UNEP Global Mercury Partnership

1st Waste Management Area Meeting 2021
July 8, 2021

GLOBAL MERCURY PARTNERSHIP

環境省
Ministry of the Environment

Opening

Adoption of the agenda

Adoption of the agenda

Session 1: WMA Activity Plan

- Activity Plan, including r a response list
- Area of potential activities for the WMA

Session 2: Factsheet on mercury waste management

- Outline of factsheet to be developed by ISWA in collaboration with the WMA

Session 3: Information request and update of the WMA Catalogue

- Re-structuring of the Catalogue
- Webinar on mercury treatment facility

Session 4: Moving forward

- Schedule

Recap of the 2nd WMA Meeting 2020

Recap of the 2nd WMA Meeting 2020 (8th March, 2021)

- Result of the needs survey to identify the needs for technologies and services on mercury waste management, then to explore the WMA's future activities, was shared.

  - Waste consisting of mercury: Required distinct approaches for non-ferrous metal smelting, oil and gas industry, chlor-alkali industry.
  - Waste containing mercury: the most common challenges. Fluorescent lights and measuring devices are of great concern.
  - Waste contaminated with mercury: management of tailings from ASGM should be more focused
  - General challenges: every phase of mercury waste management (especially collection)

  - Support need for:

    capacity building, technical assistance, regulatory arrangement, development of guidance and tools, financial resources and project development

Recap of the 2nd WMA Meeting 2020 (8th March, 2021)

- Development of a “response list” was suggested, which compiles needs and corresponding resources already available, in considering future activities of the WMA.
- The importance of both “supply-driven” and “demand-driven” approach as well as providing specific solutions in response to challenges on the ground were highlighted.
- Development of a list of mercury treatment facility was suggested.
- Ongoing initiative on a factsheet for certain type of mercury wastes was introduced.
- Establishment of break-out groups was suggested.

Session 1: WMA Activity Plan

- Structure of the WMA Activity plan for 2021-2023 (draft)

Section	Contents
Introduction	• Overview, objective and priority actions of the WMA
Review of the WMA Activities	• Activities conducted by the WMA • Available tools/resources • Collaborative activities with other Partnership Areas
Result of needs survey	• Objectives and results of the survey • Response list
Prospective activities	• Key issues to be taken into account for future activities • Activities to be undertaken
Implementation arrangement	• Arrangement of activities in tandem with other relevant events • Resources for the implementation (voluntary contribution)

Note: The WMA Activity plan will be shared for comments at the later stage.

WMA's activities (-2020)

- Resource Persons List
- Catalogue of Technologies and Services on Mercury Waste Management
- Business plan

Needs survey (Jan-Feb. 2021)

- Capacity building
- Technical assistance
- Regulatory arrangement, development of guidance and tools
- Financial resources and project development

Review of the effectiveness and challenges

Analysis of existing resources (response list)

WMA activities (2021-2023)

Development and/or Refinement of currently available resources

Capacity building

Solution exchange

Response List (in part)

Type of support to be needed		Available resource and opportunity
Capacity-building	Trainings to operate the mercury waste treatment facility	Technical guidelines on the ESM of mercury wastes under the Basel Convention
	Trainings to formalize miners and regulate industry	✓ "Guidance Document: Developing a National Strategic Plan to Reduce Mercury Use in Artisanal and Small-Scale Gold Mining" ✓ Resources of planetGOLD
	Trainings on material flow analysis	UNEP Toolkit

Key points to be taken into account for prospective WMA activities

- Distinct approaches are required for activities in the short-term and those which need the long-term perspective.
- Collaboration with other GMP Areas especially organizing webinars should be proceeded.
- Availability of training materials together with practical information on the ground are limited, thus need to be strengthened.
- Approaches in identifying specific needs and in providing associated solution should be considered.
- Strategic approach for dissemination of tools and knowledge to targeted stakeholders needs to be sought.

A: Development and/or Refinement of currently available resources

<Example>

- ☐ Update or merging tools / Developing new tools.
  - List of mercury waste treatment facility around the globe.
  - Factsheet on mercury wastes management.
  - Resource Person List

- ☐ Training materials (e.g. video) for target audience.

