

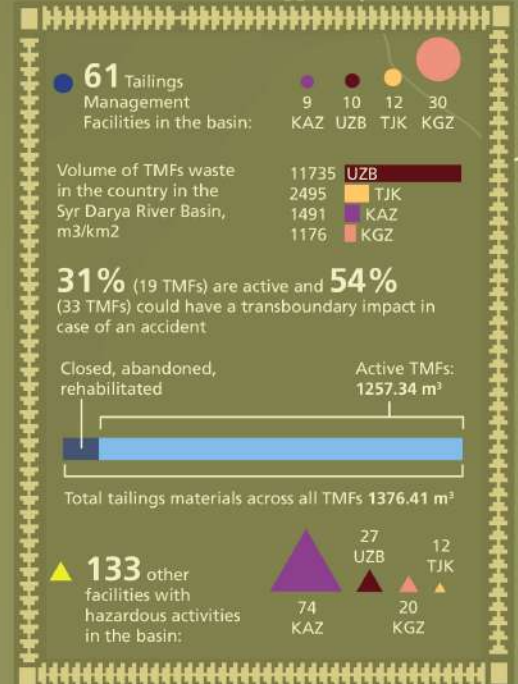
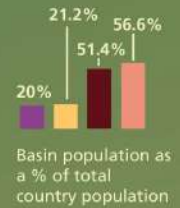
# Study on pollution sources and identification of accident risks in the Syr Darya River Basin: RESULTS

Study was requested by the Joint Kazakh Uzbek Working Group on Environmental Protection and Water Quality in the Syr Darya River Basin. Its main results:

- 1 General review of pollution sources
- 2 Inventory of hazardous industrial facilities, including tailings management facilities (TMFs), and its mapping
- 3 Identification of accidental pollution risks, including Natech ('Natural Hazards Triggering Technological Disasters')
- 4 Analysis of legislation and existing information exchange mechanisms
- 5 Development of recommendations for coordinated pollution prevention measures and response to accidental water pollution

## Risks identified in the Syr Darya River Basin:

- Industrial facilities, including TMFs, are located near populated areas, near rivers and in mountainous areas
- Lack of coordinated measures for prevention and emergency response
- Lack of control, monitoring and remediation at closed TMFs
- Increased landslide, flooding, mudflow and erosion processes exacerbated by ongoing climate change
- High seismic activity
- Unsatisfactory water infrastructure
- Degraded national water resource monitoring systems
- Increasing water shortages
- Limited access to centralized drinking water supply and sanitation systems



- Most vulnerable tributary rivers:**
- Badam
  - Archasai
  - Mailu-Suu
  - Karadarya
  - Sumsar
  - Okhangaron
  - Kassan-Sai
  - Chirchik
  - Shakhimardan-Sai

**Way forward:**

- Strengthen national capacities to prevent, prepare and respond to industrial accidents, including Natechs, and accidental water pollution
- Enhance cooperation at the national level across institutions and sectors, and in transboundary context
- Harmonize procedures and legislation across concerned sectors
- Develop a joint contingency plan
- Foster a multi-hazard / multi-risk approach