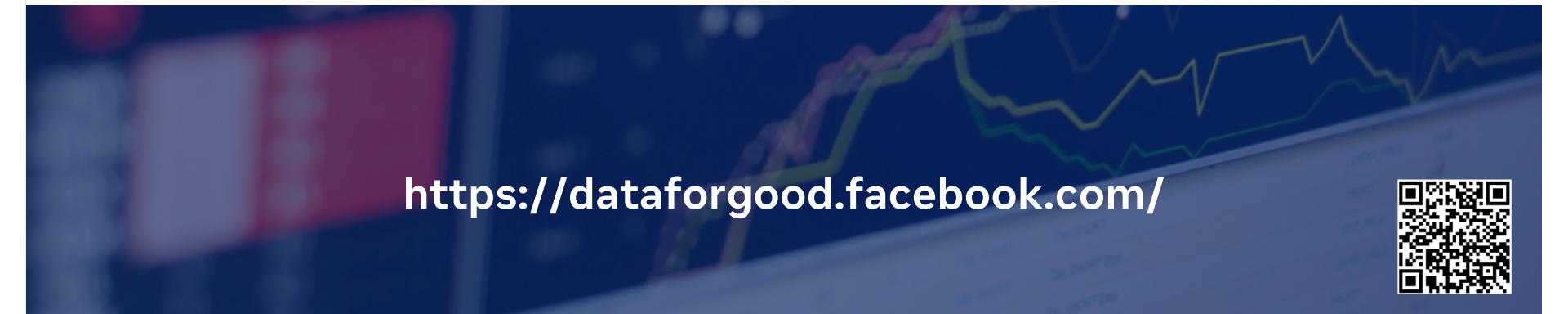




Data for Good Meta



<https://dataforgood.facebook.com/>



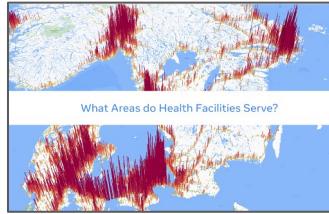
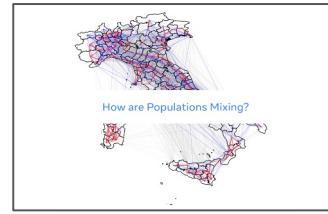
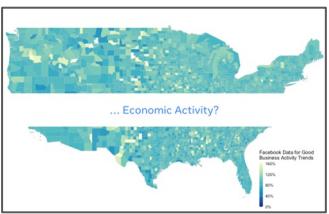
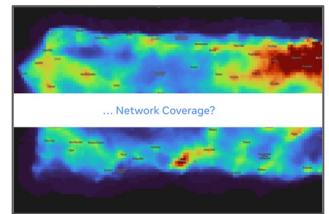
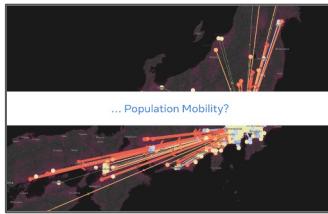
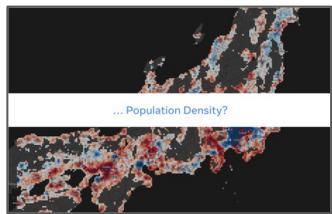
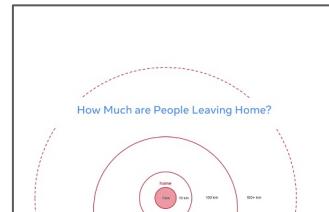
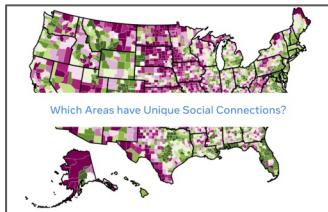
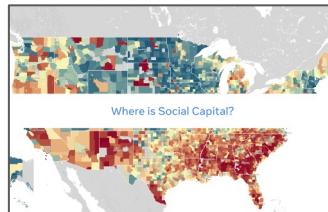
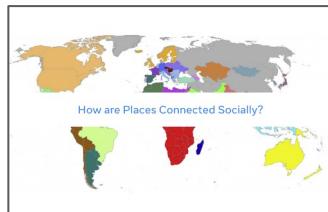


We empower partners with
privacy-preserving data that
strengthens communities and
advances social issues.

Data for Good is helping organizations respond to crises around the world and supporting research that advances economic opportunity.

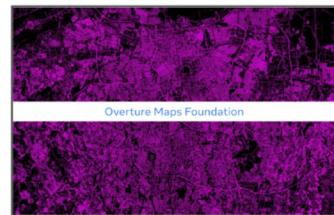
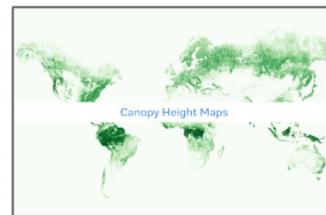
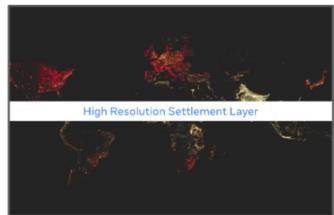


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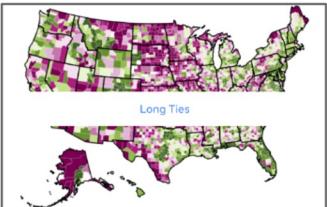
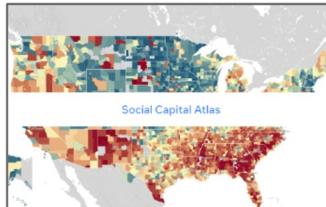
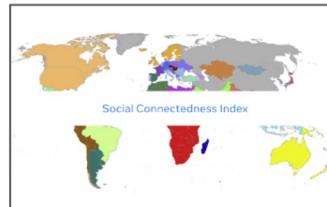


How has a
Crisis
Affected...