B: Capacity building

<Example>

- Webinar in collaboration with other GMP areas.
  - ESM of fluorescent lamps and medical measuring devices (with Products area).
  - Conversion in Chlor-Alkali facilities and the ESM of mercury wastes (with Chlor-Alkali area).
  - ESM of mercury wastes from non-ferrous metal smelting and oil/gas industries (with Supply and Storage area)
  - ESM of tailings from AGM sector (with ASGM area)

- Face-to-face trainings.

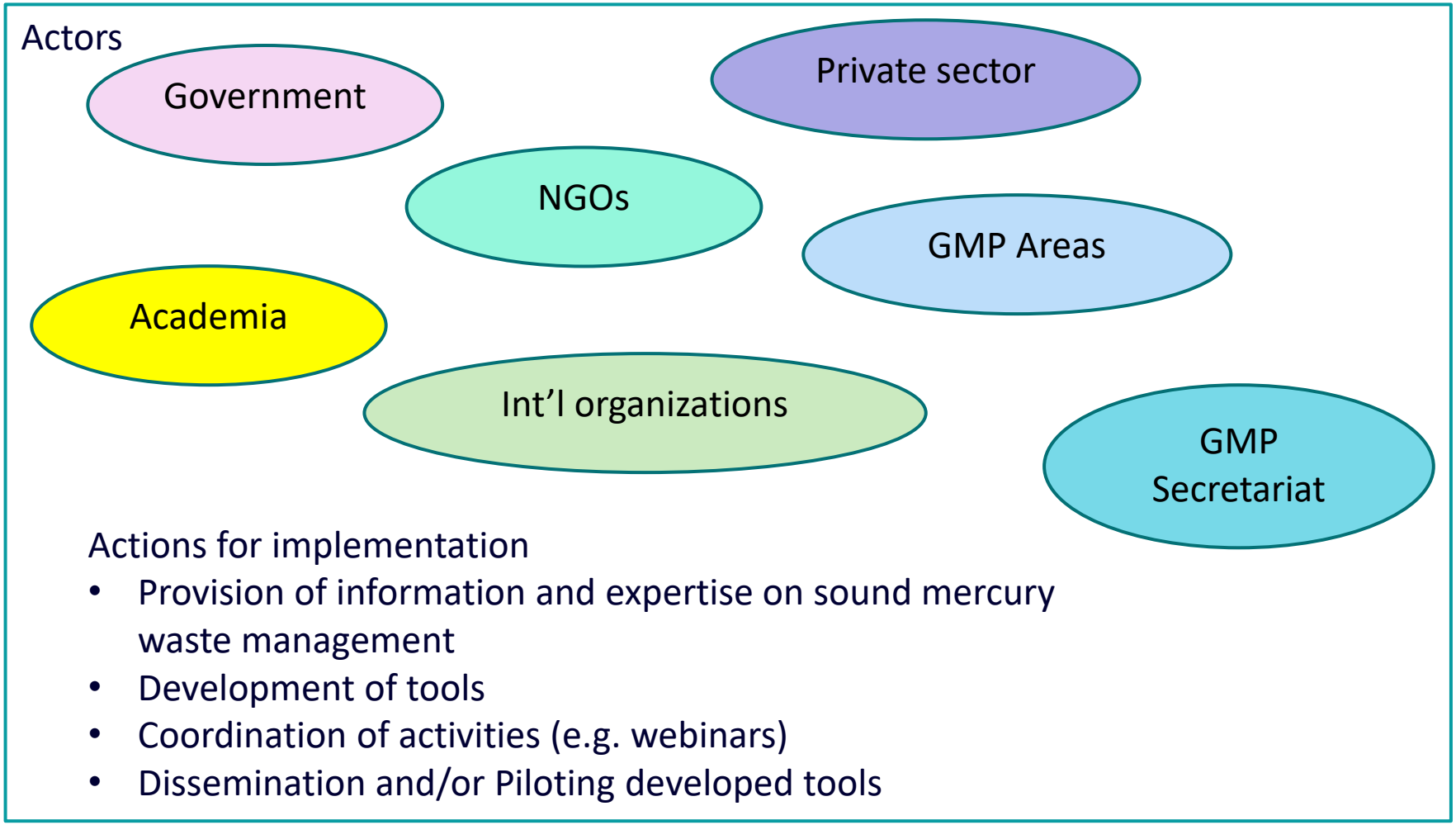
C: Solution exchange

<Example>

- Compilation and sharing of good practices with analysis of successful factors and challenges.

