

Making Early Warning Systems Work for All: Evidence and Lessons from Last-Mile Communities



Early warning systems save lives, but only when people act on warnings.

Drawing on [community-based studies](#) across 15 contexts worldwide, this research shows that even where early warnings exist, they often **fail to reach people or trigger action**. Focusing on last-mile communities — those who are geographically isolated, socially marginalized, or otherwise hard-to-reach — the report explains **why warnings break down** and how to **make them work for everyone**.

Barriers and Enablers across the Four EWS Pillars



Core Recommendations for Effective EWS



Promote Inclusivity: Center real needs, capacities, and priorities in EWS design

- Engage marginalized groups as co-owners in EWS design, operation, and evaluation
- Build feedback mechanisms so community input drives improvements
- Embed inclusion in policy, governance, and sustained financing



Ensure Accessibility: Remove barriers to receiving and understanding warnings

- Use layered, redundant channels based on the local info landscape
- Apply universal design so messages are clear and consistent across formats
- Strengthen last-mile delivery through trained volunteers and trusted intermediaries



Enable Actionability: Make it possible to act on warnings in real-world conditions

- Provide warnings with clear, feasible protective actions – not just hazard description
- Link warnings to anticipatory action support so people have resources to act in time
- Invest in community-led preparedness education and planning

Read the
full report



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