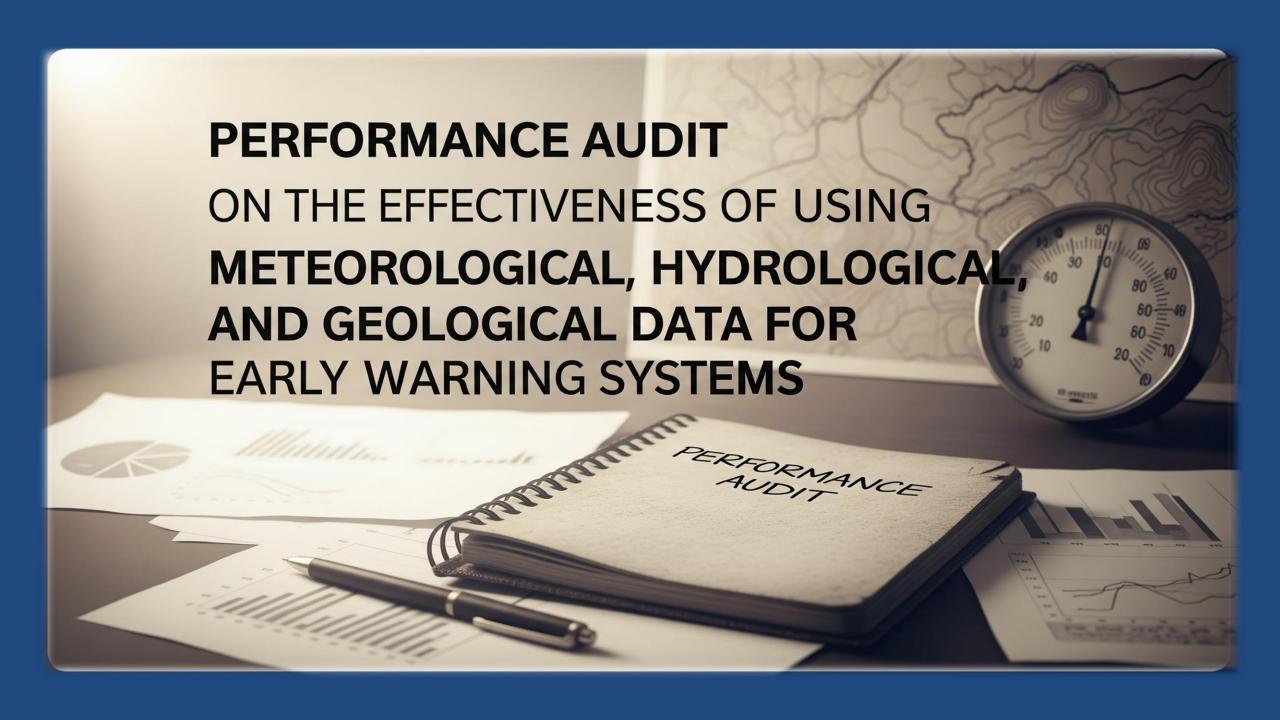


STATE AUDIT OFFICE OF GEORGIA

Insights from Georgia's Performance Audit on Early Warning Systems



Audit Motivation: High Risk Environment

- Global trends show that intensified natural processes and human activities have significantly increased the frequency and scale of natural disasters, along with the resulting human and material losses.
- Georgia is highly vulnerable to hydrometeorological and geological disasters, including avalanches, landslides, floods, droughts, hail, strong winds, erosion, and wildfires.
- Data confirm a growing trend in geological and hydro-meteorological events in Georgia from 2018 to 2023



Audit Objective, Approach, and Methodology

- The performance audit was conducted in compliance with International Standards of Supreme Audit Institutions.
- Main Goal: To determine whether the necessary prerequisites exist for ensuring the use of hydrometeorological and geological data for early warnings (EWS).
- Approach: System-oriented, focusing on the governmental system addressing public problems rather than a single agency



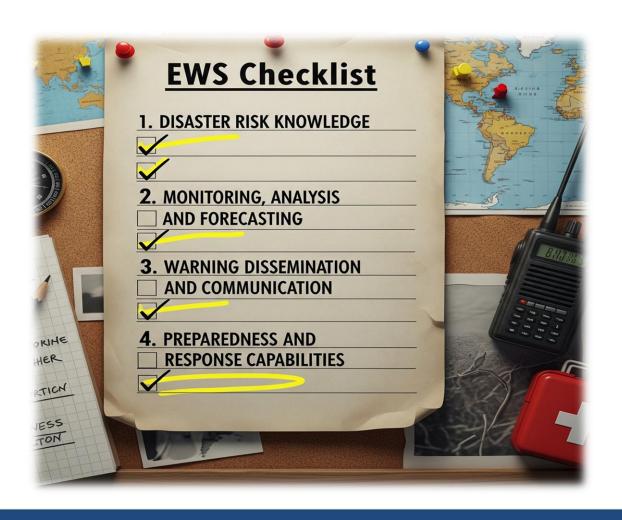
Main Audit Question and sub-questions

Are there appropriate prerequisites to ensure the use of hydro meteorological and geological data for early warnings?

