

UNECE



IAN SYSTEM

Overview on EWS initiatives in Tajikistan and beyond

Early Warnings For All Initiative In Tajikistan Launch Event and First National Consultation Workshop

UNECE's Industrial Accident Notification (IAN) System and Work on Industrial/Tailings Accident Prevention, Preparedness and Response in Tajikistan (and Beyond)

Presentation by Ms. Claudia Kamke, Industrial Accidents Convention

29 August 2023

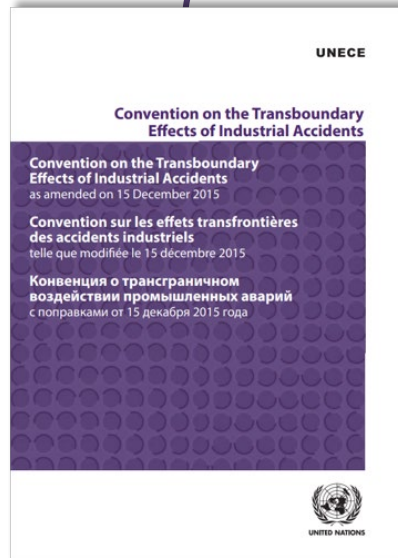


UNECE Industrial Accidents Convention



- **Adopted in 1992, in force since 2000**
- **42 Parties** in the UNECE region, incl. Kazakhstan
- Supports Parties to prevent, prepare for and respond to industrial accidents, incl. at **mine tailings facilities** and those caused by **NATECH** (natural-hazard triggered technological) **events**
- Active international cooperation between Parties before, during and after an accident → Focus on **transboundary cooperation**
- Long-term Strategy: “The Convention’s overall vision until 2030 is to significantly **increase industrial safety and reduce the risk of technological disasters by ensuring its:**
 - full implementation
 - **wide recognition as a legal instrument for risk reduction under the Sendai Framework;** and
 - contribution to achieving the SDGs.

Provisions on Early Warning, Accident Notification & Mutual assistance



- **Article 10, para. 1:** “provide for the establishment and operation of compatible and efficient industrial accident notification systems at appropriate levels”
- **Article 10, para. 2:** “in the event of an industrial accident or imminent threat thereof, which causes or is capable of causing transboundary effects, the Party of origin shall ensure the affected Parties are, without delay, notified at appropriate levels through the industrial accident notification systems...”
- **Article 12, para. 1:** “Parties concerned shall cooperate to facilitate the prompt provision of mutual assistance including, where appropriate, action to minimize the consequences and effects of the industrial accident, and to provide general assistance”

UNECE Industrial Accident Notification (IAN) System

- Web-based application launched in 2008, available in ENG&RUS
- Tool for emergency preparedness and response, notably to coordinate joint responses across countries & borders
- 3 categories of reports:
 - Early-warning
 - Information
 - Request for Assistance
- 48 Points of Contacts (PoC) designated by Parties: authority available 24/7
- Exercise mode (green) and real accident mode (blue)

The screenshot displays the UNECE IAN SYSTEM web application interface. At the top, there are two horizontal banners: a blue one on the left and a green one on the right, both featuring the UNECE logo and the text 'UNECE IAN SYSTEM'. Below the banners, a status bar shows the date and time '25/04/2014 15:25:41' and the word 'Loaded'. A navigation menu on the left includes 'New Report', 'Received', 'Sent', 'Drafts', 'Public Reports', 'Contacts', 'Help', and 'Properties'. The main content area is titled 'SELECT THE TYPE OF REPORT' and contains two report categories: 'Early-warning Report' and 'Assistance Request Report'. The 'Early-warning Report' section includes a description: 'The Early-warning Report is used to give information or warning in the event of an industrial accident or imminent threat thereof. This report should be sent only once and always be followed up with at least one Information Report or be cancelled.' The 'Assistance Request Report' section includes a description: 'Used for matters related to the provision of assistance in order to mitigate consequences including transboundary effects.'

UNECE IAN System: How does it work?

