



# Development of National and Regional Approaches to Environmental Sound Management of Mercury in Southeast Asia Indonesia and the Philippines



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With the support of  
US Dept. Of State



## WHO WE ARE

- environmental NGOs
- striving for a toxics-free future

## WHAT WE DO

- Artisanal Small Scale Gold Mining
- Terminal Storage of Mercury and Mercury wastes
- Health care sector
- Chemical Issues
- Environmental management

## OUR STRATEGY

- Collaboration
- Research
- Policy Advocacy
- Pilot Projects
- Community outreach



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# Indonesia-Philippines Hg Storage Project



- A joint project of Ban Toxics! (Phil.) and BaliFokus (Indonesia)
- Support from the US Department of State
- Focuses on :
  - Specific regions in the two countries
  - Specific sectors: ASGM, health care, oil & gas

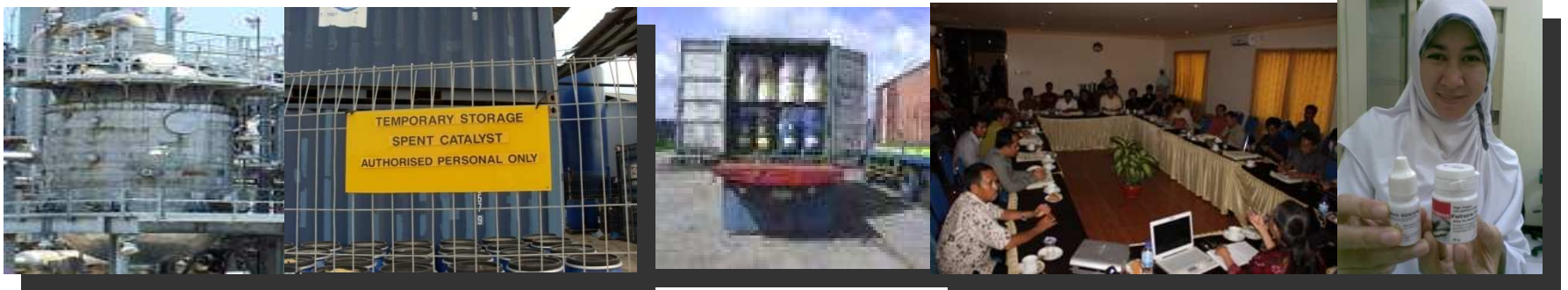


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# Hg Storage Project



- Build on the National Strategic Plan (NSP) Process by applying it as a model in developing a national mercury storage plan for the Philippines
- Transpose the Philippine NSP Process to Indonesia
- Establish a parallel process in Indonesia to build an Indonesian NSP for ASGM and mercury devices from health care sector.





## Hg Storage Project Deliverables:



- National Storage Plan for the Environmentally Sound Management of Mercury;
- Criteria Document for Storage Facility;
- Business or Economic model incentivizing miners to relinquish mercury;
- Cost estimates for building and operating a storage facility; and
- Strategy for expanding to a regional plan for environmentally sound management of mercury



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## BASIC CONSIDERATIONS FOR THE MERCURY STORAGE NSP FORMULATION



- Mercury is a chemical of global concern due to its long-range atmospheric transport, its persistence in the environment and significant negative effects on human health and the environment.
- UNEP Governing Council decision to develop a global mercury treaty to control its worldwide use and emission
- ASGM, the largest emitter of mercury both locally and globally, forms a part of the key elements of the treaty
- Impending mercury trade restrictions impel miners to migrate to mercury-free gold production techniques
- Purpose: help abate mercury pollution by strengthening partnerships and improving practices in the various Hg emitting sectors



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# Approaches

## National Mercury Storage Plan



1. Capacity Building

2. Consultation with relevant stakeholders

3. Monitoring & Evaluation

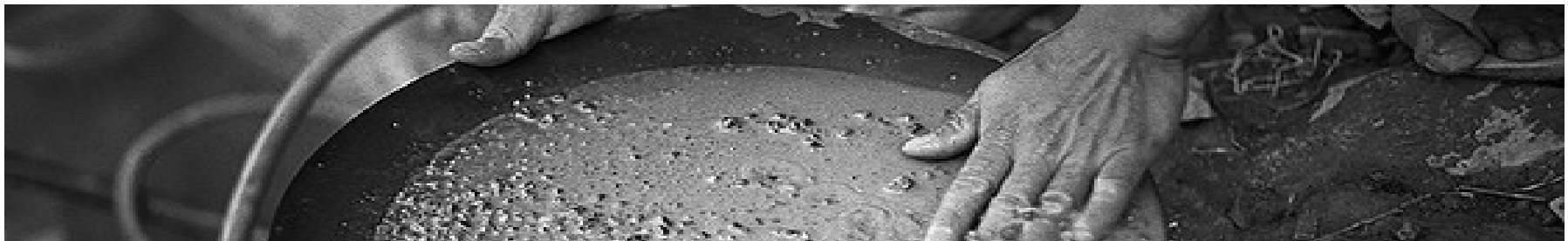


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**STOP!**  
USING  
AND  
**STORE**  
**MERCURY**



