

BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE

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BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

Technical Information

- Throughout the event, you may raise your questions in the Q&A box
- Automatically translated subtitles in many languages are available through the captions button on the bottom left of your screen
- The recording, summary and documents will be made available on the event's website

**BRIEFING ON THE GLOBAL INTERGOVERNMENTAL
MEETING ON MINERALS AND METALS**

**ENGLISH CAPTIONS CAN BE
ACTIVATED BY CLICKING ON THE
BUTTON ON THE LEFT-SIDE OF THE
BOTTOM BAR ON THE SCREEN**



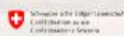
BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

SPEAKERS

By order of intervention.



Martine ROHN-BROSSARD



Deputy Head, International Affairs Division,
Federal Office for the Environment, Switzerland



Elisa TONDA



Chief, Resources and Markets Branch,
UN Environment Programme



Charlotte NDAKORERWA



Programme Management Officer,
UN Environment Programme



Gabriela ENCINA VERA



Chief of Sustainable Development Division,
Ministry of Mining, Chile



Khadija DRAME



Deputy Coordinator of Legal Affairs Unit, Ministry
of the Environment and Sustainable
Development, Senegal



Claudia KAMKE



Environmental Affairs Officer, Convention on the
Transboundary Effects of Industrial Accidents,
UN Economic Commission for Europe



Teresa MAYR



Legal Officer, Aarhus Convention Secretariat



Pascal PEDUZZI



Director, UNEP GRID-Geneva



Gyubin HWANG



Global Focal Point, Children and Youth Major
Group to UNEP



Inga PETERSEN



Executive Director, Global Battery Alliance



Jon Angelo BONIFACIO



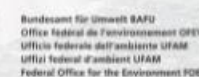
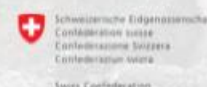
Spokesperson, International People's
Conference on Mining



Arnold KREILHUBER



Director, Europe Office, UN Environment
Programme | Moderator



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UNEA RESOLUTION ON ENVIRONMENTAL ASPECTS OF MINERALS AND METALS MANAGEMENT

UNITED
NATIONS



United Nations
Environment Assembly of the
United Nations Environment
Programme

EP

UNEP/EA.5/Res.12

Distr.: General
7 March 2022
Original: English

United Nations Environment Assembly of the
United Nations Environment Programme
Fifth session
Nairobi (hybrid), 22 and 23 February 2021
and 28 February–2 March 2022

Resolution adopted by the United Nations Environment Assembly on 2 March 2022

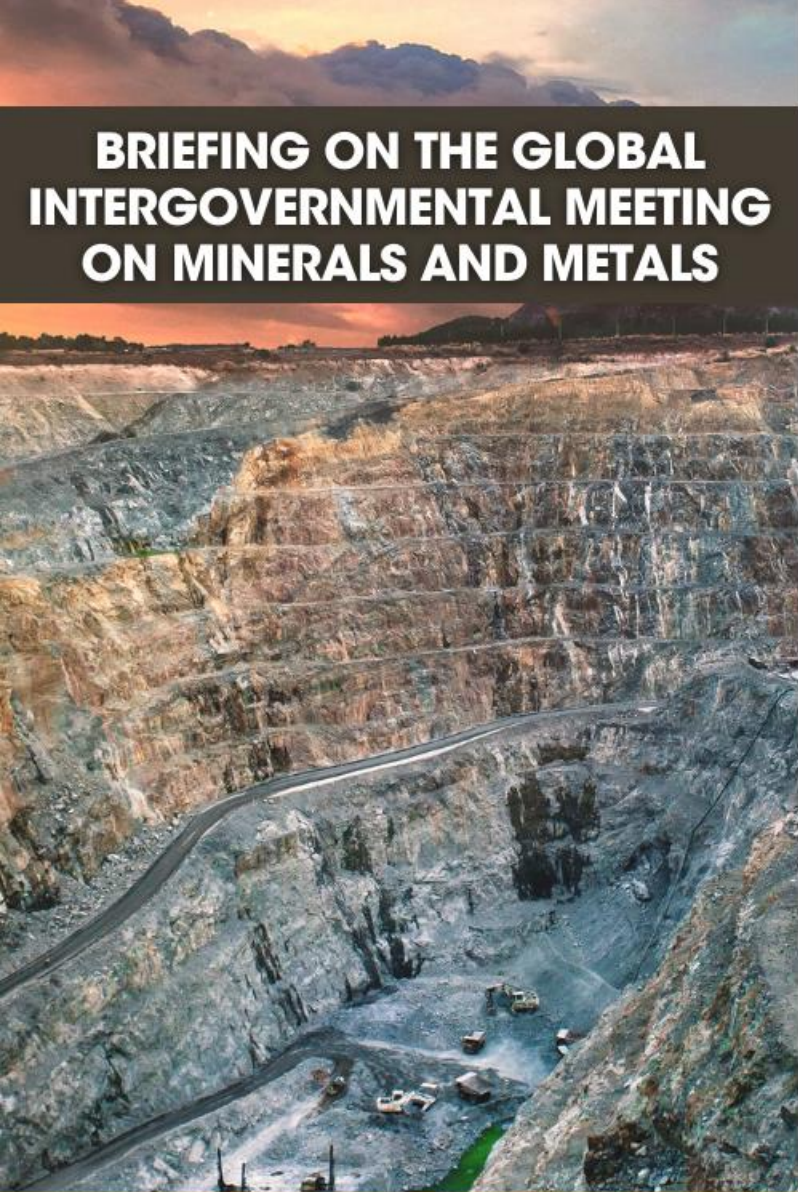
5/12. Environmental aspects of minerals and metals management

The United Nations Environment Assembly,

Recalling its resolution 4/19 on mineral resource governance and taking note of the report of the Executive Director of the United Nations Environment Programme entitled "Progress in the implementation of resolution 4/19 on mineral resource governance"¹ and the report entitled *Mineral Resource Governance and the Global Goals: An Agenda for International Collaboration*,²

Recalling also its resolution 4/1 on innovative pathways to achieve sustainable consumption and production and the progress report thereon and its resolution 4/5 on sustainable infrastructure and the progress report thereon, and taking account of developments in resource efficiency, the circular economy and sustainable resource

UNEP/EA.5/RES.12



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Opening

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

Update on Preparations: Outcomes of the Regional Consultations and Presentation of the Background Document for the Intergovernmental Meeting on Minerals and Metals

- Charlotte NDAKORERWA | Programme Management Officer, UNEP

Stakeholders Perspectives

- **National Focal Points**
 - Gabriela ENCINA VERA | Chile
 - Khadija DRAME | Senegal
- **Tailings Safety** | Claudia KAMKE | UNECE
- **Public Participation** | Teresa MAYR | Aarhus Convention Secretariat
- **Sand** | Pascal PEDUZZI | UNEP GRID-Geneva
- **Youth** | Gyubin HWANG | Children and Youth Major Group to UNEP
- **Private Sector** | Inga PETERSEN | Global Battery Alliance
- **Civil Society** | Jon Angelo BONIFACIO | International People's Conference on Mining

Q&A

Closing

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland

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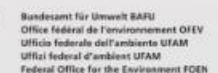
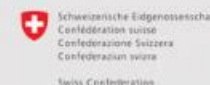


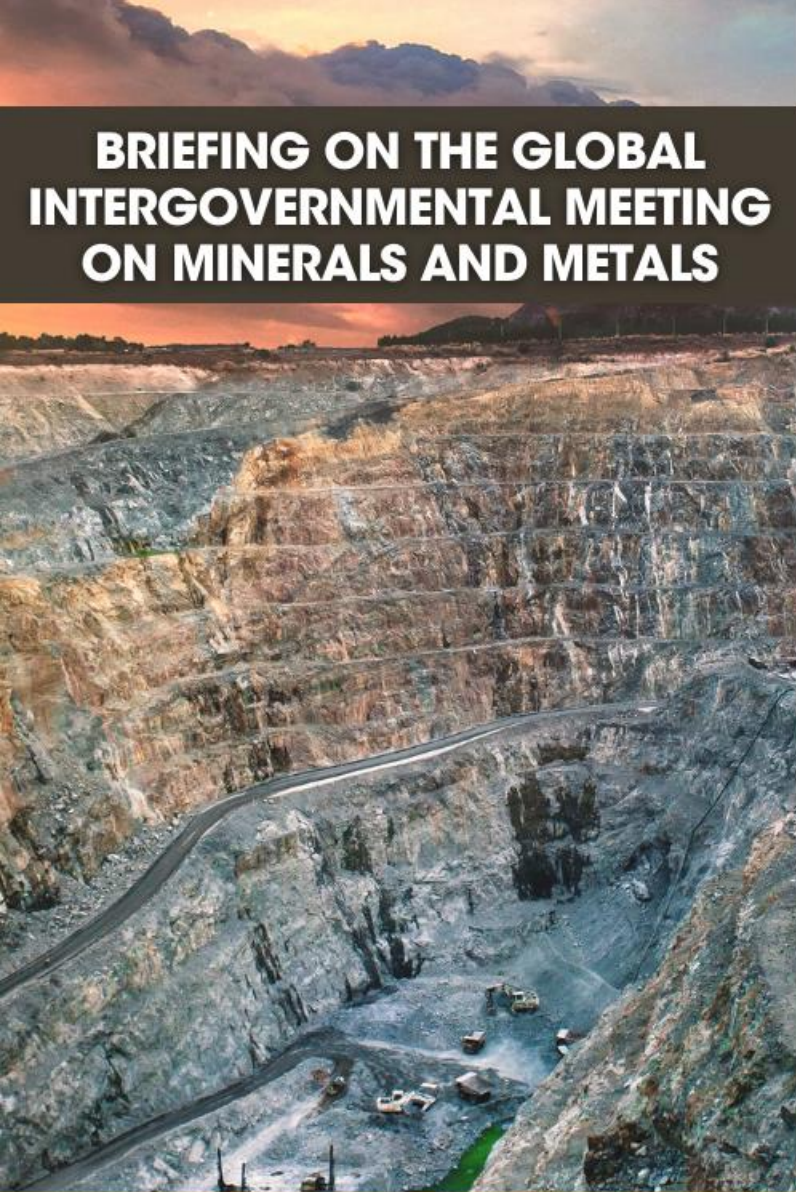
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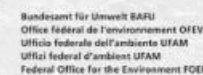
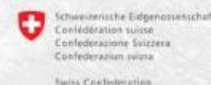
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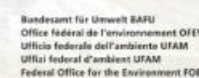
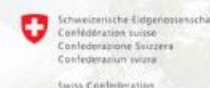
Martine ROHN-BROSSARD

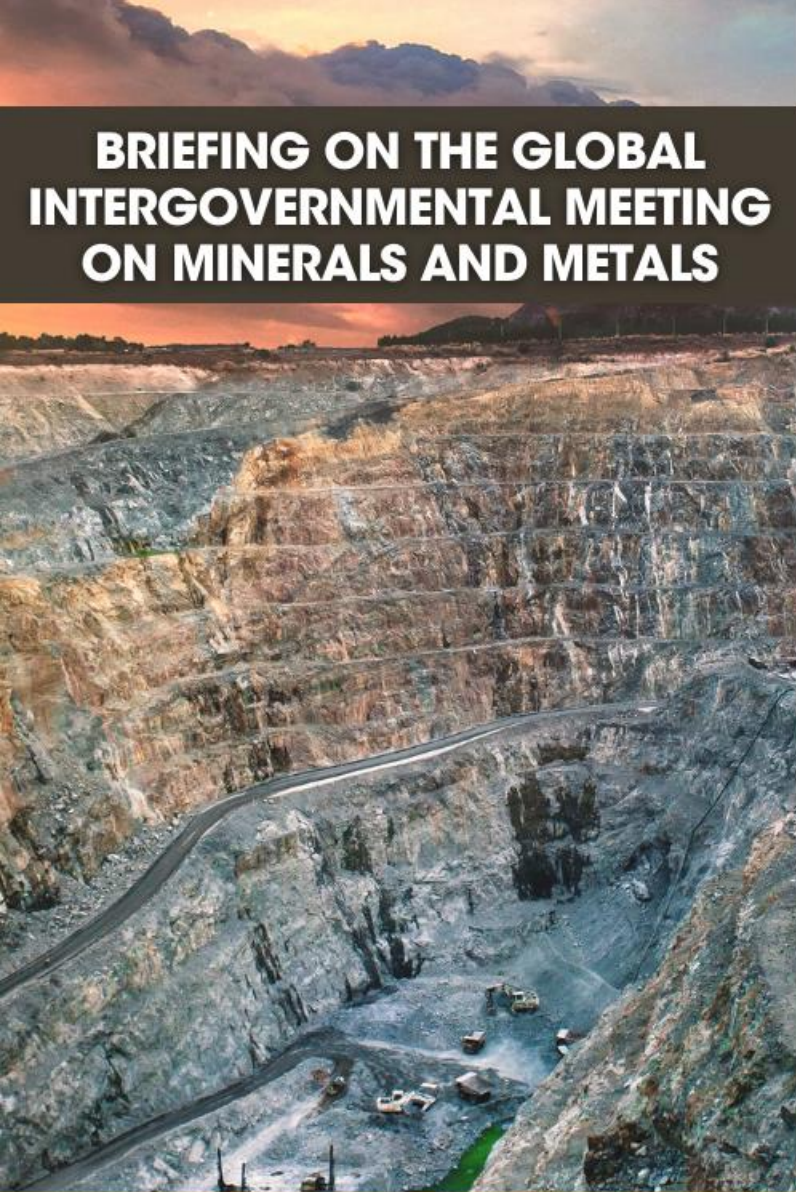
Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Co-Chair of the Process

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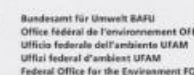
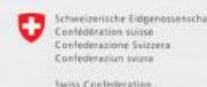


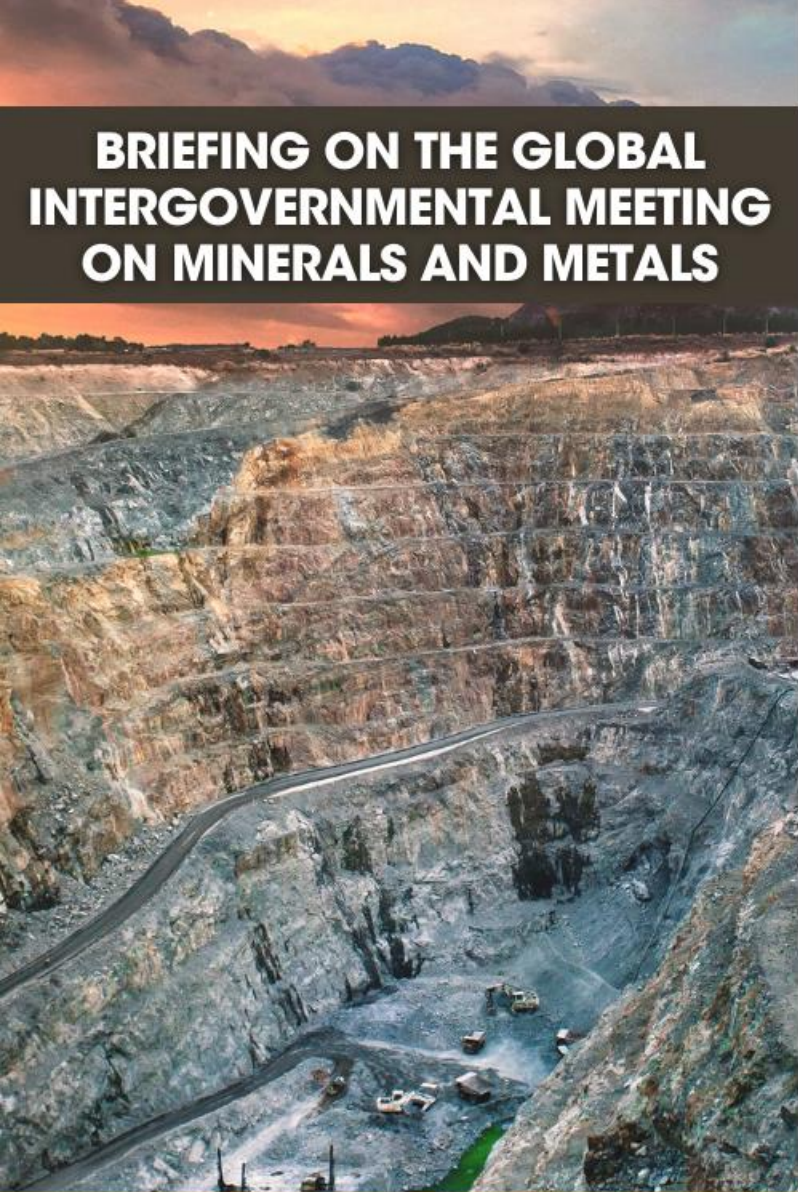
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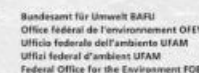
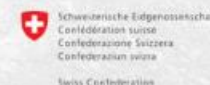
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Charlotte NDAKORERWA

Programme Management Officer,
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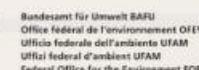
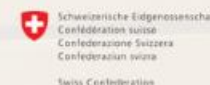


