

ShoShin AI Early Warning — Kenya's Sensor-Based Alert System for Lake Victoria Fish Kills

AI in the Public Sector · Good practice · Kenya

Quality score: 53/100

Evidence strength: Moderate

Summary

Underwater sensors and AI models built by Kenya's KMFRI and Nairobi's ShoShin Innovation Hub flagged a dissolved-oxygen crash at Dunga Beach, Kisumu in February 2026; over 300 farmers moved 450+ tilapia cages by SMS alert, averting a repeat of \$1m in 2024-25 losses.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-07-19

Kenya Marine and Fisheries Research Institute (KMFRI), with ShoShin Innovation Hub — accessed 2026-07-19

SciDev.Net — Can AI stop mass fish deaths on Lake Victoria? — accessed 2026-07-19

Mail & Guardian — Early warning system on Lake Victoria proves AI's potential to prevent fish kills — accessed 2026-07-19

iAfrica.com — AI Early Warning System Averts Lake Victoria Fish Kills as Kenya Eyes Wider Rollout — accessed 2026-07-19

Pulitzer Center — Can AI Stop Mass Fish Deaths on Lake Victoria? — accessed 2026-07-19

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