Built with AI

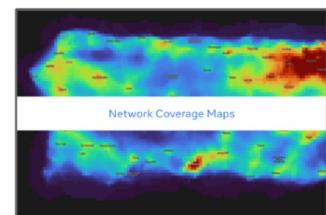


Social Capital



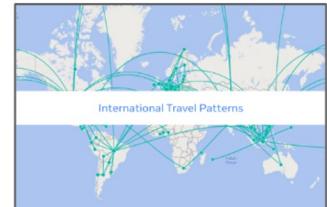
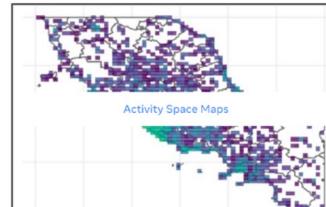
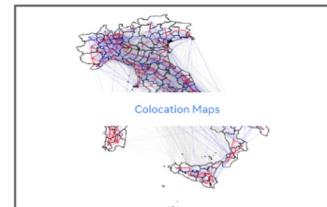
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Crisis Response



Controlled Access

Public Health





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Data for Good at Meta

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Member since 13 March 2019

We are interested in hearing from people who have used these datasets to improve our products and better understand the impact of this data. Please consider taking this two-minute survey. Data for Good at Meta's program includes tools built from de-identified data on our platform, as well as tools that we develop ... More



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- Administrative Divisions [0]
- Datasets on request (HDX Connect) [0]
- Datasets with Quick Charts [0]
- Datasets with Showcase [0]
- Datasets with HXL tags [1]
- Datasets with SADD tags [0]

DATA SERIES [?]:

- Data for Good at Meta - High Resolution Population Density Maps and Demographic Estimates [192]

LOCATIONS:

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- Albania [8]
- Algeria [8]

Facebook Social Connectedness Index

Data for Good at Meta

27000+ Downloads

Time Period of the Dataset [?]: October 13, 2021–October 13, 2021 ... More

This dataset updates: As needed

We use an anonymized snapshot of all active Facebook users and their friendship networks to measure the intensity of connectedness between locations. The Social Connectedness Index (SCI) is a measure of the social connectedness between different geographies. Specifically, it measures the relative probability that two individuals across two locations are friends with ... More

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Relative Wealth Index

Data for Good at Meta

24000+ Downloads

Time Period of the Dataset [?]: April 01, 2021–July 29, 2024 ... More

This dataset updates: As needed

The Relative Wealth Index predicts the relative standard of living within countries using de-identified connectivity data, satellite imagery and other nontraditional data sources. The data is provided for 93 low and middle-income countries at 2.4km resolution. Please cite / attribute any use of this dataset using the following: Microestimates of wealth for all low- ... More

[CSV](#) |

Movement Distribution

Data for Good at Meta

2700+ Downloads

Time Period of the Dataset [?]: December 01, 2022–July 29, 2024 ... More

This dataset updates: Every month

The Movement Distribution dataset shows the range of movement of people away from the area where they live on a daily basis. These maps are useful for projects focused on transportation, tourism, displacement, and other areas. More info available here:

<https://dataforgood.facebook.com/dfg/tools/movement-distribution-maps>

[PDF](#) [CSV](#) |

Public Datasets include

- **High Resolution Population Density Maps**

- Developed from AI, satellite imagery, and census data, which together provide estimates of the number of people living within 30 meter grid tiles and insights on demographics of populations (i.e. women, men, youth, children, women of reproductive age, and 60+)

- **Relative Wealth Index**

- Estimates the distribution of wealth/poverty at a neighborhood level (2.4 km resolution) in ~100 LMICs using non-traditional data sources and household survey data

- **Social Connectedness Index**

- Measures the strength of connectedness between two geographic areas as represented by Facebook friendship ties. It can be used to identify the ties of a country and administrative areas to other countries and their administrative areas (US county level/GADM 2 level)

- **Movement Distribution**

- Shows how far people in different regions travel from home on a given day using four distance categories (0 = stays in place; greater than 0 km but less than 10 km; at least 10 km but less than 100 km; 100 km or more)

Hurricane Beryl Pre Landfall Disaster Maps June 30 2024

Updated Jul 31, 2024 • Jun 30, 2024 – Jul 31, 2024

Facebook Population During Crisis • Saint Vincent and the Grenadines, Trinidad and Tobago, 3 others

Facebook Population During Crisis shows the number of Facebook users observed in a location following a crisis compared to a precrisis baseline period. It can help responders identify areas that are heavily impacted by a disaster, analyze how populations are reacting and where they go when they evacuate, and make strategic decisions about how to position services or supplies.

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Hurricane Beryl Pre Landfall Disaster Maps June 30 2024

Updated Jan 1, 1800 • No data found

Business Activity Trends During Crisis • Saint Vincent and the Grenadines, Trinidad and Tobago, 3 others

Business Activity Trends During Crisis uses data about posting activity on Facebook to measure how local businesses are affected by and recover from crisis events.

Hurricane Beryl Pre Landfall Disaster Maps June 30 2024

Updated Jul 31, 2024 • Jun 30, 2024 – Jul 31, 2024

Network Coverage Maps • Saint Vincent and the Grenadines, Trinidad and Tobago, 3 others

Network Coverage Maps show where people on Facebook have cellular connectivity. This data provides critical information about gaps in cellular network coverage after natural disasters for the purpose of restoring connectivity as well as determining where aid workers and communities will be able to communicate.

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Hurricane Beryl Pre Landfall Disaster Maps June 30 2024

Updated Jul 31, 2024 • Jun 30, 2024 – Jul 31, 2024

Movement Between Places During Crisis • Saint Vincent and the Grenadines, Trinidad and Tobago, 3 others

Movement Between Places During Crisis shows how many Facebook users moved from one area to another and if this movement is more or less than a normal day before a crisis or event.