Charlotte
Ndakorerwa

Laetitia Zobel

Photo Credit: Africa Animal Welfare Conference, 2018

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE



Global Intergovernmental Meeting on UNEA resolution 5/12



Geneva Environment Network Briefing
23 August 2023

Charlotte Ndakorerwa
UNEP

Mandates UNEA-5 Resolution 12 “Environmental Aspects of Minerals and Metals Management” (1)

The UNEA-5 resolution focusses on improving the environmental aspects of minerals and metals along their full life cycle and requests UNEP, subject to available resources, to:

*OP 2 “...**convene transparent and inclusive intergovernmental regional consultations, including with relevant international organizations, with regional and multilateral environmental agreements, and with relevant stakeholders acting as observers, to feed into a global intergovernmental meeting, with the aim of developing non-prescriptive proposals to enhance the environmental sustainability of minerals and metals along their full life cycle, in line with the 2030 Agenda for Sustainable Development.**”*

Mandates UNEA-5 Resolution 12 “Environmental Aspects of Minerals and Metals Management” (2)

OP 3 Decides that the intergovernmental regional consultations will:

- (a) **Take stock of existing activities and actions** (...)to enhance the environmental sustainability of minerals and metals and identify, among other things, best practices, responsible business practices, standards, guidelines, technical tools, environmentally sustainable technologies and the use of renewable energy in mining;
- (b) **Identify opportunities for enhanced international cooperation**, including with a view to fostering capacity-building and technological, technical and scientific cooperation in the mining sector, in particular with developing countries;
- (c) **Identify possible ways forward** for consideration by the Environment Assembly at its sixth session, as appropriate

Mandates UNEA-5 Resolution 12 “Environmental Aspects of Minerals and Metals Management” (3)

*OP 4 Requests the Executive Director, (...) to **strengthen scientific, technical and policy knowledge with regard to sand**, and to support global policies and action regarding the environmentally sound extraction and use thereof;*

*OP 5 Also requests the Executive Director, (...), to **compile a report on knowledge gaps in relation to the environmental aspects of tailings management**;*

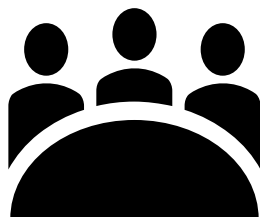
Scope of the Resolution

Excludes mineral fuels

Includes the full life cycle of minerals and metals

including extraction, on-site and off-site processing, refining, management of mining waste and tailings, rehabilitation of sites and closed or abandoned mines, manufacturing, and recycling

Objectives and Expectations of the Global Intergovernmental Meeting



Objectives

- Address mandates of the resolution
- Development of non-prescriptive proposals from Member States reported at UNEA-6
- Co-Chairs' Summary Report
- Progress Report of the UNEP Executive Director to UNEA-6

Expectations

- Active engagement through oral inputs on OP 2 and OP 3(a) and (b) to crystallize, refine, prioritize (where relevant) all non-prescriptive proposals made
- Incorporation of written inputs received on OP 2, OP 3 (a) and (b)
- Guidance provided by background document

Format and Structure of the Global Intergovernmental Meeting

Structure: Day 1 opening, intergovernmental discussion on non-prescriptive proposals and reception; Day 2 intergovernmental discussions on non-prescriptive proposals and closing

Format: Facilitated by co-chairs, hybrid, interpretation

Participants: Member States (National Focal Points); International Organizations, MEAs and accredited organizations as observers

Modalities of engagement: Registration required (closes 1 September); funding available for eligible economies in transition (1 delegate) and accredited MGS

Meeting Date	Title	Meeting Location
07-08 September 2023	Global Intergovernmental Meeting	Geneva, Switzerland International Conference Center

Background Document

- **Guidance** for global intergovernmental meeting on UNEA 5/12
- Importance of **mining for sustainable development** while addressing the three environmental planetary crises
- Overview of **five intergovernmental regional consultations**
- **Written submissions**

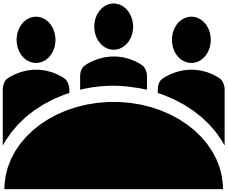
BACKGROUND DOCUMENT FOR UNEA 5/12 GLOBAL INTERGOVERNMENTAL MEETING
7-8 SEPTEMBER 2023, GENEVA, SWITZERLAND

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Towards the Development of Non-Prescriptive Proposals

Results from intergovernmental regional consultations:



- 38 non-prescriptive proposals emerged from five intergovernmental regional consultations + several written submissions
- Complementarity and convergence across some regional outcomes/proposals, enabling their combination and analysis thro' 24 non-prescriptive proposals
- Grouped thematically in [Background Document/Analysis](#):
 - A) Policies and Tools
 - B) Minerals and Metals along the Entire Life Cycle
 - C) Platforms for International Cooperation



**Global Intergovernmental Meeting on Environmental Aspects of Minerals and Metals Management
DRAFT STRUCTURE**

	Thursday 7 September 2023	Friday 8 September 2023
8:00 - 10:00	Regional / Political Groups Meetings	Regional / Political Groups Meetings
10:00 - 13:00	Opening (Plenary) - Opening of the meeting. - Adoption of the agenda. - Presentation of background document - Outcomes from regional consultations - Technical Panel Discussion	10:00-11:00 - Recap of Day 1 World café discussions
		Discussion on non-prescriptive proposals (World Café breakouts)
13:00 - 15:00	LUNCH BREAK <i>Side event</i>	LUNCH BREAK <i>Side event</i>
15:00 - 18:00	Discussion on non-prescriptive proposals (World Café breakouts)	Closing (Plenary) - Report back from the World Café discussions.
		Coffee Break
		- Consideration of a draft Co - Chair's summary of the meeting. - Other matters. - Close of the meeting.
18:00 – 20:00	Swiss reception	

Additional information

List of National Focal Points :

<https://www.greenpolicyplatform.org/guidance/list-unea-resolution-512-national-focal-points-0>

Upcoming events to raise awareness of the resolution:

- Briefing to the UN Environment Management Group on Resolution 5/12 on 30 August 2023 (open to EMG members only)
- **Joint Event with the World Resources Forum on "transforming mineral and metal value chains for enhanced sustainability" on 6 September 2023, 16.30-18.00 CEST in Geneva, Switzerland, International Conference Center, Plenary Room A.**

Resources

UNEA resolution 5/12 on environmental aspects of minerals and metals management:

<https://wedocs.unep.org/bitstream/handle/20.500.11822/39927/ENVIRONMENTAL%20ASPECTS%20OF%20MINERALS%20AND%20METALS%20MANAGEMENT.%20English.pdf?sequence=1&isAllowed=y>

UNEA 5/12 implementation webpage:

<https://www.greengrowthknowledge.org/initiatives/environmental-aspects-minerals-and-metals-management>

Background document for the Global Intergovernmental Meeting:

<https://www.greenpolicyplatform.org/guidance/background-document-guide-global-intergovernmental-meeting-unea-512-1>

Written submissions by Member States:

https://www.greenpolicyplatform.org/sites/default/files/downloads/tools/Member%20States_merged.pdf

Written submissions by Accredited Organizations:

<https://www.greenpolicyplatform.org/guidance/submission-written-inputs-accredited-organisations-unea-512-process>

Summary reports of regional consultations:

<https://www.greenpolicyplatform.org/initiatives/environmental-aspects-minerals-and-metals-management/Intergovernmental%20meetings>

Other Resources

UNEP report Sand and Sustainability: 10 Strategic Recommendations to Avert a Crisis:

<https://www.unep.org/resources/report/sand-and-sustainability-10-strategic-recommendations-avert-crisis>

UNEP's work on extractives: <https://www.unep.org/explore-topics/extractives>

Executive summary "Mineral resource governance and the Global Goals: an agenda for international collaboration":

<https://www.greengrowthknowledge.org/research/mineral-resource-governance-and-global-goals-agenda-international-collaboration>

Compendium of papers prepared for the Global Tailings Review:

<https://globaltailingsreview.org/compendium/>

Thank you



United Nations Avenue, Gigiri
PO Box 30552 – 00100 GPO Nairobi, Kenya

www.unep.org

Format and Proposed Structure of the Global Intergovernmental Meeting

07 September 15:00-16:30 (World Café Style Informal Breakout Groups)

A. Policies and tools

07 Sep: 15:00-16:30	Room A	Room B	Room C
15:00-15:30	Global assessment of existing instruments	-International metal certifications -Global Sand Observatory	-Promote SCP and circular economy. - CB, TA, transfer of know-how and support national implementation -Environmental peer reviews
15:30-16:00	-Promote SCP and circular economy. - CB, TA, transfer of know-how and support national implementation -Environmental peer reviews	Global assessment of existing instruments	-International metal certifications -Global Sand Observatory
16:00-16:30	-International metal certifications -Global Sand Observatory	-Promote SCP and circular economy. - CB, TA, transfer of know-how and support national implementation -Environmental peer reviews	Global assessment of existing instruments

Format and Proposed Structure of the Global Intergovernmental Meeting

07 September 16:30-18:00 (World Café Style Informal Breakout Groups)

B. Minerals and metals along the entire life cycle

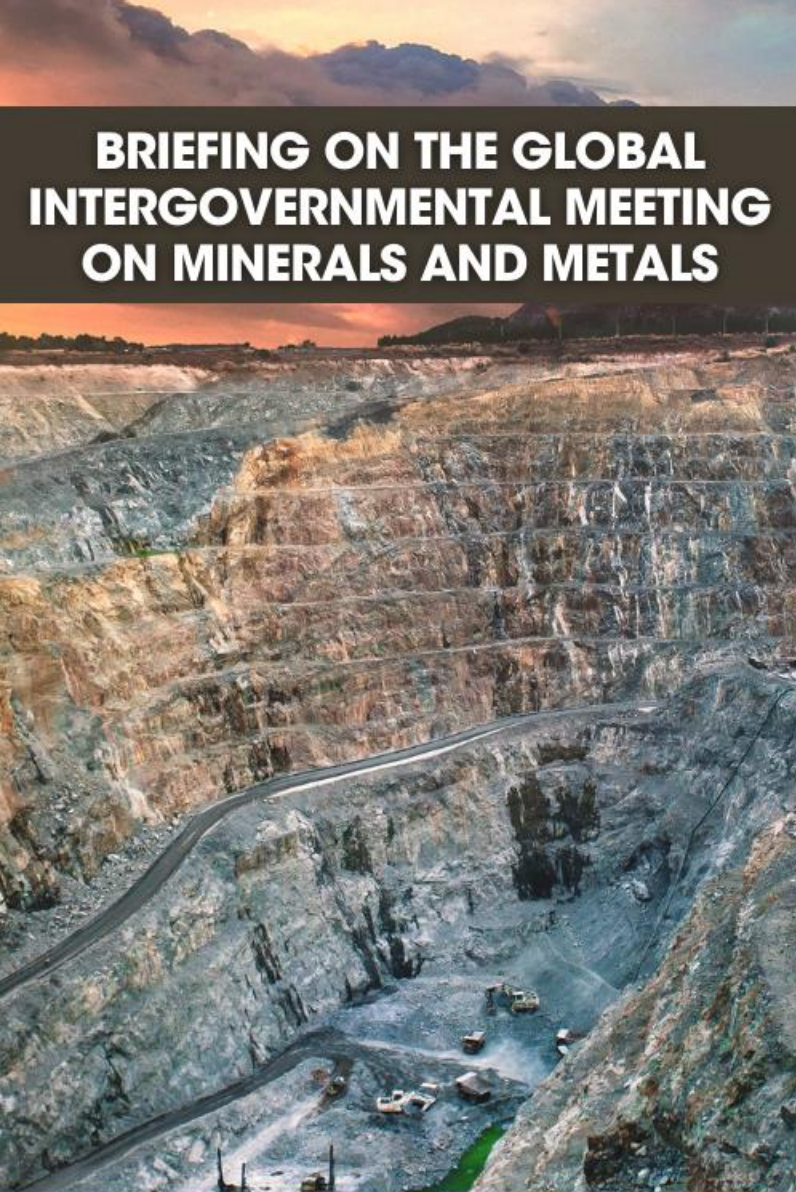
07 Sep: 16:30-18:00	Room A	Room B	Room C
16:30-17:00	<ul style="list-style-type: none"> -Global mapping and classification of tailings facilities - Inventory of abandoned mine sites 	<ul style="list-style-type: none"> -Implementation of Global Industry Standard for Tailings Management - Manual for design and construction of tailings facilities -Technical guideline and standards for safe and environmentally sound management of tailings facilities -Mine closure criteria & guidelines 	<ul style="list-style-type: none"> -Inter-agency collaboration on mine closure -Research on mine closure finance -Re-development of mine sites
17:00-17:30	<ul style="list-style-type: none"> -Inter-agency collaboration on mine closure -Research on mine closure finance -Re-development of mine sites 	<ul style="list-style-type: none"> -Global mapping and classification of tailings facilities - Inventory of abandoned mine sites 	<ul style="list-style-type: none"> -Implementation of Global Industry Standard for Tailings Management - Manual for design and construction of tailings facilities -Technical guideline and standards for safe and environmentally sound management of tailings facilities -Mine closure criteria & guidelines
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Format and Proposed Structure of the Global Intergovernmental Meeting

08 September 11:00-13:00 (World Café Style Informal Breakout Groups)

C. Platforms for international cooperation

08 Sep: 11:00-13:00	Room A	Room B	Room C
11:00-11:40	<ul style="list-style-type: none"> -Open-ended/Technical working Group -UN-supported multi-stakeholder dialogues -LAC network on mining and sustainability 	<ul style="list-style-type: none"> -Cooperation between international organisations -Collaboration with the Minamata Convention -Collaboration with CBD on deep sea mining environmental safeguards 	<ul style="list-style-type: none"> -Explore international agreement on mining -International SDGs mineral programme -Implementation of Escazu Agreement
11:4-12:20	<ul style="list-style-type: none"> -Explore international agreement on mining -International SDGs mineral programme -Implementation of Escazu Agreement 	<ul style="list-style-type: none"> -Open-ended/Technical working Group -UN-supported multi-stakeholder dialogues -LAC network on mining and sustainability 	<ul style="list-style-type: none"> -Cooperation between international organisations -Collaboration with the Minamata Convention -Collaboration with CBD on deep sea mining environmental safeguards
12:20-13:00	<ul style="list-style-type: none"> -Cooperation between international organisations -Collaboration with the Minamata Convention -Collaboration with CBD on deep sea mining environmental safeguards 	<ul style="list-style-type: none"> -Explore international agreement on mining -International SDGs mineral programme -Implementation of Escazu Agreement 	<ul style="list-style-type: none"> -Open-ended/Technical working Group -UN-supported multi-stakeholder dialogues -LAC network on mining and sustainability



BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

AGENDA

Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

Opening

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

Update on Preparations: Outcomes of the Regional Consultations and Presentation of the Background Document for the Intergovernmental Meeting on Minerals and Metals

- Charlotte NDAKORERWA | Programme Management Officer, UNEP

Stakeholders Perspectives

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 - Khadija DRAME | Senegal
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- **Public Participation** | Teresa MAYR | Aarhus Convention Secretariat
- **Sand** | Pascal PEDUZZI | UNEP GRID-Geneva
- **Youth** | Gyubin HWANG | Children and Youth Major Group to UNEP
- **Private Sector** | Inga PETERSEN | Global Battery Alliance
- **Civil Society** | Jon Angelo BONIFACIO | International People's Conference on Mining

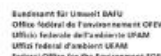
Q&A

Closing

- Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

23 AUGUST 2023 | 11:00 - 12:30
CEST | IEH II & ONLINE

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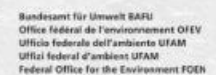
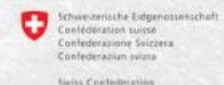


BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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STAKEHOLDERS PERSPECTIVES

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE



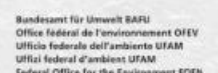
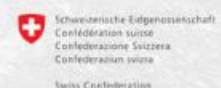
BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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STAKEHOLDERS PERSPECTIVES

National Focal Points

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE



BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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Gabriela ENCINA VERA

Chief of Sustainable Development Division,
Ministry of Mining, Chile

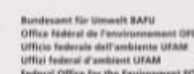
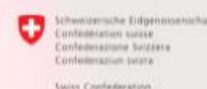


