WFP World Food Programme

INNOVATION ACCELERATOR

WFP Innovation Accelerator

From Space to Field: WFP Innovations for Zero Hunger

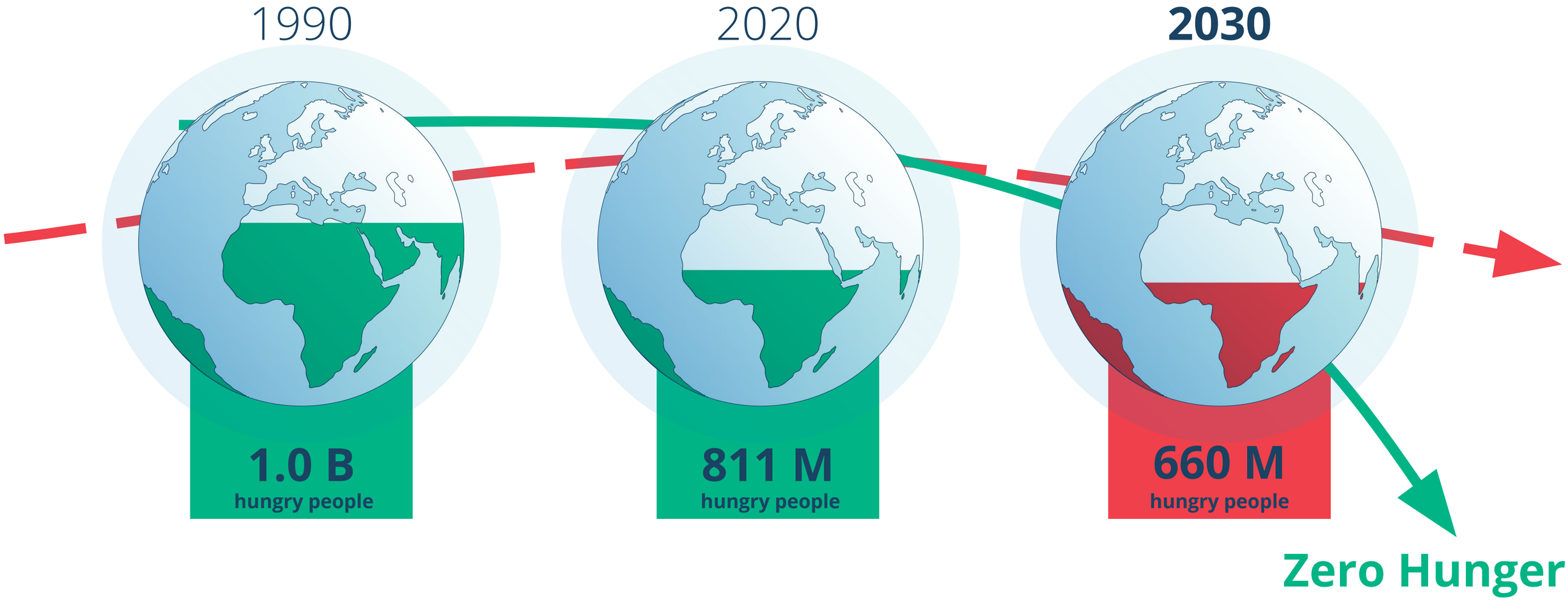
UN/AUSTRIA SYMPOSIUM: “Space Applications for Food Systems”

7 September 2021

***#disrupt*hunger** **@WFPInnovation** **WFP Innovation Accelerator**
@Hila_co

WFP
World Food Programme
SAVING LIVES
CHANGING LIVES
WFP is
saving lives,
changing lives
WFP
World Food Programme
NOBEL PEACE PRIZE LAUREATE 2020

We need to close the gap to Zero Hunger



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The challenges of COVID-19 makes innovation even more important!

The **WFP Innovation Accelerator** sources, supports and scales high-impact innovations to disrupt hunger.

