

Introducing the Humanitarian Data Exchange

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centre for humdata

Agenda

- 1. OCHA Centre for Humanitarian Data
- 2. The Humanitarian Data Exchange (HDX)
- 3. HDX Crisis Pages
- 4. New: HDX HAPI and HDX Signals
- 5. Why Joining HDX Matters

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Centre for Humanitarian Data

The Hague, the Netherlands

managed by





NEW YORK

USA

THE HAGUE

NETHERLANDS

GENEVA

SWITZERLAND

BUCHAREST

ROMANIA

NAIROBI

KENYA

DAKAR

SENEGAL

BANGKOK

THAILAND



Our Ambition

The goal of the Centre is to increase the **use** and **impact** of data in humanitarian response.

Our Workstreams

1

DATA SERVICES

Making humanitarian data easy to find and use for analysis, closing data gaps and facilitating data processing at scale.



DATA RESPONSIBILITY

Ensuring the safe, ethical and effective management of personal and non-personal data for operational response.



DATA SCIENCE

Conducting advanced analysis and creating insight to anticipate and respond to needs arising from predictable shocks.



LEARNING & PRACTICE

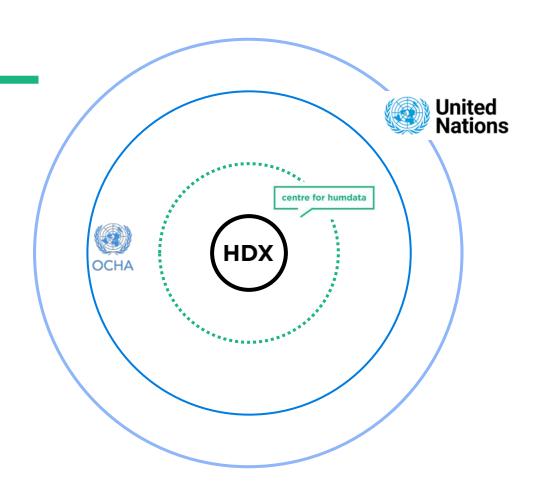
Increasing the confidence of humanitarians to engage with data and make effective use of analysis.



Our position within the UN

The Centre is part of UN OCHA

Within the Information Management Branch of UN OCHA sits the Centre for Humanitarian Data. At the core of the Centre is HDX.



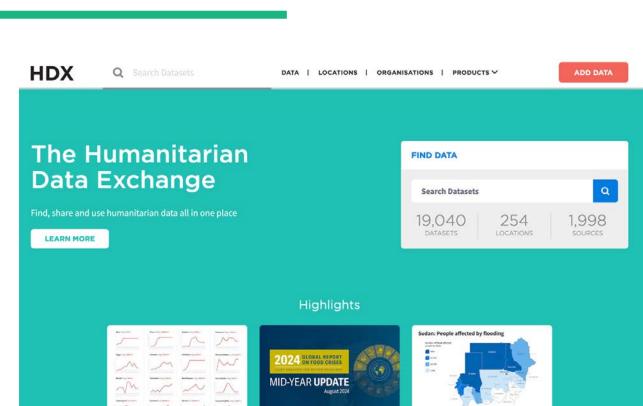
The Humanitarian Data Exchange

The Humanitarian Data Exchange

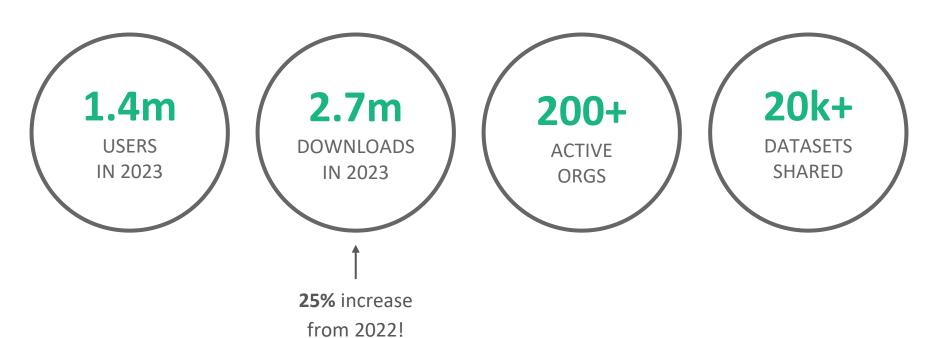
OCHA's open platform for sharing data.

The goal of the the Humanitarian Data Exchange is to make humanitarian data easy to find and use for analysis.