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Controlled Access Datasets

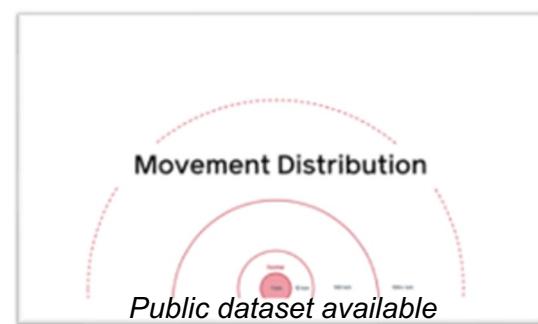
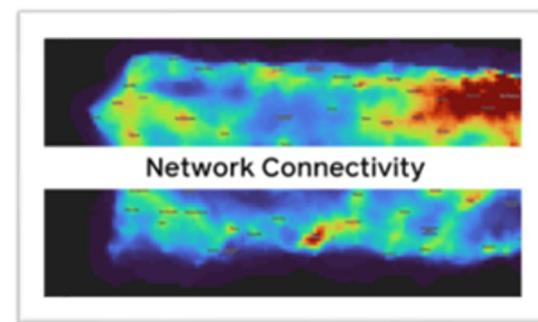
Controlled Access Datasets include

- Facebook Population during Crisis
 - Shows the number of Facebook users who have enabled Location Services and are observed in a location following a crisis compared to a pre-crisis baseline period
- Facebook Movement between Places during Crisis
 - Shows how many Facebook users who have enabled Location Services have moved from one area to another and if this movement is more or less than a normal day before a crisis or event
- Network Coverage Maps
 - Assists during an ongoing crisis by showing where people on Facebook have cellular connectivity. These maps show the usage of mobile phones indicating if there are more or fewer cell sites actively serving a location than we would expect based on pre crisis levels.
- Business Activity Trends
 - Measures how businesses are affected by crisis events through their rate of posting on Facebook. This dataset provides estimates of business activity broken down by business verticals, which we use to approximate economic sectors.

Crisis Response Tools

CRISIS RESPONSE

D4G crisis datasets help answer questions about how a crisis has affected population density, human mobility, network coverage, and economic activity



Crisis Response Product



Natural disaster events include flooding, cyclones, earthquakes, wildfires

Partner Requests



Datasets

139 datasets

Tropical Storm Filipo Across Southern Mozambique

Updated Mar 24, 2024 • Mar 14, 2024 – Mar 24, 2024

Business Activity Trends During Crisis - Mozambique

Business Activity Trends During Crisis uses data about posting activity on Facebook to measure how local businesses are affected by and recover from crisis events.

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Tropical Storm Filipo Across Southern Mozambique

Updated Mar 24, 2024 • Mar 14, 2024 – Mar 24, 2024

Network Coverage Maps - Mozambique

Network Coverage Maps show where people on Facebook have cellular connectivity. This data provides critical information about areas in cellularable to communicate.

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Tropical Storm Filipo Across Southern Mozambique

Updated Mar 24, 2024 • Mar 14, 2024 – Mar 24, 2024

Movement Between Places During Crisis - Mozambique

Movement Between Places During Crisis shows how many Facebook a normal day before a crisis or event.

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Updated Mar 24, 2024 • Mar 14, 2024 – Mar 24, 2024

Facebook Population During Crisis - Mozambique

Facebook Population During Crisis shows the number of Facebook period. It can help responders identify areas that are heavily impact evacuate, and make strategic decisions about how to position service

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Crisis datasets generated in D4G Partner Portal

1. Facebook Population during Crisis
2. Facebook Movement between Places during Crisis
3. Business Activity Trends
4. Network Coverage Maps

*Movement Distribution is by request and on HDX as a global dataset

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Tanzania Cholera And Measles Outbreak Jan 23 2024

New

Updated Jan 25, 2024 • Jan 23, 2024 – Jan 25, 2024

Network Coverage Maps • Tanzania

Network Coverage Maps show where people on Facebook have cellular connectivity. This data provides critical information about gaps in cellular network coverage after natural disasters for the purpose of restoring connectivity as well as determining where aid workers and communities will be able to communicate.

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Tanzania Cholera And Measles Outbreak Jan 23 2024

New

Updated Jan 25, 2024 • Jan 23, 2024 – Jan 25, 2024

Business Activity Trends During Crisis • Tanzania

Business Activity Trends During Crisis uses data about posting activity on Facebook to measure how local businesses are affected by and recover from crisis events.

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Tanzania Cholera And Measles Outbreak Jan 23 2024

New

Updated Jan 25, 2024 • Jan 23, 2024 – Jan 25, 2024

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Tanzania Cholera And Measles Outbreak Jan 23 2024

New

Updated Jan 25, 2024 • Jan 23, 2024 – Jan 25, 2024

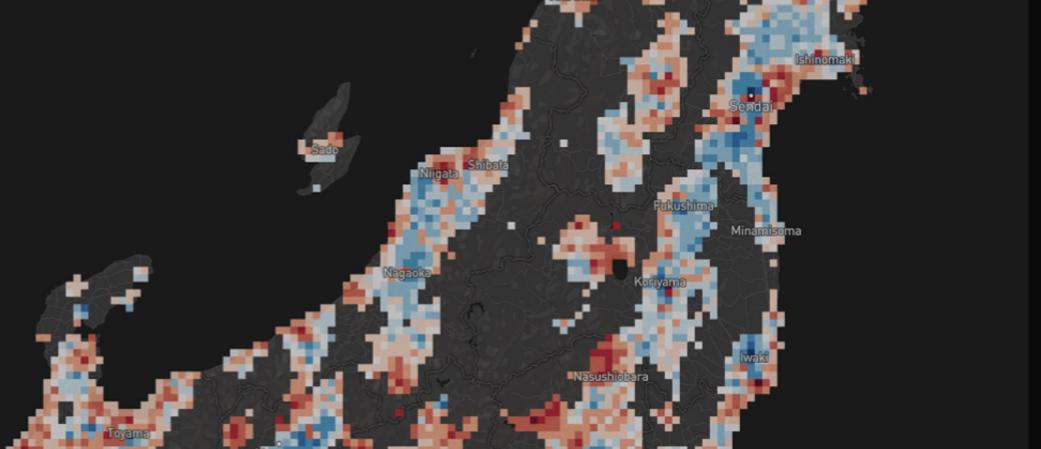
Movement Between Places During Crisis • Tanzania

Movement Between Places During Crisis shows how many Facebook users moved from one area to another and if this movement is more or less than a normal day before a crisis or event.

