

INTERNATIONAL ORGANIZATION FOR MIGRATION

GEOSPATIAL DATA

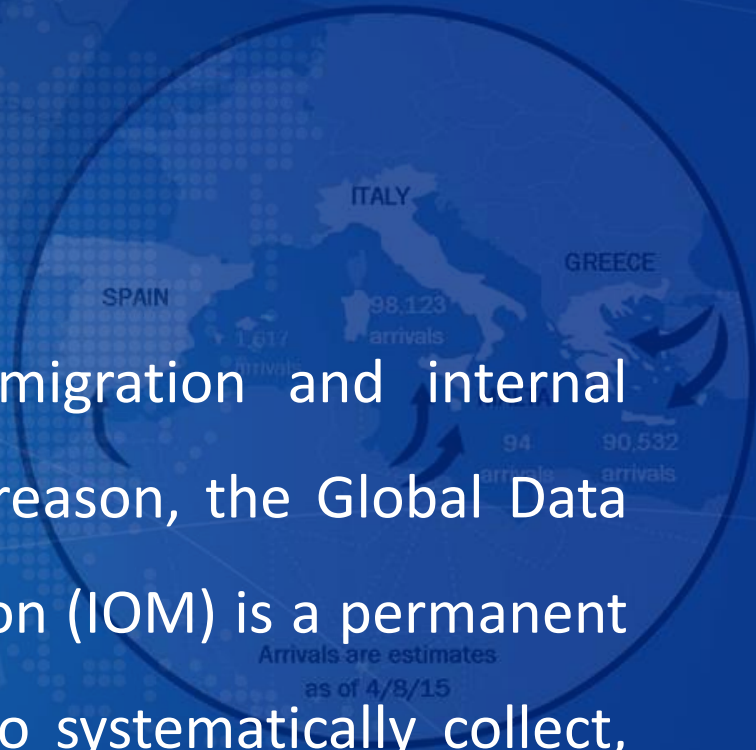
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Geospatial Data in IOM

Geospatial Data is completely linked to the field of migration and internal displacement, which are entirely location-based. For this reason, the Global Data Institute (GDI) of the International Organization for Migration (IOM) is a permanent producer and consumer of geospatial data and services to systematically collect, manage, analyze, and disseminate geospatial information on mobility patterns across the globe.



- Land migration routes
- - - - Maritime migration routes
- Central Mediterranean route
- East Africa route
- East Mediterranean route
- West Africa route
- West Mediterranean route
- ↪ Migration flows

GLOBAL Displacement Data Portal

[Displacement.iom.int](https://displacement.iom.int)

DTM understanding displacement

Search location Regions Countries Share Login

Displaced population tracked by DTM
39,151,191
As of 2021

The information displayed on this page represents the most recent DTM results. For more detailed, time series data, please access individual country pages.

Population displaced by conflict and violence
44,952,870
As of Dec 2021, in countries with active DTM. Source: IDMC

LEGEND

- Current DTM operation
- Previously active DTM operation or flow monitoring operations

6,000 Data collectors

400 technical experts

Over 80 countries

CAUSE OF DISPLACEMENT

- All
- Natural hazard
- Conflict
- Other (political or economic reasons)

LATEST DTM REPORT

[South Sudan – Sex and Age Disaggregated Data \(SADD\)](#)

World map

Base map from Google and country shapes from ESRI are for illustration purposes only. Names and boundaries do not imply official endorsement or acceptance by IOM.