- Platform for matchmaking

How we implement?



Actions for implementation

- Provision of information and expertise on sound mercury waste management
- Development of tools
- Coordination of activities (e.g. webinars)
- Dissemination and/or Piloting developed tools

Suggestion for setting Working Groups for implementing activities. The WMA Secretariat will remain coordinating Area activities as a whole, and assist Groups as needed

Working Group A: Development / Refinement of resources

- Considers the area of improvement and effective ways for outreaching resources (e.g., Factsheet, the WMA Catalogue), taking into account practicability in developing countries.
- Consider additional resources to be developed if needed.

Working Group B: Capacity-building

- Consider potential activities for capacity-building (e.g., webinar, training programme back-to-back with relevant international events).
- Consider the area of improvement for resources (e.g, ., Factsheet, the WMA Catalogue) in collaboration with Working Group A.

Working Group C : Solution exchange

- Discuss challenges in the cooperation among those in need and solution-providers.
- Compile successful factors, barriers and lesson learned in the project development and implementation on mercury wastes management.
- Consider the modality of a platform to enable the match-making.

Discussion points

1. Idea of setting Working Group

- Is it appropriate to establish the Working Group? Are there any other ways to proceed the implementation of WMA activities?
- Is the grouping relevant for the implementation?

2. Coordination of each Working Group

- Who would be the coordinator(s) ?

3. Members of a Working Group

- How does each Partner participate in Working Group(s)?

Session 2:
Factsheet on Mercury Waste Management

ISWA
International Solid Waste Association

ESM of Mercury Wastes Fact Sheets

Nicolas HUMEZ

GMP-WMA 08/07/2021

Context

- Revision of the Technical Guidelines on ESM of Mercury Wastes - Technical but not Practical
- Concerns from developing countries
- Same concerns appeared through the result of the GMP-WMA Survey

To provide practical and comprehensive answers
for safe management of relevant mercury waste streams
based on Fact-Sheets

Organisation

- Elaboration of a dedicated project within ISWA HWWG
- Exchanges with the GMP-WMA Secretariat for potential cooperation

Define the terms of the cooperation
? Joint experts group, co-authoring, regular updates (living documents)

Draft Road Map

- Step 1: List of priority mercury wastes based on criteria (Minamata lists - 3 categories, lack of operational informations, technical complexity of ESM, high risks of Hg releases/emissions, …)
- Step 2: Format and content of operational information on ESM
- Step 3: Drafting Fact-Sheets (based on 1 example)
- Step 4: Validation & Communication

? Top priority list of Mercury Wastes
? First stream to be taken into account

Draft fact-sheet template

- Introduction (Description/Occurrence/figures)
- Classification
- Collection (best practices)
- Packaging, labelling & transport
- Storage (best practices)
- Environmentally sound treatment (from pre-treatment to final treatment)

? Items missing

Timetable

- By December 2021, a final first fact-sheet
- By the next GMP-WMA, a draft of the first fact-sheet
- In the meantime, exchanges between experts of the project team on road map content and fact-sheet template (emails, short visioconference, …)

- 2022, elaboration of other fact-sheets based on the priority list of mercury wastes