- Are the roles and responsibilities of the Early Warning System (EWS) subjects sufficiently and clearly defined?
- Are there established communication processes between government agencies, experts in the field, and local populations regarding hydro meteorological and geological data, to ensure effective early warning?
- To what extent is hydro meteorological and geological information used by local self-governments for implementing their powers?
- To what extent are early warnings based on hydro meteorological and geological data appropriately supplied to stakeholders?

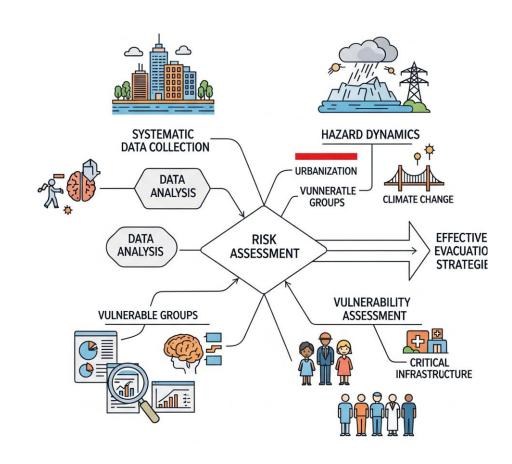
Key Audit Criteria: The Human-Centered EWS

Criteria were based on the **EWS Checklist**, structured around four core elements of a human-centered EWS:

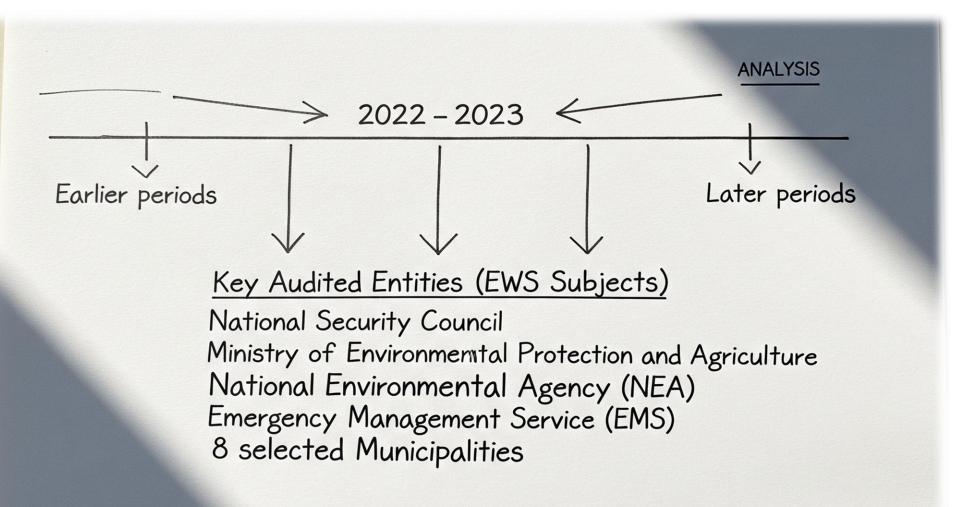


EWS: Disaster Risk Knowledge

- Risk assessment requires systematic data collection and analysis, considering the dynamic nature of hazards and vulnerabilities (e.g., urbanization, climate change).
- This knowledge is crucial for identifying vulnerable groups and critical infrastructure, and establishing effective evacuation strategies.

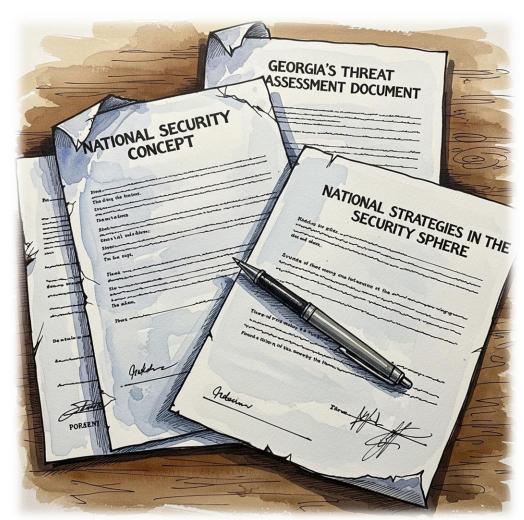


Audit Scope and Key Stakeholders



Finding 1: Conceptual Governance Documents Missing

- National-level conceptual documents are not developed or updated.
- These include:
 - The National Security Concept
 - Georgia's Threat Assessment Document
 - National Strategies in the Security Sphere.