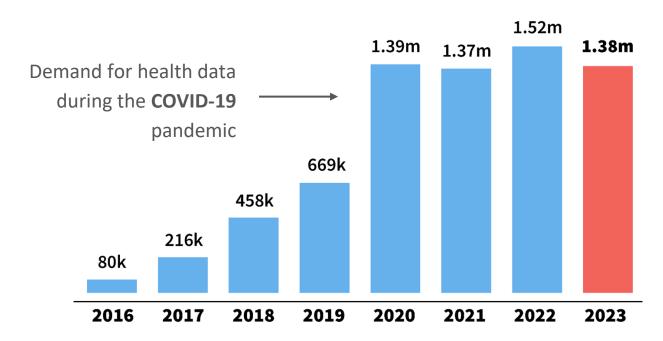




HDX in Numbers



HDX Unique Users 2016-2023



millions | Creation date: 04 January 2024

Humanitarian Data Categories

1.

Baseline data

Data about the context of the crisis

2.

Situational data

Data about the people affected and their needs

3.

Response data

Data about the humanitarian response

We welcome any type of data on HDX that can support a humanitarian response, especially satellite and climate related data.

Humanitarian Data Formats

1.

A PDF file is not data!

It's difficult to extract data from PDFs. If you wish to share PDFs, like situation reports, visit ReliefWeb. 2.

We love CSV and Excel!

We love tabular data. Easy for analysis and compatible with tools for data processing.

3.

For Geodata we like SHP, GeoJSON

Essential for mapping and GIS applications. For raster data (like Satellite Imagery) we like GeoTIFF files.

Sample of orgs sharing data on HDX







































Type of data shared on HDX and by whom



Geodata such as roads, airports, populated places and many more



Population Density
Data



Displacement
Data (DTM)



Refugee Data, Needs
Assessment Data



Conflict
Data



Satellite Imagery for Disaster Response



Population Statistics
Data

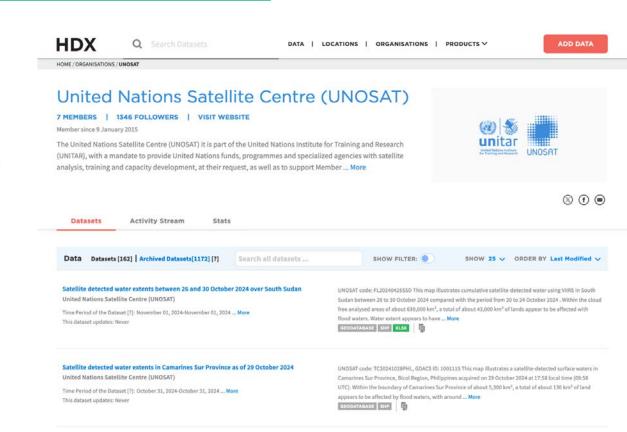


Humanitarian Needs Data,Operational Presence

United Nations Satellite Centre (UNOSAT)

- UNOSAT have been a trusted partner of HDX for 10 years!
- Over 1,000 damage assessment maps on HDX
- Around 900 unique users visit the UNOSAT page each month
- Average 540 downloads per month



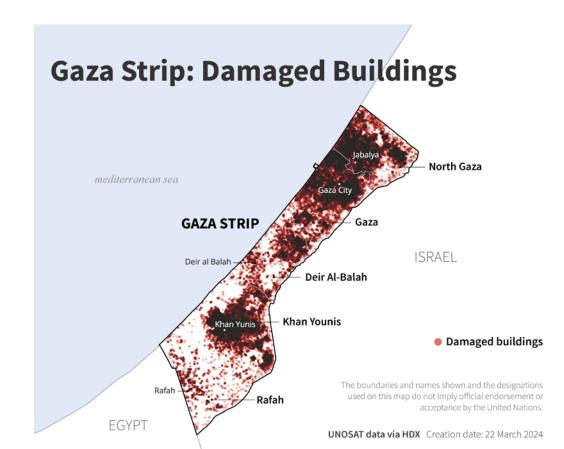


The Importance of Sharing Satellite Imagery

Timely satellite imagery is crucial for effective crisis response, especially when access is an issue in the early days of a crisis.

Space data provides vital insights on damage, access constraints, and response prioritization.

Sharing space data on HDX can make a real difference, and we welcome more partners to contribute!



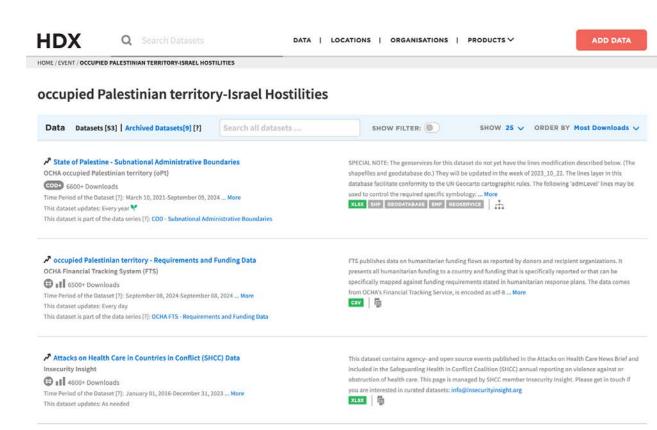
HDX Crisis Pages

HDX Crisis Pages

When a crisis occurs, there's high demand for data related to the event.