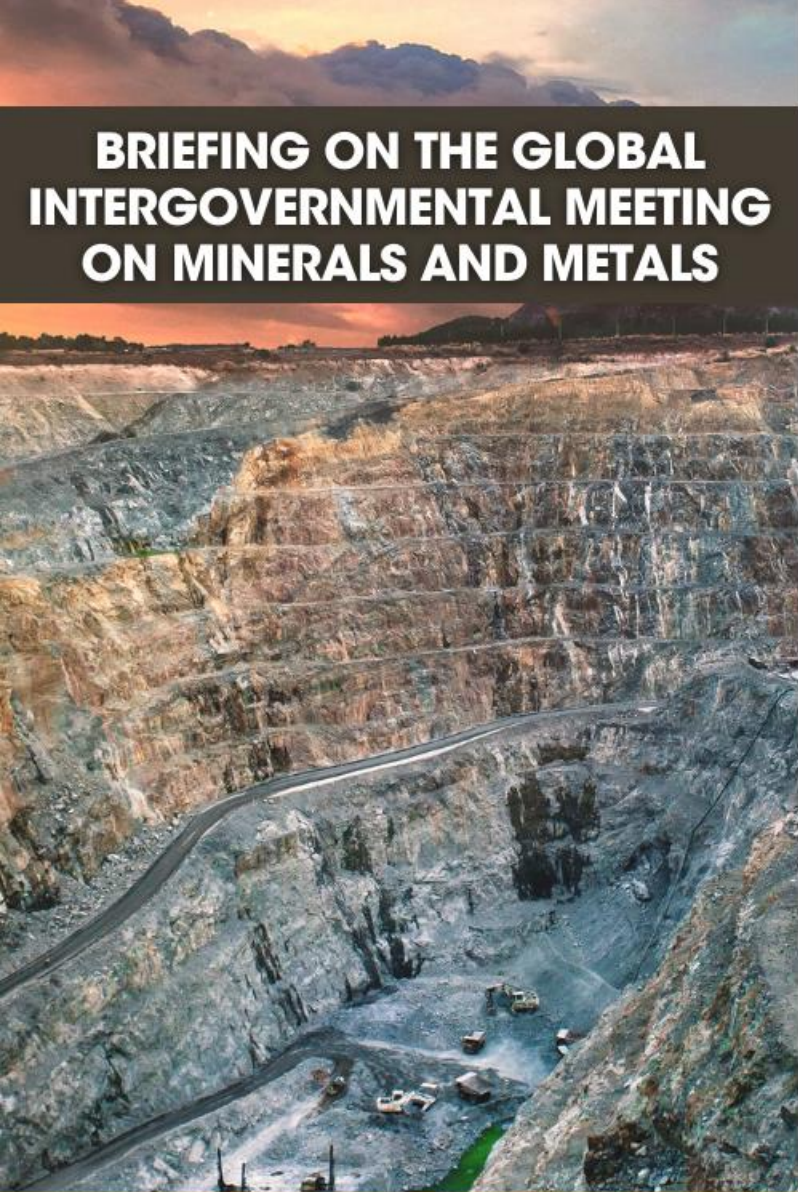
CO-CHAIR
MARTINE ROHN-BROSSARD
JEFA ADJUNTA, DIVISION DE ASUNTOS INTERNACIONALES, OFICINA FEDERAL SUIZA DE MEDIO AMBIENTE

WILLY KRACHT GAJARDO
SUBSECRETARIO DE MINERIA
MINISTERIO DE MINERIA, CHILE

AURICIO LEON
DIRECCION GENERAL DE RECURSOS NO RENOVABLES
DE RECURSOS NATURALES, CEPAL

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE





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Closing

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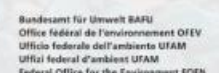
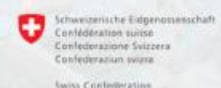


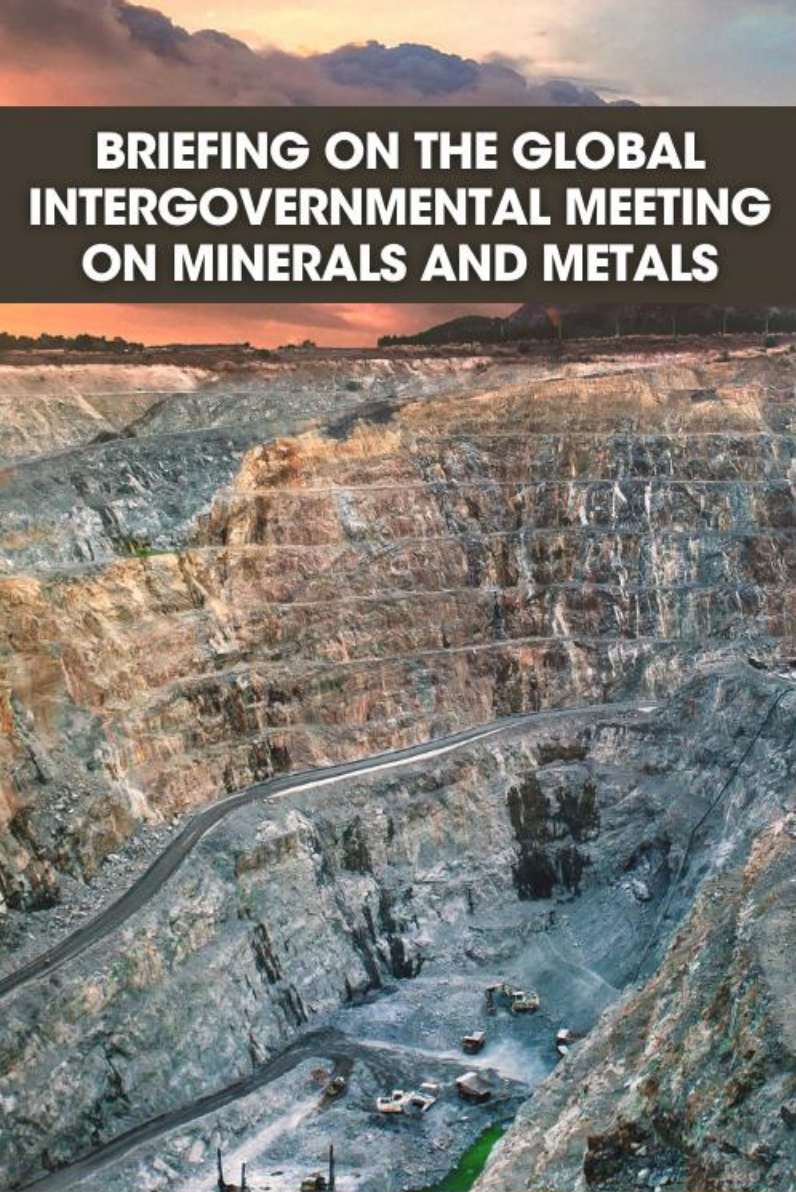
Khadija DRAME

Deputy Coordinator of Legal Affairs Unit, Ministry of the Environment and Sustainable Development, Senegal



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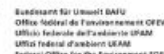
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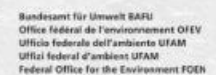
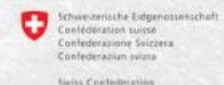
BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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STAKEHOLDERS PERSPECTIVES

Tailing Safety

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE



BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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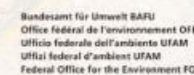
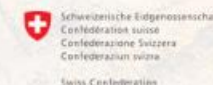


Claudia KAMKE

Environmental Affairs Officer, Convention on the Transboundary Effects of Industrial Accidents, UNECE



23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE



Briefing on the Global Intergovernmental
Meeting on Minerals and Metals

UNECE's Perspectives on Tailings Safety and Sustainable Resource Management

Presentation by Ms. Claudia Kamke, Industrial Accidents Convention
Prepared in cooperation with Mr. Harikrishnan Tulsidas, Sustainable Energy Division

Geneva, 23 August 2023



UNECE

Key Challenges

- **Critical Raw Materials (CRM):** Increasing demand for CRMs is projected, creating potential shortages, trade dependency, geopolitical challenges, and increasing TMFs risks
- **Hazards and Risks of Tailings Management Facilities (TMFs):** Lack of knowledge of TMFs (number, location, state, condition), transboundary effects of TMFs, and effective management of TMF risks for prevention
- **Natural Hazards Triggering Technological Disasters (NATECH)**
Events: Natural hazards, frequent and severe weather events of climate change increase risk of TMF failures & transb. impacts



TMF cyanide spill at Ridder (Kazakhstan, 2016)



Brumandinho dam collapse (Brazil, 2019)



Baia Mare cyanide spill (Romania, 2000)



Mount Polley tailings dam break (Canada, 2014)

Sources:

1. <https://siberiantimes.com/ecology/others/news/n0671-stinking-poisoned-water-flows-towards-siberia-from-mining-city-ridder-in-kazakhstan/>
2. [UNEP, 2017](#)
3. https://en.wikipedia.org/wiki/Mount_Polley_mine_disaster#/media/File:Mount_Polley_Mine_dam_breach_2014.jpg

From Waste to Wealth: How UNFC and UNRMS Can Transform the Mining and Processing Industries

- The United Nations Framework Classification for Resources ([UNFC](#)) and the United Nations Resource Management System ([UNRMS](#)) are innovative tools for sustainable resource management that can transform the mining and processing industries.
- UNFC and UNRMS can help reduce waste, use tailings and other secondary sources, and create value-added products.
- UNFC and UNRMS can support the 2030 Agenda and the circular economy by promoting resource efficiency, environmental sustainability, social responsibility and green financing.
- [ECOSOC](#) endorses UNFC and UNRMS for global application, promoted by the European Union, the African Union and many countries worldwide.
- Visit: <https://unece.org/sustainable-energy/sustainable-resource-management>



UNECE Industrial Accidents Convention

Guidance & tools



Practical application

- Inventories & Maps of 580 TMFs in the Danube River Basin & Central Asia
- On-site trainings at TMFs to build capacity & understand risks
- Creation of Interinstitutional Working Groups on Tailings Safety and the Prevention of Accidental Water Pollution (IIWGs) in Central Asia
- Subregional/transboundary cooperation on tailings safety

2030 UNECE Road Map for Action on Tailings Safety

2023–2024

- Promote understanding of the risks associated with tailings
- Review and update existing measures and legislation
- Use existing and create new working groups and national coordination mechanisms
- Report tailings as a hazardous activity (10th reporting cycle)



NEXT Steps

- **Prepare an overview:** tailings facilities in the UNECE region, possible existing threats, risks and hot spots
- **Improve shared understanding and risk management across countries**
- **Facilitate multi-stakeholder dialogue on existing benefits and challenges in the UNECE region**

2025–2026

Key messages: From regional to global consultations

- Life-cycle approach & sustainable resource management are important to manage the green transition and achieve SDGs
- Need for global mapping and assessment of existing legal & policy instruments that apply to environmental aspects of minerals and metals (and related guidelines and tools, e.g. UNFC & 2030 Road Map)
- Strengthening safety & governance and preventing accidents at all TMFs, including abandoned, active, inactive, future, etc., are key for protecting people, environment & economies
- Important to take integrated risk management approach, including to address impacts of climate change & natural disasters (Natech risks), for enhancing safety measures & reducing risks
- Need for more cooperation and coordination to address TMF hazards and risks, including transboundary risks, at national, cross-border, regional & multistakeholder levels (e.g. IIWGs)
- Need to fill technical knowledge gaps through TMF mapping, risk assessment, capacity building & IO cooperation
- Reporting & regular information exchange on lessons learned and good practices across countries & regions are valuable for respective environmental processes

Thank you for your attention

For more information:
www.unece.org/env/teia

Claudia Kamke
Environmental Affairs Officer
Convention on the Transboundary Effects of
Industrial Accidents, Environment Division
claudia.kamke@un.org

For more information:
<https://unece.org/sustainable-energy>

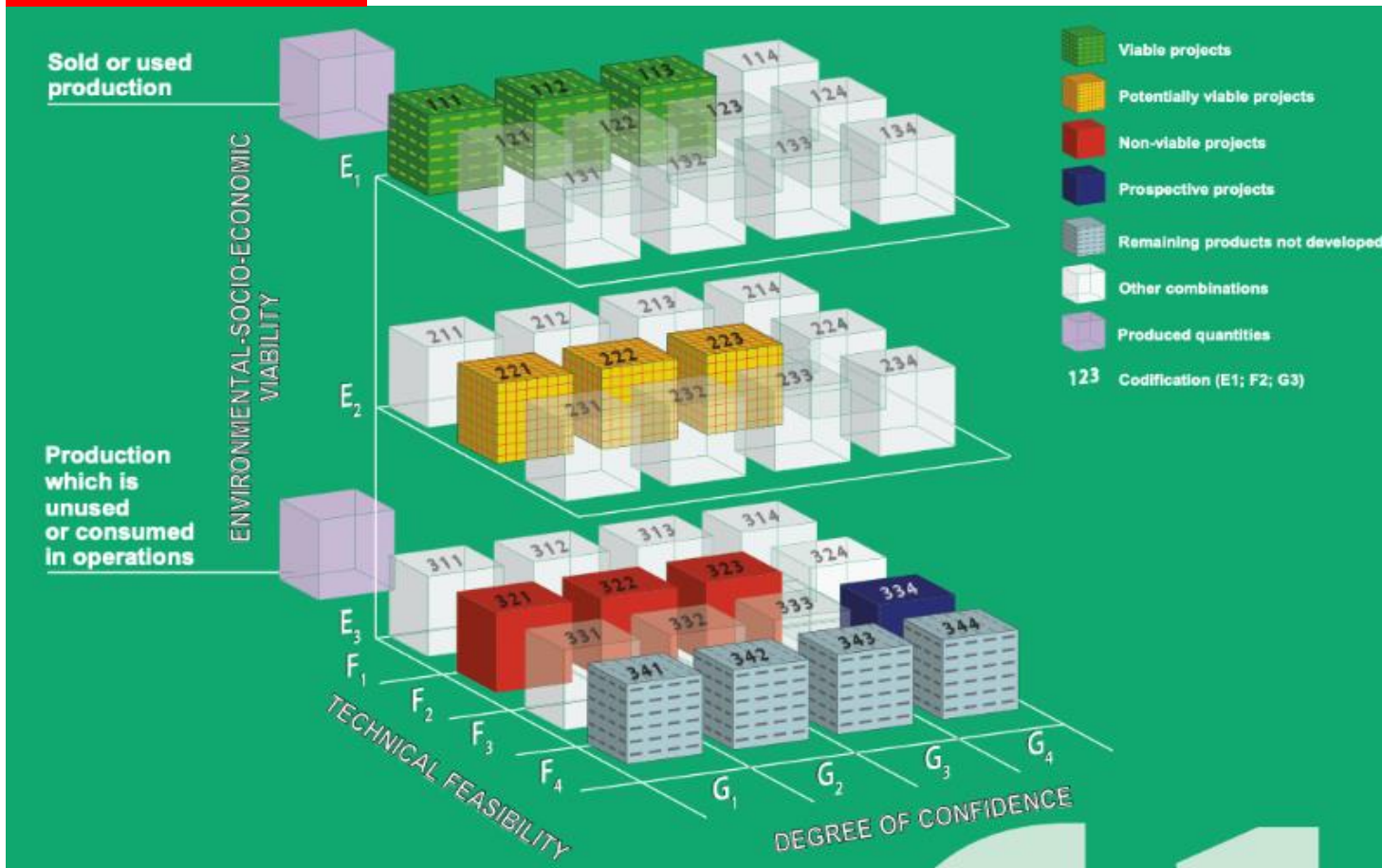
Harikrishnan Tulsidas
Economic Affairs Officer
Sustainable Energy Division
harikrishnan.tulsidas@un.org



Additional information & links

United Nations Framework Classification for Resources (UNFC)

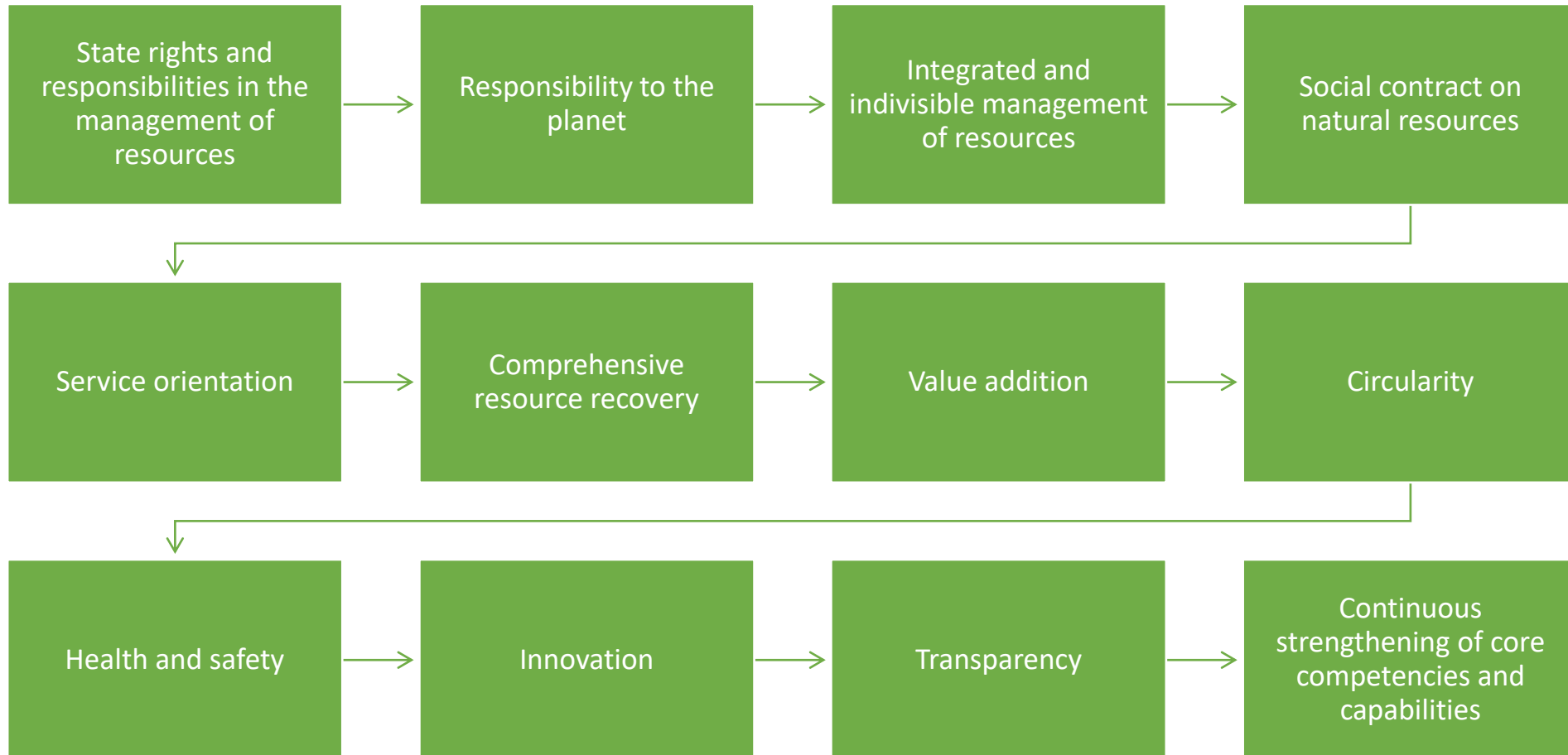
Updated 2019



- Applicable across resources and countries
- Includes environmental, social, and economic dimensions