Federal Ministry for Economic Cooperation and Development

Federal Foreign Office

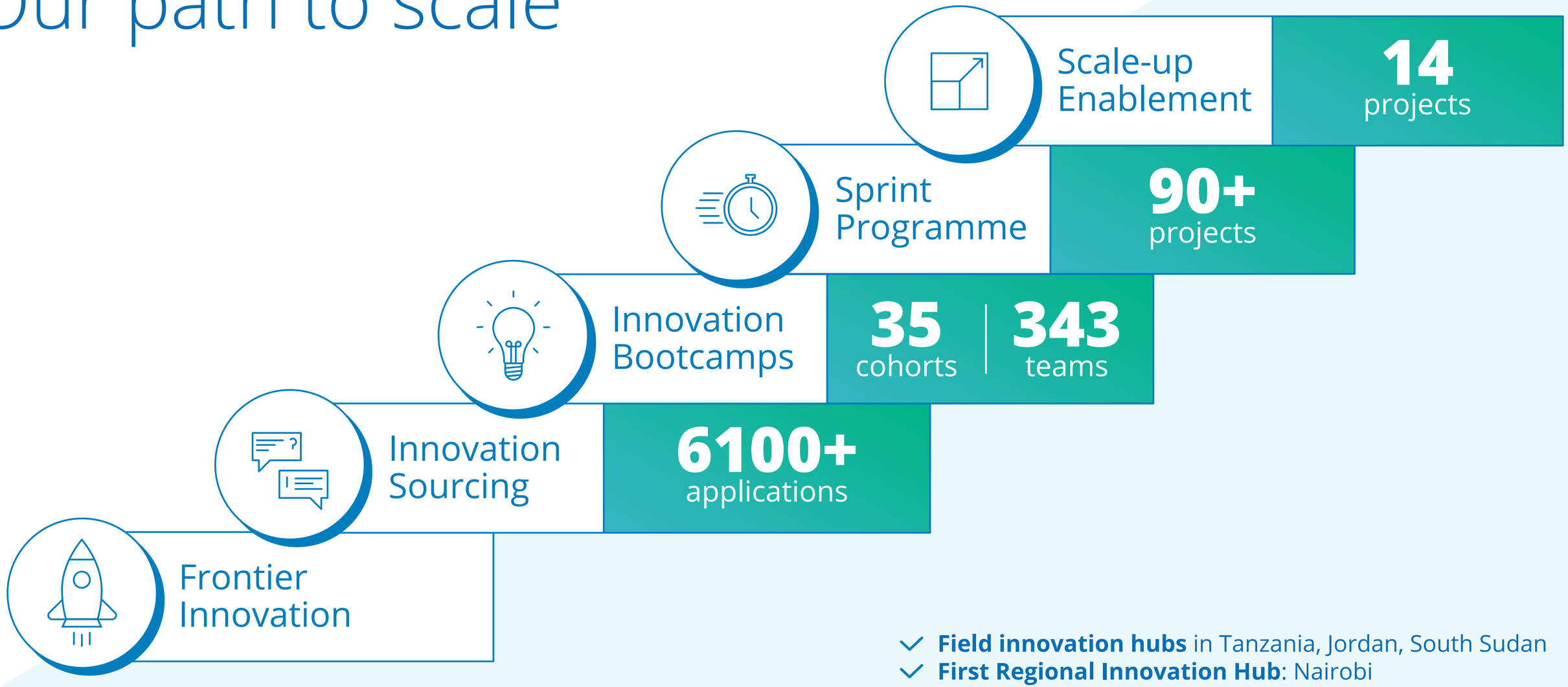
Bavarian State Ministry of Food, Agriculture and Forestry

Government of the Netherlands

USAID FROM THE AMERICAN PEOPLE

THE GOVERNMENT OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of Foreign and European Affairs
Directorate for Development Cooperation and Humanitarian Affairs

Our path to scale



- **Field innovation hubs** in Tanzania, Jordan, South Sudan
- **First Regional Innovation Hub**: Nairobi
- **Full programme virtual**