Crisis pages bring together all relevant information in one place for users to easily find, download and use.





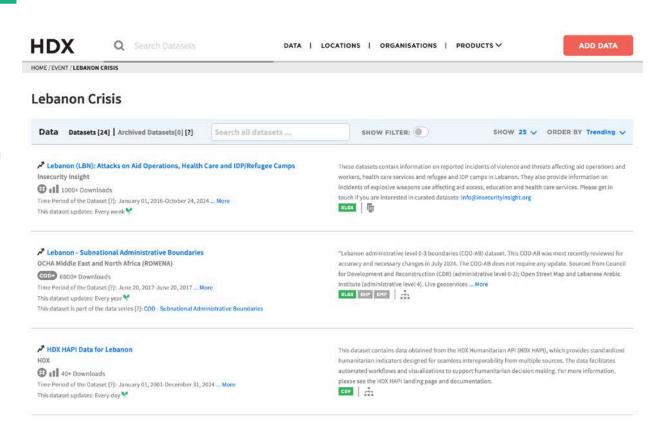
HDX Crisis Pages

We recently set up a new crisis page for the **Lebanon Crisis**.

Here you can find core datasets such as:

Admin boundaries, displacement data and conflict events.





Core datasets you will find on a HDX Crisis Page

Subnational Administrative Boundaries - OCHA Field Information Services Section (FISS)

Subnational Population Statistics - UNFPA

Requirements & Funding Data - OCHA Financial Tracking System (FTS)

All Infrastructure Data (roads, railways, ports, airports, health & education facilities) - Humanitarian OpenStreetMap Team (HOT)

Satellite imagery (especially for sudden onset crisis) - United Nations Satellite Centre (UNOSAT)

Population Density - WorldPop, Kontur

Sub-national Poverty Data - Oxford Poverty & Human Development Initiative

Conflict Events - Armed Conflict Location & Event Data Project (ACLED)

The HDX Humanitarian API





The HDX Humanitarian API (HAPI) provides access to standardized indicators from multiple sources to automate workflows and visualizations.



HAPI Data Availability

This table displays the available data by administrative level for each subcategory and country included in HAPI.



	Affected People				
	Humanitarian Needs Go to API Sandbox	Internally-Displaced Persons Go to API Sandbox	Refugees & Persons Of Concern Go to API Sandbox	Returnees Go to API Sandbox	Conflict Ever Go to API Sandb
AFGHANISTAN	000	000	0	0	2
BURKINA FASO	0	000	0	_	0
CAMEROON	00	0	0	0	0
CENTRAL AFRICAN REPUBLIC	0 0	0	0	0	0
CHAD	0	000	0	0	0
COLOMBIA	00	_	0	0	0
DEMOCRATIC REPUBLIC OF THE CONGO	•	0	•	0	0
EL SALVADOR	0	0 0	0	0	0

HDX Signals

HDX Signals

HDX Signals

A new product that monitors key datasets and generates automated emails when significant, negative changes are detected.

Choose your datasets of interest and locations of interest.



Step 1: Datasets of interest * Select all Clear all	
Conflict-driven displacement - IDMC	
Disaster-driven displacement - IDMC	
Armed conflict - ACLED	
Food insecurity - IPC/CH	
Agricultural hotspots - JRC ASAP	
Market monitoring - WFP	
Step 2: Locations of interest * Select all Select all HRP locations [?] Clear all	
Asia and the Pacific	Europe
Select all Clear all	Select all Clear all
All locations in the region	All locations in the region
☐ Afghanistan	Ukraine
☐ Myanmar	
Latin America and the Caribbean	Middle East and North Afr
Select all Clear all	Select all Clear all
✓ All locations in the region	All locations in the region
Colombia	State of Palestine
El Salvador	Syrian Arab Republic
Guatemala	Yemen
☐ Haiti	
☐ Honduras	
Vanezuela (Rolivarian Penuhlis of)	

Final Words: Why Joining HDX Matters

Why join HDX?



- 1. Amplify Your Impact! Data saves Lives
- 2. Data Access, Visibility and Influence
- Contribute to a Trusted Source of Crisis Data
- 4. Join a Supportive Data Community
- 5. Use HDX's Tools and Resources (Signals and HAPI)

Final Words

We are always on the lookout for new partnerships and new data sources. Let's connect over the coming days if you are interested in joining the HDX community!

Follow the Centre on Linkedin



Thank you!

For any questions or comments, please reach out at burkea@un.org

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