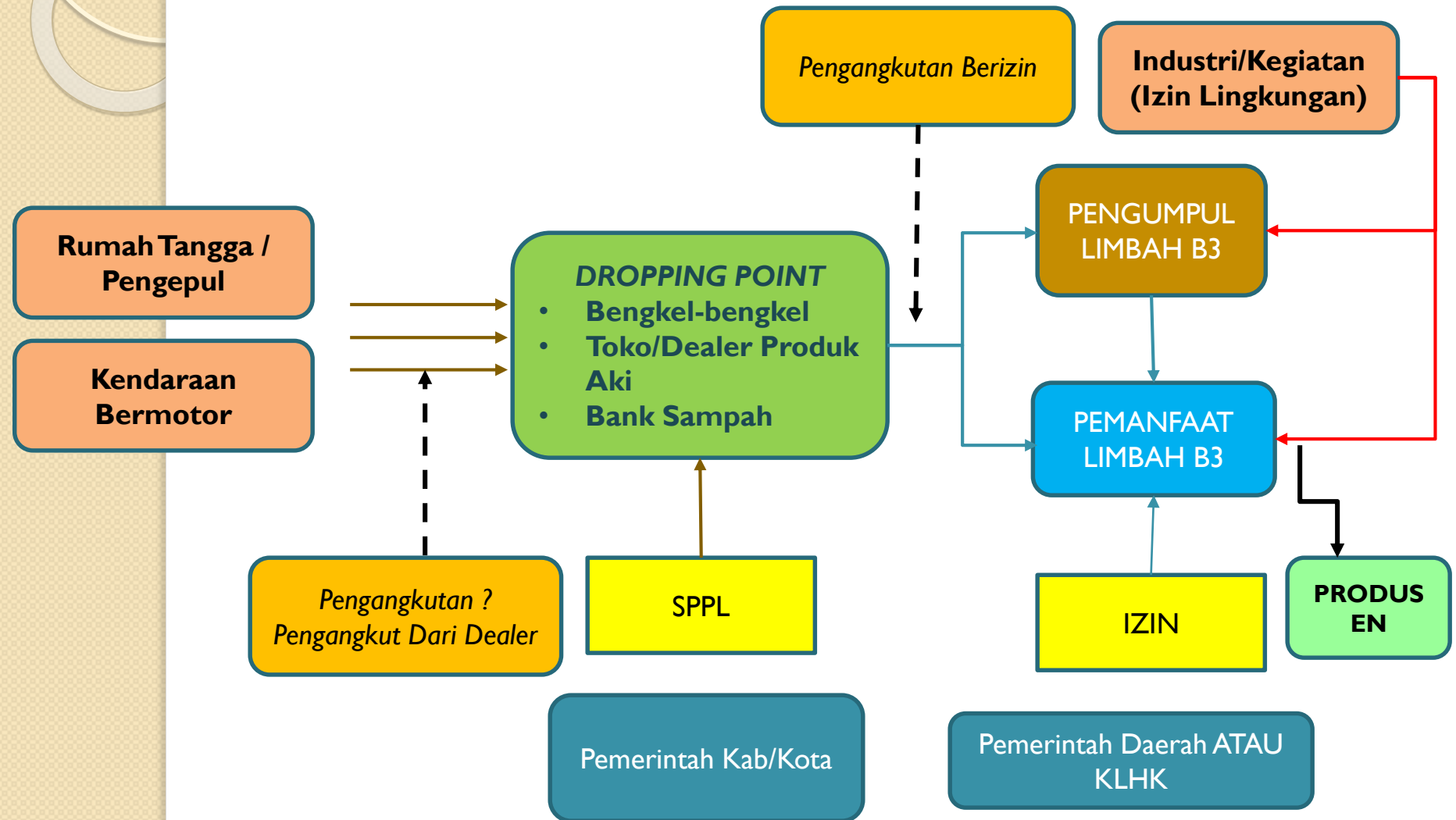
Registered in MOEF

Registered in local government

**HW  
Management  
Permits**



# Concept of ULAB's Management





# Mercury Waste

## COMMITMENT

- Ratification of Minamata Convention through Law 11 Year 2017
- Presidential Order to the National Police Chief and the Governor of Maluku to close illegal gold mines in the area of Gunung Botak, Buru Island
- President's Directive at the Cabinet Meeting March 9, 2017
- Letter of the Minister of Environment and Forestry to all Governors / Mayors concerning Control of illegal Gold Mining and the Elimination of Mercury Use.
- Letter of the Minister of Energy and Mineral Resources to all Governors on the Prohibition of the Use of mercury in gold mining
- Prohibition of import and distribution of mercury for small scale gold mining through Ministry of Trade regulation No. 75 Year 2014
- National Action Plan on Mercury Reduction and Elimination on Gold Processing 2014-2018
- National Action Plan for the Control of Health Effects Due to Mercury Exposure 2016-2020