United Nations Resource Management System

Based on 12 Fundamental Principles



Industrial Accidents Convention



- Adopted 1992, entered into force 2000, 42 Parties in UNECE region
- Purpose: To protect humans and the environment against the effects of industrial accidents
- Scope: Activities (including TMFs) that involve a hazardous substance listed in Annex I and that are capable of causing transboundary effects
- Key components: Identification/Notification, Prevention, Preparedness, Public Information/Participation, Response, Transboundary cooperation

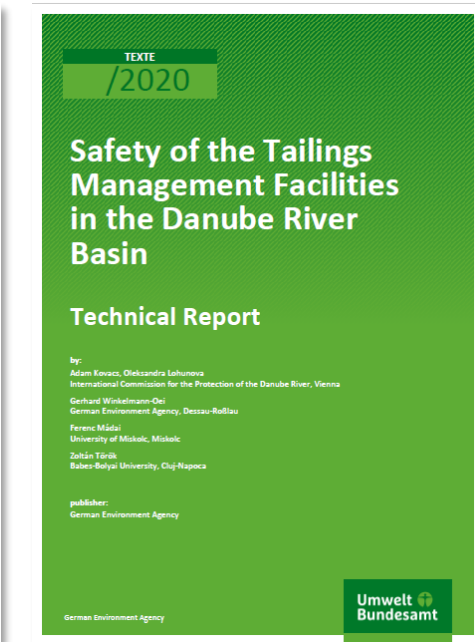
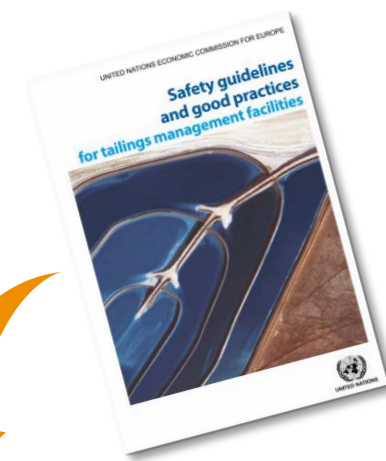
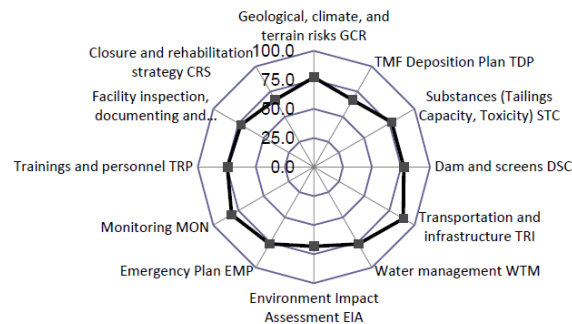
Safety Guidelines and Good Practices for Tailings Management Facilities



- Developed by the [Joint Expert Group on Water and Industrial Accidents \(JEG\)](#)
- Aim to reduce frequency and severity of TMF failures
- Provides safety principles and recommendations for governments, competent authorities, TMF operators
- Includes aspects related to i) Pre-construction and construction, ii) Operation and management, iii) Facility inspections, iv) Identification, assessment, management of abandoned sites, iv) Emergency planning
- TMF Methodology was developed to support countries in the practical application of the guidelines

Methodology for improving TMF safety

- Created by [German Federal Environment Agency \(UBA\)](#) in 2016 under the project on improving the safety of TMFs in Ukraine (2013-2015), to operationalize the UNECE Safety Guidelines
- Refined in 2020 under the project on Capacity development to improve safety conditions of tailings management facilities in the Danube River Basin
- Practical tool to be applied by operators and competent authorities to reduce tailings risks
- Consists of 3 components:
 1. Tailings Hazards Index (THI) & Tailings Risk Index (TRI)
 2. Checklist methodology
 3. Measure Catalogue
- Evaluation Matrix for the TMF safety level from the checklist methodology



2030 Road map for action to strengthen mine tailings safety within and beyond the UNECE region



- Developed by Industrial Accidents Conventions' Bureau and UNECE Secretariat, in consultation with OECD, OSCE, UNDRR, UNEP, UNDP and EU Joint Research Centre
- Purpose: i) Defines five key objectives to strengthen mine tailings safety, ii) Provides direction, actions and priorities for countries to achieve the key objectives, iii) Highlights activities that UNECE, in cooperation with partner organizations, can conduct to support countries in implementation
- Objectives: i) Understanding TMF-related risks within and across national borders, ii) Addressing TMF risks through policy and governance, iii) Prevention and preparedness for accidental water pollution from TMFs to ensure water quality, iv) Prevention of NATECH events and adaptation to climate change, v) Exchange of information and knowledge and capacity-building

Decision 2020/1 on strengthening mine tailings safety in the United Nations Economic Commission for Europe region and beyond

ECE/CP.TEIA/42/Add.1

Decision 2020/1 Strengthening mine tailings safety in the United Nations Economic Commission for Europe region and beyond

The Conference of the Parties,

Alarmed by the increasing frequency of serious tailings dam failures over recent decades, causing deaths and the destruction of families, homes, infrastructure, ecosystems and the environment,

Increasingly aware of the far-reaching and potentially transboundary nature of accidental water pollution caused by tailings dam failure, both within and beyond the United Nations Economic Commission for Europe (ECE) region, making tailings dam failures a matter not only of national but also of regional concern, calling for joint prevention and management approaches,

Concerned by the observation that the majority of tailings dam failures can be attributed to a limited number of human factors, notably a lack of management continuity and inadequate resources for maintenance and management of tailings management facilities,

Conscious of the economic importance of the mining sector and its role in the transition to low-carbon energy production and storage technologies, and the interconnection of sustainably deployed infrastructure, mining safety, human well-being and the environment,

Conscious also of the projected increase in global demand for mineral extraction and mining activities in and beyond the ECE region, which will, among other things, result in an increase in hazardous waste stored in mine tailings, requiring more reliable and resilient tailings design, management and land-use planning,

Noting with concern the elevated risk of accidents from mine tailings as a result of an increase in the frequency and intensity of climate-related extreme weather events (such as high energy storms, wind gusts, heavy precipitation and extreme temperatures), and slow-onset climate events¹ (such as rising sea levels, thawing of permafrost, land degradation and retreating glaciers), while also noting a lack of awareness in the mining sector concerning these phenomena,

Emphasizing the need for full awareness of disaster risk linked to mine tailings operations and the consequences of tailings dam failures, as well as the need for communities, tailings management operators and competent authorities to take strengthened disaster resilience and disaster risk reduction measures to mitigate such risks, and for the involvement of all concerned stakeholders in respective decision-making on mine tailings safety,

Appreciating synergies between the strengthened implementation of the Convention on the Transboundary Effects of Industrial Accidents, the Sendai Framework for Disaster Risk Reduction 2015–2030 and the Sustainable Development Goals of the 2030 Agenda for Sustainable Development; and recognizing the linkages with the objectives for adaptation to climate change under the Paris Agreement,

Recognizing the importance of establishing a high level of tailings safety in the ECE region by addressing regional hotspots, in line with the implementation of the Convention's Long-Term Strategy until 2030;²

Recalling the endorsement of the Safety guidelines and good practices for tailings management facilities,³ which were developed by the Joint Expert Group on Water and Industrial Accidents further to the evaluation of the Working Group on Development – at its

¹ Slow-onset climate events are defined in the United Nations Framework Convention on Climate Change technical paper on slow onset events (FCCC/TP/2012/7). The paper indicates a need to integrate disaster risk reduction, adaptation to climate change and sustainable development efforts to address the impacts of slow-onset climate events.

² See ECE/CP.TEIA/38/Add.1.

³ United Nations publication, ECE/CP.TEIA/26.

- In 2020, the Industrial Accidents Convention COP adopted [Decision 2020/1](#) on strengthening mine tailings safety in the UNECE region and beyond
- Built on outcomes of the Seminar on mine tailings safety in the UNECE region and beyond (online, 1 December 2020)
- Requests Parties (and invites other countries) to increase efforts to strengthen tailings safety and prevent failures, in view of elevated risk of such accidents posed by increasing frequency and severity of extreme weather events due to climate change
- Reminds Parties that identification of hazardous activities and notification processes shall entail TMFs
- Urges Parties (and invites other countries) to facilitate the application of the UNECE Safety Guidelines for TMFs, TMF Methodology and good practices in the ECE region through capacity development, technology/knowledge transfer, sharing of experiences and lessons learned
- Calls on Parties to improve inter-institutional and stakeholder coordination at the national and local levels and across borders, while increasing transparency for communities and other stakeholders on how these risks are taken into account

Online Toolkit & Training for Improving Tailings Safety

Онлайн-инструментарий и подготовка по повышению безопасности хвостохранилищ

Общий обзор

Промышленные аварии на хвостохранилищах уже приводили к экологическим катастрофам с разрушительными последствиями для людей и окружающей среды на территории стран и за их пределами. Крупные промышленные аварии в регионе ЕЭК ООН и за его пределами побудили страны разработать и внедрить инструменты в рамках Конвенции ЕЭК ООН о трансграничном воздействии промышленных аварий для повышения безопасности хвостохранилищ и предотвращения таких аварий в будущем.



Этот онлайн-инструментарий помогает странам в укреплении безопасности хвостохранилищ и практики управления ими. Он служит центральным узлом для всех, кто хочет узнать о важности обеспечения безопасности хвостохранилищ, соответствующей работе и инструментах в рамках Конвенции. В то же время он обеспечивает для стран дистанционную подготовку без необходимости личного присутствия, чтобы улучшить их знания о воздействиях и проблемах, связанных с хвостохранилищами, чтобы применять существующие руководящие принципы, включая инструменты ЕЭК ООН, для повышения безопасности хвостохранилищ. Этот интерактивный инструмент и подготовка включают в себя четыре раздела в раскрывающемся меню ниже: справочная информация о безопасности хвостохранилищ; трехстадийная практическая учебная подготовка для стран по совершенствованию практики безопасного управления; резюме работы ЕЭК ООН по хвостохранилищам и партнеров; а также дополнительная литература, включающая ключевые доклады и ссылки на источники информации.

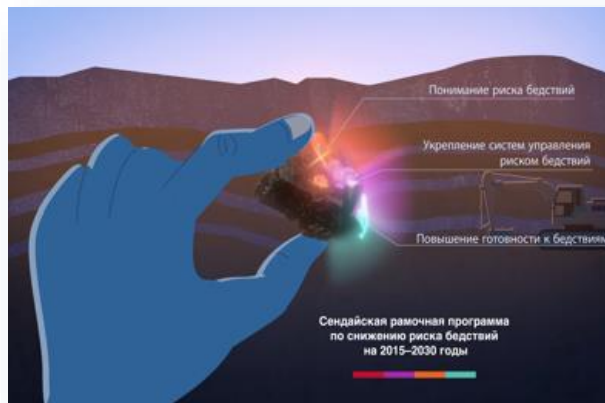
Повышение безопасности шахтных хвостохранилищ и улучшение управления ими позволяют странам лучше понимать риски бедствий и управлять ими, в том числе и в рамках межведомственного и межсекторального сотрудничества. Таким образом, эта работа способствует достижению целей Повестки дня на период до 2030 года с ее целями в области устойчивого развития и Сендайской рамочной программы по снижению риска бедствий. Это также укрепляет государственное управление недрами, устойчивую инфраструктуру и устойчивость к бедствиям как в самих странах, так и за их пределами.

Справочная информация - Призыв к незамедлительным действиям
Практическая подготовка (3 стадии)
Работа ЕЭК ООН в области хвостохранилищ и партнеры
Дополнительная литература - ключевые доклады и ссылки на источники информации по безопасности хвостохранилищ

- Promotes knowledge of tailings safety through online training on the application of relevant safety guidelines and methodology

Consists of:

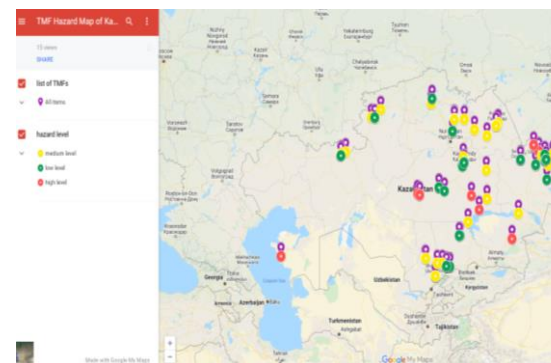
- Reference information on the safety of tailings
- Practical training → 3-step approach
- Brief information on UNECE work related to tailings and partners
- Further reading (main reports and links)
- Available in [ENG](#) and [RUS](#)



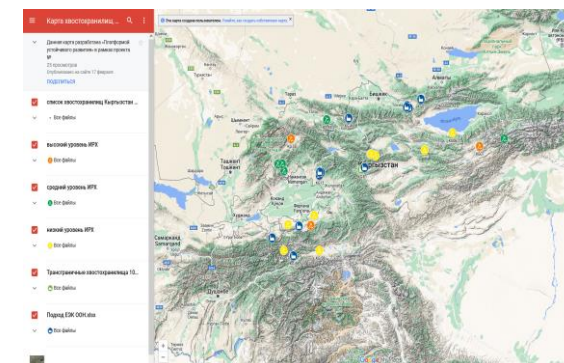
Includes tailings safety training video
(ENG, RUS)

TMF mapping: Central Asia

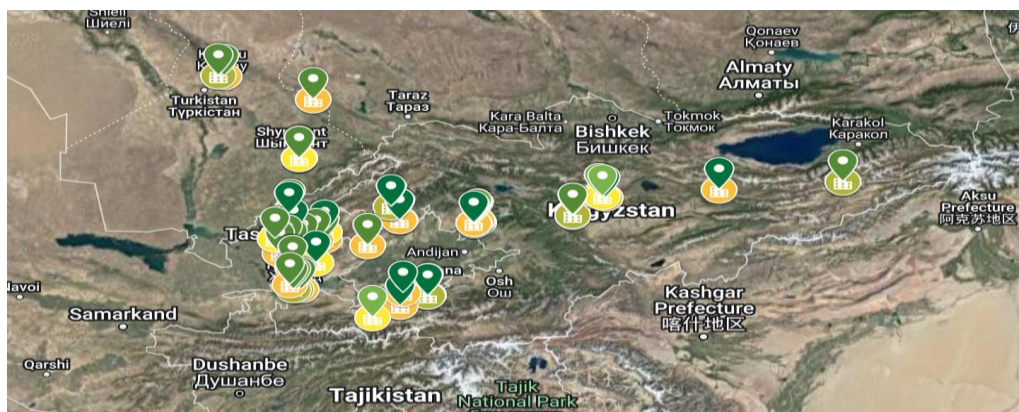
- TMF inventory project under the [UNECE Industrial Accidents Convention](#) thanks to funding by Switzerland, Germany and the EU
- 237 TMFs identified across Central Asia with 59 or 25% capable of causing transboundary effects
- All TMFs assessed using the TMF Methodology, incl. Tailings Hazard (THI) and Tailings Risk (TRI) Indexes



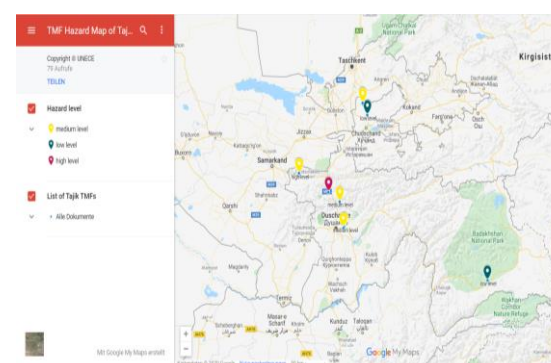
Kazakhstan: 121 TMFs with 7 capable of transboundary effects