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CREATING HOPE IN CONFLICT: A HUMANITARIAN GRAND CHALLENGE

BILL & MELINDA GATES foundation

UNFPA

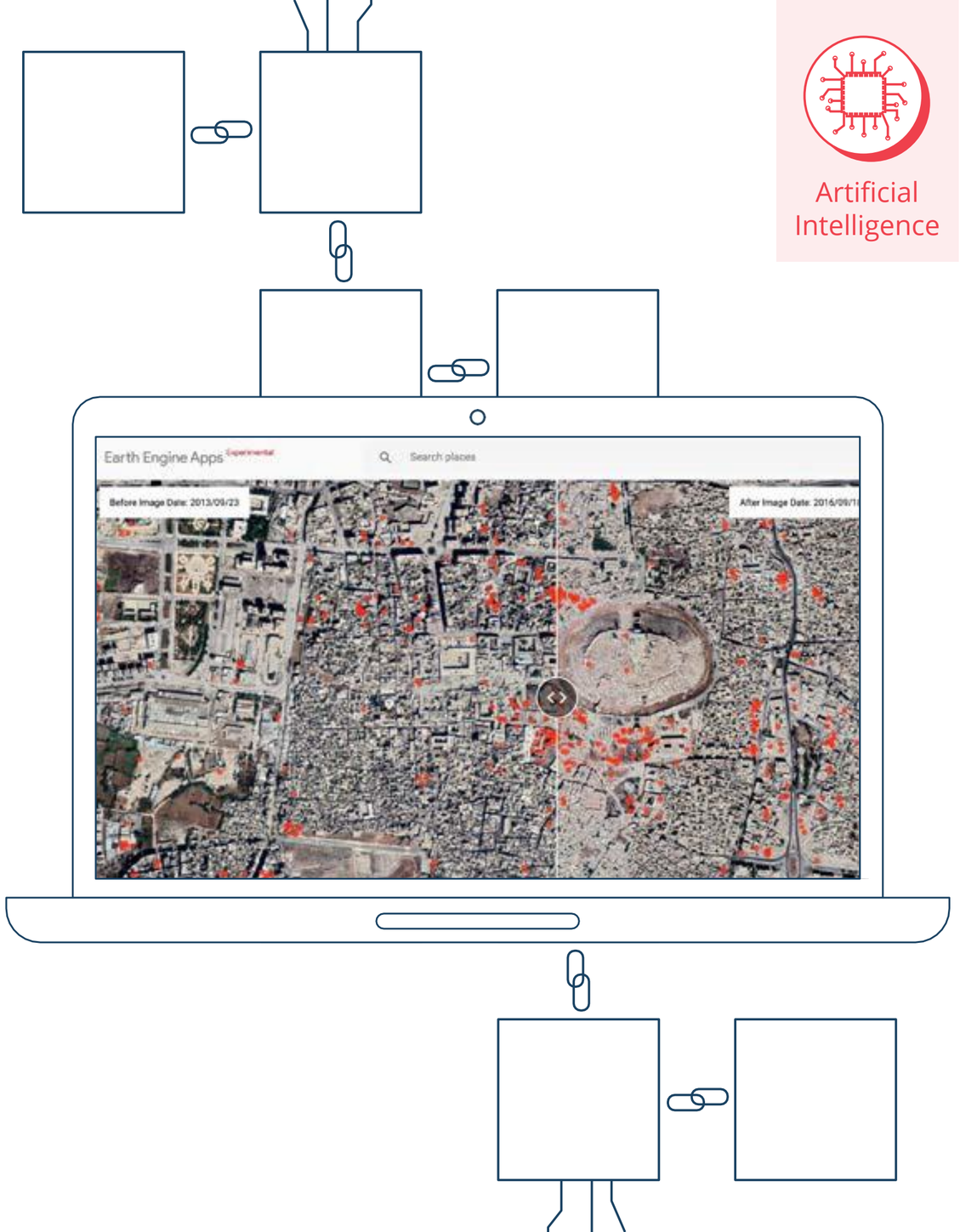
DSC

SKAI

A lack of on-the-ground information at the start of a humanitarian crisis is a major obstacle to a quick, effective response.

In collaboration with **Google AI**, SKAI uses AI to analyze satellite images to automatically assess damage post disasters. It drastically speeds up the process of extracting insights from the ground, and enables speedy and accurate emergency response.

SKAI was **utilized by WFP to conduct a damage assessment of the August 2020 Beirut explosion, Ethiopia Tigray Conflict, and Fiji Cyclone Ana**. SKAI is also now being integrated into WFP's GIS toolkits.



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Cloud to Street

Ghana | The Gambia | Republic of the Congo | Sri Lanka

Cloud to Street is a remote sensing platform to predict, map and analyze floods in real time.

By using global satellite imagery and cloud computing, it analyses flooding on the ground and continuously estimates flood probabilities. As the platform is remote and automated, the maps and analytics are affordable, fast, and accessible for governments and aid agencies left off of traditional maps.

In 2020, Cloud to Street identified over **23,500 km^2** of flood-prone land, helping protect **1.2 million people** at risk or impacted by a major flood event.

