

# UNECE CONVENTION ON THE TRANSBOUNDARY EFFECTS OF INDUSTRIAL ACCIDENTS

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Inter-agency Coordination Group Meeting on Chemical/Industrial Accidents

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## KEY ACTIVITIES IN 2021-2022



## European Forum for Disaster Risk Reduction

### ROADMAP 2021-2030

For a disaster-resilient European and Central Asian region by 2030

The Sendai Framework for Disaster Risk Reduction 2015–2030 provides an opportunity for countries to adopt a concise, focused, forward-looking, inclusive and action-oriented national framework for disaster risk reduction implementation at country level, including modalities of cooperation based on commitments. The Sendai Framework recognizes the role of regional platforms for disaster risk reduction in guiding and supporting national and local actions, including through regional DRR frameworks and strategies. The European Forum for Disaster Risk Reduction (EFDRR) is a regional platform for Europe and Central Asia comprising 55 countries. These countries have different risk profiles and vary in their approaches to disaster and climate-driven risk reduction implementation, be it policies, strategies, laws, investments, levels of preparedness, collaborative arrangements or partnership modalities.

The EFDRR Roadmap 2021-2030 identifies four shared priority areas for achieving the priorities of the Sendai Framework for Disaster Risk Reduction 2015-2030. The four shared priorities include 16 common action areas for development and investment, along with five enabling approaches. The Roadmap builds on consultation with European and Central Asian countries, the review of progress in implementing the Roadmap 2015-2020, and lessons learned from the Covid-19 pandemic response and recovery. The Roadmap is also informed by the Global Platform 2019 and the guiding principles for the Global Platform 2022. The EFDRR Roadmap 2021-2030 supports the implementation of the Sendai Framework by:

- Supporting regional, national and local disaster risk reduction strategies and actions by identifying shared gaps and challenges to and opportunities for enhancing disaster resilience in the region.
- Highlighting effective arrangements for national and local sharing of good practices, pathways and opportunities for more risk-informed, gender-responsive, age-sensitive and inclusive policies, strategies, programmes and approaches.
- Promoting and supporting systems for regional collaboration and shared learning.

The EFDRR Roadmap 2021-2030 will be endorsed during the European Forum for Disaster Risk Reduction hosted by the Government of Portugal on 25th and 26th November 2021.

The Secretariat of the EFDRR is composed by the European Commission, the Council of Europe and the United Nations Office for Disaster Risk Reduction (UNDRR).

For any question or clarification, please contact the UNDRR Regional Office for Europe and Central Asia: [undrr-ecoa@un.org](mailto:undrr-ecoa@un.org)



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[www.undrr.org](http://www.undrr.org)  
[www.preventionweb.net](http://www.preventionweb.net)

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# EFDRR ROADMAP 2021-30

- **EFDRR Roadmap 2021-30:**
  - ✓ Adopted in November 2021 by EFDRR
  - ✓ Convention secretariat contributed, among many other stakeholder and member States
  - ✓ Highlights **Industrial Accidents Convention as an instrument providing guidance for all-of-society’, regional, transboundary and collaborative systems of governance and decision-making**
  - ✓ Alludes to issues of strategic importance to UNECE, OECD and its MS : **transboundary cooperation, multi-hazard approach, governance, multi-sectoral and multi-stakeholder engagement**

## UNECE SIDE EVENT AT GLOBAL PLATFORM ON DRR

[UNECE Press release: “UNECE and partners showcase examples of integrated governance of climate and technological risks in transboundary water bodies at Global Platform on DRR”](#)

- **“Governance of the climate and technological risks in transboundary water bodies” (Side event on 27 May 2022, Bali and online)**
- Moderated by Co-Chair of Task Force on Water and Climate Change of the Water Convention, Netherlands
- Showcasing concrete multi-hazard/risk approach, in relation to IWRM, tech. hazards, climate change:
  - ✓ Armenia on EFDRR Roadmap 2021-2030 in relation to governance in multi-hazard risk management
  - ✓ Integration of multi-hazard risk management into river basin Management Plans in EU Strategy for the Danube Region
  - ✓ Mekong Climate Change Adaptation Strategy and Action Plan and their application for disaster risk reduction
  - ✓ Challenges in mining and accidental water pollution in transboundary basins in Ghana Commission, Ghana
- Session report, Video Recordings (ENG, FR, RU), PR available on [UNECE webpage](#)