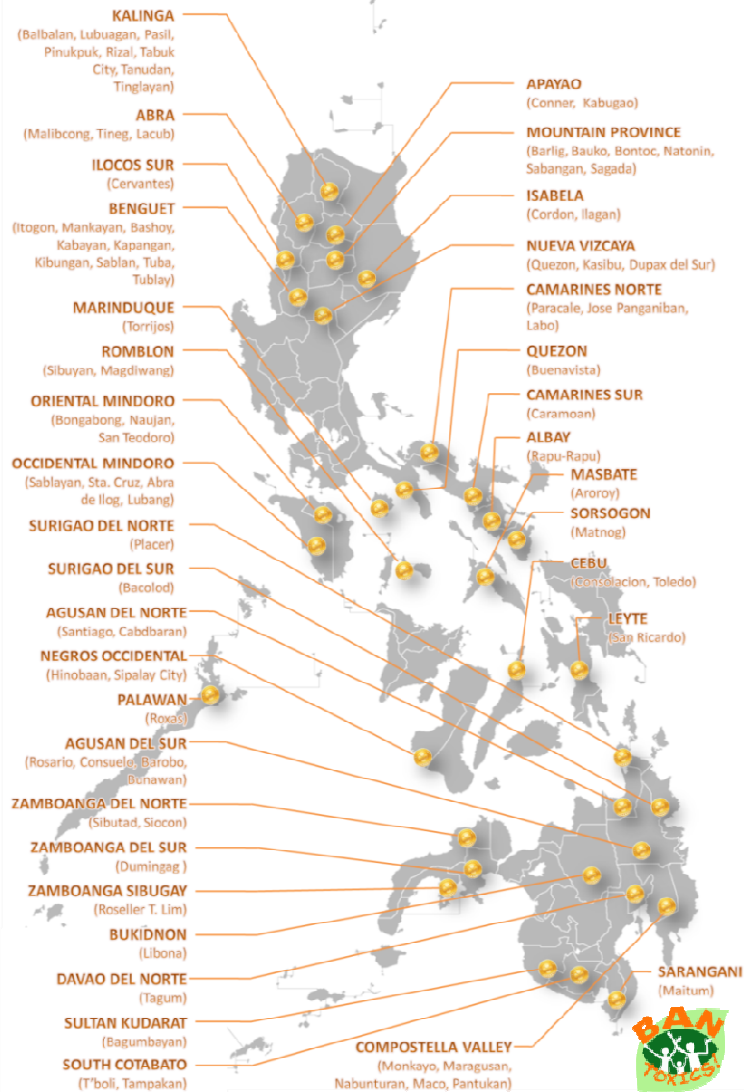
## NATIONAL STRATEGIC PLAN FOR THE STORAGE OF MERCURY IN THE PHILIPPINES



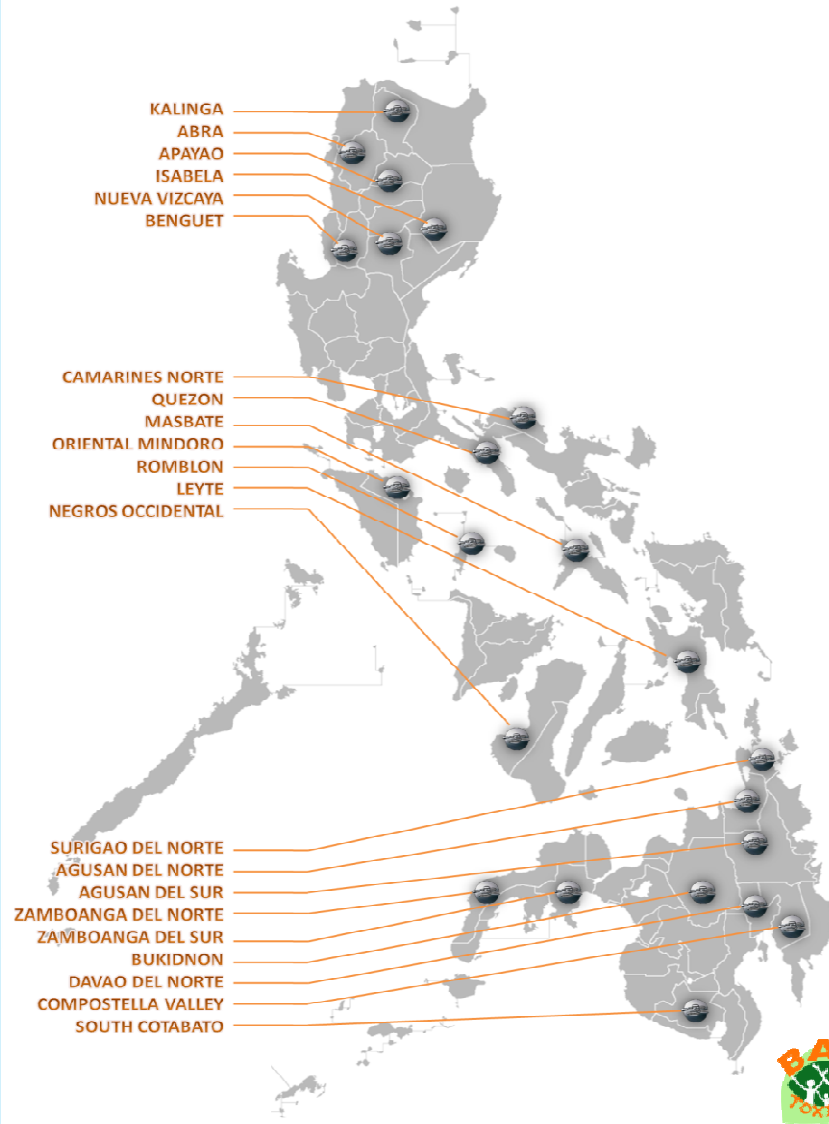
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# Location of ASGM Activities in the Philippines



# Provinces with Reported Mercury Use in ASGM Activities



# NATIONAL ASGM STRATEGIC PLAN FORMULATION PROCESS IN THE PHILIPPINES



**What does the  
process look like?**



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Gov't

LGUs

NGOs  
academ  
e

Business  
sector



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# Challenges



**POLICY**

**Multi-stakeholder participation and processes**

**Social and Political dimensions**



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# NATIONAL STRATEGIC PLAN MOVING FORWARD





## NATIONAL STRATEGIC PLAN MOVING FORWARD

- Securing MOUs with local government units
- Preparation for sub-national inventory
- Issuance of a Special Order reviving the NSC and TWG for ASGM
- Collaboration with Stakeholders



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# Hg Storage Approach in Indonesia