1

When industrial accident happens, PoC notifies potentially affected countries by completing and submitting an online form (early-warning report or assistance request report)

2

Affected PoC receives notification by email and responds (e.g. informs about actions taken, offers support, etc.)
→ coordination of joint response

3

Closure of reports/requests (when potential or real threat of an accident is over)

- Connectivity tests held by the secretariat for all registered PoC each biennium & subregional tests organized by Parties regularly

NATURE OF EMERGENCY/ACCIDENT

ACCIDENT	TYPE OF ACCIDENT	ATTACK WITH	NATURAL DISASTER
<input checked="" type="checkbox"/> Chemical	<input checked="" type="checkbox"/> Fire	<input type="checkbox"/> Explosives	<input type="checkbox"/> Earthquake
<input type="checkbox"/> Mining tailings	<input checked="" type="checkbox"/> Explosion	<input type="checkbox"/> Chemical agents	<input type="checkbox"/> Flood
<input type="checkbox"/> Transportation	<input type="checkbox"/> Release into water	<input type="checkbox"/> Bio agents	<input type="checkbox"/> Landslide/Avalanche
<input type="checkbox"/> Marine pollution	<input type="checkbox"/> Release into air	<input type="checkbox"/> Radioactive agents	<input type="checkbox"/> Forest Fire
Other	Other	Other	Other

ACCIDENT DATE AND TIME

Date 12/05/2022 08:38 - 12/05/2022 06:38 UTC

LOCATION

Indicates the position of the accident as clearly as possible and may in addition give the position in relation to a location known to the recipient.

Country SLOVENIA


Town Kočevje

Area Melamin Kočevje

Latitude 45.641359° - 45°38'28"

Longitude 14.862415° - 14°51'44"

[TOGGLE MAP](#)



Points of Contact Consultations

- Held every even year to exchange lessons learned from exercises, discuss effectiveness of the IAN System, etc.

Meetings and Consultations

- Eighth Consultation of the Points of Contact (10 November 2022)
- Seventh Consultation for Point of Contact (online 10 June 2020)
- Sixth Consultation for Point of Contact (online 22 November 2018)
- Fifth Consultation for Points of Contact (online 15 February 2016)
- Fourth Consultation for Points of Contact (Zagreb 25 - 26 March 2010)
- Third Consultation for Points of Contact (Sibiu 1 - 3 April 2008)
- Second Consultation for Points of Contact (Rome 19 - 21 October 2005)
- First Consultation for Points of Contact (Bratislava 10 - 11 November 2003)
- Meetings of the Task Force

Future Seminars and Workshops on Early Warning

UNECE Global Seminar on Early Warning and Industrial Accident Alert Systems (2025)

- Planned for 2025 in cooperation with WMO, UNDRR and river basin commissions
- Various stakeholders to share their perspectives on existing EWSs and the importance of using them for protecting the environment, livelihood, health and economies

The seminar will feature (TBC):

- Early warning systems and case studies
- Importance of environmental liability (including polluters pays principle, pollution remediation)
- Investigation of systems from expert perspectives in relation to accidental water pollution and river basin commissions

UNECE Workshop on preventing accidental water pollution from TMFs (Bratislava, 23-24 April 2024)

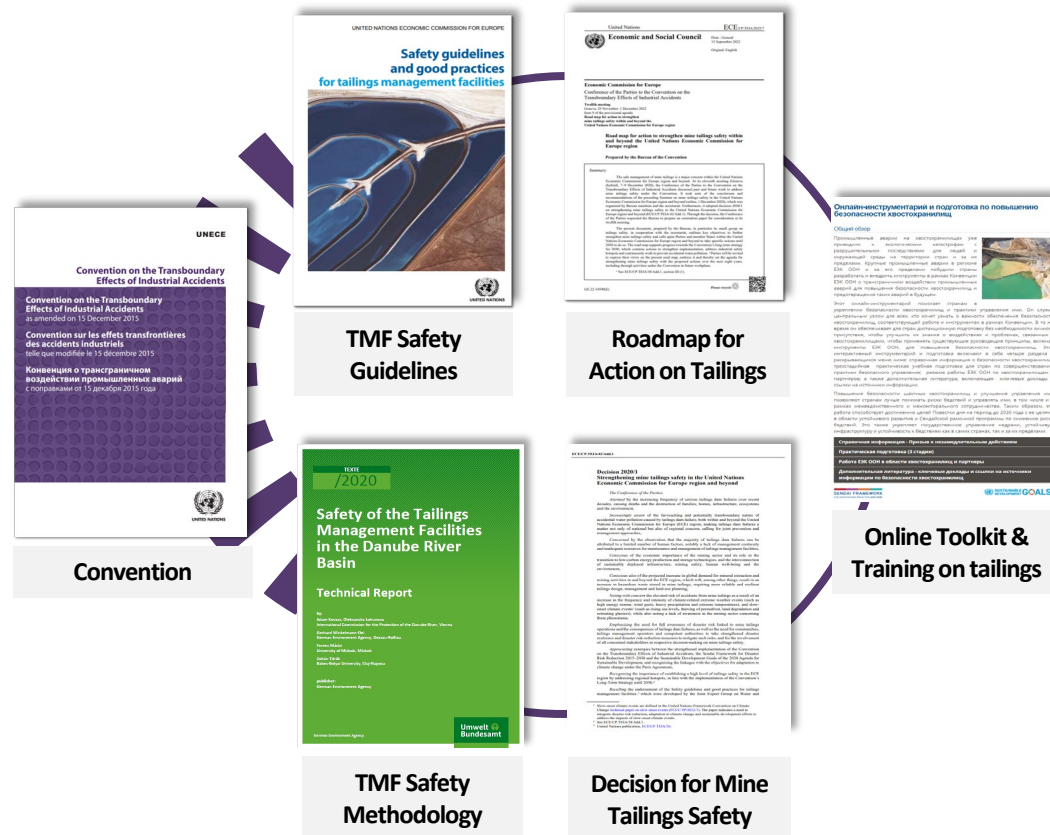
- Hosted by Slovakia and organized by UNECE, in cooperation with the Joint Expert Group on Water and Industrial Accidents (JEG)
- Aims to increase capacities to prevent, prepare for and respond to accidental water pollution from tailings facilities