# UN/OECD SEMINAR IN FOLLOW UP TO BEIRUT PORT EXPLOSION

- **UN/OECD Seminar in follow-up to the 2020 Beirut port explosion** (14 December 2021, online): *Lessons learned, experiences and good practices in managing risks of ammonium nitrate storage, handling and transport in port areas, preventing accidents and mitigating their consequences*
- Organized in response to [request by EU](#) at CoP-11
- *Possible thanks to financing from France and Germany*
- Co-organized by **UNECE (Industrial Accidents Convention, with Sub-committees on the Transport of Dangerous Goods and on the GHS), together with OECD, International Maritime Organization (IMO), International Labour Organization (ILO), UNDRR and UNEP/OCHA Joint Environment Unit**
- UNECE established and serviced **Organizing Committee** of above organizations
- UNECE set up **Advisory Group** comprised of experts from Austria, Canada, EU JRC, France, Germany, Latvia, Netherlands, Norway, Sweden, Switzerland, United Kingdom, United States, with participation of Industry Associations: (Australian Explosives Industry Safety Group, Inc; **Fertilizers Europe**; Institute of Makers of Explosives; Responsible Packaging Management Association of Southern Africa)



## SEMINAR ON GOOD PRACTICES AND LESSONS LEARNED

- **UNECE Working Group on Implementation Special Session / Seminar on Good Practices and Lessons Learned in the Convention's implementation** (Geneva and online, 3 and 4 February 2022)
- *Lead Party: **Netherlands**, with support of WGI small preparatory group*
- **Objective:** Promoting good practices and lessons learned in the implementation of the Industrial Accidents Convention, particularly those with transboundary elements or transboundary cooperation, in order to help overcome implementation gaps by facilitating the exchange of information among Parties and other countries
- Six thematic sessions:
  1. Identification and notification of hazardous activities
  2. Prevention of industrial accidents
  3. Emergency preparedness, response and mutual assistance
  4. Information to and participation of the public
  5. Decision-making on siting and land-use planning, and
  6. Scientific and technical cooperation and exchange of information

JEG SEMINAR ON  
EMERGING RISKS IN  
ACCIDENTAL WATER  
POLLUTION:  
FOCUS ON NATURAL  
HAZARD-TRIGGERED  
ACCIDENTS

- **Organized** back-to-back with a regular JEG meeting on 5 October 2022
- **Hosted by** the Ministry of Interior of Hungary and online *with support from Germany*
- Among the **participants** were representatives from national authorities, NGOs and international organizations from the UNECE region and beyond
- **Main objective** – further strengthen prevention of and preparedness for accidental water pollution in transboundary river basins, namely through:
  - ✓ **Providing a forum** to discuss how natural hazard-triggered industrial accidents (Natech) can be better understood
  - ✓ **Identifying** good practices and innovative approaches
- **Addressed 3 challenges:**
  1. Understanding and preventing accidental water pollution as a result of natural hazards (Natech): lessons learned
  2. Prevention by design: safe industrial installations in a changing climate
  3. Innovative approaches to limit the consequences of accidental water pollution events

## RISK ASSESSMENT (RA) METHODOLOGIES FOR CHEMICAL INSTALLATIONS

- **Preparation of reports for presentation to CoP-12:**
- **Overview of risk assessment methods (Part I)**
  - ✓ Introduction to RA methodologies, benefits and available software tools
- **Selected case studies and available software tools (Part II)**
  - ✓ 18 case studies (selected from 30 submitted) on selected industrial activities, incl. transboundary examples
  - ✓ Focus on LNG/LPG storage tanks, refrigeration facilities using ammonia, oil terminals, ammonium nitrate (AN) and AN-based fertilizer storage, and chlorine facilities
  - ✓ Very few case studies submitted with transboundary risks / effects
- Developed by contractor (Jenson Hughes), with guidance by Bureau's/Working Group on Implementation's small group on RA and the secretariat
- *Implemented thanks to leadership, expert input and financial support from Switzerland*
- *Publication of consolidated reports in the biennium 2023-2024*