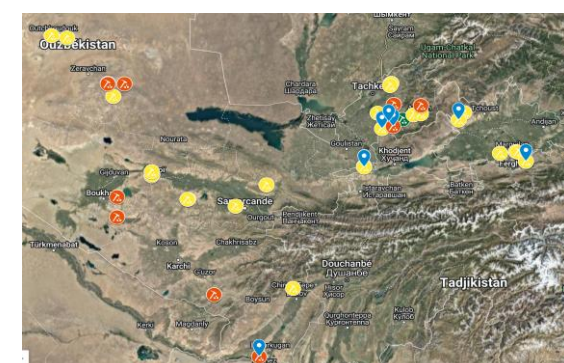
Kyrgyzstan: 62 TMFs with 38 capable of transboundary effects



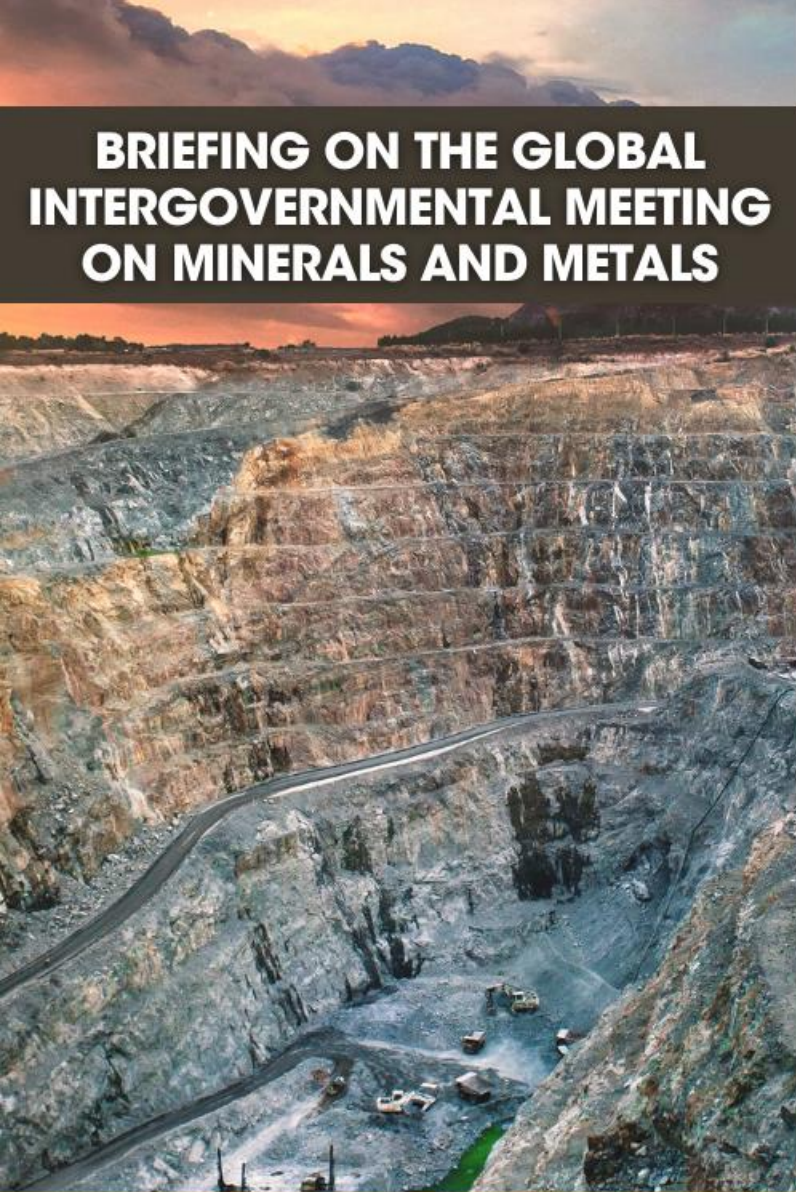
Syr Darya River basin: 61 TMFs with 33 capable of transboundary effects (19 KYR, 10 TAJ, 4 UZB)



Tajikistan: 13 TMFs with 4 capable of transboundary effects



Uzbekistan: 41 TMFs with 10 capable of transboundary effects



BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE

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AGENDA

Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

Opening

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

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- Charlotte NDAKORERWA | Programme Management Officer, UNEP

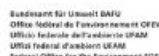
Stakeholders Perspectives

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 - Khadija DRAME | Senegal
- **Tailings Safety** | Claudia KAMKE | UNECE
- **Public Participation** | Teresa MAYR | Aarhus Convention Secretariat
- **Sand** | Pascal PEDUZZI | UNEP GRID-Geneva
- **Youth** | Gyubin HWANG | Children and Youth Major Group to UNEP
- **Private Sector** | Inga PETERSEN | Global Battery Alliance
- **Civil Society** | Jon Angelo BONIFACIO | International People's Conference on Mining

Q&A

Closing

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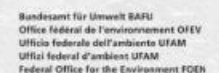
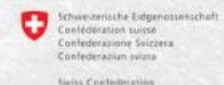
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STAKEHOLDERS PERSPECTIVES

Public Participation

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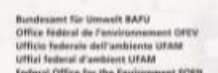
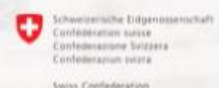



Teresa MAYR

Legal Officer, Aarhus Convention Secretariat



23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE





Public participation in support of sustainability of the management of minerals and metals - role of the Aarhus Convention -

Teresa Mayr
Legal Officer

Aarhus Convention secretariat
Briefing on the Global Intergovernmental
Meeting on Minerals and Metals
23 August 2023

I. Introduction: the Aarhus Convention

Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters

- **Adoption:** 1998, Aarhus, Denmark
- **Entry into force:** 30 October 2001
- **Parties:** 47 (46 States and EU)
- **Accession:** Open globally to any UN Member State
- **Model for other regions:** Escazú Agreement

Three core pillars of the Aarhus Convention



incl. in international forums

- +
 - +
- Obligation to protect environmental defenders
- Obligation not to discriminate based on citizenship, nationality or domicile

II. Public Participation in the domestic/ transboundary context – articles 6, 7 & 8



Public must have the opportunity to effectively participate in:

1. Decision-making to permit **specific activities** which may have a significant effect on the environment
 - E.g. exploitation licenses
2. During the preparation of **plans, programmes & policies** relating to the environment
 - E.g. on sustainable management of minerals
3. During the preparation of **draft legislation** regarding the environment
 - E.g. draft legislation on mining

The Aarhus Model of Public Participation

1. Early, adequate and effective notice
2. Reasonable time-frames when all options are open
3. Access to all relevant information
4. Public entitled to comment/be heard
5. Due account to be taken of public participation
6. Prompt notice of decision
7. If operating conditions are updated or reconsidered, repeat as appropriate

III. Public Participation in International Forums – article 3 (7)

- **Article 3 (7):** Parties “shall promote” the principles of the Convention in international environmental decision-making (UNEA; MEAs, including their implementation) and within the framework of international organizations in matters relating to the environment

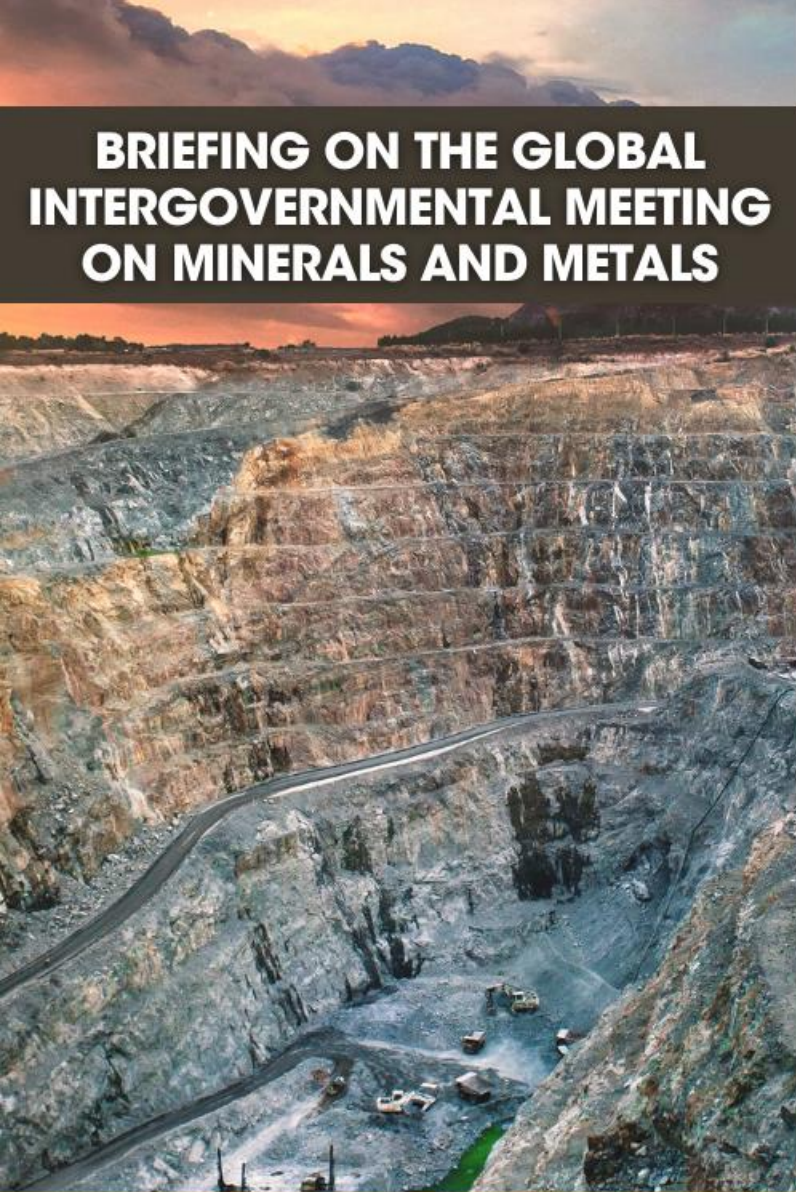
- **Almaty Guidelines on Promoting the Application of the Principles of the Aarhus Convention in International Forums (2005)** provide guidance to Aarhus Parties in the context of:
 1. the development, modification & application of relevant **rules and practices** applied within international forums, e.g. access to documents and meetings, statements by observers.
 2. The treatment of relevant **substantive issues** within those forums.

For further information please contact:

<https://unece.org/environmental-policy-1/public-participation>

**Aarhus Convention secretariat email:
public.participation@un.org**

Thank you for your attention!



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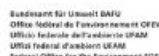
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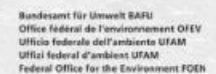
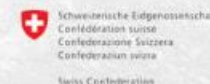
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STAKEHOLDERS PERSPECTIVES

Sand

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE



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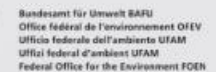
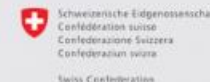


Pascal PEDUZZI

Director, UNEP GRID-Geneva

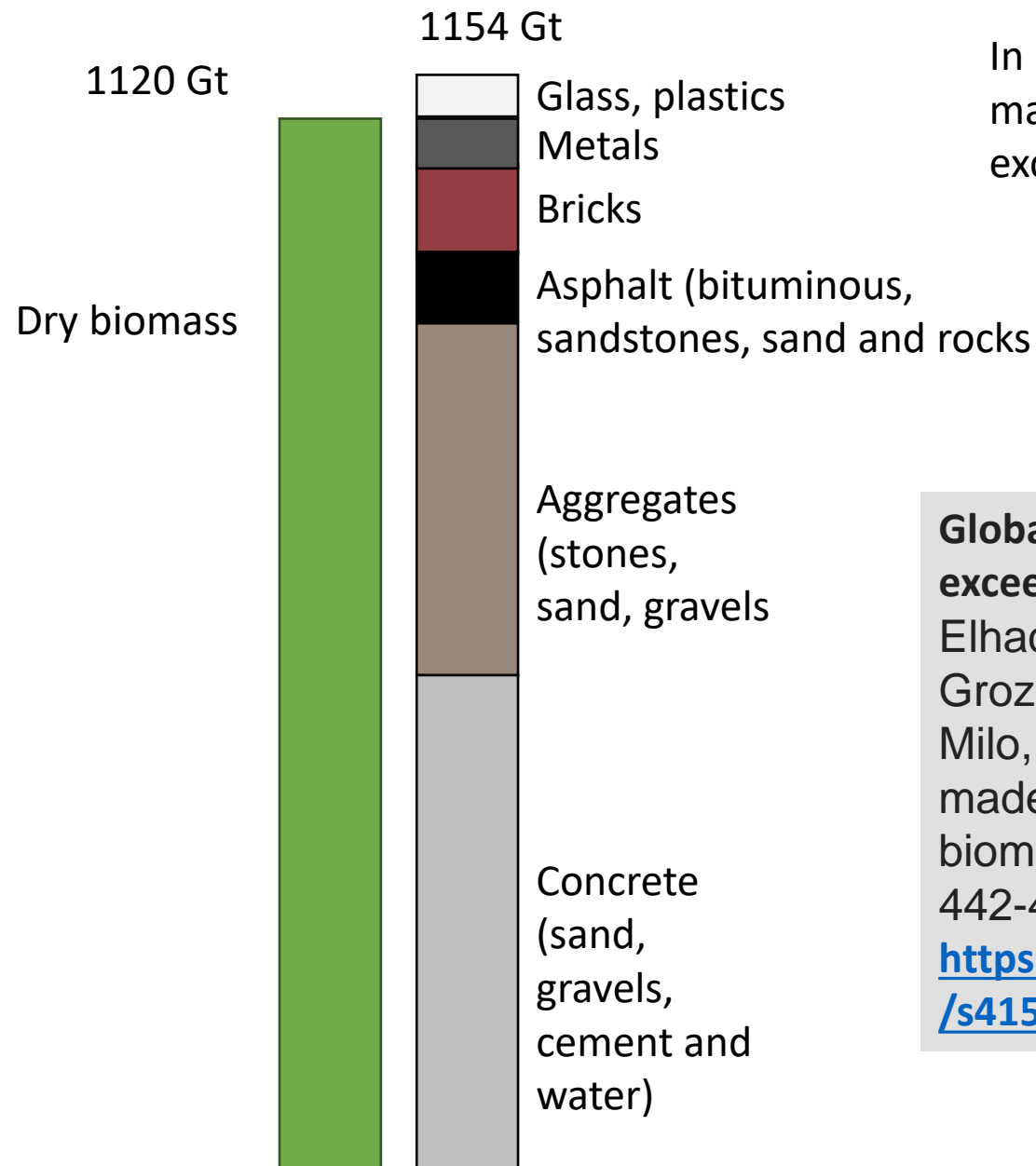


23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE





Support to EA-5, res.12 point 4
**Strengthen scientific, technical and policy
knowledge with regard to sand**



In 2020, the amount of man-made building material, exceeded global living biomass

Global human-made mass exceeds all living biomass
 Elhacham, E., Ben-Uri, L., Grozovski, J., Bar-On, Y. M., & Milo, R. (2020). Global human-made mass exceeds all living biomass. *Nature*, 588(7838), 442-444
<https://www.nature.com/articles/s41586-020-3010-5?s=09>

We are extracting 50 billion tons of sand and gravels per year









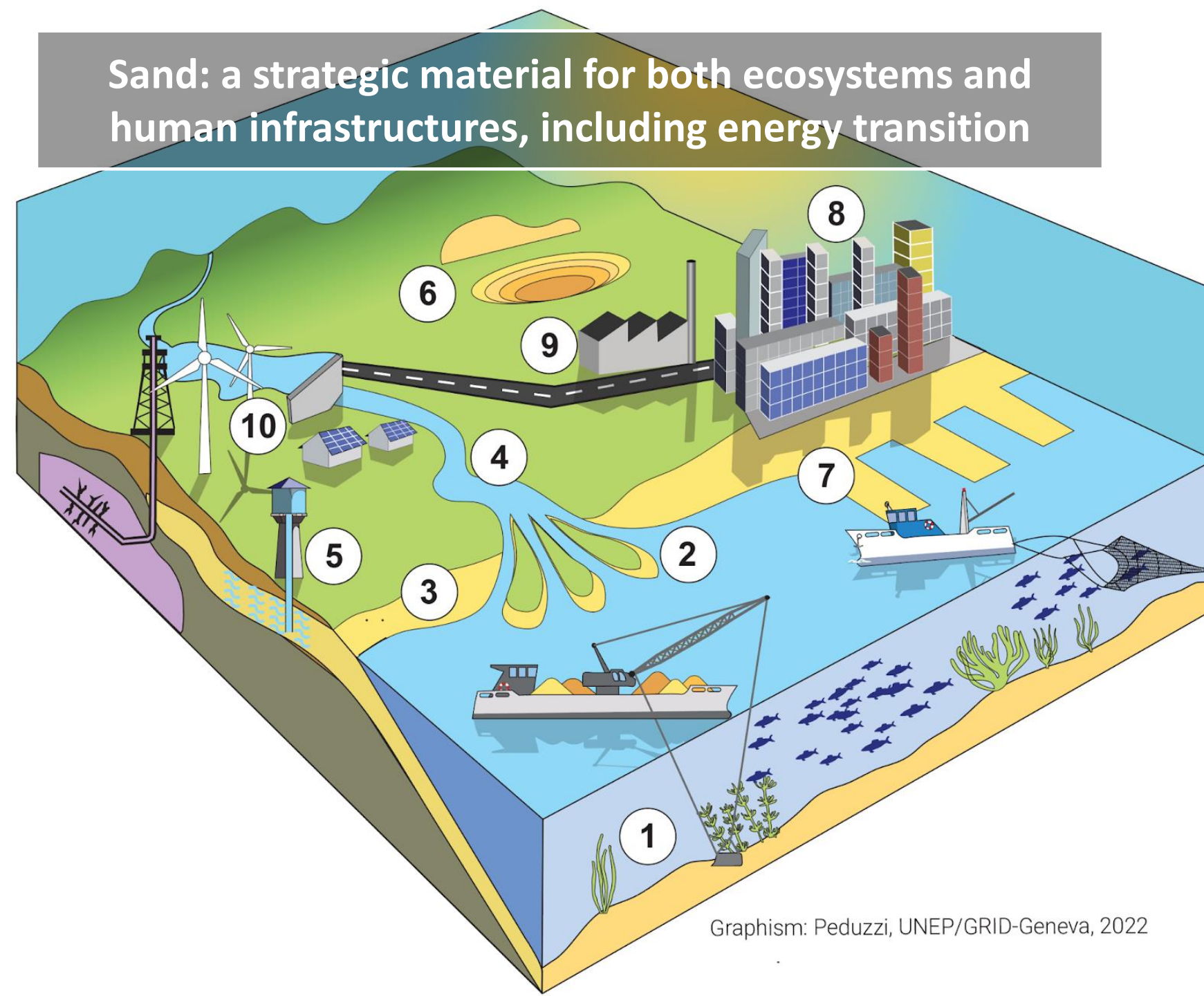
Sand: a strategic material for both ecosystems and human infrastructures, including energy transition

