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GLOBAL TAILINGS REVIEW



ORIGINS OF THE REVIEW

- One of the worst mining tragedies occurred in January 2019 when a tailings storage facility in Brumadinho, Brazil, collapsed. The disaster devastated the local community, resulting in the deaths of 248 people (as of September 2019).
- The disaster marked a watershed moment for the mining sector and highlighted the urgent need for an industry response in the form of a benchmark global standard on the management of tailings facilities.
- In March 2019, the International Council on Mining & Metals (ICMM), the United Nations Environment Programme (UNEP) and the Principles for Responsible Investment (PRI), announced they would co-convene a global tailings review to establish an international standard on tailings facilities.

OBJECTIVE

Develop a Global Tailings Standard that improves the safety of tailings facilities by mandating a number of step-change improvements including but not limited to:

- Establish a zero-harm approach to tailings management across the lifecycle;
- Mandate the use of a consequence-based tailings facility classification system;
- Design a system for credible, independent reviews;
- Improve emergency planning and preparedness;
- Strengthen accountability & corporate governance;
- Enhance public disclosure.

CO-CONVENORS



LIGIA NORONHA
Director, Economy
Division



ELISA TONDA
Head, Consumption & Production Unit



JOHN HOWCHIN
Secretary-General, Council on Ethics
Swedish National Pension Funds



ADAM MATTHEWS
Director, Ethics & Engagement,
Church of England



TOM BUTLER
CEO



AIDAN DAVY
COO

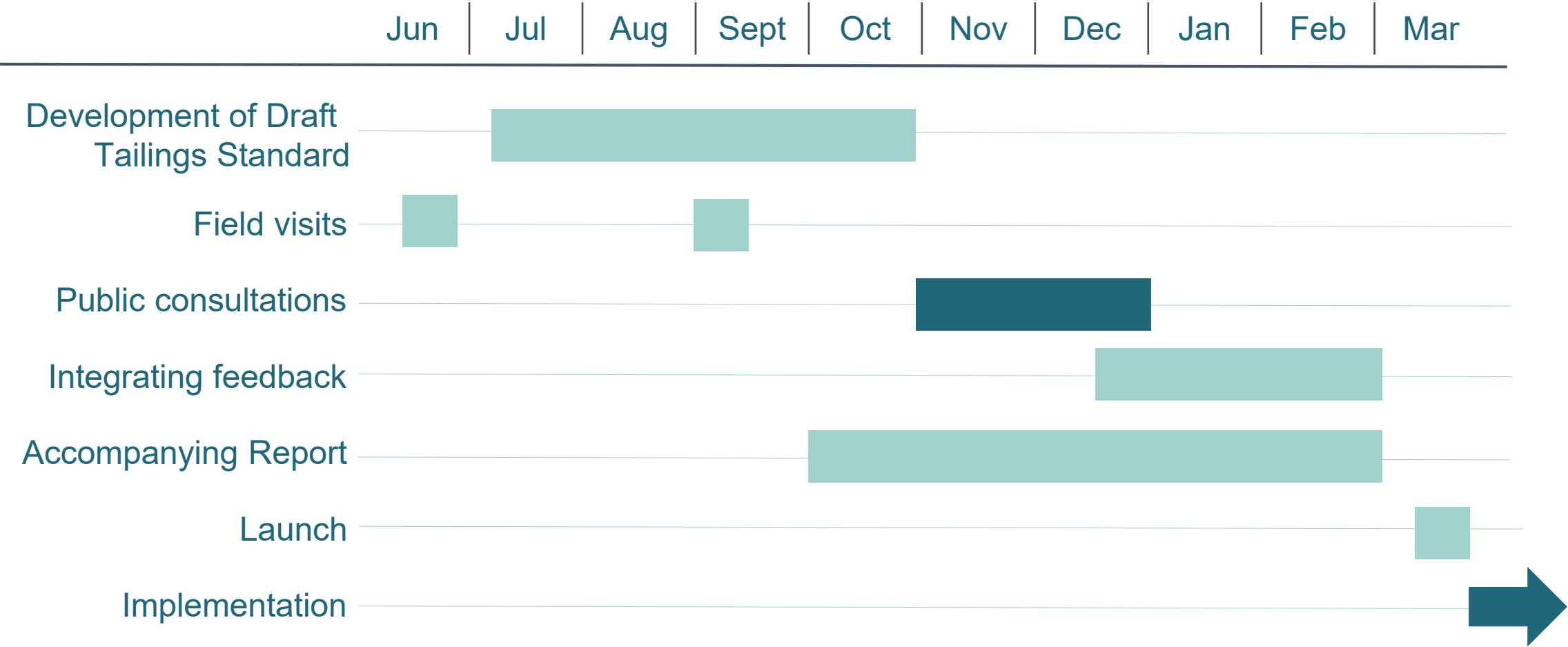
THE CHAIR

- Studied environmental sciences, engineering and economics at Swiss Federal Institute of Technology (SFIT).
- Founder and leader of consultancies in environmental management and problem solving.
- Director General of the Federal Office for the Environment with for a wide remit, ranging from environmental protection and climate policy to forest management and natural hazards.