## ACTIVITIES UNDER THE ASSISTANCE AND COOPERATION PROGRAMME

- **Activities to support implementation of the Convention's Strategic Approach**, thanks to support by **multiple donors to the Convention's trust fund**
- **Technical mission to support Montenegro in the implementation of the Convention** (November/December 2021), thanks to financing from **Germany**
- **Sub-Regional Workshop on land-use planning and industrial safety for South-Eastern Europe** (27-29 October 2021), thanks to financing from **France** (dedicated contribution for LuP)
- **Launch and implementation of National Policy Dialogue (NPDs) on Industrial Safety in Serbia** (2021-2022) and **development of national programme for industrial safety**, in cooperation with OECD; implemented with financing from **France**, supplemented by the UN RB
- **Legislation analysis, in view of alignment with the Convention for 5 Central Asian countries** (since December 2022, thanks to financing by the Russian Federation)
- **Supporting Kyrgyzstan and Tajikistan in integrating industrial accident hazards/risks into their national DRR action plans**, in cooperation with UNDRR, thanks to financing from the **EU**



12TH MEETING OF THE  
CONFERENCE OF THE PARTIES

# TWELFTH MEETING OF THE CONFERENCE OF THE PARTIES

**29 November – 1 December 2022 in Geneva and online**

- Co-organized with the **Norwegian Directorate for Civil Protection (DSB)**
- **UNECE/OECD Seminar on effective management of technological risks of accidents triggered by natural hazards**
- **Thirtieth anniversary of the Convention**
- Welcoming **Ukraine as a new Party** to the Convention

## COP-12 – KEY DECISIONS TAKEN

- Adoption of decision on Natech risk management in the ECE region and beyond
- Endorsement of progress report on the implementation of assistance activities in 2021–2022
- Endorsement of Roadmap for action to strengthen mine tailings safety within and beyond the ECE region
- Endorsement of conclusions of seminar on good practices and lessons learned on the Convention's implementation
- Taking note of reports on risk assessment methodologies
- Adoption of priorities, workplan and resources for the Convention 2023-2024

## ROAD MAP FOR ACTION TO STRENGTHEN MINE TAILINGS SAFETY WITHIN AND BEYOND THE UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE REGION

**Prepared by the Bureau** in response to EU's request to prepare orientation paper set out in *the Decision 2020/11 on strengthening mine tailings safety in the ECE region and beyond* adopted at CoP-11

Contains **5 objectives** and related **actions** to strengthen TMF safety for Parties, MS within and beyond the UNECE region, the UNECE secretariat and other international organizations:

1. Understanding TMF risks
2. Addressing TMF risks through policy and governance
3. Prevention and preparedness for accidental water pollution from TMFs
4. Prevention of Natech and adaptation to climate change
5. Information and knowledge exchange, capacity-building

# ACTIVITIES TO STRENGTHEN TAILINGS SAFETY IN CENTRAL ASIA

Establishment of and support to the Interinstitutional Working Groups on Tailings Safety and the Prevention of Accidental Water Pollution (IIWG) – **until end-2023**

## Kazakhstan



2<sup>nd</sup> IIWG meeting planned for 15 March 2023

1<sup>st</sup> IIWG meeting held on 11 February 2022, led by MES in cooperation with Ministry of Ecology and Natural Resources

IIWG formally established through a decree of the Ministry of Emergency Situations (MES) in **January 2022**

## Tajikistan



2<sup>nd</sup> IIWG meeting planned for early April 2023

IIWG formally established under the government on 31 October 2022

IIWG Inaugural Meeting in 2 Dec 2021

## Uzbekistan



Development of Terms of Reference in first half of 2023

Discussions on the establishment of the IIWG initiated and ongoing

# SYR DARYA PROJECT (PHASE I) (COMPLETED END-FEB)

Implemented by UNECE Water Convention, in close cooperation with the Industrial Accidents Convention and support from IWAC, **with funding from the EU (EU Water Initiative National Water Policy Dialogues (NPDs))**

**Project period: June 2021 to Feb 2023**

**Objective:** Development of Joint Measures to Prevent And Respond to Pollution of the Syr Darya River in Emergency Situations