## ACTION

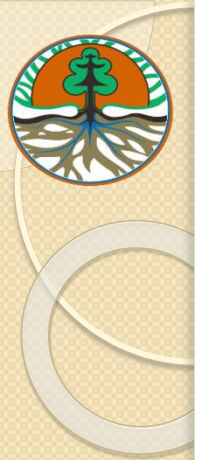
- Seizure of 21 Ton mercury and 31 Ton cinnabar by 8 local police
- An alternative technology study of mercury free gold processing and waste management including tailings Construction of mercury-free gold processing facilities and waste management in Lebak Regency
- Pilot Project utilization of ex-ASGM land become edu-ekowisata and timbersite at Kampung Ciguha, Pongkor, Bogor Regency managed by the ex-mining community in cooperation with PT ANTAM
- Training of non-mercury gold processing technology in Lebak, Pacitan and West Lombok Regency



# Current National Status on Mercury Policy

## A. Health Sector:

- diversion of mercury sphygmomanometer usage into non mercury reach 30% -40%
- replacement of mercury thermometers reaches 70% and production of mercury thermometer has been limited.
- Pilot project for removal and storage of mercury-contaminated medical devices by the Ministry of Health at hospitals in 7 provinces in 2015
- Socialization and capacity building on the impact of mercury on communities and medical personnel in 12 provinces and 15 districts / cities
- Integrated environmental health orientation in 20 provinces



# Current National Status.....continued

## B. Industrial & Energy Sector:

- Energy-saving lamps containing mercury are replaced with a light emitting diode (LED).
- Making of mercury emissions control guidelines in the cement industry
- Making of technical guidelines on the use of mercury in lamps (lamp production and assembling)
- Making of technical guidelines for mercury emissions control for smelting and roasting activities in non-ferrous metal industries
- Preparation of BAT and BEP guidelines for controlling mercury emissions from coal-fired boilers in power plants and industries



# Export & Import Policy

Export

Following the Basel Convention Procedure



Notification





# Import Prohibition of Hazardous Waste

**Act No. 32 year 2009 ; Environmental Protection and Management**

Article 69, point I:

**(I) Every one shall be prohibited from:**

- a. Importing hazardous waste which is forbidden according to legislation into the territory of Republic Indonesia**
- b. Importing waste from outside the territory of the Unitary Stated of Republic of Indonesia into the environmental media of the Republic of Indonesia**
- c. Importing of Hazardous Waste into the territory of Republic of Indonesia**
- d. Dispossing waste into the Environment media**
- e. Dispossing hazardous waste and hazardous substance into the environmental media**



## Importation of Second hand electronic

**Ministry of Trade Decree No. 127 year 2015 concerning the importation of second hand product**

### **Article 5,**

stated that for computer and monitor :

The second hand computer and monitor can be imported by fulfill such requirements as follows:

1. Still being function (proven by certificate)
2. The lifetime is not more than 5 years
3. New technology: w/ type of monitor LCD and LED (definitely not CRT)
4. Must be in one complete set
5. Must be imported in proper packaging

# Imporation of Non Hazardous Waste

- Based on Ministry of Trade Decree No. 31/2016 :
  1. Paper scrap
  2. Metal Scrap
  3. Connton scrap
  4. Plastic scrap
  5. Rubber scrap
  6. Glasses scrap



# Recycling Facility

Recycling Waste	Location	Number of Industries	Kind of Collected Material
E-Waste	Batam Island	1	Rejected small parts of electronic component, plastic, e-waste, used PCBs, Computer monitor, and electronic parts (only dismantling, and the waste produced uses as raw material in smelter industries)
	Central Java	3	2 companies for Dry Cell Batteries collection and smelters 1 company for recondition of LED monitor for re sell in local and export
	Tangerang City	1	E-waste collection (mainly PCB) and export
	West Java	4	1 company for collection and export 1 company for collection and send to Batam for processes 2 company for collection and process



# Recycling Facility.....Continued

Recycling Waste	Location	Number of Industries	Kind of Industry
ULAB's	Tangerang City	1	Used lead Acid Battery smelter
	Central Java	1	Used lead Acid Battery smelter
	East Java	2	Used lead Acid Battery smelter
	West Java	1	Used lead Acid Battery smelter
Mercury	West Java	1	Only Collection and Export



# Transporter :

Waste	Location	Number of company
E-Waste	West Java	4
	Jakarta	1
	East Java	1
ULAB's	West Java	10
	Banten	1
	Jambi	1
	Jakarta	5
	East Java	4
	East Borneo	1
	North Sumatera	2
Mercury	West Java	1

Recommendation from MoEF and Permit from Ministry of Trade

# Export PCB waste

Waste	2015 (Tonnes)	2016 (Tonnes)	2017* (Tonnes)	Importing Country
PCB	55.246	72.072	2.000	Singapore