16,000
people received
WFP cash vouchers

Enabled
US$ 13.5 million
in multilateral aid for
flood-affected communities

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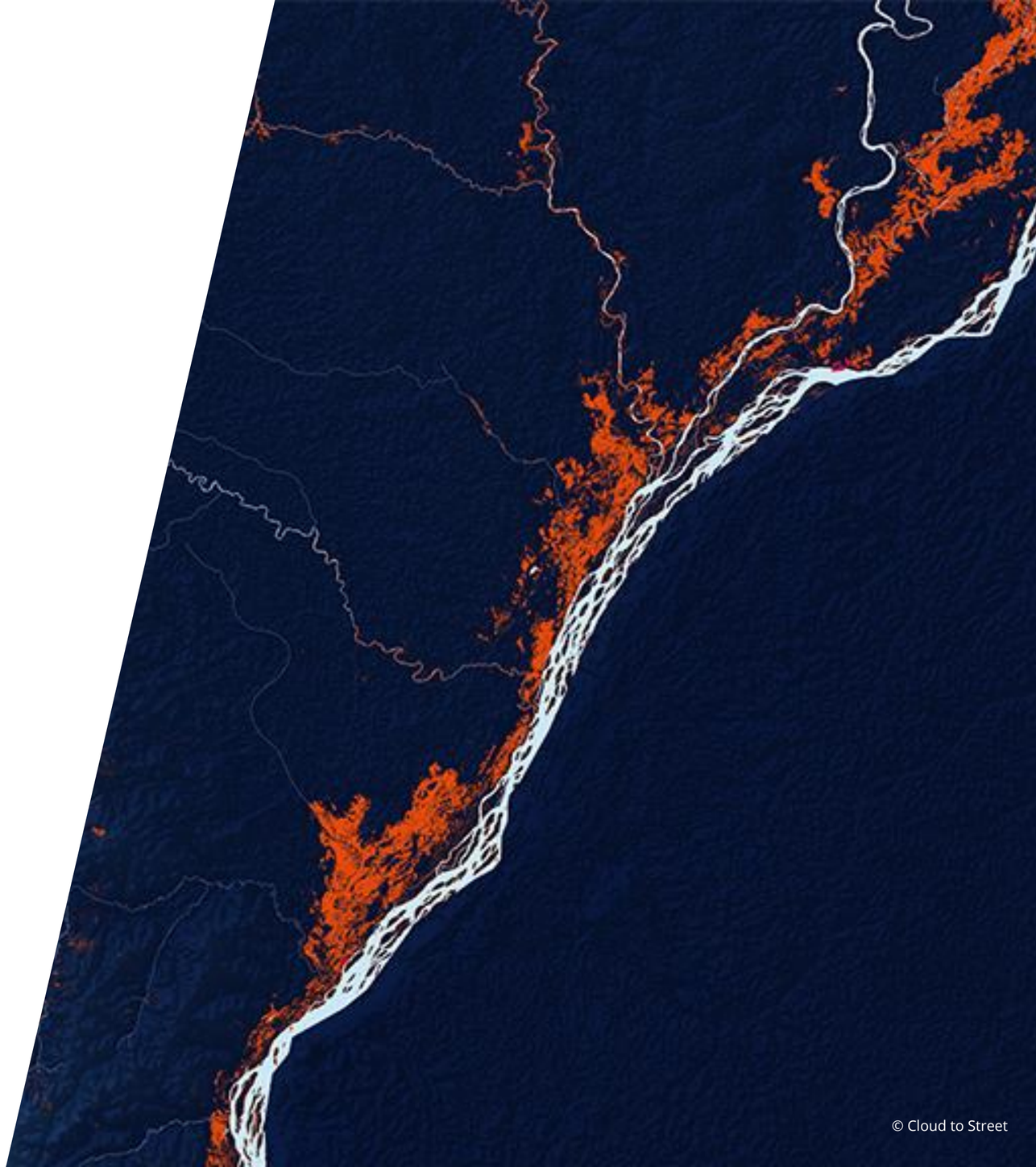