## Results:

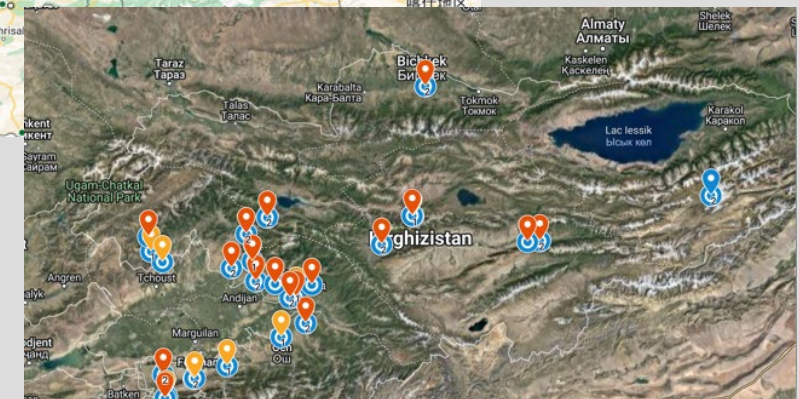
- ✓ **In-depth report** addressing state of water resources, water quality issues and issues related to policies and institutions for water management, industrial safety and prevention of accidental water pollution. It contains concrete recommendations to be implemented by the riparian countries
- ✓ **Inventory and map of 61 TMFs and 133 other hazardous facilities** in the Syr Darya River Basin prepared
- ✓ **Infographics and executive summary with key findings**

## Key needs by countries for Phase II (no funding available):

- Implementation of recommendations to overcome gaps, notably to develop and test a **Transboundary Contingency Plan** for the Syr Darya River Basin

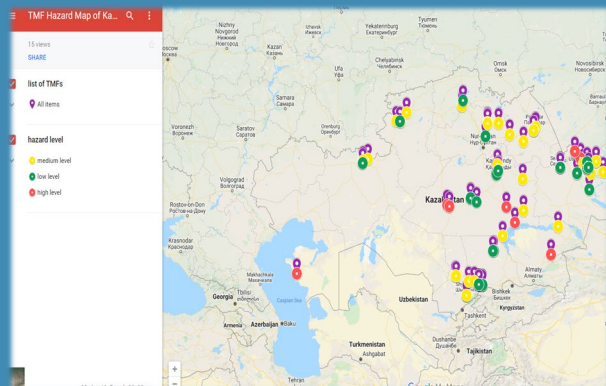


Beneficiaries: **Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan**



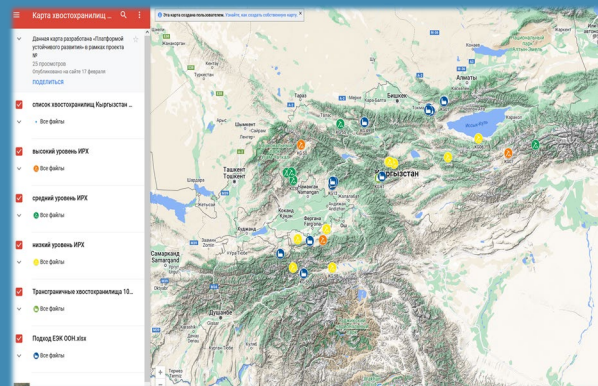
# INVENTORIES AND MAPS OF 237 TAILINGS MANAGEMENT FACILITIES (TMFs)