- State Secretary for the Environment, representing Switzerland on environment-related international negotiations including the Board of the Global Environmental Facility and the Green Climate Fund (GCF) Committee.
- Since 2016, Professor for *Green Economy and Resource Governance*, and head of the International Risk Governance Center Ecole Polytechnique Fédérale de Lausanne (EPFL).



Dr Bruno Oberle
Chair, Global Tailings Review

CURRENT EXECUTION PLAN



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CONSULTATION

CONSULTATION

- **Objective:** To solicit feedback from interested and affected stakeholders that informs and enriches the draft Standard.
- **When?** Consultation period in Nov – Dec 2019
- **How?** Online participation supplemented by in-country consultations in Australia, Chile, China, Ghana, Kazakhstan and South Africa. See www.globaltailingsreview.org for access to the online survey and further information.

CONSULTATION

Online:

- Quantitative assessments questions & free form comments on specific elements of the draft Standard.
- Invitation to submit suggestions on content for the accompanying report.
- Option to attach a file(s) with feedback and/or send an email to the Global Tailings Review.

In-country:

- Workshop format focussed on discussion and active engagement.
- Separate workshops for discrete audiences.

Other:

- Public webinars on themes addressed by the draft Standard.
- Global Tailings Review representation at conferences.

CONSULTATION

"Through the consultation process, we will expose our draft Standard to the criticisms, suggestions and feedback. We ask our stakeholders to participate in our consultation, to spread the word about the work of the Global Tailings review and to support our in-country consultation process so that the feedback we receive captures the perspective of key stakeholders."



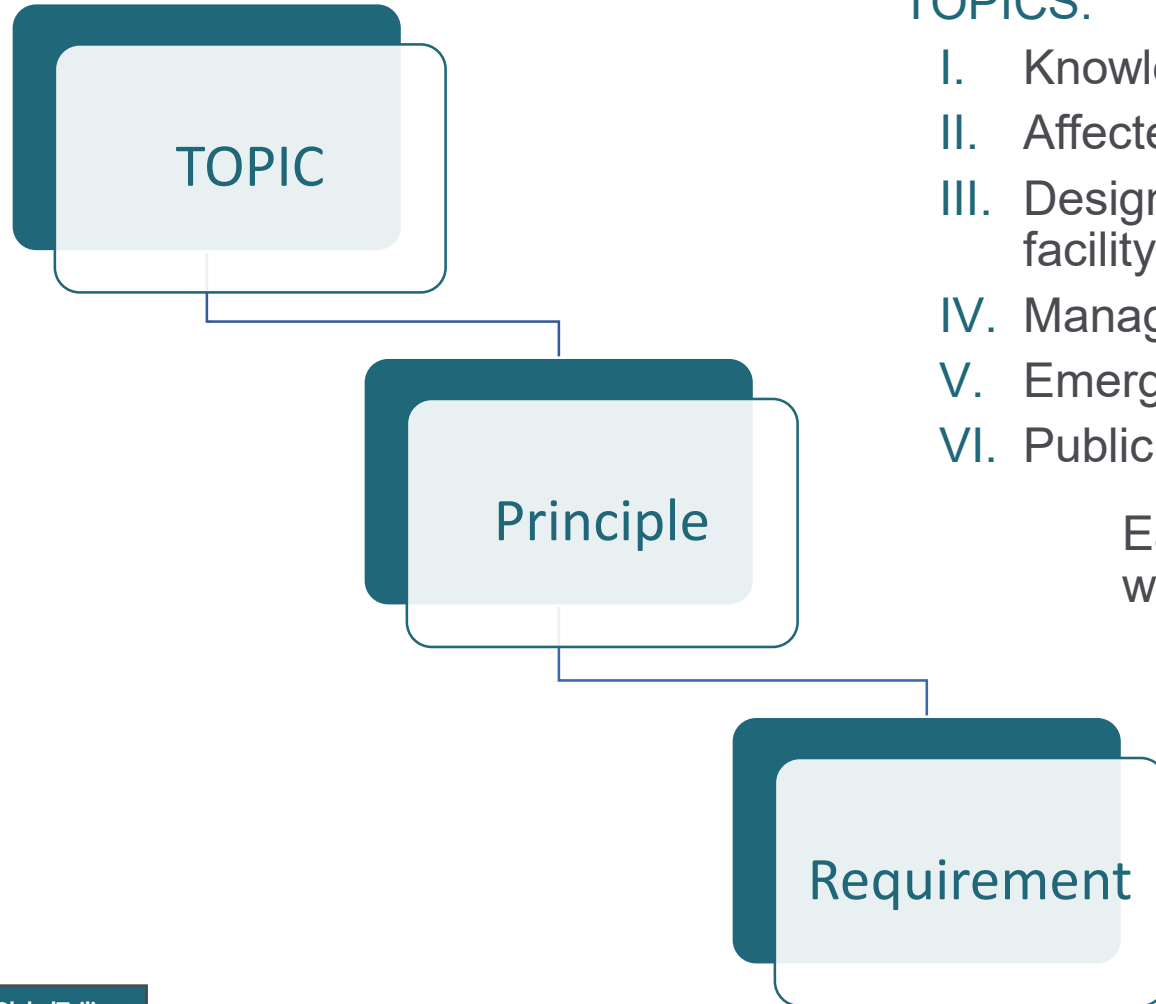
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Chair, Global Tailings Review

