

AI-POWERED REFUGEE FORECASTING

PREPARING FOR REFUGEE MOVEMENTS BEFORE THEY HAPPEN

WHY THIS TOOL?

- Fragility, conflict, violence and climate trends increase the frequency & scale of human displacement.
- Unknown displacement timing, scale & location prevents effective support.
- Refugee programs lack sufficient flexibility, speed and foresight.

AI-DRIVEN SHIFT FROM RESPONSIVE TO ANTICIPATORY ACTION

Enables **early action**: water, education, health capacity prior to refugees' arrival.

Supports **host-refugee relations** and improves **public service delivery**.

Informs **what** to do and **where** to manage refugee flows.

Can **adapt model** to predict and explain other things (e.g. poverty).

HOW DOES IT WORK?

The tool enables preparation **4-6** months in advance.

Ingests **+90** variables across hundreds of dimensions and detects trends in objective and subjective data.

AI PREDICTION MODEL

Machine-learning analysis of economic, conflict, perception & climate data.

EVENT FORECAST

Predicts the scale, location and timing of displacement.

POLICY APPLICATION

Shift from reactive to targeted, anticipatory action.

CASE STUDY:

ANTICIPATORY CAPACITY FOR UGANDA'S DISPLACEMENT CRISIS RESPONSE MECHANISM (DCRM)

AI MODEL CUSTOMIZATION

- Using UNHCR data measuring 2014–2023 refugee inflows from South Sudan & DRC.

FORECAST + EXPLANATION

- Key drivers identified: conflict, economic activity, climate, food prices, and language about gender, conflict and government.
- Predicts the number of new refugees 4-6 months in advance.

POLICY APPLICATION

- Anticipatory action that is faster and better targeted.



Water access



Health center capacity



Classroom expansion

[LEARN MORE HERE](#)

THIS WORK IS MADE POSSIBLE BY:

The **World Bank** administered **Multi-Donor Trust Fund for Forced Displacement** and the **PROSPECTS Partnership**, with support from the **Kingdom of the Netherlands**.



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