© Cloud to Street

PRISM

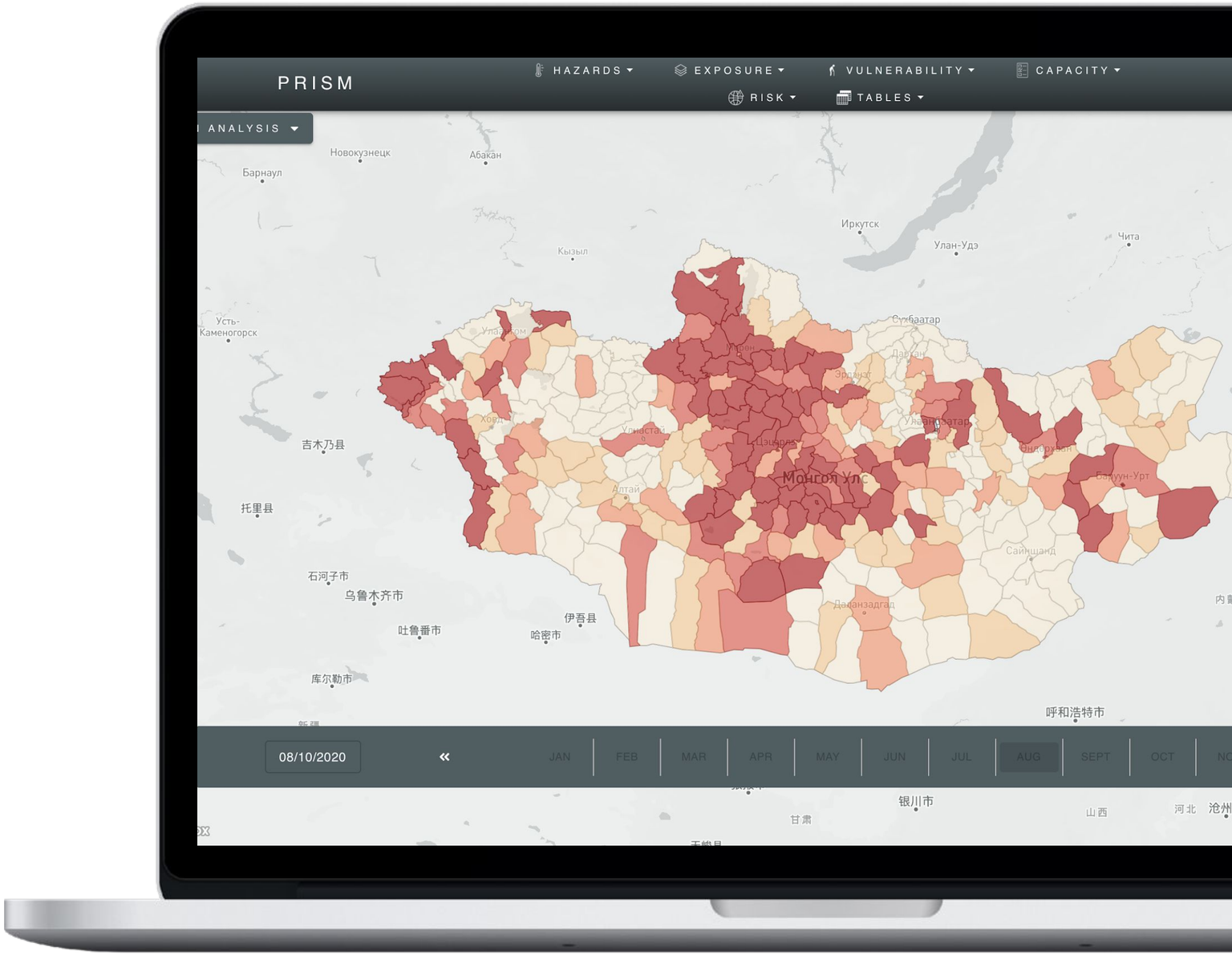
Cambodia | Indonesia | Sri Lanka | Mongolia

PRISM tracks the impact of major climate events in order to design risk reduction activities and target disaster responses. By bringing different data streams into a single interactive map, PRISM shows the extent of damage on drought-affected areas, the impacts on markets and the coping strategies and resilience of affected populations.

PRISM grew from **Indonesia** and **Cambodia**, to an **Asia-Pacific regional initiative**, to a ready-to-scale platform led by WFP headquarters.

388,392
people reached

Launched in
Mongolia
in May 2020



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It's time to
***#disrupt*hunger.**

innovation.wfp.org

global.innovation@wfp.org

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