Impact of Missing Strategy

- The absence/lack of updates in these foundational documents impedes the effective functioning of the EWS and the overall national civil safety system.
- Specifically, the DRR Strategy (Catastrophe Risk Reduction Strategy) and its action plan have not been updated since 2020.



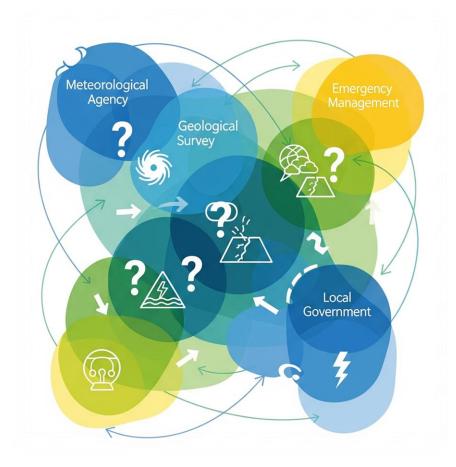
Finding 2: Outdated National Civil Safety Plan

- The current version of the National Civil Safety Plan is outdated (approved 2015).
- Powers are outlined for organizations that have since been abolished, reorganized, or operate under different names.
- This creates a risk of ineffective cooperation among system subjects during emergencies.



Finding 3: Ambiguous Roles and Overlapping Functions

- Functional analysis revealed overlapping responsibilities (functional ambiguity) among EWS subjects.
- There is no clearly defined agency responsible for identifying, analyzing, and assessing hazards and risks caused by natural factors.
- For instance, EMS (mandated for risk identification) stated it does not identify natural risks, viewing its role as coordination.



Finding 4: Absence of Integrated Framework and Database

- Georgia lacks an integrated and comprehensive framework that defines the roles, responsibilities, and relationships of EWS subjects.
- Critically, there is no centralized information base for assessing natural disasters, hazards, and risks.
- This institutional gap prevents clear delineation of specific responsibilities



Finding 5: Lack of Local Preparedness Plans

- Municipalities have not developed and approved Emergency Situation Risk Management Plans, despite a government requirement to do so by December 2018.
- This omission stems from the lack of a comprehensive legal framework defining municipal involvement in EWS functioning.



Finding 6: Insufficient Municipal Data Use

- Local self-governments insufficiently use hydrometeorological and geological data for informed decisionmaking.
- There is no formalized or consistent practice for using this data.
- This lack of formality and consistency leads to inadequate assessment of natural disaster risks and uninformed decisions at the local level.



Finding 7: Missing Expert Cooperation Mechanisms

- There are no formalized documents, communication protocols, or memorandums governing cooperation and information exchange between municipalities, NEA, EMS, and scientific/technical experts.
- This institutional coordination gap hinders efficient communication, delays information exchange, and results in the lost opportunity to utilize scientific and technical knowledge crucial for effective EWS functioning.



Finding 8: Flaws in Warning Dissemination

- A reliable process for delivering EWS notifications to interested parties and the public at risk is missing.
- NEA provides warnings via email and SMS, but internal feedback showed recipient databases are often outdated, and warnings are often treated "for information only," not leading to concrete action.



Finding 9: ICT and Telecommunication Gaps

- Georgia lacks a unified centralized ICT system and a National Emergency Telecommunication Plan.
- This absence, partly due to the lack of a comprehensive legal framework addressing ICT importance, prevents the efficient delivery of warnings using diverse communication channels.
- The lack of a unified system weakens EWS effectiveness and hampers effective disaster management.



Finding 10: SDG Responsibility Ambiguity

- The critical SDG task regarding climate-related extreme events and early warning provision (Global Task adapted by Georgia) currently lacks a defined lead agency.
- The agency originally designated (State Security Council Apparatus) no longer exists under that name, creating a risk that this crucial objective will not be implemented efficiently.



Overall Conclusion

- The necessary prerequisites for the effective use of hydrometeorological and geological data for early warnings are not sufficiently established.
- The system's effectiveness is negatively impacted by the absence of foundational legal/conceptual documents, blurred responsibilities, and poor coordination.



Recommendation issued by SAI Georgia

- The SAI Georgia recommends that the National Security Council:
 - Organize and coordinate the preparation of the National DRR Strategy.
 - Ensure the development of the Statute of the Notification System (integrated and comprehensive EWS framework document).
 - This framework must clearly define the roles, responsibilities, cooperation, and coordination mechanisms among all EWS participants.

RECOMMENDATIONS





THANK YOU!

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