The workshop will feature:

- Good practices on international and national regulatory frameworks on tailings safety and the prevention of accidental water pollution and their practical application
- Approaches for monitoring and controlling (TMFs), **including early warning systems**, and how to integrate the risk management process
- Concept and further information available at: <https://unece.org/environmental-policy/events/unece-workshop-increasing-capacities-prevent-prepare-and-respond>

UNECE's work on strengthening knowledge and governance of tailings risks in Central Asia (and beyond)

Guidance & tools



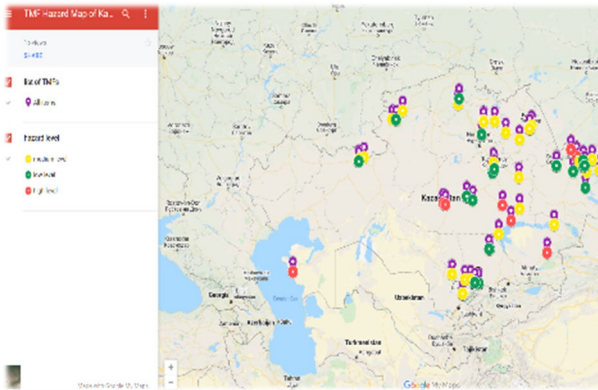
Practical application

- **Understanding Risks:** Inventories & Maps of >1000 TMFs in the Danube River Basin, Ukraine & Central Asia
- **Capacity Building:** On-site trainings at TMFs to build capacity & understand risks in the UNECE region
- **Supporting Tailing Governance:** Creation of Interinstitutional Working Groups on Tailings Safety and the Prevention of Accidental Water Pollution (IIWGs) in Central Asia
- **Subregional Cooperation:** Strengthened subregional/transboundary cooperation and exchange of information

237 Tailings management facilities (TMFs) in Central Asia

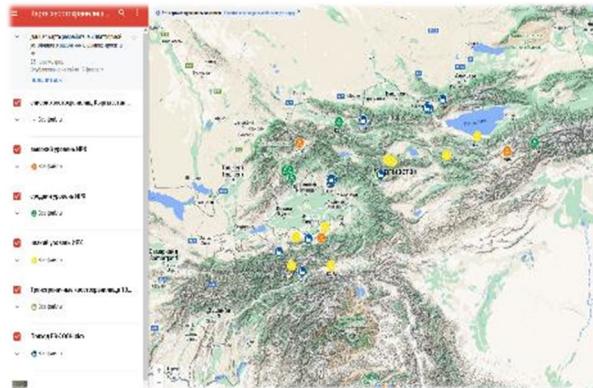
Mapped under the UNECE Industrial Accidents Convention thanks to projects funded by Switzerland, Germany and the EU