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DRAFT GLOBAL TAILINGS STANDARD

OVERVIEW OF STANDARD



TOPICS:

- I. Knowledge Base
- II. Affected Communities
- III. Design, construction, operation and monitoring of the tailings facility
- IV. Management & Governance
- V. Emergency Response & Long term recovery
- VI. Public Disclosure and Access to Information

Each **TOPIC** contains a number of **Principles** within which sit specific **Requirements**.

OVERVIEW OF DRAFT STANDARD PER TOPIC

Knowledge base

- Comprehensive & updated knowledge base
- Knowledge integrated in management activities

Affected Communities

- Human Rights due diligence
- Meaningful engagement
- Grievance mechanisms

Design, Construct, Develop, Maintain

- Robust Design (for extreme consequence)
- Risk minimisation across lifecycle
- Monitoring systems

Manage & Govern

- Roles & responsibilities
- Culture of learning & early problem recognition
- Systematic response to concerns raised

Emergency Response

- Local level emergency response preparedness
- Long term recovery planning

Disclosure

- Public access to information on risks & potential impacts
- Respond to requests
- Global transparency initiatives

TOPIC I – KNOWLEDGE BASE

OVERVIEW:

Requires Operators to develop knowledge about the social, economic and environmental context of a proposed or existing tailings facility, and to conduct detailed site characterisation.

Number of PRINCIPLES: 2

- PRINCIPLE 1: Develop and maintain an updated knowledge base to support safe tailings management across the tailings facility lifecycle.
- PRINCIPLE 2: Integrate the social, economic, environmental and technical information to select the site and the technologies to minimize the risk of tailings facility failure.

TOPIC II – AFFECTED COMMUNITIES

OVERVIEW:

Focuses on project-affected people. It requires human rights due diligence and meaningful engagement of project-affected people

Number of PRINCIPLES: 1

- PRINCIPLE 3: Respect the rights of project-affected people and meaningfully engage them at all stages of the tailings facility lifecycle.

TOPIC III – DESIGN, CONSTRUCTION, OPERATION & MONITORING OF TAILINGS FACILITIES

OVERVIEW:

Aims to lift the performance bar for designing, constructing, operating and monitoring tailings facilities.

Number of PRINCIPLES: 5

- PRINCIPLE 4: Design, construct, operate and manage the tailings facility on the presumption that the consequence of failure classification is 'Extreme', unless this presumption can be rebutted.
- PRINCIPLE 5: Develop a robust design that integrates the knowledge base and minimizes the risk of failure for all stages of the tailings facility lifecycle.
- PRINCIPLE 6: Adopt design criteria that minimize risk
- PRINCIPLE 7: Build and operate the tailings facility to minimize risk.
- PRINCIPLE 8: Design, implement and operate monitoring systems.

TOPIC IV – MANAGEMENT & GOVERNANCE

OVERVIEW:

Focuses on ongoing management and governance of tailings facilities. It defines a number of key roles, essential systems and critical processes.