? Any questions

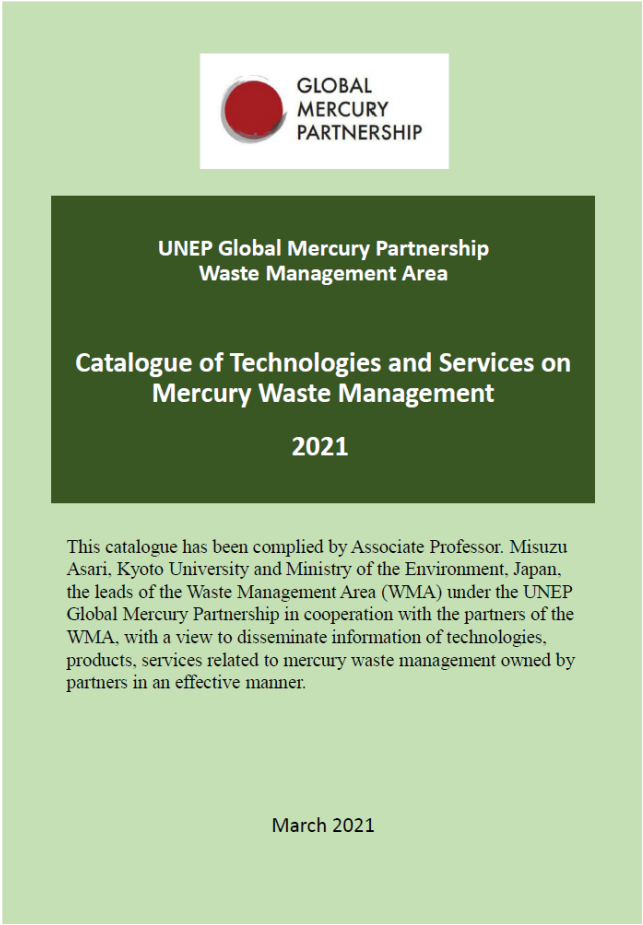
Session 3:
Information request and update of the WMA Catalogue

Session 3
Update of the WMA Catalogue

- The questionnaire survey on the needs for technologies and services found that a list of regionally and/or globally-accessible mercury waste treatment facilities would be useful.

- *Catalogue of Technologies and Services on Mercury Waste Management* includes mercury waste treatment technologies that Partners possess, thereby could potentially serve as the list if properly re-structured.

- Participants may wish to consider how to re-structure the current Catalogue to make it more beneficial.



Available at:
https://web.unep.org/globalmercurypartnership/catalogue-technologies-and-services-mercury-waste-management-2021-version

Session 3
Update of the WMA Catalogue

- The current Catalogue presents technologies and services on mercury waste management, followed by related technologies and services in an alphabetical order of the technology/service holders.

Section	No.	Technology/service holder	Keyword
Technologies and services on mercury waste management	1	APPELGLOBAL	Recovery, removal, decontamination, monitoring, amalgam, mining residue, mercury-free gold extraction
	2	Association of Lighting and Mercury Recyclers	Separation, recovery, mercury product waste, engineering design, fluorescent lamps
	3	BATREC Industrie AG	Stabilization, recovery, product waste, adsorbents, amalgams, mining residues, oil & gas, chlor-alkali
	4	ECOCYCLE PTY LTD	Mining residue, recovery, separation, product waste, distillation, crushing, oil & gas
	5	Ecologic, S. A.	Recovery, product waste, disposal, circular economy, e-waste, scrap metal
	6	econ industries services GmbH	Recovery, stabilization, solidification, engineering design, distillation, on-site conversion
	7	International Dental Manufacturer's Association	Amalgam, collection, separation
	8	Nomura Kohsan Co., Ltd	Stabilization, solidification, recovery, disposal, product waste, oil & gas
	9	REMONDIS QR	Recovery, disposal, stabilization, distillation, Basel export license
	10	TerraCycle Regulated Waste, LLC	Separation, recovery, product waste, fluorescent lamps
Related technologies and services	11	CURIUM	Removal, decontamination, engineering design, monitoring, contaminated sites, chlor-alkali
	12	SICK AG	Reduction, removal, adsorbent, mercury compounds, engineering design, monitoring

Session 3
Update of the WMA Catalogue

- Proposed re-structuring of the Catalogue.