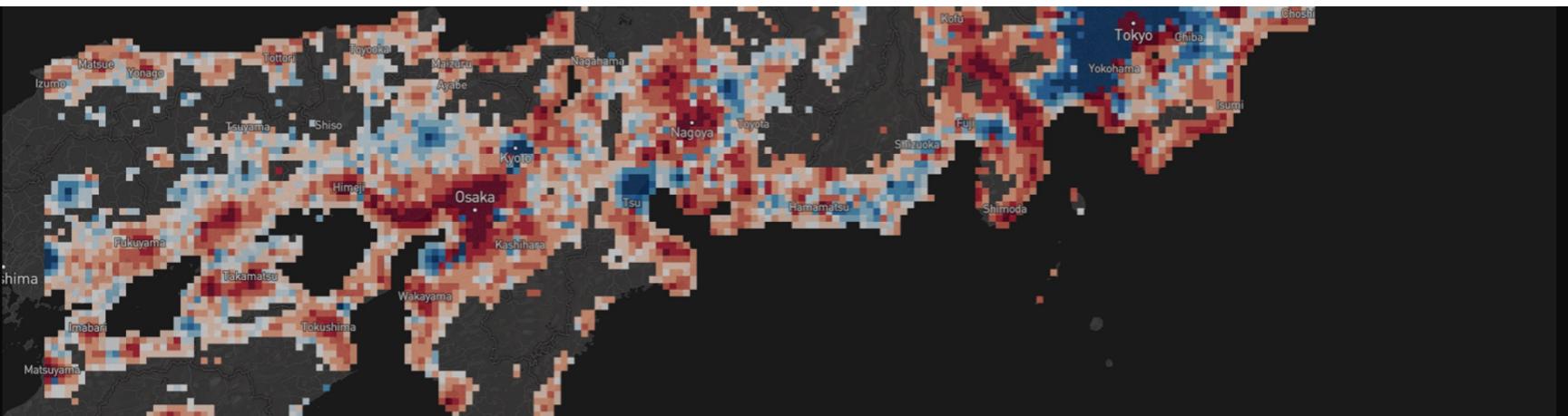
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Four datasets generated in Partner Portal:

1. Facebook Population during Crisis
2. Facebook Movement between Places during Crisis
3. Business Activity Trends
4. Network Coverage Maps



Facebook Population During Crisis



Facebook Population during Crisis



Hurricane Beryl Across Quintana Roo and Yucatan, Mexico
Jul 5, 2024 – Jul 18, 2024 • Mexico • Facebook Population During Crisis

Spatial aggregation: Bing tiles ▾

About	Documentation	Map	Table preview	Files											
latitude	longitude	quadkey	country	date_time	n_baseline	n_crisis	n_difference	density_baseline	density_crisis	percent_change	z_score	ds			
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Facebook Population during Crisis



Hurricane Beryl Across Quintana Roo and Yucatan, Mexico
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Spatial aggregation: Administrative regions ▾ [Download](#) [Open](#)

polygon_id	polygon_name	polygon_level	polygon_ver...	country	date_time	n_baseline	n_crisis	n_difference	density_base...	density_crisis	percent Chan...	z_score	latitude	longitude	ds
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MEX.31.34_1	Hocabá	GADM2	3.6	MX	2024-07-18 1...	1252.231549...	1215.0	-37.2315498...	0.000686761...	0.0006867570...	-2.97084364...	-0.57072785...	20.78755710...	-89.1869100...	2024-07-18
MEX.31.10_1	Cantamayec	GADM2	3.6	MX	2024-07-18 1...	221.5069787...	208.0	-13.5069787...	0.000121481...	0.000117707...	-6.07036186...	-0.65262664...	20.39537658...	-89.0533709...	2024-07-18
MEX.27.8_1	Emiliano Zap...	GADM2	3.6	MX	2024-07-18 1...	2384.916666...	2226.0	-158.916666...	0.001307960...	0.001259697...	-6.66061262...	-3.00916346...	17.66755024...	-91.6447909...	2024-07-18
MEX.31.7_1	Cacalchén	GADM2	3.6	MX	2024-07-18 1...	55.33333333...	55.0	-0.3333333...	3.034647440...	3.112459969...	-0.59171597...	-0.08225003...	21.00505584...	-89.2800919...	2024-07-18
MEX.27.5_1	Centro	GADM2	3.6	MX	2024-07-18 1...	162719.0	151432.0	-11287.0	0.089240023...	0.085695643...	-6.93645526...	-2.27386456...	17.98917135...	-92.8679406...	2024-07-18
MEX.31.63_1	Samahil	GADM2	3.6	MX	2024-07-18 1...	870.0287307...	832.0	-38.0287307...	0.000477150...	0.000470830...	-4.36595595...	-1.31581533...	20.80774414...	-89.9544815...	2024-07-18
MEX.5.103_1	Tzimol	GADM2	3.6	MX	2024-07-18 1...	4672.453552...	4523.0	-149.453552...	0.002562514...	0.002559573...	-3.19792527...	-1.46914069...	16.12954409...	-92.2126183...	2024-07-18
MEX.31.66_1	Santa Elena	GADM2	3.6	MX	2024-07-18 1...	163.4166666...	136.0	-27.4166666...	8.962264503...	7.696264651...	-16.6751140...	-1.57223819...	20.25204093...	-89.7493304...	2024-07-18