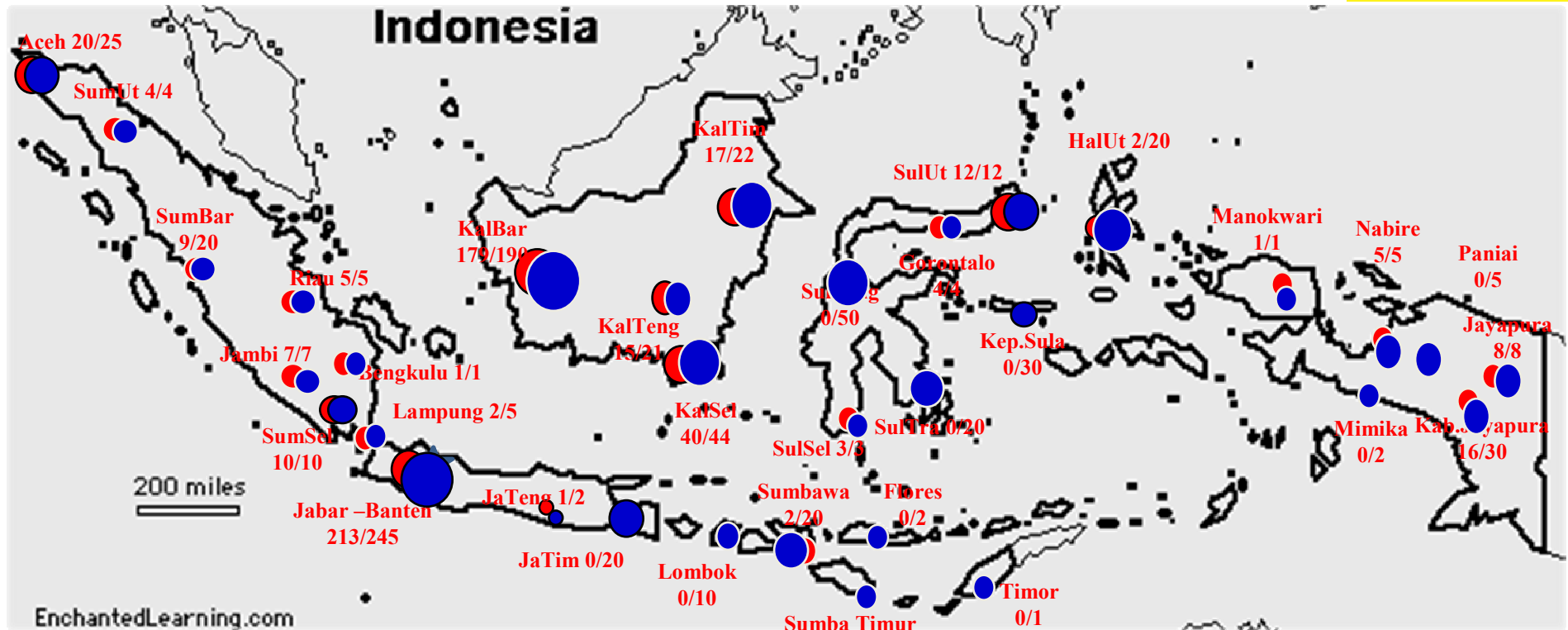


- Regional consultations:
  - Central Sulawesi
  - East Kalimantan
  - Jabodetabek
- National consultation with the Mercury Technical Working Groups
- FGDs (health care, ASGM, oil and gas sectors)
- Mercury inventory
- Storage criteria, site identification and costing
- Drafting and consult the National Strategy
- Memorandum and commitment for implementation plan



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# Indonesia ASGM Map 2006-2010



- 2006 – Source: CCOP-GSJ/AIST-GAI CASM, Sutrisno, Pusat Sumber Daya Geologi Bandung  
576 hotspots - 50,000 miners
- 2010 – Source: Yuyun Ismawati, BALIFOKUS, from various sources  
+/- 850 hotspots - > 250,000 miners



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# Regional Consultation: Palu – Central Sulawesi

## Focus: ASGM and Health Care Sectors



- Co-host: WALHI Central Sulawesi
- Participants: Police, Provincial and Local Env. Agency, Health sector, Academia, NGOs, media
- Local issue: LSM vs ASGM, extra-legal activities of ASGM
- Lumex readings: 20- 40,000 ngr/m<sup>3</sup>



- Several research on mercury contamination have been conducted
- Illegal mercury and cyanide in trade



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# ASGM Poboya, Palu



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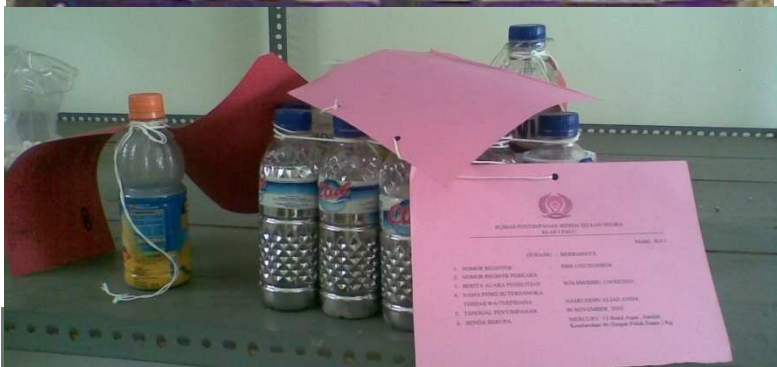


# “Storage” in Palu

**STOP!**  
~~USING~~  
~~ING~~  
 and  
**STORE**



NO.	NAMA BARANG	SARAF	UNIT	LOKASI	REMARKS	REMARKS
1	BAHM PELDOK DS.				PK PL	INTEPA.
2	CIANIDA	1 DEUM				
3	PLASTIK	1 BUKAL				
4	TIMBANGAN	1 BH.				
5	BOBAKAS	10 DEUM				
6	CIANIDA	12 DEUM				
7	MERCURI	7 KAS				
8	DEUM KOSONG	1 BH.				
9	CIANIDA	2 DEUM				
10	CIANIDA	38 DEUM				
11	BOBAKAS	12 KARUNG				
12	AIR PERAK	1 KG (1MDC)				
13	CIANIDA	2 DEUM				
14	CIANIDA	2 DEUM				
15	CIANIDA	1 DEUM				
16	CIANIDA	12 DEUM				



