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Children's Climate Risk Index-Disaster Risk Model (CCRI-DRM) subnational assessment initiative

UNICEF, national and local stakeholders, and international partners are collaborating on the Children's Climate Risk Index-Disaster Risk Model (CCRI-DRM) subnational assessment initiative to improve the understanding and management of risks that children, young people, families and their communities face from climate, environmental and other natural hazards, shocks and stresses.

The CCRI-DRM initiative includes a subnational risk assessment model and interactive geospatial platform that can be used for analysis. The tools build on the global [UNICEF CCRI](#) as their main reference.

The CCRI-DRM includes risk data on child exposure and vulnerability to hazards, shocks and stresses, and offers a balanced view of data on child-critical sectors — such as in health, nutrition, education, social protection, child protection and water, sanitation and hygiene (WASH). It seeks to facilitate:

- Child-centred, multi-hazard risk analysis at regional and subnational levels;
- The prioritization of emergency preparedness and response processes; and
- Cross-sector coordination and decision-making based on a unified understanding of climate and disaster risk.

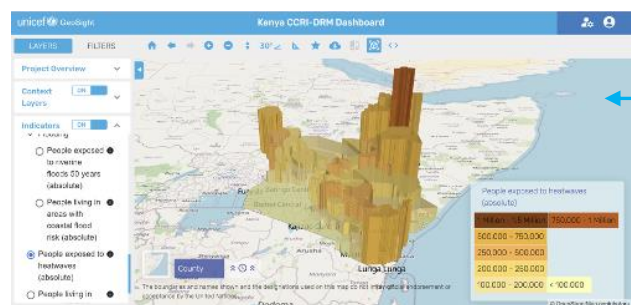
Child risk data can be used for disaster risk reduction (DRR), climate change adaptation (CCA), emergency preparedness and response, and other programme sector-related policies, plans and interventions.

The CCRI-DRM model and platform are being built as country-specific subnational tools. Their development includes a collaborative approach that links CCRI-DRM information to national and regional decision-making. Implementing the model and geospatial platform involves working together, openly sharing data and expertise, and jointly coming to common conclusions to guide planning and actions. The CCRI-DRM relies on diverse data sources, such as hazard maps and data, census data, Demographic Health Surveys (DHS) and other relevant cross-sectoral data sets.

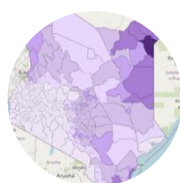
The CCRI-DRM methodology is based on a rigorous scientific approach, which incorporates the latest research and data on multi-hazard risks; and promotes evidence-based policies and programmes that can improve the resilience of children, young people, families and their communities to these risks. The subnational CCRI-DRM employs an array of indicators to evaluate two key pillars. Each pillar is measured by a set of underlying factors:

- **Shock exposure** to capture the likelihood of children, young people and communities in an area to be exposed to hazards, shocks and stresses; and
- **Vulnerability** to capture the underlying factors that render exposed children, young people, their families and communities susceptible to the negative effects of hazards, shocks and stresses. The model also considers economic, political and social characteristics and circumstances of communities and systems that reflect their readiness and ability to withstand harmful effects of hazards, shocks and stresses.