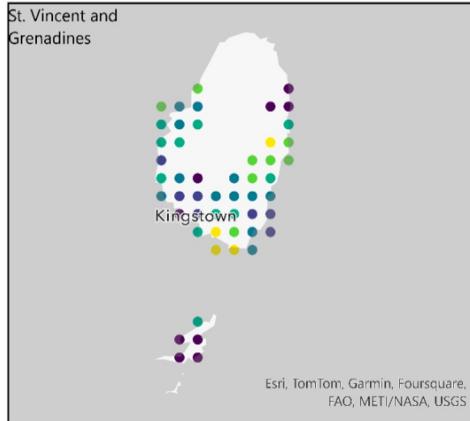
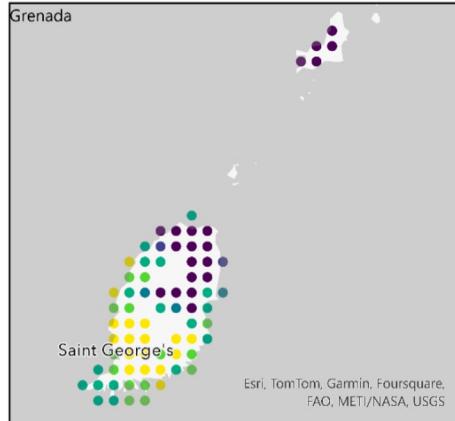
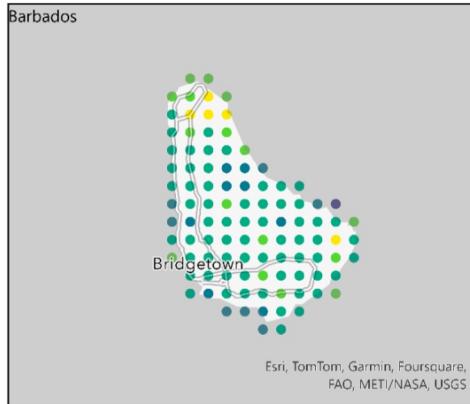
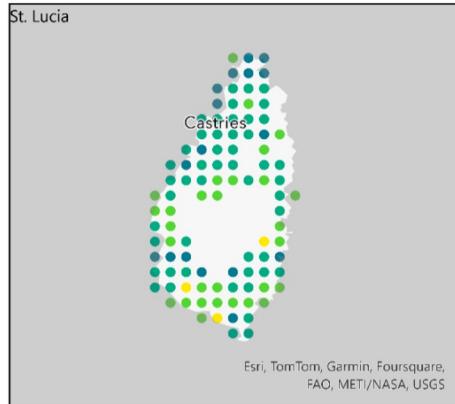
Hurricane Beryl Population Dynamics on the Windward Islands: Grenada, St. Vincent and Grenadines, St. Lucia, and Barbados

Change in Facebook User Population Relative to 90-Day Pre-Landfall Baseline - July 5th, 2024

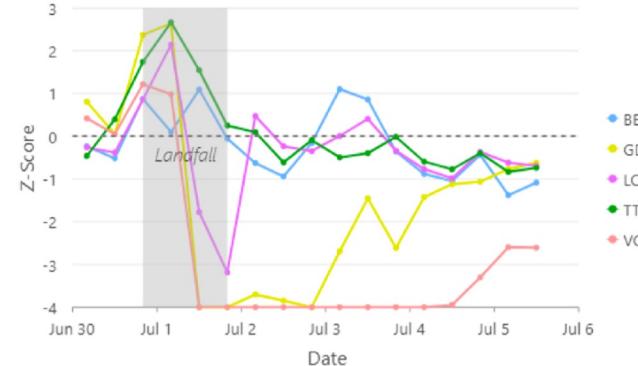


HDSI
Harvard Data
Science Initiative
Affiliate Project

DirectRelief



Median Z-Score of Population Change Relative to 90-Day Pre-Beryl Baseline



Data Source: Data for Good at Meta; BB = Barbados, GD = Grenada; LC = Saint Lucia; TT = Trinidad and Tobago; VC = Saint Vincent and the Grenadines

Immediately prior to the landfall of Hurricane Beryl every windward island saw a significant increase in Facebook user population relative to the pre-storm baseline, most likely attributable to a significant increase in the rate of Facebook application usage combined with increasing rates of movement. Post-landfall, St Lucia, Grenada, and St. Vincent saw very large decreases, most likely attributable to power and network outages.

Change in Z-Score of FB Population

z_score

- > 1.5 Std. Dev.
- 0.50 - 1.5 Std. Dev.
- -0.50 - 0.50 Std. Dev.
- -1.5 - -0.50 Std. Dev.
- -2.5 - -1.5 Std. Dev.
- < -2.5 Std. Dev.

As of July 5th, urban centers on each island saw significant rates of population and activity increase over 1.5 standard deviations, particularly the cities of St. George on Grenada and Kingstown on St. Vincent. Each of these cities hosts the majority of sheltered and displaced population.

CrisisReady is a collaborative research and response platform co-directed by Direct Relief and Harvard Data Science Initiative.





Facebook Movement During Crisis





Facebook Movement during Crisis

The Earthquake Across Southeastern Turkiye

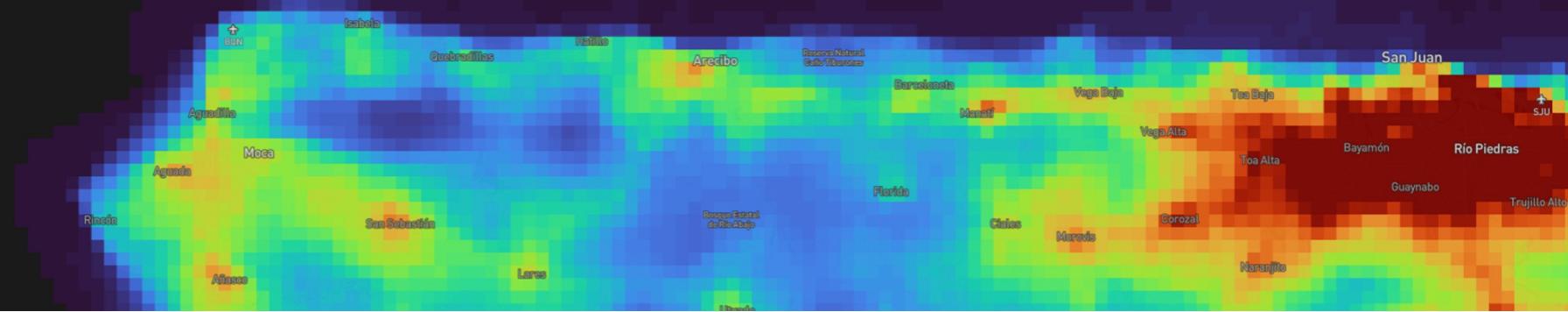
Feb 5, 2023 – Feb 5, 2023 • Turkey • Movement Between Places During Crisis