TMF mapping in Kazakhstan



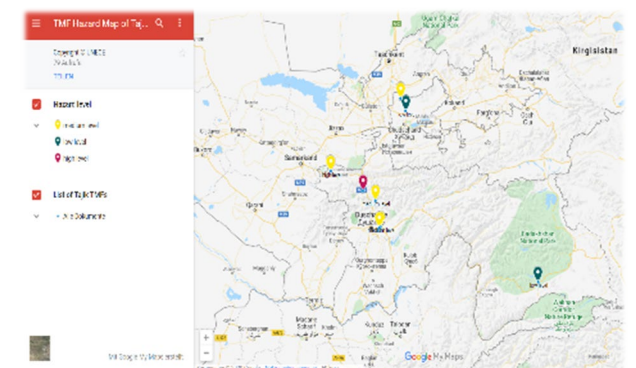
✓ Inventory and mapping of **121 TMFs**, incl. **7 with transb. effects**

TMF mapping in Kyrgyzstan



✓ Inventory and mapping of **62 TMFs**, incl. **38 with transb. effects**

TMF mapping in Tajikistan



✓ Inventory and mapping of **13 TMFs**, incl. **4 with transb. effects**

TMF mapping in Uzbekistan



✓ Inventory and mapping of **41 TMFs**, incl. **10 with transb. effects**

All TMFs were assessed using the TMF [Methodology](#), incl. Tailings Hazard (THI) and Tailings Risk (TRI) Indexes

59 out of 237 TMFs may have potential transboundary effects → 25%

TMF mapping in Syr Darya river basin



✓ Inventory and mapping of **61 TMFs**, incl. **33 with transb. effects**

Inter-institutional Working Group on Tailings Safety and the Prevention of Accidental Water Pollution (IIWGs)



- IIWG aims to enhance tailings governance, preventing accidental water pollution and addressing existing legislative and administrative gaps
- IIWG – Platform for cooperation and policy dialogue, exchange of knowledge and good practices among competent authorities, operators, academia, NGOs and other stakeholders

Kazakhstan



- **15 March 2023**
 - Second meeting of the IIWG
- **11 February 2022**
 - First meeting of the IIWG
- **January 2022**
 - IIWG was officially established by decree of the Ministry of Emergency Situations

Tajikistan



- **04 April 2023**
 - Second Meeting of the IIWG
- **21 October 2022**
 - IIWG officially established under the Government
- **02 December 2021**
 - Inaugural meeting of the IIWG

Uzbekistan



- Consideration on the establishment of IIWG ongoing
- **27 April 2023**
 - Inception meeting on the establishment of the IIWG
- **1st quarter 2023**
 - Development of draft terms of reference

Needs by Tajikistan and Central Asia on early warning

- **IIWG Meeting (Dushanbe, 4 April 2023):**
 - Participants expressed need to develop an EWS in Tajikistan, in particular, an automatic national monitoring system for TMFs
- **Subregional workshop on tailings safety in Central Asia (Dushanbe, 25-26 May 2023):**
 - Need to establish sustainable early warning and alert systems at the national & regional levels expressed by several Central Asian countries
 - A joint system of information exchange, notification, monitoring, coordination and early warning for the Syr Darya basin is missing
 - Need to develop a joint contingency plan to prepare for and respond to emergency situations in the Syr Darya River Basin
 - Need for integrating a multi-hazard/multi-risk approach in accident prevention, preparedness and response to build resilience & adapt to CC



Joint UNECE-UNDRR Project in Tajikistan & Kyrgyzstan

«Integration of risks of man-made/industrial accidents in national strategies and plans for DRR»

General Information

- Beneficiary Countries: Kyrgyzstan and Tajikistan
- Dates: Aug 2022 – Jan.2023

More information:

- <https://unece.org/environment-policy/industrial-accidents/addressing-technologicalindustrial-accident-risks-national>

Objectives

- Integrating the risks of man-made and industrial accidents into programs and plans for the implementation of national strategies for DRR in Kyrgyzstan and Tajikistan
- Integrating the risks of man-made accidents caused by natural disasters (Natech) into political and management practices

Results

- Contextual analysis reports on the risks of technological/industrial accidents in national DRR plans and strategies
- Recommendations for integrating technological/industrial accident risks, including (Natech), and transboundary consideration into national action plans

The project contributed to the achievement of the following priorities of the Strategy for the development of cooperation between the CA countries on DRR:

- Improved understanding of disaster risk
- Strengthening institutional capacity for disaster risk management

Thank you for your attention

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

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