## TMF mapping in Kazakhstan



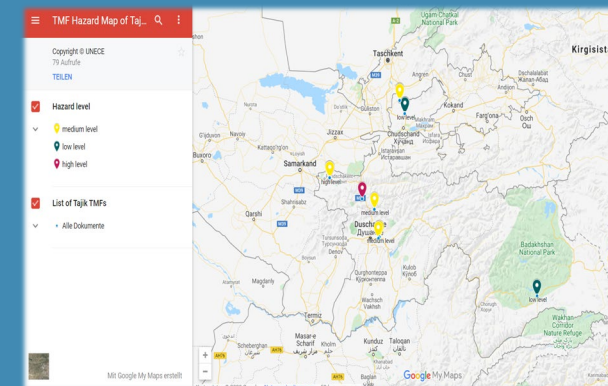
✓ Inventory and mapping of 121 TMFs

## TMF mapping in Kyrgyzstan



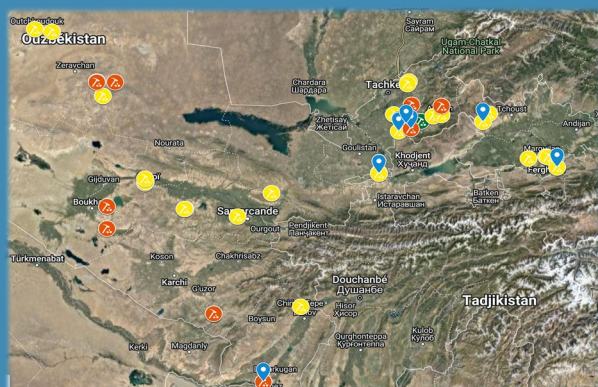
✓ Inventory and mapping of 62 TMFs

## TMF mapping in Tajikistan



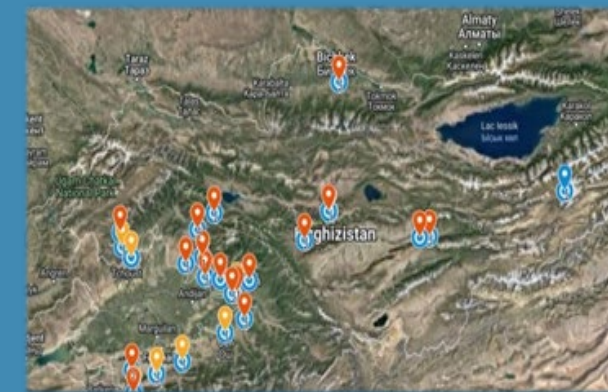
✓ Inventory and mapping of 13 TMFs

## TMF mapping in Uzbekistan



✓ Inventory and mapping of 4 TMFs

## TMF mapping in Syr Darya river basin



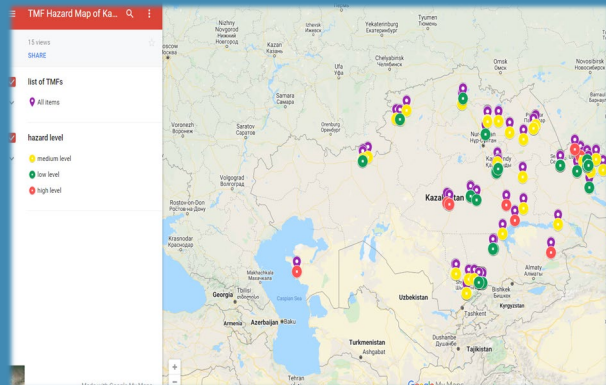
✓ Inventory and mapping of 6 TMFs

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



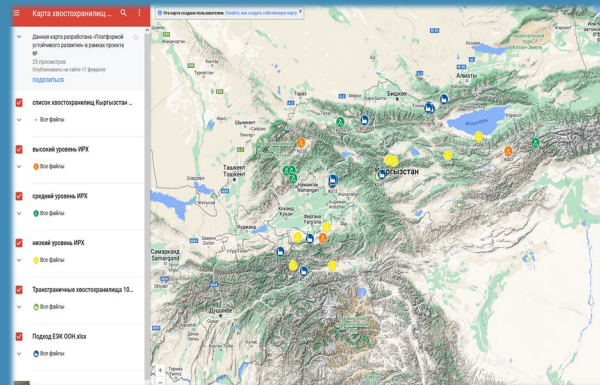
# 59 TAILINGS MANAGEMENT FACILITIES (TMFs) WITH POTENTIAL TRANSBOUNDARY EFFECTS

## TMF mapping in Kazakhstan



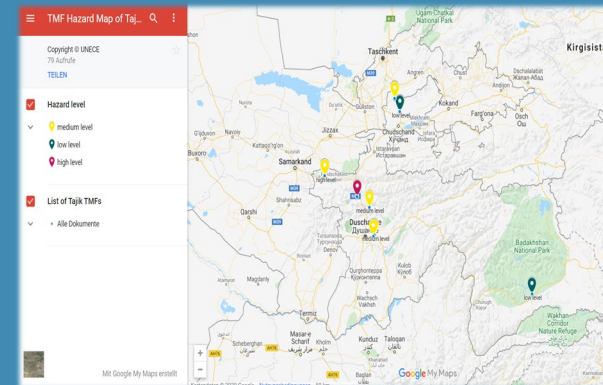
7 TMFs could have transboundary effects

## TMF mapping in Kyrgyzstan



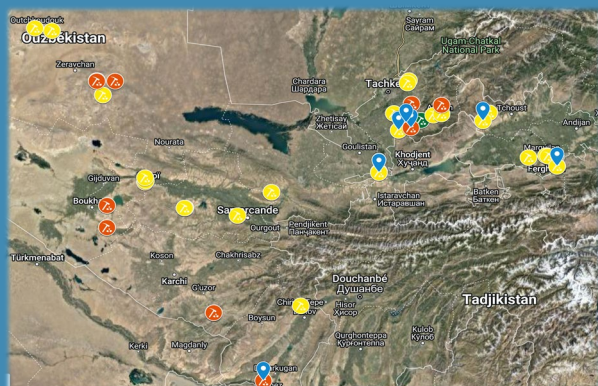
38 TMFs could have transboundary effects

## TMF mapping in Tajikistan



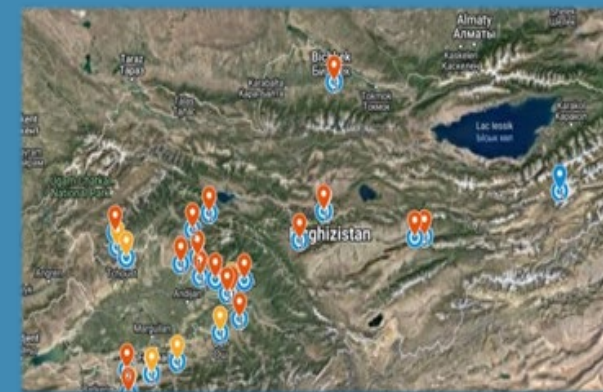
4 TMFs could have transboundary effects

## TMF mapping in Uzbekistan



10 TMFs could have transboundary effects

## TMF mapping in Syr Darya river basin



33 TMFs could have transboundary effects  
→ 19 in KYR, 10 in TAJ and 4 in UZB

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

## MISSION TO GEORGIA

- Georgia is the only **non-Party** to the Convention in Eastern Europe and Caucasus.
- Georgia requested an assistance mission for 2023 with aim to:
  - *raise awareness* of the Convention and the benefits of accession among the key decision-makers and authorities dealing with industrial safety matters