Spatial aggregation: Bing tiles ▾

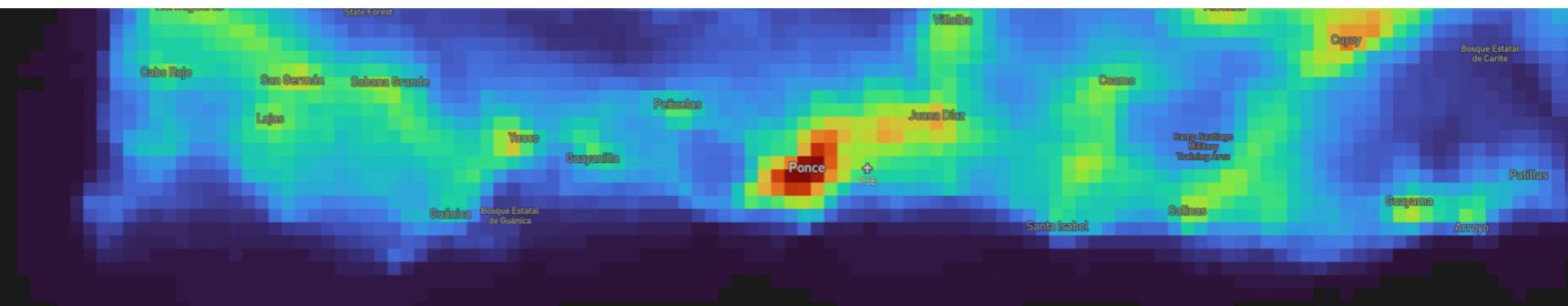


About Documentation Table preview Files

start_latitude	start_longitude	end_latitude	end_longitude	length_km	start_quadkey	end_quadkey	country	date_time	n_baseline	n_crisis	n_difference	percent_change	z_score	ds
37.448696077...	37.012939453...	37.448696077...	37.012939453...	0.0	12211032012...	12211032012...	TR	2023-02-05 16...	139.16666666...	81.0	-58.16666666...	-41.49821640...	-3.384491561...	2023-02-05
37.466138093...	35.848388671...	37.466138093...	35.848388671...	0.0	12211023013...	12211023013...	TR	2023-02-05 16...	65.0	101.0	36.0	54.545454545...	4.0	2023-02-05
37.466138093...	35.848388671...	37.466138093...	35.826416015...	1.9392406128...	12211023013...	12211023013...	TR	2023-02-05 16...	10.0	12.0	2.0	18.181818181...	0.8770580193...	2023-02-05
37.046408393...	37.408447265...	37.028868940...	37.408447265...	1.9503012116...	12211032300...	12211032300...	TR	2023-02-05 16...		113.0				2023-02-05
37.046408393...	37.408447265...	37.046408393...	37.386474609...	1.9500759693...	12211032300...	12211032300...	TR	2023-02-05 16...	46.16666666...	47.0	0.8333333333...	1.7667844522...	0.1378085196...	2023-02-05
37.046408393...	37.408447265...	37.169071070...	37.386474609...	13.777964249...	12211032300...	12211032122...	TR	2023-02-05 16...	23.16666666...					2023-02-05
37.046408393...	37.408447265...	37.046408393...	37.342529296...	5.8502278038...	12211032300...	12211032300...	TR	2023-02-05 16...	11.5					2023-02-05
37.046408393...	37.408447265...	37.081475142...	37.386474609...	4.3594948152...	12211032300...	12211032300...	TR	2023-02-05 16...	11.66666666...					2023-02-05
37.046408393...	36.221923828...	37.063943793...	36.243896484...	2.7575052633...	12211023310...	12211023310...	TR	2023-02-05 16...	32.5	15.0	-17.5	-52.23880597...	-1.858130614...	2023-02-05
37.046408393...	36.221923828...	37.046408393...	36.221923828...	0.0	12211023310...	12211023310...	TR	2023-02-05 16...	264.83333333...	159.0	-105.8333333...	-39.81191222...	-4.0	2023-02-05
37.239074794...	36.463623046...	37.256565578...	36.463623046...	1.9448894973...	12211023133...	12211023133...	TR	2023-02-05 16...	25.5	16.0	-9.5	-35.84905660...	-1.227468042...	2023-02-05
37.239074794...	36.463623046...	37.239074794...	36.463623046...	0.0	12211023133...	12211023133...	TR	2023-02-05 16...	302.16666666...	103.0	-199.166666...	-65.69543705...	-4.0	2023-02-05
37.588118257...	36.990966796...	37.570704733...	36.925048828...	6.1231136168...	12211032010...	12211032012...	TR	2023-02-05 16...	29.333333333...					2023-02-05
36.958670625...	37.518310546...	36.958670625...	37.518310546...	0.0	12211032303...	12211032303...	TR	2023-02-05 16...	273.83333333...	361.0	87.16666666...	31.716191631...	4.0	2023-02-05
37.605527708...	36.925048828...	37.605527708...	36.925048828...	0.0	12211032010...	12211032010...	TR	2023-02-05 16...	13.66666666...					2023-02-05
37.151559995...	36.156005859...	37.151559995...	36.156005859...	0.0	12211023301...	12211023301...	TR	2023-02-05 16...	12.0					2023-02-05
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37.256565578...	35.628662109...	37.256565578...	35.628662109...	0.0	12211023032...	12211023032...	TR	2023-02-05 16...	24.66666666...	25.0	0.3333333333...	1.2987012987...	0.0572786163...	2023-02-05
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37.011325436...	35.804443359...	37.011325436...	35.826416015...	1.9509769075...	12211023213...	12211023213...	TR	2023-02-05 16...	15.333333333...	20.0	4.66666666...	28.571428571...	0.8019006293...	2023-02-05



