

Standard Gauge Railway Wildlife Underpasses — Tsavo Conservation Area, Kenya

PES & Nature-Based Solutions · Good practice · Kenya

Quality score: 13/100

Evidence strength: Cautionary / limited

Summary

Kenya's Mombasa–Nairobi railway crosses unfenced Tsavo on an embankment with 141 crossing structures; a 2022 peer-reviewed study found real but uneven wildlife use, while embankment sections killed more elephants than the roads they replaced.

Key dimensions

Dimension	Score
Carbon — sequestration / storage, evidenced	0/3
Biodiversity — conservation / improvement, evidenced	1/3
Water & soil — retention, infiltration, erosion control	0/3
Fire resilience — risk reduction, evidenced	0/3
Governance, certification & transferability	1/3

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-08-25

Kenya Railways Corporation & Kenya Wildlife Service, monitored by Save the Elephants and the Wildlife Research & Training Institute — accessed 2026-08-25

Save the Elephants — SGR Underpass Monitoring — accessed 2026-08-25

Kimanzi et al. 2022, Scientific Reports — Influence of infrastructure, ecology, and underpass-dimensions on multi-year use of SGR underpasses by mammals in Tsavo, Kenya — accessed 2026-08-25

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