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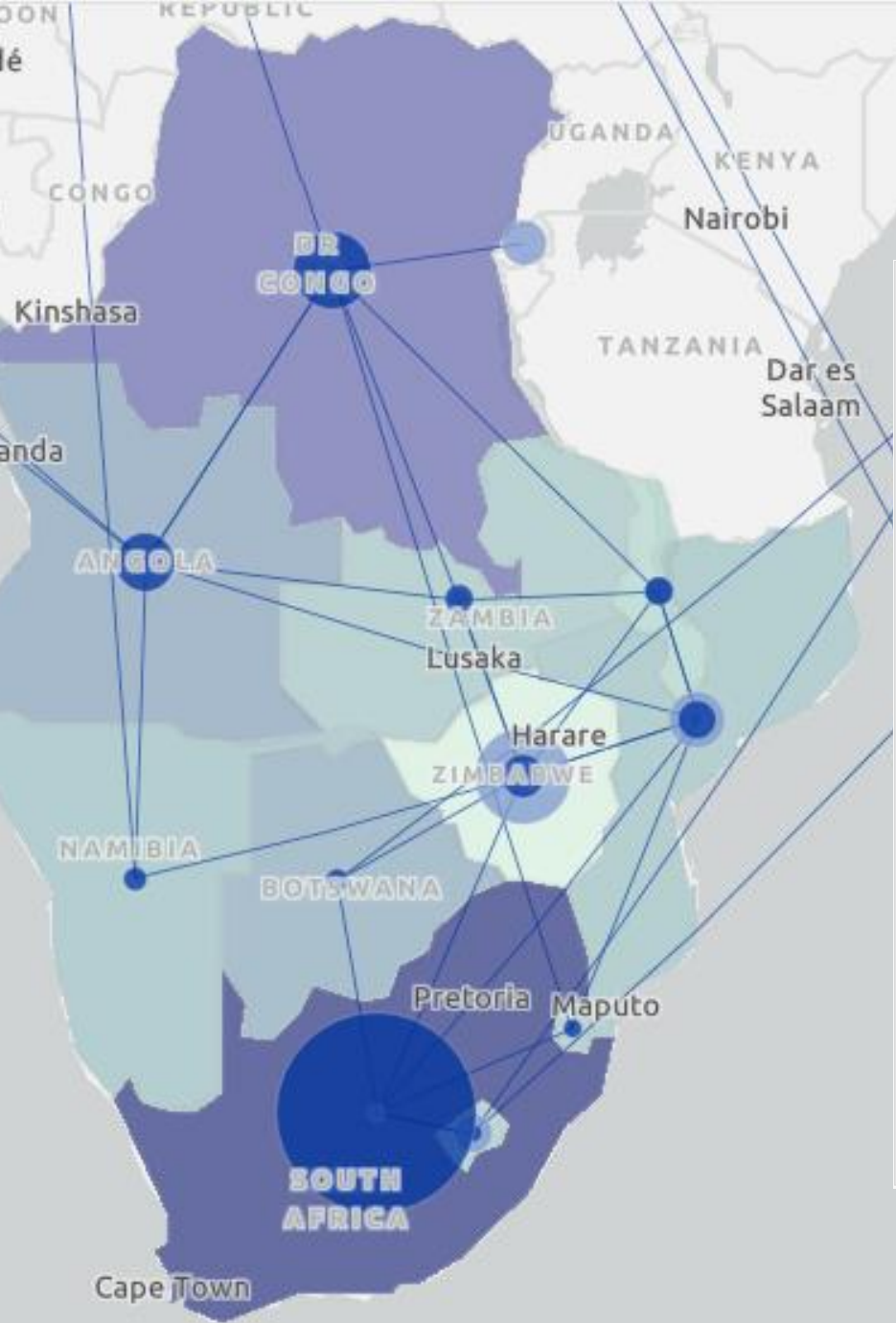


24,371

MISSING MIGRANTS

RECORDED IN MEDITERRANEAN (SINCE 2014)

- Open-access global database documenting deaths & disappearances during migration.
- Data inform SDG Indicator 10.7.3 and GCM Objective 8.
- Data analysis and thematic awareness-raising in briefings and reports.



REGIONAL Migration Data Hub for Southern Africa

Migrant Flow
Year Loading...
Month 10 - Oct
High Mobility Area All

Map showing migration flows between major cities in Southern Africa, including Kinshasa, Nairobi, Dar es Salaam, Lusaka, Harare, Pretoria, Maputo, and Johannesburg. Migration icons and arrows indicate movement directions between these hubs.

53,640 Total Individual Movement

Male Age Breakdown

Under 5 years	~1k
5 to 17 years	~1k
18 to 29 years	~5k
30 to 39 years	~10k
40 to 49 years	~12k
50 to 59 years	~5k
60 years and above	~1k

Movement Reason

- Long Term Economic (> 6 months) 9%
- Seasonal 2%
- Forced (Disaster) 0%
- Forced (Conflict) 0%
- Family Reunion 13% (> 6 months)
- Short Term Local (< 6 months) 76%
- COVID19 0%
- Unknown 0%