Environment

1. Marine
2. Deltas
3. Beach
4. River
5. Subsurface

Infrastructures

6. Land use
7. Coastal use
8. Urban infrastructures
9. Industrial use
10. Energy



Graphism: Peduzzi, UNEP/GRID-Geneva, 2022

UNEP's reports on the sand issue



UNEP Global Environmental Alert Service (GEAS)
 Taking the pulse of the planet; connecting science with policy
 Website: www.unep.org/geas E-mail: geas@unep.org

March 2014 Home Subscribe Archive
 Thematic focus: Ecosystem management, Environmental governance, Resou

Sand, rarer than one thinks

Sand and gravel are mined world-wide and account for the largest volume of solid material extracted globally. Formed by erosive processes over thousands of years (John, 2009), they are now being extracted at a rate far greater than their renewal. Furthermore, the volume being extracted is having a major impact on rivers, deltas and coastal and marine ecosystems (Figure 1), results in loss of land through river or coastal erosion, lowering of the water table and decreases in the amount of sediment supply. Despite the colossal quantities of sand and gravel being used, our increasing dependence on them and the significant impact that their extraction has on the environment, this issue has been mostly ignored by policy makers and remains largely unknown by the general public.



Why is this issue important?

Globally, between 47 and 59 billion tonnes of material is mined every year (Steinberger sand and gravel, hereafter known as aggregates, account for both the largest share (from fastest extraction increase (Krausmann et al., 2009). Surprisingly, although more sand than any other material, reliable data on their extraction in certain developed countries: recent years (Krausmann et al., 2009). The absence of global data on aggregates mining assessment very difficult and has contributed to the lack of awareness about this issue.

One way to estimate the global use of aggregates indirectly is through the production of concrete (concrete is made with cement, water, sand and gravel). The production of concrete in developed countries and reached 3.7 billion tonnes in 2012 (USGS, 2013a). For each tonne of concrete industry needs about six to seven times more tonnes of sand and gravel (USGS, 2013b). The global use of aggregates for concrete can be estimated at 25.9 billion to 29.6 billion tonnes a year, which represents enough concrete to build a wall 27 metres high by 27 metres wide around the

2019 Sand and Sustainability: Finding new solutions for environmental governance of global sand resources
 UN environment
 United Nations Environment Programme

2022 Sand and Sustainability: 10 strategic recommendations to avert a crisis
 UN environment programme
 50 1972-2022



UN environment programme 50 1972-2022
Harmful Marine Extractives:
 Understanding the risks & impacts of financing non-renewable extractive industries
 Dredging & Marine Aggregate Extraction

UNEP 2014

International Resolutions and Motion

UNITED NATIONS EP

UNEP/EA.4/L.23
Distr.: Limited
9 March 2019
Original: English



**United Nations
Environment Assembly of the
United Nations Environment
Programme**

United Nations Environment Assembly of the
United Nations Environment Programme
Fourth session
Nairobi, 11–15 March 2019

Mineral resource governance*

The United Nations Environment Assembly,

Recalling the principles and purposes of the Charter of the United Nations,

Recalling also the Stockholm Conference on the Human Environment 1972, its Action Plan and recommendation 56 on mining and mineral resources,

Reaffirming General Assembly resolution A/RES/37/7 of 28 October 1982, entitled “World Charter for Nature” that states that “non-renewable resources (...) shall be exploited with restraint, taking into account their abundance, rational possibilities of converting them for consumption, and the compatibility of their exploitation”,

Recalling the Berlin II Guidelines 2002 and their Fundamental Principles for the Mining Sector, which states that governments, mining companies and minerals industries should recognize environmental management as a high priority, establish environmental accountability, and ensure the participation of interested parties,

Reaffirming the Johannesburg Plan of Implementation of the World Summit on Sustainable Development, adopted on 4 September 2002, which recognized that minerals are essential for modern living and sustainable development,

Reaffirming also the outcome document of the United Nations Conference on Sustainable Development, entitled “The future We Want”, General Assembly resolution A/RES/66/288 adopted on 27 July 2012, which stresses the major contribution of minerals and metals to modern societies and which calls upon governments and businesses to promote the continuous improvement of accountability and transparency,

Recalling United Nations General Assembly resolution A/RES/70/1 of 25 September 2015, entitled “Transforming our world: the 2030 Agenda for Sustainable Development”, in particular Sustainable Development Goal 7 “Affordable and clean energy” and Sustainable Development Goal 12 “Responsible consumption and production” and reminding the important contribution of mining to their achievement,

Noting that clean technologies, highly depending on metals and minerals, are important to combat climate change issues,

* The present document is being issued without formal editing.

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3. INVITE

4. CALLS
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projects)

UNEA 5.2, res. 12.

4. Requests the Executive Director, through the Global Resource Information Database (GRID-Geneva), to strengthen **scientific, technical and policy knowledge with regard to sand**, and to support global policies and action regarding the environmentally sound extraction and use thereof;

UNITED NATIONS



UNEP/EA.5/Res.12

Distr.: General
7 March 2022

EP

Global Sand Observatory

ORGANISATIONAL ACTIVITIES (Bureau)

- Coordination
- Networking (maintenance, growth, partnerships)
- Communication (media, web, webinars, conferences)
- Integration and dissemination of contents (database, web)
- Fund raising
- Advocacy



SCIENCES

- Monitoring and mapping
- Monitoring extraction, impacts and use
 - Mapping demand and resources
 - Marine Sand watch



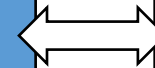
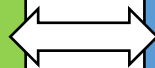
POLICY (and standards)

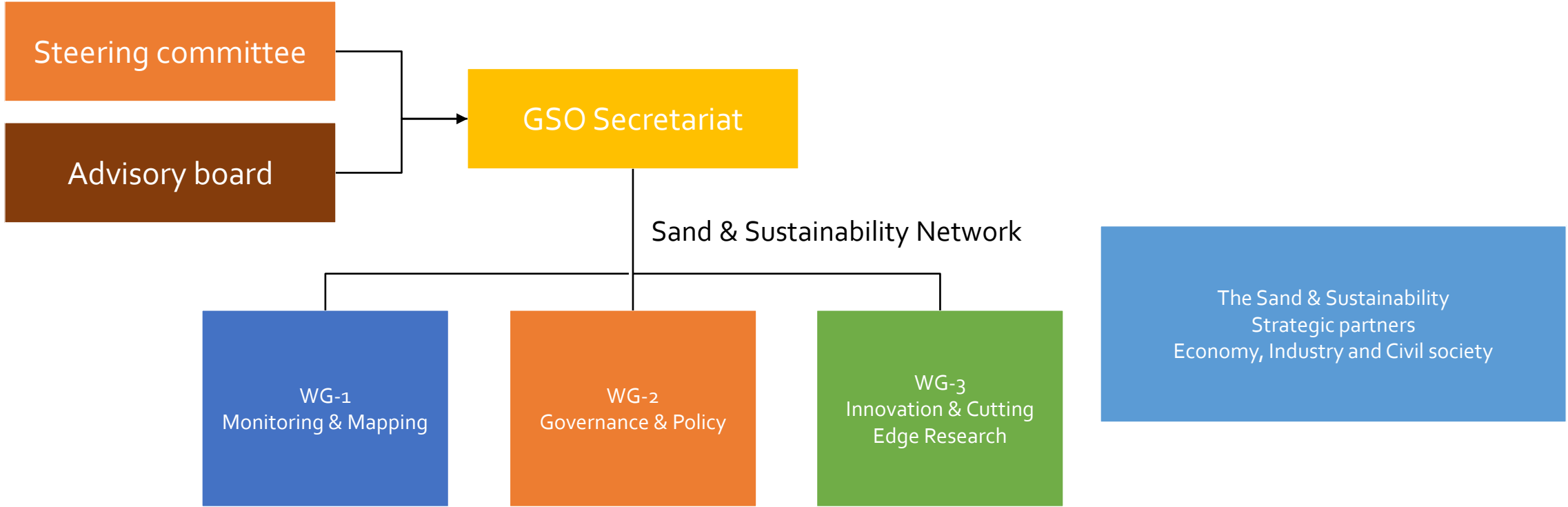
- Governance & Best practices
- Industry standards (building, extractives)
 - Policy – regulation, Environmental mgt
 - Finances + development

TECHNOLOGY

Technical solutions

- Harvesting existing solutions
- Innovation
- Dissemination
- Reducing, replacing, substitution, reuse, restores, recycle...

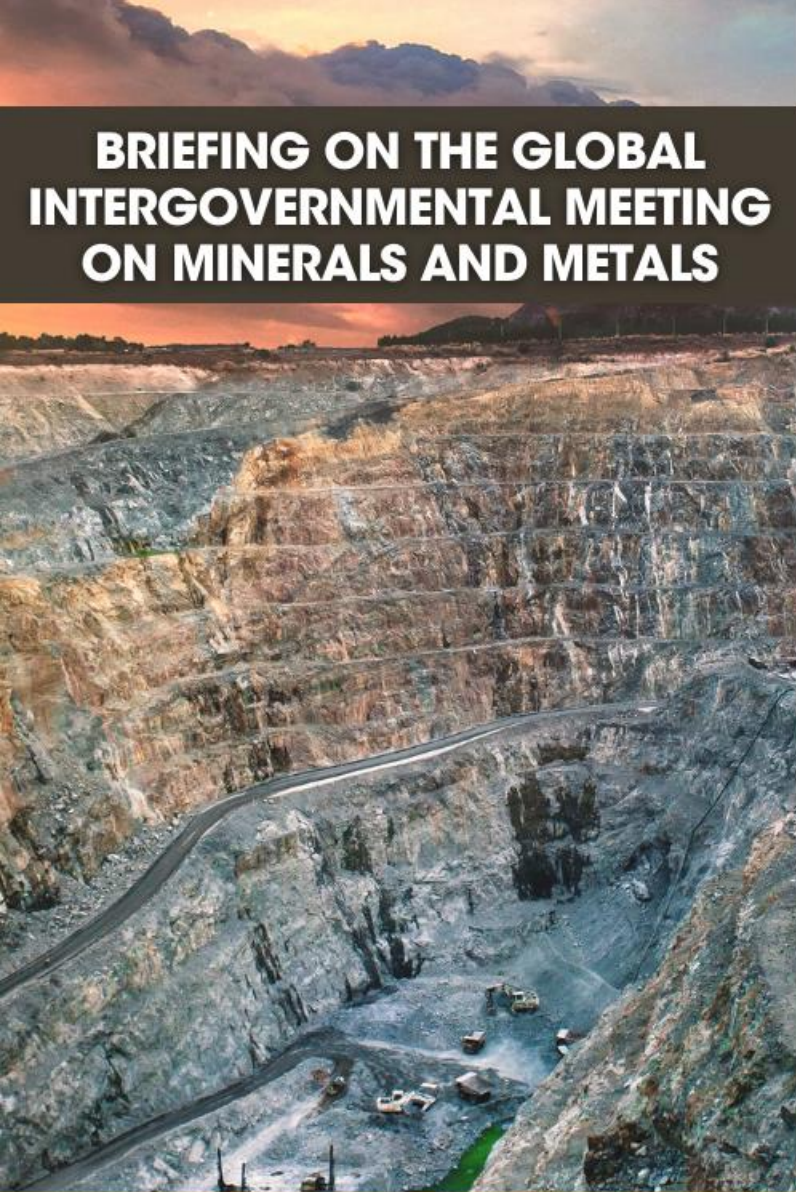






GLOBAL MARINE SAND WATCH

Launch at the WRF'23
On 6 September 2023



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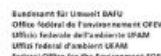
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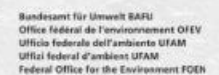
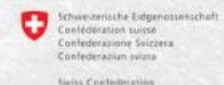
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STAKEHOLDERS PERSPECTIVES

Youth

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Gyubin HWANG

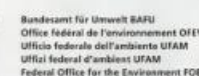
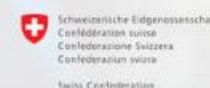
Global Focal Point,
Children and Youth Major Group to UNEP



CHILDREN AND YOUTH
MAJOR GROUP TO UNEP

Photo Credit: IISD Earth Negotiation Bulletin

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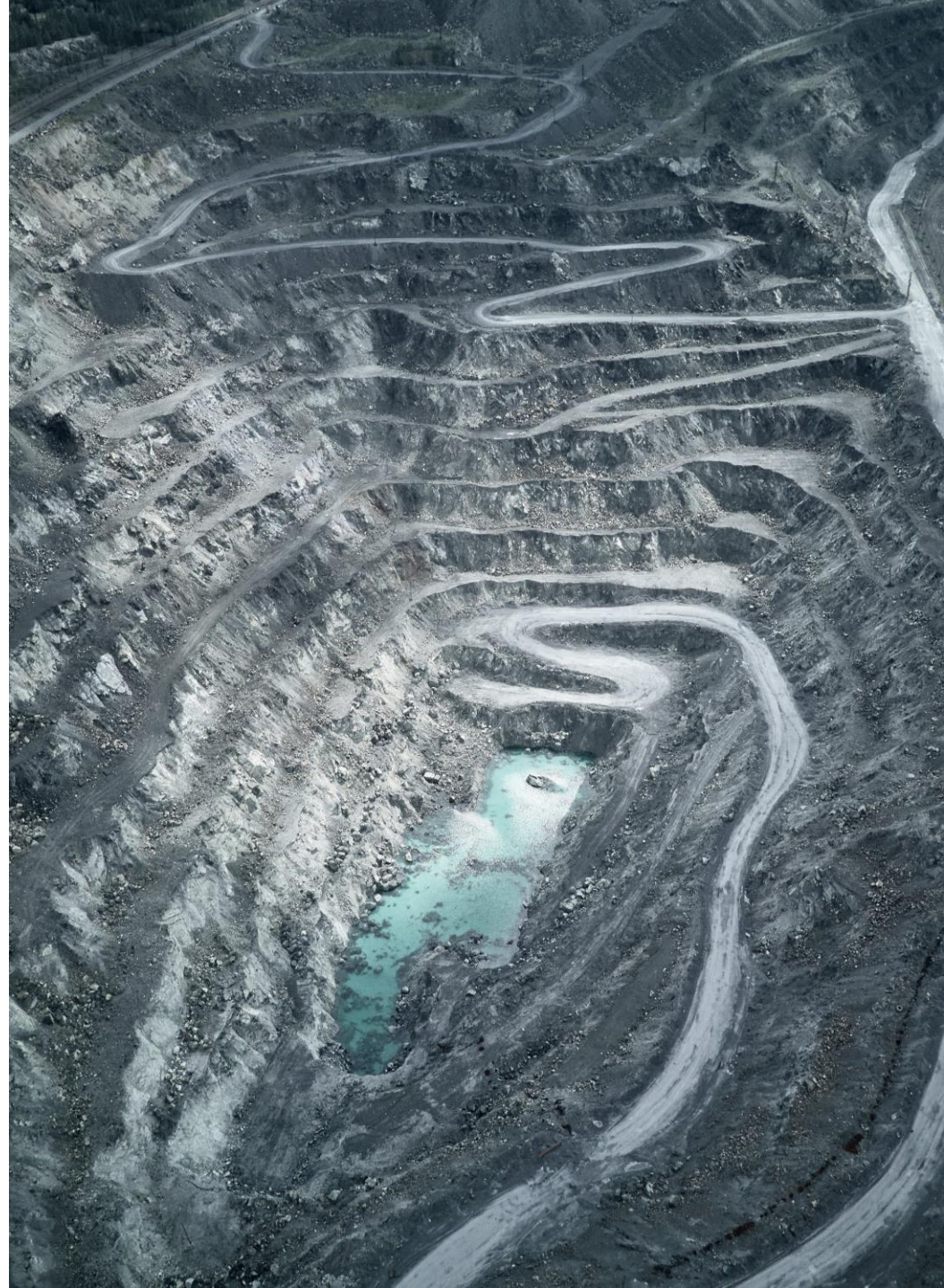