<table>
<tr><th>Section</th><th colspan="2">Technology/service holder</th><th>Contents</th></tr>
<tr><td rowspan="6">1. Mercury waste treatment facility in the globe</td><td colspan="2">-</td><td>Table summary of mercury waste treatment facility</td></tr>
<tr><td>Asia</td><td>Nomura Kohsan Co., Ltd (Japan)</td><td rowspan="5">1. Profiles
2. Overview of technology to treat mercury wastes, including strengthening
2.1 Wastes consisting of mercury
2.2 Wastes containing mercury
2.3 Wastes contaminated with mercury
2.4 Mining wastes
3. Experience in importing mercury wastes
4. Further information
Up to 4 pages per stakeholder</td></tr>
<tr><td rowspan="2">Europe</td><td>BATREC Industrie AG (Switzerland)</td></tr>
<tr><td>econ industries services GmbH (Germany)</td></tr>
<tr><td>REMONDIS QR (Germany)</td></tr>
<tr><td>Oceania</td><td>ECOCYCLE PTY LTD (Australia)</td></tr>
<tr><td>South America</td><td>Ecologic, S. A (Panama)</td></tr>
<tr><td rowspan="4">2. Other technologies and services for the MWM</td><td colspan="2">APPELGLOBAL</td><td rowspan="3">1. Profiles
2. Overview of technology/product/service provided
3. Strengthening / Advantage
4. Applicability
5. Further information
Up to 2 pages per stakeholder</td></tr>
<tr><td colspan="2">Association of Lighting and Mercury Recyclers</td></tr>
<tr><td colspan="2">International Dental Manufacturer’s Association</td></tr>
<tr><td colspan="2">TerraCycle Regulated Waste, LLC</td></tr>
<tr><td rowspan="2">3. Related Technologies and services</td><td colspan="2">CURIUM</td><td rowspan="2"></td></tr>
<tr><td colspan="2">SICK AG</td></tr>
<tr><td colspan="4">4. Resource Person List</td></tr>
</table>

Session 3
Update of the WMA Catalogue

- The Secretariat of the GMP has been preparing online information sharing sessions, including on mercury waste management and disposal facilities, that could be organized under the Global Mercury Partnership. The updated Catalogue will be shared among participants of the webinar.
- Partners who may wish to introduce their technologies and services on mercury waste management in the webinar are encouraged to contact the Secretariat of the WMA.

No.	Possible topics for webinars conducted under the GMP	Schedule
1.	Incorporating a gender dimension into ASGM NAPs	Done on 17 June
2.	Guidance on ASGM tailings management	tbc
3.	Implementing the products phase out: focus on mercury-containing lamps	tbc
4.	Phasing down mercury use in dental amalgam	tbc
5.	**Information exchange on mercury waste management and disposal facilities around the world**	**tbc**
6.	Information exchange on interim solutions for mercury storage	tbc
7.	Information exchange on best practices in controlling illegal mercury trade and managing seized mercury	tbc
8.	Information exchange on available information on mercury trade	tbc
9.	Information exchange on mercury from cement (topic tbc)	tbc

Session 3
Update of the WMA Catalogue

- Guiding questions;
  i. How can the current structure of the Catalogue be improved?
  ii. How can we effectively disseminate the Catalogue to targeted stakeholders? What occasions are there to make the Catalogue available to all?

- Let the Secretariat know if you wish to;
  i. reflect your technologies and services on mercury wastes management into the Catalogue, including soft services (e.g. capacity-building) that relevant organizations have provided and ; and/or
  ii. introduce the technologies and services at the future webinar under the UNEP-GMP.

  Note: Partners may be able to provide relevant inputs at the webinar on ASGM tailings, phasing-out/down of products and others.

Session 4:
Moving forward

- Comments are invited on the following items **by 30th July.**
  - Response list and prospective activities
  - Feedback & interests in the working group(s) (and to be coordinator)
  - Proposed outline of Factsheet to be developed by the ISWA
  - Proposed new format of the Catalogue
  - Interest in technology/services to be reflected in the Catalogue
  - Interest in the webinar to be organized by the GMP Secretariat
  - Draft meeting summary (to be developed)
- Leads will revise the WMA activity plan accordingly and circulate for further comments (around end of August).
- 2nd WMA meeting: will be announced later

Closing