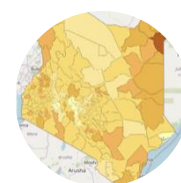
GeoSight Analytical Platform



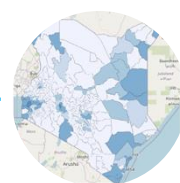
Child's Climate Risk Index



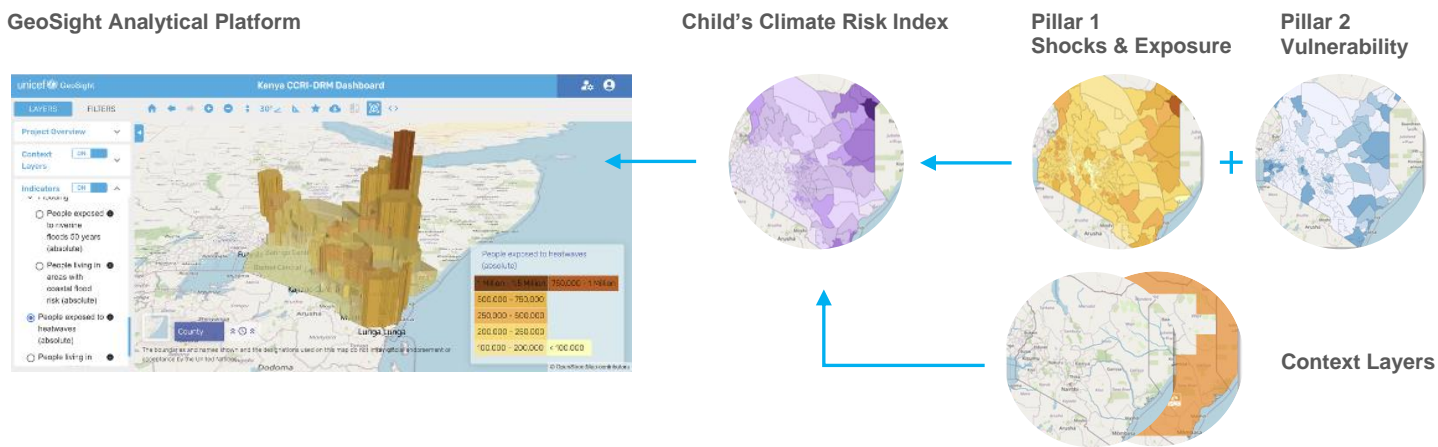
Pillar 1 Shocks & Exposure



Pillar 2 Vulnerability



Context Layers



The global CCRI and subnational CCRI-DRM follow the methodology and approach taken by the global [Index for Risk Management \(INFORM\)](#) model that makes it useful in various contexts. INFORM embraces principles like providing complete (geographic) coverage and being open-source and reliable.

The initial phase of the CCRI-DRM subnational risk assessment initiative (2022-2023) is a partnership between UNICEF and USAID's Bureau for Humanitarian Assistance (BHA). The CCRI-DRM subnational assessment models are being piloted in Cambodia, Eastern Caribbean (Antigua and Barbuda and Dominica), Kenya and Somalia. The CCRI-DRM initiative also includes conducting additional research and developing support materials that can advance the use of child-centered risk data, strengthens capacity building and accelerates advocacy efforts.

The second phase aims to promote the CCRI-DRM tools within the initial pilot countries and their use; expand the tools to additional countries (allowing for the adaptation to their diverse contexts); provide knowledge materials and capacities that increase the comprehension of child risks and the value of child-centred policies and programmes that mitigate these risks; and support capacity-building and advocacy efforts.

The CCRI-DRM subnational risk assessment initiative is an investment for every child and young person. It aims to 1) **reduce existing vulnerabilities** of children, young people, their families and communities to better face and withstand the impacts of climate change, disasters, environmental hazards and other shocks and stresses and 2) **build the resilience** of the services children and young people need to survive, grow and thrive. With the sub-national child risk data tools from the initiative, policymakers and other stakeholders can be united towards of a common vision where **every child and young person — 3.5 billion by 2030 — is protected, educated, resilient and prepared to be part of the solutions and movement to heal the planet.**

Phase 1



- Develop and adapt the subnational CCRI-DRM model and geospatial platform with partners in pilot countries
- Develop knowledge and guidance
- Connect child risk information to government commitments and actions on climate and disaster risk reduction

Phase 2



- Refine and scale the subnational adaptation of the CCRI-DRM models and platforms
- Mainstream their use within countries and regions
- Support capacity building for understanding and applying risk information
- Connect child risk information to government commitments and action on climate and disaster risk reduction

Resources

- [INFORM OVERVIEW](#)
- [VIDEO on INFORM](#)
- [CCRI Heatwave report](#)



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In Dominica, Kaioh and Khamylia play near a river that burst its bank during Hurricane Maria in Dominica. After the hurricane, UNICEF and its partners were instrumental in helping children, and those who care for them, to get back on their feet.

CCRI-DRM initiative contacts

Hanoch Barlevi, hbarlevi@unicef.org

Jen Stephens, jstephens@unicef.org