# Export Mercury Waste 2015

Name	SHIPMENT (Tonnage)			
	SHIPMENT-1		SHIPMENT-2	
	7-Jan-15	12-Feb-15	27-Mar-15	7-May-15
Consumable Contaminated Mercury		1.00		
Consumable Waste Contaminated Mercury		1.00		
Ex-Glycol Cartridge FilterN		1.20		
Glycol Filter		1.10		
Elemental Mercury				1.80
Sludge ex Glycol Tank		19.12		
Used PPE Mercury		0.20		
Produced Water Contaminated Mercury		0.45		
Produced Water Contaminated with Mercury		0.70		
Produced Water Cont. Hg (Ex- Off Shore)		6.50		
Soil Contaminated Hg		2.40		
Soil Contaminated Mercury		2.50		
Soil/Scrap Contaminated Mercury		1.80		
Ex-Glycol from Sump Tank		3.00		
Used Glycol		2.30		
Used Strainer Contaminated Mercury		0.60		
<b>Total</b>		<b>43.87</b>		<b>1.80</b>





# Export Mercury Waste 2016

Name	SHIPMENT (Tonnage)			
	SHIPMENT-1		SHIPMENT-2	
	14-Jun-16	26-Jul-16	13-Sep-16	29-Oct-16
Elemental Mercury Waste	0.700		0.400	
Liquid Waste contaminated by Mercury	9.800			
Solid Waste contaminated by Mercury	2.100		4.605	
Spent Catalyst contaminated by Mercury			28.490	
Filter Waste contaminated by Mercury	6.000		0.800	
Sludge Waste contaminated by Mercury	17.800		32.475	
Oil Sludge contaminated with Mercury			11.790	
Elemental Mercury			0.050	
<b>Total</b>	<b>23.800</b>		<b>66.770</b>	



# Export Mercury Waste 2017

		Shipment 1
Name	Maximum Quantity (ton)	13-Nov-17
Elemental Mercury Waste	10	0.72
Liquid Waste contaminated by Mercury	50	15.66
Solid Waste contaminated by Mercury	20	5.3
Spent Catalyst contaminated by Mercury	40	38.08
Filter Waste contaminated by Mercury	60	3.5
Sludge Waste contaminated by Mercury	100	11.34
Oil Sludge contaminated with Mercury	-	-
<b>Total</b>	<b>280</b>	<b>74.6</b>



# Current E-waste Management in DKI Province (success story)

## Legal Based :

- Intrusion by head of Environmental Department No.28 and 29 dated 20 March 2017 regarding electronic waste collection for the Department of Environmental employees and residents of the department's dormitories
- The head's decree No.3528/-1.774.13 dated 5 May 2017 regarding the movement of collecting electronic waste in 5 mayor's area Jakarta
- The head's decree No.3166/-1.774.13 dated 25 April 2017 regarding the movement of collecting electronic waste to heads subdistrict environmental office

The Signing Of Cooperation Agreement Between Environmental Department Of Jakarta Provincial Government And PT Prasadha Pamunah Limbah Industri (PT.PPLi) Regarding The Program Of Managing Electronic Waste Specific For Used Handphones 3 May 2017





# The Implementation of Collecting Electronic Waste Movement in DKI.Jakarta

- Socialization and education to the program's target of collecting Electronic waste
- Placing e-- - waste dropboxes
- Picking up and transporting Electronic waste





# Collecting Electronic Waste

- Type of E-waste already collected :

HP, Cable, PCB, Printer, Keyboard, Telephone, VCD player, Laptop, dynamo, cartridge, Speaker, Iron fan, rice cooker, CPU, radio tape, remote control, battery, TV/monitor, dispenser, washing machine, AC

Weight : over 1200 kg





# THE 2018 PLANS fo DKI.Jakarta

## I. Providing Facilities And Infrastructures Of Managing Hazardous Waste, Including E-waste:

- providing temporary store rooms/dropping point of hazardous waste in 6 locations
- providing 15 units special motorized pickups for hazardous waste
- providing 5 unit special trucks for hazardous waste
- providing 44 dropping-boxes for electronics waste
- providing workers as operators of hazardous waste handling

## 2. Involves Many Sectors for Collecting of Electronic Waste



## Cases of Illegal Traffic

- One case of PCBs exported to Hong Kong without notification document, returned immediately to Indonesia (2016)
- Two cases of PCBs exported intended for export to Japan and Hong Kong, stopped by Indonesian customs (2016)
- One case of hazardous waste (Oil Emulsion – in document) imported illegally in East Java province originating from South Korea. The hazardous waste was disposed directly to the environment causing illness to people in the area (2017) → still under the investigation by the police

# Challenges

- Finalization the Government Regulation on Hazardous Substances Management (Revision of GR 74/2001)
- Acceleration of discussion of the Presidential Decree on the National Implementation Plan of Mercury Reduction and Elimination, and other related regulations
- Restriction and prohibition of export, import and mercury substance including product containing mercury
- Preparation for construction of environmentally sound interim storage of mercury
- Quick wins for law enforcement
- Formalization of community mines according to the regulations
- Recovery/remediation of mercury contaminated land from ASGM activities
- Application of Non-Mercury Gold Processing Technology
- Diversion of livelihoods
- Awareness raising and capacity strengthening



# Challenges... continued

- Finalization of Draft Guideline for ULAB's Management
- Finalization of Government Regulation on Specific Municipal solid waste
- Finalization of Ministerial Decree on e-waste



# TERIMA KASIH THANK YOU VERY MUCH



For further information :  
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Hazardous Waste and Management on Hazardous Waste  
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Telp/ Fax : 021-5710100