  - understand the *linkages and complementarities* of the Convention *with EU legislation*
  - determine *next steps for Georgia's accession*
- Possibility of developing a roadmap towards accession in follow-up to the mission being considered

## PROJECTS UNDER ASSISTANCE AND COOPERATION PROGRAMME IN 2023-2024 REQUIRING FINANCING

- National Policy Dialogues (NPDs) for Industrial Safety in Western Balkans, incl. in Serbia and European Neighbourhood, in cooperation with OECD
- Improving understanding and governance of technological risks in Western Balkans
- Strengthening industrial safety, disaster risk governance and management in Ukraine
- Strengthening hazard and crisis management in the Danube Delta (Phase II)

Strengthening industrial safety in Western Balkans and Eastern Neighborhood

- NPDs for industrial safety in Central Asia
- Developing joint measures to prevent and respond to pollution in the Syr Darya River basin (Phase II)

Strengthening industrial safety in Central Asia

UNECE's activities draw on the **most pressing needs of countries** communicated through:

- National implementation reports
- National self-assessment and action plans
- National and sub-regional workshops and seminars

A coastal scene with a beach, ocean, and industrial smokestacks in the background. The foreground shows a sandy beach with some debris and rocks. The middle ground is the ocean with gentle waves. In the background, there are two tall, white industrial smokestacks. To the left, there are power lines and a crane. The sky is clear and blue.

THANK YOU FOR YOUR ATTENTION!

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