Number of PRINCIPLES: 6

- PRINCIPLE 9: Elevate decision-making responsibility for tailings facilities with a ‘Very High’ or ‘Extreme’ Consequence Classification.
- PRINCIPLE 10: Establish roles, functions, accountabilities and remuneration systems to support the integrity of the tailings facility.
- PRINCIPLE 11: Establish and implement levels of review as part of a strong quality and risk management system for all stages of the tailings facility lifecycle.
- PRINCIPLE 12: Appoint and empower an Engineer of Record.
- PRINCIPLE 13: Develop an organizational culture that promotes learning and early problem recognition.
- PRINCIPLE 14: Respond promptly to concerns, complaints and grievances.

TOPIC V – EMERGENCY RESPONSE AND LONG-TERM RECOVERY

OVERVIEW:

Covers emergency preparedness and response in the event of a disaster, the re-establishment of ecosystems, and the long-term recovery of affected communities.

Number of PRINCIPLES: 2

- PRINCIPLE 15: Prepare for emergency response to *tailings facility* failures and support local level emergency preparedness and response using *best practice* methodologies.
- PRINCIPLE 16: Prepare for long term recovery in the event of catastrophic failure.

TOPIC VI – PUBLIC DISCLOSURE AND ACCESS TO INFORMATION

OVERVIEW:

Requires public access to information about tailings facilities in order to fairly inform internal and external stakeholders about risks and impacts, management and mitigation plans, and performance monitoring.

Number of PRINCIPLES: 1

- PRINCIPLE 17: Provide public access to information on *tailings facility* decisions, risks and impacts, management and mitigation plans, and performance monitoring.

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DISCUSSION

DISCUSSION

- Does the structure of the draft Standard adequately capture all of the important issues when it comes to tailings?
- Does the draft Standard address the right issues, are all issues addressed or, if there are gaps, where do these exist?
- Is the draft Standard ambitious enough and will it lead to a step-change?
- How do you assess the relationship between the draft Standard and the legislation in your jurisdiction?

GROUPS / ГРУППЫ

1

1. Timur Alimbekov
2. Akop Kagramanyan
3. Kaztay Takeev
4. Razdobryeev Artyom
5. Sabit Ibrayev
6. Yerkin Duisenbayev
7. Gulfiya Shabayeva
8. Gulya Ryskulova
9. Abdullo Nurmatov
10. Abdirashit Tukhtaev
11. Dilshod Mukhamedov
12. Yesenkul Amankulov
13. Ergali Beisenbaev

2

1. Olesya Bilmach
2. Kris Czajewski
3. Berybek Kzykeev
4. Morozov Evgeniy
5. Azamat Umtulov
6. Kalysbek Abdygaziev
7. Madzhnun Jumazoda
8. Bobokhon Bobokhonov
9. Kakamyrat Annaberdiyev
10. Bekzod Tolipov
11. Shukhrat Dadakhanov
12. Michael Kamenev
13. Kazhenov Timur Sergazievich

GROUPS / ГРУППЫ

3

1. Tayfun Gurdal
2. Andrey Laptev
3. Kairat Sembekov
4. Daulet Seilchanov
5. Chinara Sadabayeva
6. Melis Turkudeev
7. Attor Kosumbekov
8. Zokir Ishpulatov
9. Vladimir Ovsyannikov
10. Svetlana Li
11. Manzur Zulolov
12. Dyusenaev Maksut Nabiullaevich
13. Ultarakova Dzhumakul Dzhomartovna

4

ENGLISH SPEAKING

1. Trent Collins
2. *Dmitry Rudakov*
3. Nick Shirley
4. *Garry Wright*
5. *Pavel Danikelka*
6. Martine Rohn-Bossard
7. Sarangoo Radnaaragchaa

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FEEDBACK

CONSULTATION FEEDBACK

Process:

- All feedback will be reviewed and analysed for inclusion into the final Standard.
- All comments received will be reviewed but it cannot be guaranteed they will all be incorporated.

Transparency:

- A Consultation Report will be published in early 2020 which will include:
 - Analysis of participant demographics;
 - Analysis of comments on specific themes;
 - Details of how suggested edits have been incorporated, and
 - Summary of qualitative feedback on the ambition of the draft Standard.

CONSULTATION PORTAL



The screenshot shows the Global Tailings Review Consultation Portal. At the top left, there is a dark teal header with the text "GlobalTailings Review.org". Below this, a large dark teal banner spans the width of the page. Underneath the banner, the breadcrumb "Global Tailings Review > Consultation > Онлайн-опрос" is visible. The main heading is "Онлайн-опрос". Below the heading are five language selection buttons: "English", "Español", "Français", "Português", "中文", and "日本語". A paragraph of Russian text follows, describing the consultation process for a new global standard for tailings management. At the bottom of the screenshot, there is a line of text in Russian: "Принять участие в консультационном процессе можно на нашем интернет-портале по этой ссылке. Мы также планируем".