Network Coverage Maps



Network Coverage



The Flooding in Cartagena, Bolivar, Colombia

< Nov 2, 2023 – Nov 15, 2023 • Colombia • Network Coverage Maps

Network coverage: Active ▾



About Documentation Map **Table preview** Files

coverage	country	lon	lat
1	CO	-75.399169921875	9.264779166803272
1	CO	-72.520751953125	7.852498495256931
1	CO	-75.465087890625	8.982748879181521
1	CO	-75.838623046875	8.743936061823582
1	CO	-74.783935546875	10.001310180489206
1	CO	-74.718017578125	9.264779166803272
1	CO	-73.61938476562501	8.309341293295148
1	CO	-76.058349609375	8.657056841772508
1	VE	-72.388916015625	10.001310180489206
1	CO	-74.146728515625	9.199715096051534
1	CO	-74.16870117187501	10.736175301958951
1	CO	-74.761962890625	10.822515063459
1	CO	-73.311767578125	8.439771446603189

Network Coverage

Last updated August 10, 2022

Overview

Network Coverage maps show where Facebook users have cellular connectivity at a 2G, 3G or 4G connection type through their mobile device. This is determined based on the types of cell sites that users connect to in order to update their Facebook app's data, which causes data to be sent between a user's device and the Facebook servers that host the app. In other words, this measures the estimated range, approximate coverage area and type of network connection based on the cell site IDs and locations that the users' devices report. It is not based on data obtained from telecommunication services.

Questions the Network Coverage maps can help answer

- Where do people have cellular connectivity?
- Where did we not observe cellular connectivity throughout an area impacted by a disaster?
- How certain are we that there has been a drop in cellular connectivity in an impacted area?

3 types of Network Coverage maps

Note: A cell site corresponds to an individual antenna, several of which a cell tower typically has. An antenna's physical characteristics determine its coverage area. For each cell site, we estimate its coverage area from the anonymized locations of users who have turned on the Location Services device setting on their mobile device and whose phones report being able to communicate with the cell site.

Network Coverage

Overview

Questions the Network Coverage maps can help answer

3 types of Network Coverage maps

Data standards

Codebook

Case studies

More information about this dataset

Codebook

These take the form human-friendly variable name (variable name in csv).

Coverage (coverage): 1 if we observed coverage for this grid cell. This variable is only in the Active Network Coverage dataset.

No coverage (no_coverage): 1 if we did not observe coverage for this grid cell. This variable is only in the Network Coverage Undetected dataset.

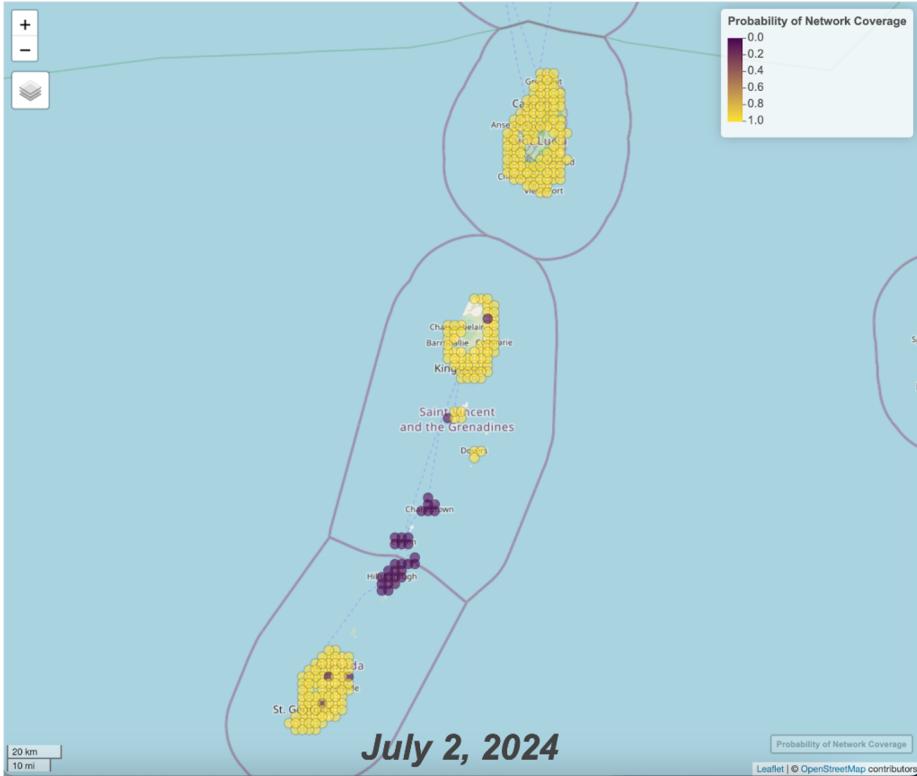
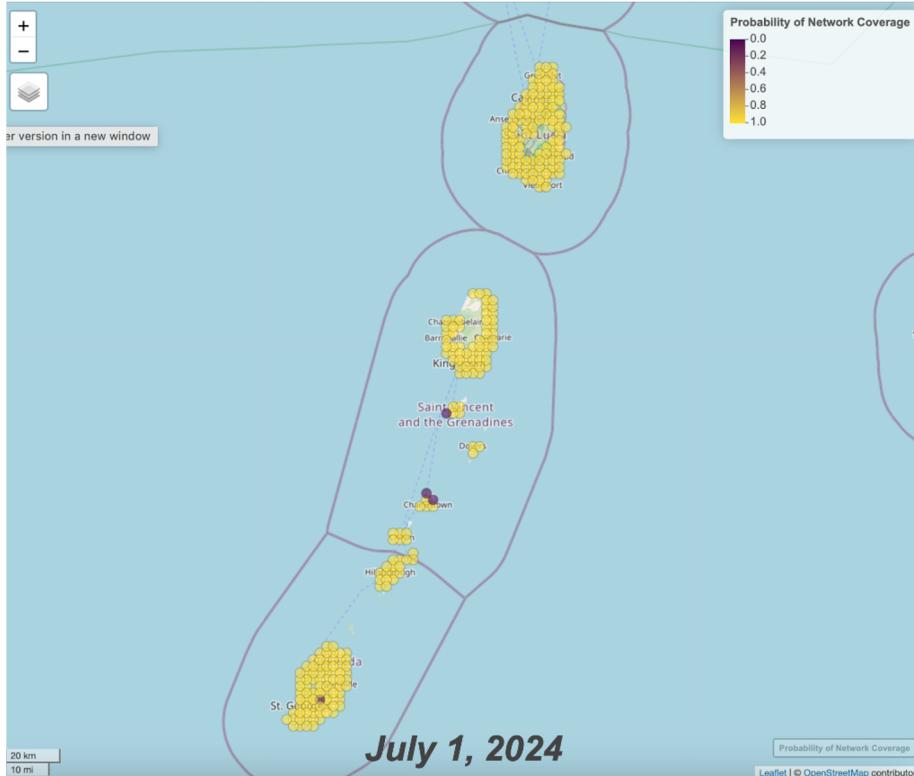
Probability of connectivity (p_connectivity): Probability of connectivity at this grid cell, given the expected network traffic for the day of the week and the expected number of users within the coverage area who have turned on the Location Services device setting on their mobile device. This variable is only in the Probability of Network Coverage dataset.

