

# Unified AI Monitoring System for Glacial Lake Outburst Floods — Kyrgyzstan's Ministry of Emergency Situations

AI in the Public Sector · Good practice · Kyrgyzstan

Quality score: 60/100

Evidence strength: Observational / pre–post

## Summary

Kyrgyzstan's Ministry of Emergency Situations runs a national AI module that analyses satellite imagery to track ice-cover and breach risk across 368 hazardous high-altitude lakes, funded by Japan via UNDP.

## Key dimensions

| Dimension                                  | Score |
|--------------------------------------------|-------|
| Evidence of impact / measured public value | 2/3   |
| Transparency, fairness & accountability    | 1/3   |
| Transferability / demonstrated replication | 2/3   |
| Scalability beyond pilot                   | 2/3   |
| Governance, capability & sustainability    | 2/3   |

Evaluated by C-NAPSE

## Data sources

[C-NAPSE web research](#) — accessed 2026-08-14

[Ministry of Emergency Situations of the Kyrgyz Republic, with UNDP and the Government of Japan](#) — accessed 2026-08-14

[UNDP Kyrgyzstan — Innovative IT Module Unveiled for Glacier Lake Monitoring](#) — accessed 2026-08-14

[The Times of Central Asia — AI to Monitor Kyrgyzstan's Glacial Lakes](#) — accessed 2026-08-14

[UNDP Kyrgyzstan — Early Warning System in the Kyrgyz Republic: Real-Time Risk Monitoring](#) — accessed 2026-08-14

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