Female Age Breakdown

Under 5 years	~2k
18 to 29 years	~15k
40 to 49 years	~25k
60 years and above	~5k

Mode of Transport

Bus	~25k
Three Wheel	~50k
Train	~15k
Animal	~5k

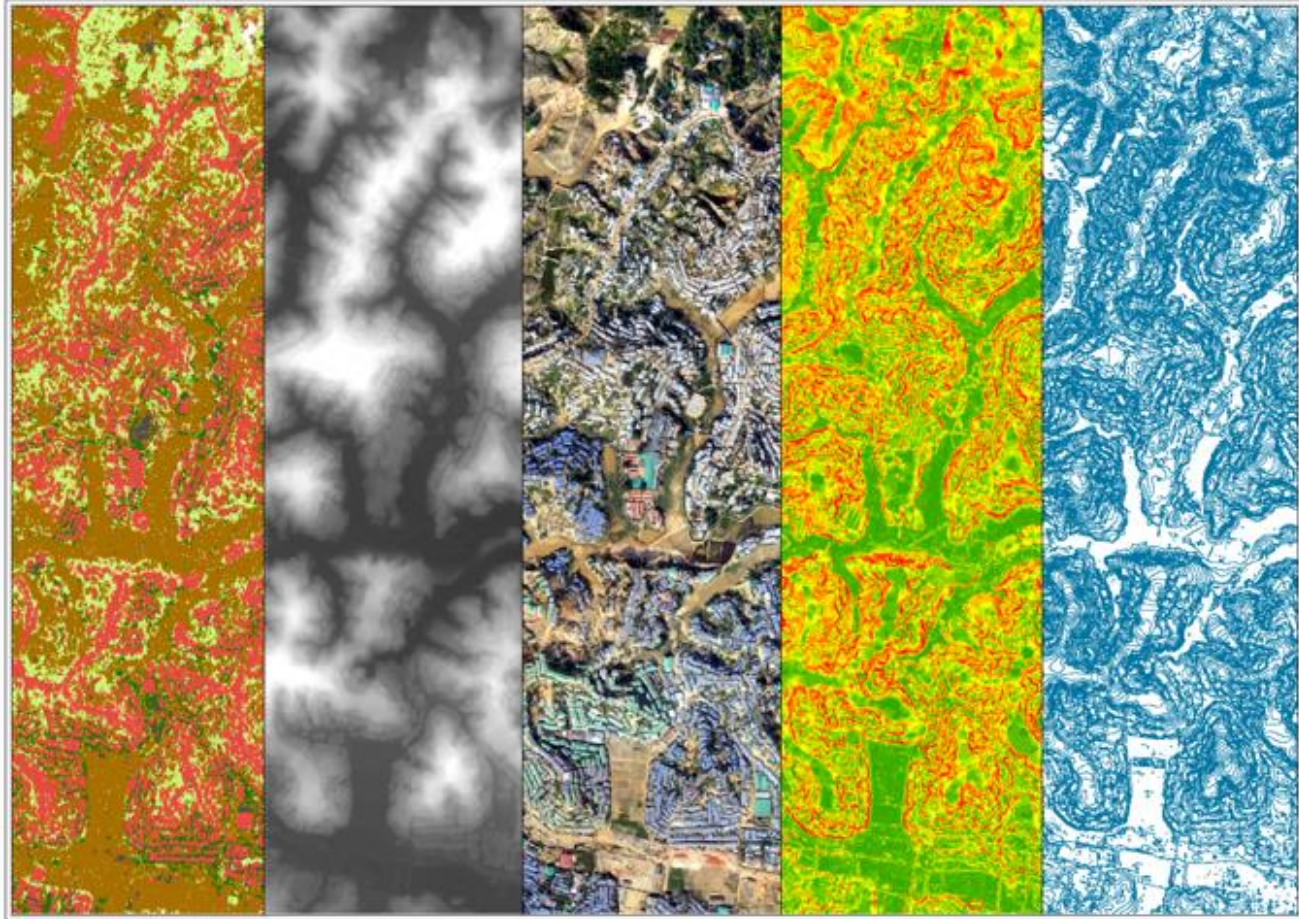
Movement Trends

Month	Movement
1 - Jan	~15k
2 - Feb	~5k
3 - Mar	~10k
4 - Apr	~15k
5 - May	~15k
6 - Jun	~15k
7 - Jul	~20k
8 - Aug	~35k
9 - Sep	~50k
10 - Oct	~55k

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COUNTRY

Rohingya Humanitarian Crisis Response



01 - Point cloud:

- Classification of geographical objects
- Extraction of surface and terrain model

02 - Terrain model:

- Terrain model with ground information for analysis
- For site development unit and disaster risk reduction expert
- Analysis of area prone to flood risks

03 - Drone imagery:

- Geographical objects extraction as shelters, infrastructures, roads, waterbodies
- Used as background base map for map products
- Layers overlaid to orientation maps

04 - Slopes:

- For risks of landslides analysis and shelters in risk area
- Analyzing the terrain slope for hydrology, site planning, and infrastructure development

05 - Contour lines:

- Calculation of 1 meter contour line based on terrain model
- Layer for further risks analysis



Linkages with the UN Geospatial Situation Room

- Enhance the availability and use of geospatial data to achieve positive impacts for migrants and societies.
- Strengthen the evidence base geospatial data on migration and displacement globally.
- Provide live feed of migration trends and other relevant data into the UN Network Geospatial Data Hub.
- IOM geospatial data on migration and displacement is systematically used as the UN system-wide reference.
- Coordinate and share IOM efforts on geospatial analytics and methods.