CHILDREN AND YOUTH
MAJOR GROUP TO UNEP

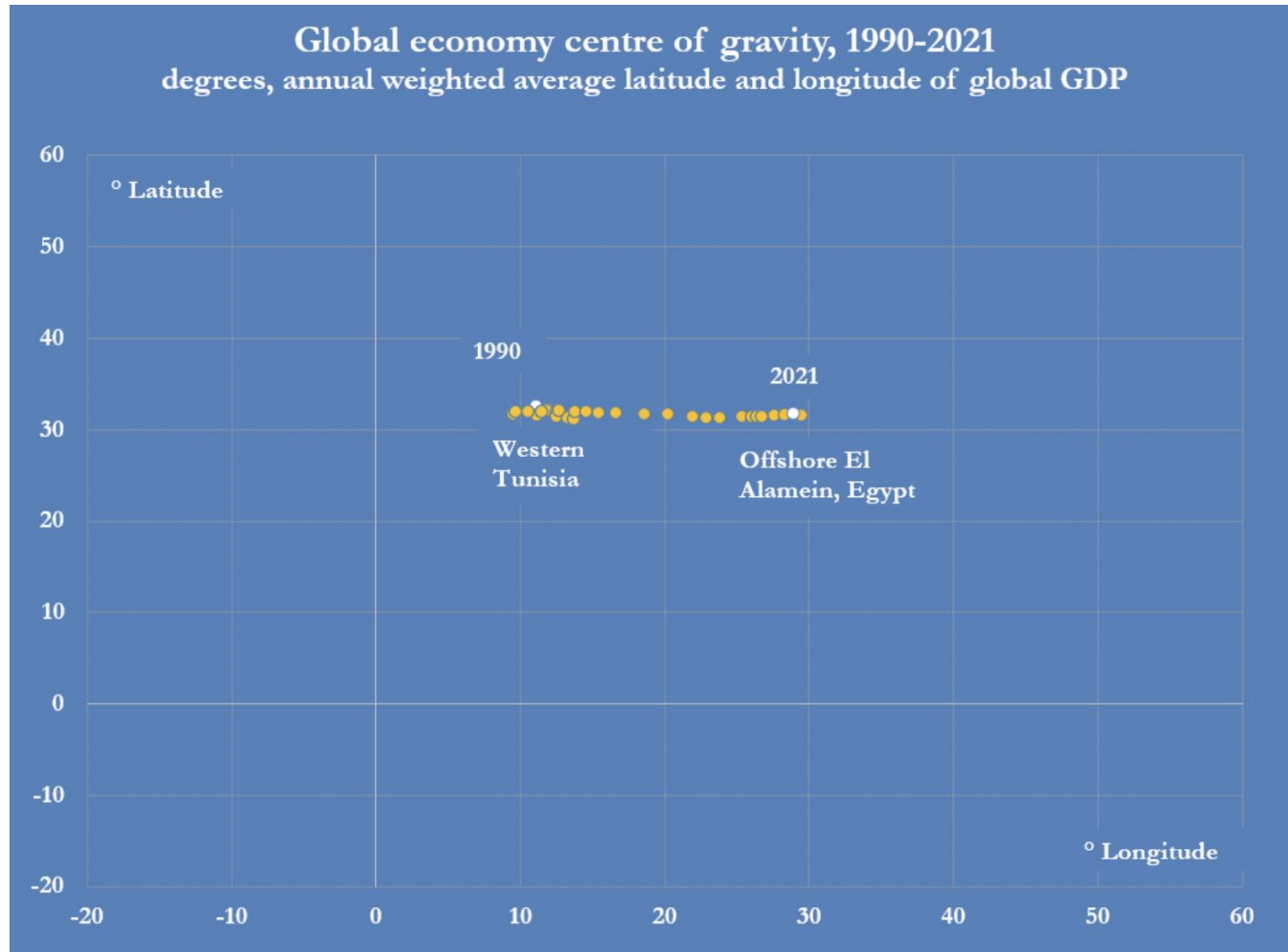
Shaping a Sustainable Future: *Youth Engagement and Intergenerational Equity in Minerals and Metals Management*

23 August 2023

Gyubin Hwang
Global Coordinator,
Children and Youth Major Group to UNEP



The future of mineral resource governance skews young and from emerging economies



Empowering key groups

1. Future generations:

- Implementing policies that reduce resource depletion and environmental degradation, providing a healthy and resource-secure future.
- Prioritizing sustainable resource governance and energy transition policies that safeguard the planet for future generations.

2. Global South:

- Recognizing and addressing historical inequities in resource use and natural impact, with a focus on sustainable development in the Global South.
- Co-developing successful strategies and technologies with a focus on innovations in renewable energy and resource management.

“... developing non-prescriptive proposals to enhance the environmental sustainability of minerals and metals along their full life cycle...”

Role of youth

Idea

Impact

Advocates for Circular Economy Principles



Encourage **youth-led initiatives to promote circular economy principles** in local communities, businesses, and industries.

Youth can **influence the way resources are managed** throughout their lifecycle thereby reducing environmental impact.

Drivers of Technological Innovation



Develop **innovation challenges and research grants** specifically for young researchers focused on sustainable technologies in minerals and metal management.

Harnessing innovation and technology development to **enhance the environmental sustainability** of minerals and metals by reducing energy use, emissions, and waste.

Negotiators and Drivers of Policy



Create **platforms for young people to engage with policymakers** and industry leaders, such as youth representation on governance boards and public consultations.

We can **directly influence policies and practices** that determine how minerals and metals are managed, driving changes that enhance environmental sustainability.

The course ahead: Implications for a commodities-heavy future

Technological Feasibility

What role can young innovators play in developing technologies that make a commodity-heavy future more sustainable and less environmentally damaging?

Economic Implications

What strategies can be implemented to ensure young people benefit economically from a commodity-heavy future, while also promoting sustainability?

Energy Security

How can energy security be maintained during the transition? Are there risks associated with dependency on certain types of natural resources and mineral commodities?

Policy and Regulatory Support

What kinds of policies and regulatory frameworks are needed to support a more resource-efficient economy even as the global population approaches 10b?

Timeframe

How can we incorporate a youth perspective in planning and decision-making to ensure sustainability over the long run?

Public Perception and Acceptance

What role can young people play in shifting public acceptance towards less resource-intensive lifestyles and economies?

Equity and Justice

What steps can be taken to promote justice for young people in regions that bear the brunt of resource extraction and related environmental impacts?

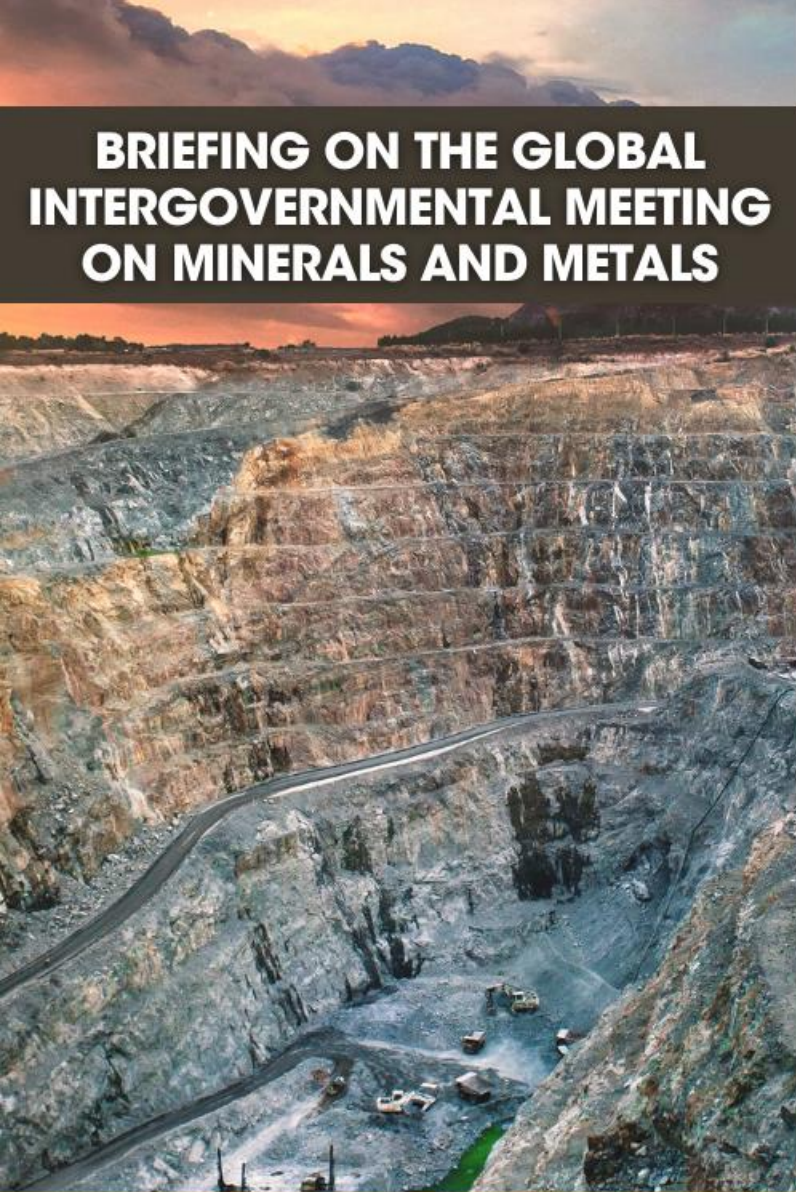
Global Cooperation

How can young people contribute to fostering global cooperation in managing a commodity-heavy future? What platforms or mechanisms can facilitate youth participation in international dialogues on resource governance?

← Techno-economic →

Key considerations

→ Socio-political →



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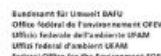
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 - Khadija DRAME | Senegal
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Q&A

Closing

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland

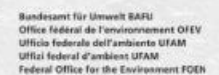
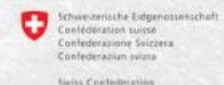


BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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STAKEHOLDERS PERSPECTIVES **Private Sector**

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE





BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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Inga PETERSEN

Executive Director, Global Battery Alliance



Photo Credit: IISD/ENB | Diego Noguera



BATTERY SYSTEM

The Global Battery Alliance Battery Passport

August 2023

**GLOBAL
BATTERY
ALLIANCE**

BATTERIES POWERING
SUSTAINABLE DEVELOPMENT

The GBA is the global public-private platform to enable sustainable EV and storage batteries by 2030

About

The **Global Battery Alliance (GBA)** is a multi-stakeholder, pre-competitive partnership of 120+ businesses, governmental and non-governmental organizations founded in 2017 to help establish a sustainable battery value chain by 2030

Vision

The GBA vision is that batteries power sustainable development towards three overarching outcomes:

1. Establish a **circular battery value chain** as a major driver to achieve the Paris Agreement
2. Establish a **low-carbon economy** in the value chain, create new jobs and additional economic value
3. **Safeguard human rights** and economic development consistent with the UN Sustainable Development Goals

Mission



- Establish trusted criteria, data, and benchmarks for a sustainable and transparent battery market
- Mobilize collective action to improve the environmental, social, and governance footprint across the value chain
- Communicate with one voice and with strong media visibility

Goals

To realize the vision, the GBA pursues two sets of initiatives:

- Establishing a digital Battery Passport: comprehensive lifecycle KPI for “sustainable” batteries to measure, track and improve value chain performance, including via a “quality seal”
- Establishing partner-led coalitions to address three challenge areas across the battery lifecycle
 - Responsible sourcing
 - Circular economy
 - Carbon abatement potential of batteries

2030 Vision analytics captured in the 2019 report and updated in 2023





Insight Report

A Vision for a Sustainable Battery Value Chain in 2030

Unlocking the Full Potential to Power Sustainable Development and Climate Change Mitigation

September 2019



Today over 140+ organizations support the GBA

Public organizations



NGOs and foundations



Technology Partners



Industry and business



In collaboration with



Associations



Knowledge partners



Supported by



The GBA community has developed 10 Guiding Principles for a sustainable battery value chain

Establish a circular battery value chain as a major driver to achieve the Paris Agreement



- 1 Maximizing the productivity of batteries in their first life
- 2 Enabling a productive and safe second life use
- 3 Ensuring the circular recovery of battery materials

Establish a low carbon economy in the value chain, create new jobs and additional economic value



- 4 Disclosing and progressively decreasing greenhouse gas emissions
- 5 Prioritizing energy efficiency measures and substantially increase the use of renewable energy as a source of power and heat when available
- 6 Fostering battery-enabled renewable energy integration and access with a focus on developing countries
- 7 Supporting high quality job creation and skills development

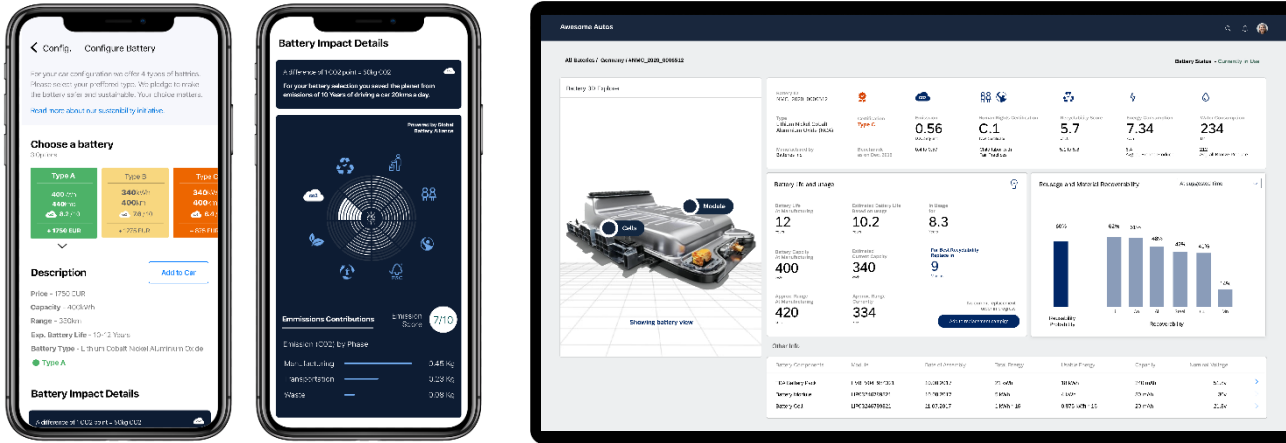
Safeguard human rights and economic development consistent with the UN Sustainable Development Goals



- 8 Immediately and urgently eliminating child and forced labour, strengthening communities and respecting the human rights of those employed by the value chain
- 9 Fostering protection of public health and the environment, minimizing and remediating the impact from pollution in the value chain
- 10 Supporting responsible trade and anti corruption practices, local value creation and economic diversification

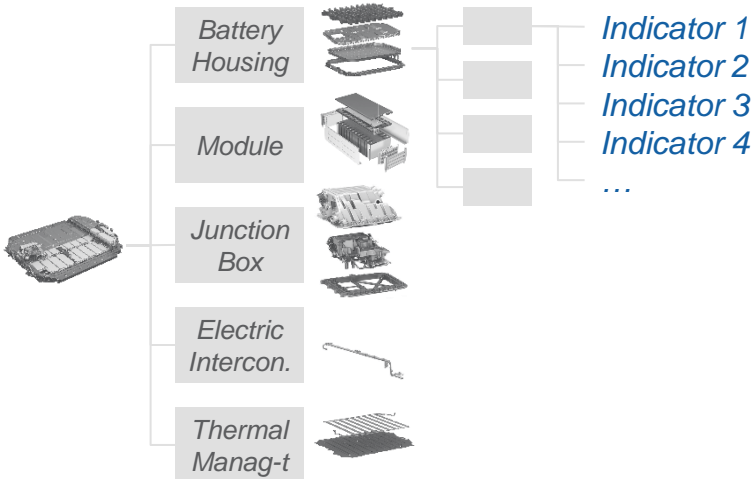
What does GBA actually do?

