



Artisanal Gold Mining Mercury Phaseout: Philippine Experience

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Who We Are...

- An independent non-profit environmental non-governmental organization focusing on the Southeast Asian region on issues pertaining to:
 - Environmental Justice
 - Prevention of Toxic Trade – products, wastes and technologies
 - Trade, Human Rights and Governance
- Southeast Asian office of the Basel Action Network
- Active member of the global coalition on mercury Zero Mercury Working Group (ZMWG)



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Improve the Health and Environment in Artisanal Gold Mining Communities in the Philippines by Reducing Mercury Emissions

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Context of our Approach

- Environmental group focused on toxics
- National consultant of the Philippine government for the NSP on Hg Reduction in ASGM
- Projects
 - US Department of State Project (2010-2014)
 - Dialogos, University of Copenhagen, GEUS, and ICOEPH project (2010-2014)
 - UNIDO-GEF Mercury Reduction in ASGM (2013-2015)

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Issues To Consider

1. Audience;
2. Type of Ore;
3. Technical;
4. Cost Component/Materials;
5. Legal and Social context;
6. Leadership/Ownership;
7. Government role; and
8. Role of Other Stakeholders



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1. Audience

- Who is the technology/process for?
- Philippines different levels of small-scale miners:
 - Artisanal
 - Small-scale with little capital
 - Small-scale with capital middling to medium-scale
 - Medium-scale
 - Large-scale



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2. Type of Ore

- What type of ore does your audience deal with?



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3. Technical Component

- Improved gravity concentration with application of sodium tetraborate (borax) at refining stage (Benguet Method)
- Other gravitational techniques
- Cyanidation – carbon in pulp (CIP), carbon in leach (CIL), cyanide in drum (CID).

Benguet Method

ore: coarse gold/visual

: artisanal, small-scale with limited

most similar to mercury

ation (without the mercury) = longer

κ, process management, panning

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