## Regional Consultation: Balikpapan, East Kalimantan Focus: Health care sector, ASGM and Oil & Gas sector



- Co-host: PPE Kalimantan and BLH Balikpapan City
- Partisipan: PPE, BP MIGAS, B3 service provider, Health sector, academia, NGOs
- Lumex readings: < 20 – 10,000 ngr/m<sup>3</sup>



- Private collectors exist – serving the oil and gas and link it up to PPLi, Holcim, Indo Cement, WGI, etc.
- Transporter & storage permits obtained from MoE



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**STOP!**  
USING  
HG  
and  
**STORE**  
**MERCURY**



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# Regional Consultation: Jabodetabek

## Focus: Health care sector and ASGM



- Co-host: MoE and PERSI
- Participants: Env. Agencies, Health care sector, Academia, NGOs, etc.
- Hg-free hospital interests
- Concern about the substitutes and temporary storage



- Gold mining: LSM and ASGM in Pongkor
- Criteria of storage and regulatory framework



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<http://www.ppli-indo.com/index.php>

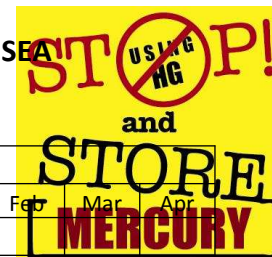


- **PT. Prasadha Pamunah Limbah Industri (PPLi)** is an Indonesian company that has been in operation since 1994 initially providing disposal services for hazardous waste and subsequently providing a wide range of waste management services.
- The company is 95% owned by Modern Asia Environmental Holdings (MAEH) and 5% by the Government of Indonesia through the Ministry of Environment (MOE).
- Provide range of waste management services including:
  - Transportation (liquid, solids, and drums).
  - Waste treatment processes (solidification, stabilization, thermal destruction, P-Chem treatment, and biological treatment).
  - Waste disposal in a secure and modern landfill compliant with international waste management standards including those of the World Bank, EU, and US-EPA.
  - Waste analysis, testing, and sampling.



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**Development of National and Regional Approaches to Environmental Sound Management of Mercury in SEA  
with special attention to ASGM and Health Care Sector in Indonesia and the Philippines  
Schedule of Project Implementation**



No.	ACTIVITIES	MONTHS											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
<b>I. Preparation and mobilization</b>													
1	Project team established	█											
2	Administration system established	█											
3	Financial Reporting (FR) system established and submitted	█	█			█				█		█	
4	Performance Progress Report (PPR) form established and submitted	█	█			█				█		█	
5	Semi-Annual Report (SAR) developed and submitted	█						█					
6	Project information template developed	█											
7	Planning and evaluation workshop conducted	█											█
<b>II. Development of Guidelines on Developing National Strategic Plan for Mercury Storage</b>													
1	Develop Committee / Working Group for Mercury Storage Project		█	█									
2	Prepare work plan in support of the National Mercury Storage Plan objectives		█										
3	Develop Guidelines on Developing a National Strategic Plan for Storage		█										
4	Review of legal and enforcement framework of mercury storage		█	█	█								
5	Review of and/or develop national mercury inventory		█	█	█	█							
6	Assess options for managing the excess mercury supply, safe and secure interim storage of mercury and mercury containing waste		█	█	█	█							
<b>II. Preparation for Developing a Strategic Plan for mercury reduction in ASGM and in Health Care Sector in Indonesia</b>													
1	Awareness raising strategies and socialization of alternatives		█	█	█	█							
2	Regional consultations of NSP for ASGM and Health Care Sector						█	█	█	█			
<b>III. Transpose NSP Process to Indonesia and Implementation of NSP for Mercury Storage in both Indonesia and Philippines</b>													
1	Share the Guidance Document to Indonesia			█	█								
2	Develop awareness raising strategies		█	█	█	█							
3	Tech. Working Group & Nat. Strat. Committee meetings				█			█			█		
4	Cost analysis to support terminal storage project				█	█	█	█					
5	Regional consultations						█			█			
6	Memorandum Agreement (MOA) for NSP for Storage								█	█	█	█	







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**Terima Kasih**  
**Thank you for listening!**

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