Action partnerships: Battery Passport

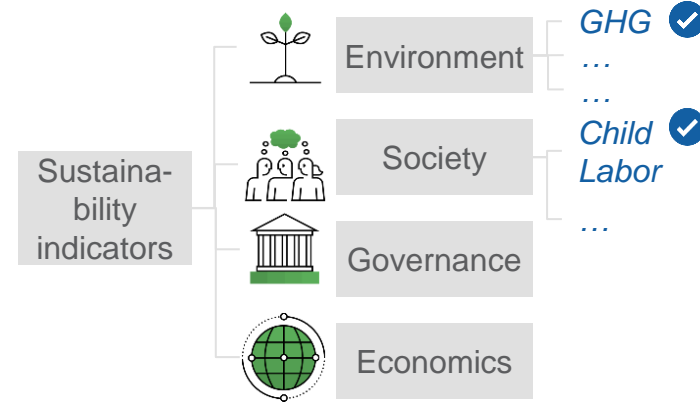


The Battery Passport is the key instrument to enable the development a sustainable, circular, and just battery value chain delivering on GBA's 10 principles by **monitoring the sustainability performance** based on data **U**nderstandable, **S**tandardized, **A**ccurate, **D**ifferentiating, **A**uditable, **C**omprehensive and providing insights to **trigger improvement action**

Indicators follow physical structure



GBA community develops indicators



29 indicator developed, **focus on 2** of them now

GBA manages access to data

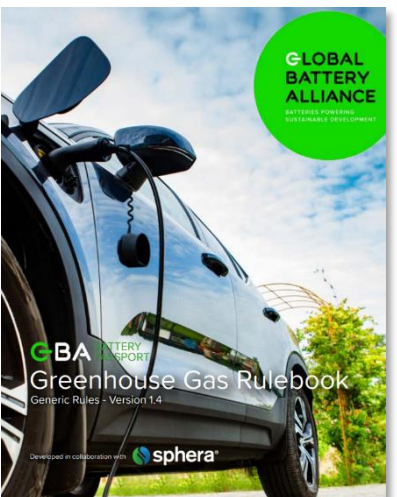
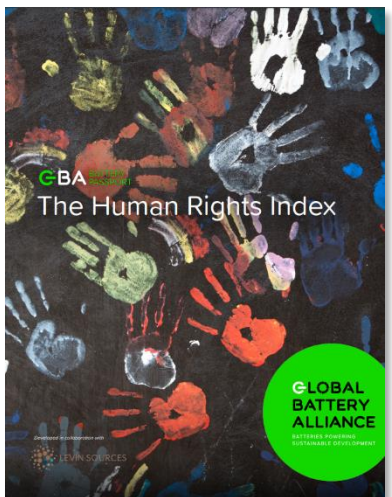
GBA BP is to assure proper data aggregation and representation mechanisms, e.g.:

- **OEM** inspects specific model/product types produced and explore its end-to-end value-chain view to discover bottlenecks in emissions and data compliance of suppliers;
- **NGOs and Civil Society** access the aggregated information on GBA Battery Passport KPIs and allow drill down, maintaining the privacy of participating partners intact

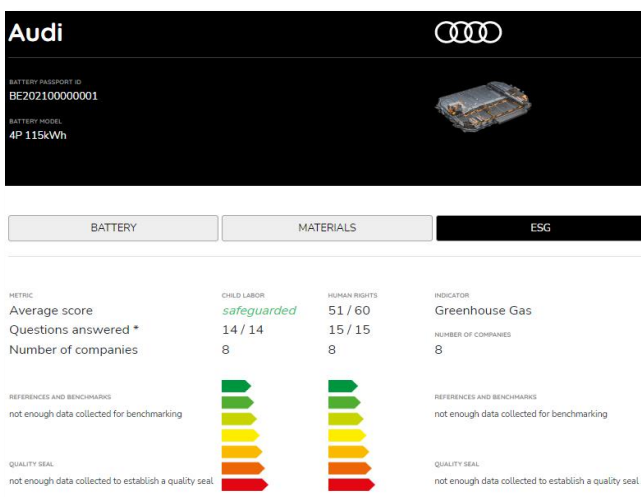
We have successfully launched the world's first Battery Passports in Davos



Rulebooks and PoC learnings



Tangible results



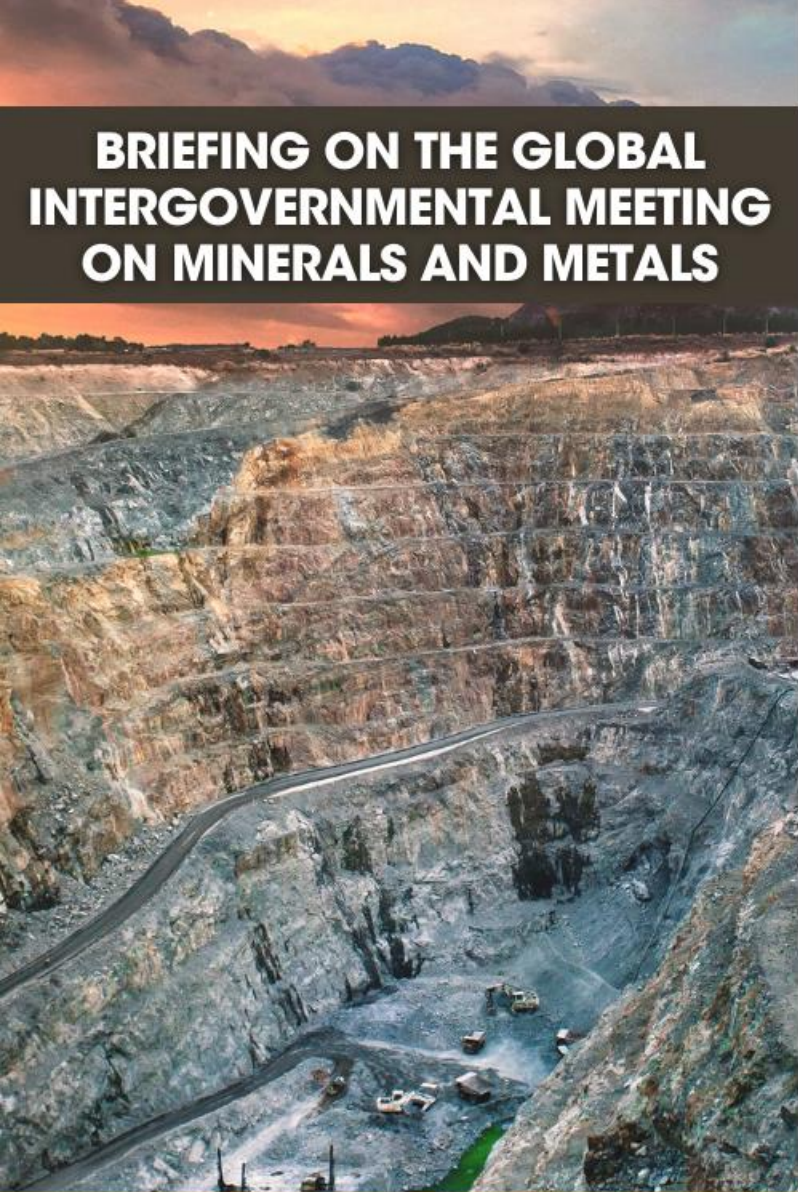
Two high-level presentations



Major high-level learnings from the pilots are published on the GBA website



- 1 **Product scoring** against qualitative indicators needs to be differentiated, and risk saliency based to unlock issues across the value chain
- 2 **Data governance** requires significant regulatory action to complement general data governance discussion. The GBA is uniquely placed to leverage its convening power for data governance discussion and policy development.
- 3 **New fields of competition.** The GBA Battery Passport can enable new ways of product competition based on sustainability performance.
- 4 **Technology readiness.** General readiness of Track & Trace instruments will need to be complemented with interoperability as a core component of business models
- 5 **Establishing trust.** The value of the BP lies not only in measuring sustainability performance or how to implement it technologically. Establishing a trust-worthy interplay among all ecosystem participants proved to be the most significant challenge to address



BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE

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AGENDA

Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

Opening

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

Update on Preparations: Outcomes of the Regional Consultations and Presentation of the Background Document for the Intergovernmental Meeting on Minerals and Metals

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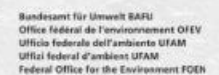
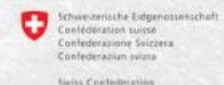
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STAKEHOLDERS PERSPECTIVES Civil Society

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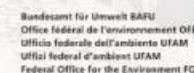
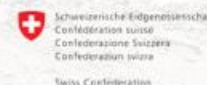


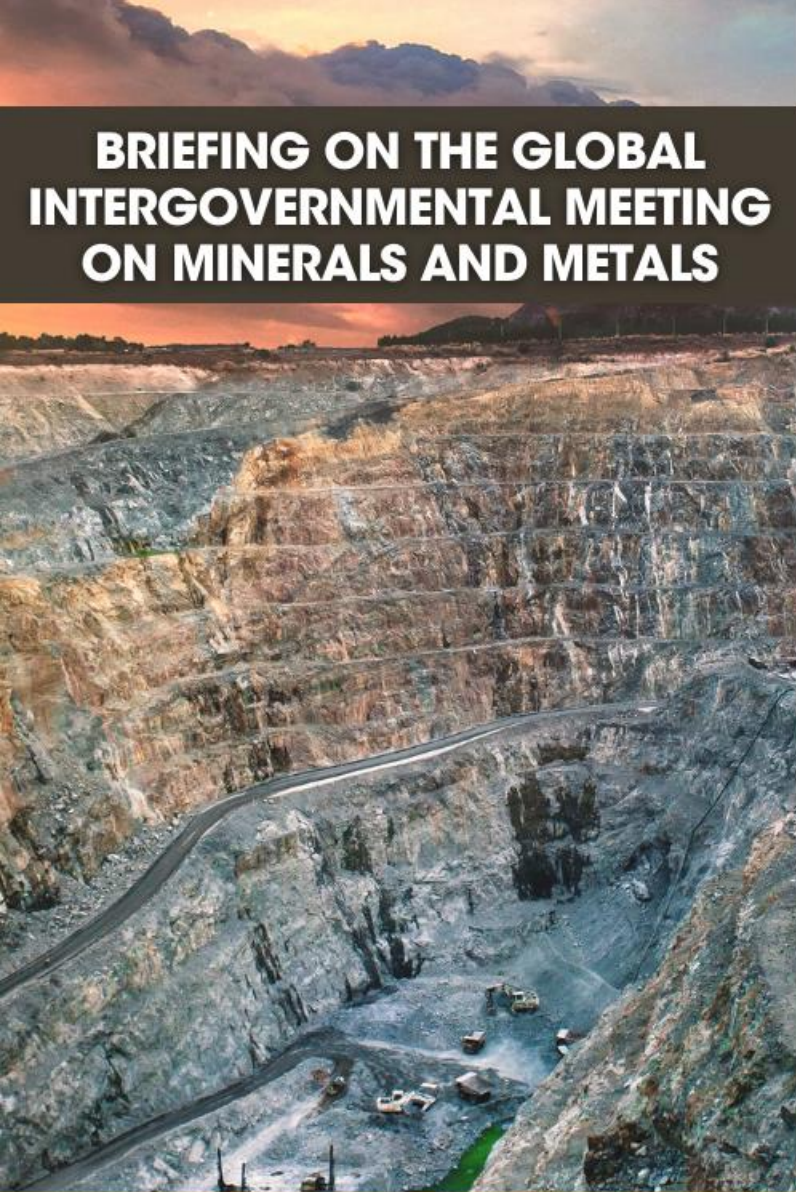
Jon Angelo BONIFACIO

Spokesperson,
International People's Conference on Mining



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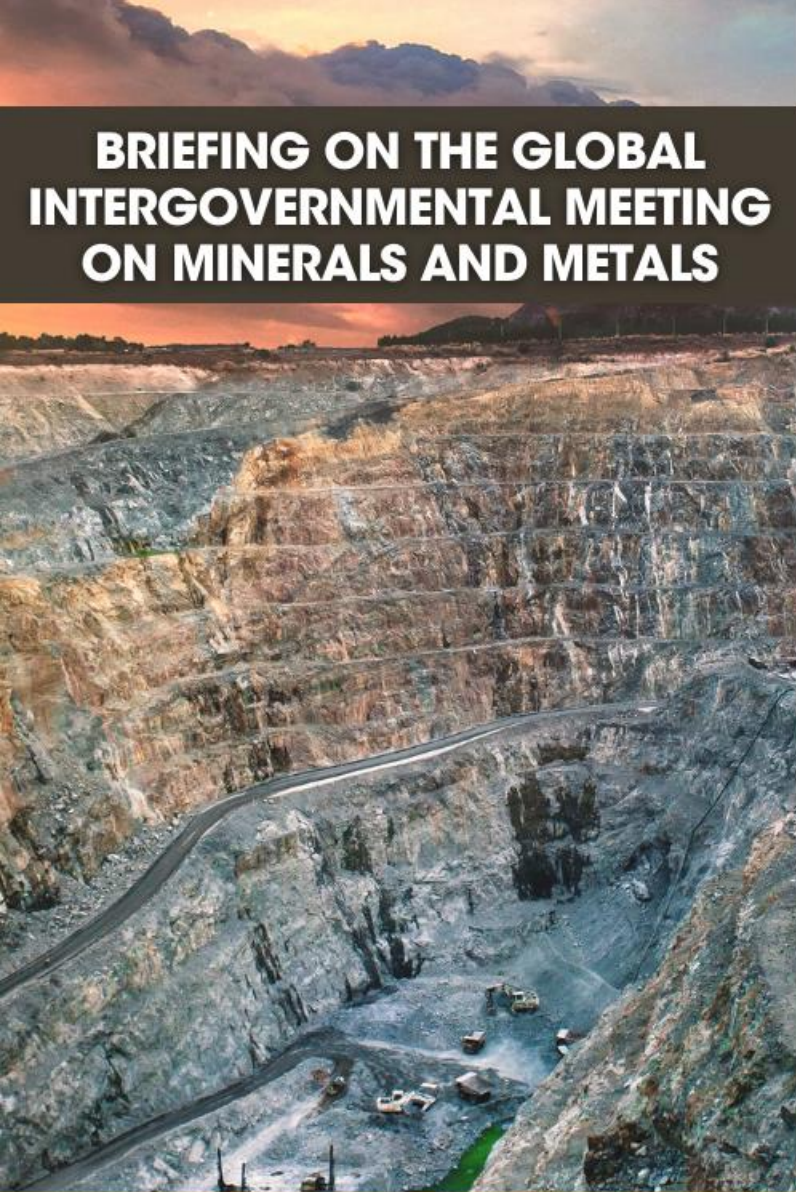


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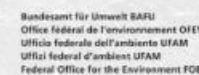
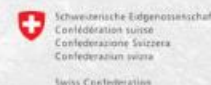
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CLOSING

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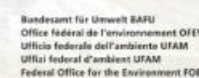
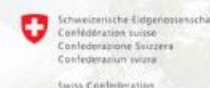
Martine ROHN-BROSSARD

Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Co-Chair of the Process

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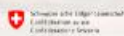


BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

THANK YOU!



Martine ROHN-BROSSARD



Deputy Head, International Affairs Division,
Federal Office for the Environment, Switzerland



Elisa TONDA



Chief, Resources and Markets Branch,
UN Environment Programme



Charlotte NDAKORERWA



Programme Management Officer,
UN Environment Programme



Gabriela ENCINA VERA



Chief of Sustainable Development Division,
Ministry of Mining, Chile



Khadija DRAME



Deputy Coordinator of Legal Affairs Unit, Ministry
of the Environment and Sustainable
Development, Senegal



Claudia KAMKE



Environmental Affairs Officer, Convention on the
Transboundary Effects of Industrial Accidents,
UN Economic Commission for Europe



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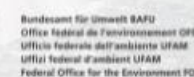
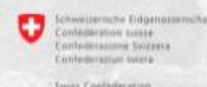
Spokesperson, International People's
Conference on Mining



Arnold KREILHUBER



Director, Europe Office, UN Environment
Programme | Moderator



WHAT'S NEXT?

genevaenvironmentnetwork.org



25-29 September 2023
Bonn, Germany

CONFERENCE
Briefing on the 5th session of the International Conference on Chemicals Management (ICCM5)
24 AUG 2023 11:00 – 12:30
International Environment House II (Chemin de Balexert 7-9, Châtelaine) & Online | Webex
GEN, SAICM

- Chemicals and Pollution | Health and Environment
- SDG3 | SDG12



CONFERENCE
Water for Shared Prosperity: From New York to Bali | Briefing Ahead of the 10th World Water Forum Stakeholder Consultation
30 AUG 2023 11:00 – 12:30
Palais des Nations & Online | Webex
Indonesia, GEN

- Water | Climate
- SDG6 | SDG13 | SDG14



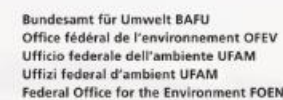
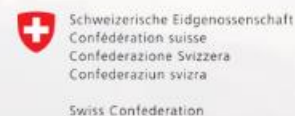
CONFERENCE
Science-Policy Panel on Chemicals, Waste and Pollution Prevention: Linking Science and Action Using a Life-Cycle Approach | WRF2023 Lab / Road to OEWG 2 Series
06 SEP 2023 11:00 – 12:30
CICG & Online | Webex
OEWG SPP CWP GEN

- Chemicals and Pollution | Science
- SDG3 | SDG12



CONFERENCE
Launch of the Marine Sand Watch: Monitoring Marine Sand Extraction | WRF23 Lab
06 SEP 2023 13:30 – 15:00
CICG & Online | Webex
UNEP/GRID-Geneva

- Nature
- SDG14



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