Latitude (lat): Latitude coordinate of the center of the Bing tile grid cell for the data point. The Presto geospatial library is used to generate this field.

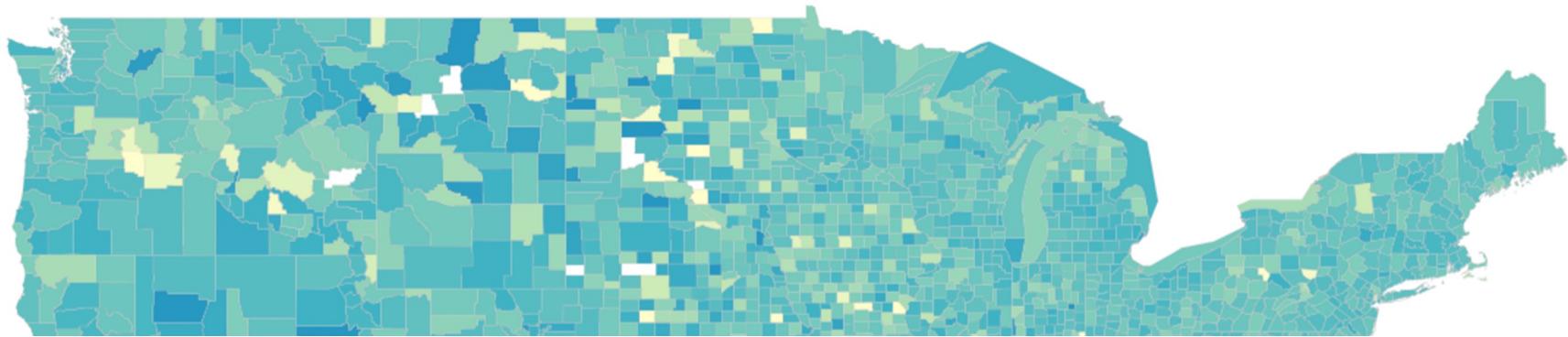
Longitude (lon): Longitude coordinate of the center of the Bing tile grid cell for the data point. The Presto geospatial library is used to generate this field.

Country (country): The 2-letter abbreviation (ISO alpha-2 code) for the data point. The country value is assigned according to a tile's intersection with country administrative boundaries derived from [GADM](#).

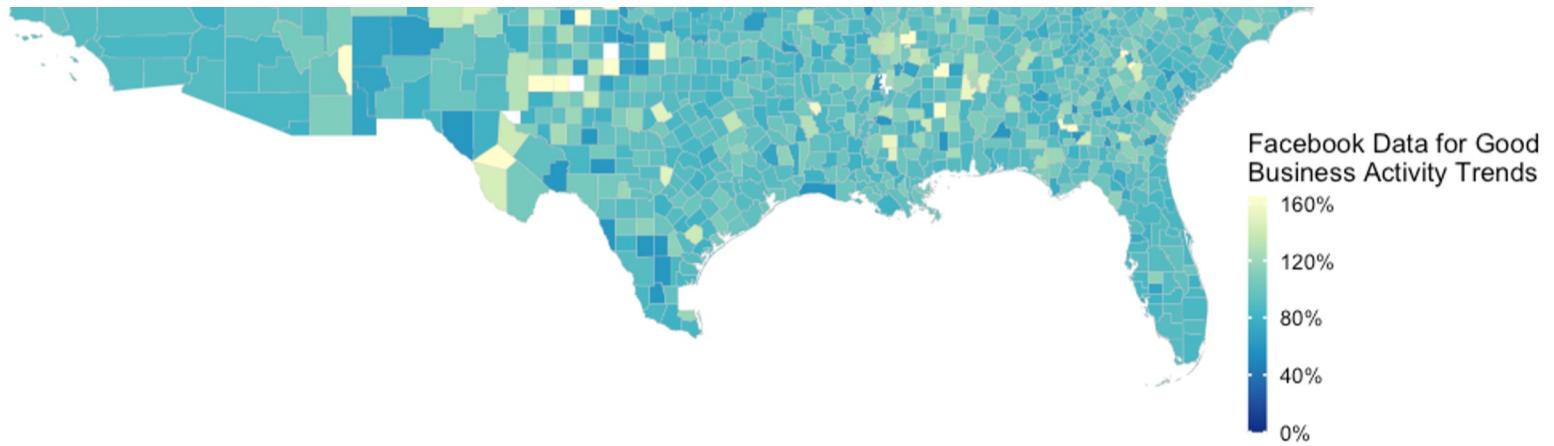
Probability of Network Coverage



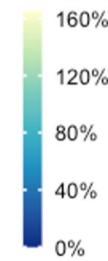
Hurricane Beryl - Saint Lucia, Saint Vincent and the Grenadines, Grenada



Business Activity Trends



Facebook Data for Good
Business Activity Trends



Business Activity Trends

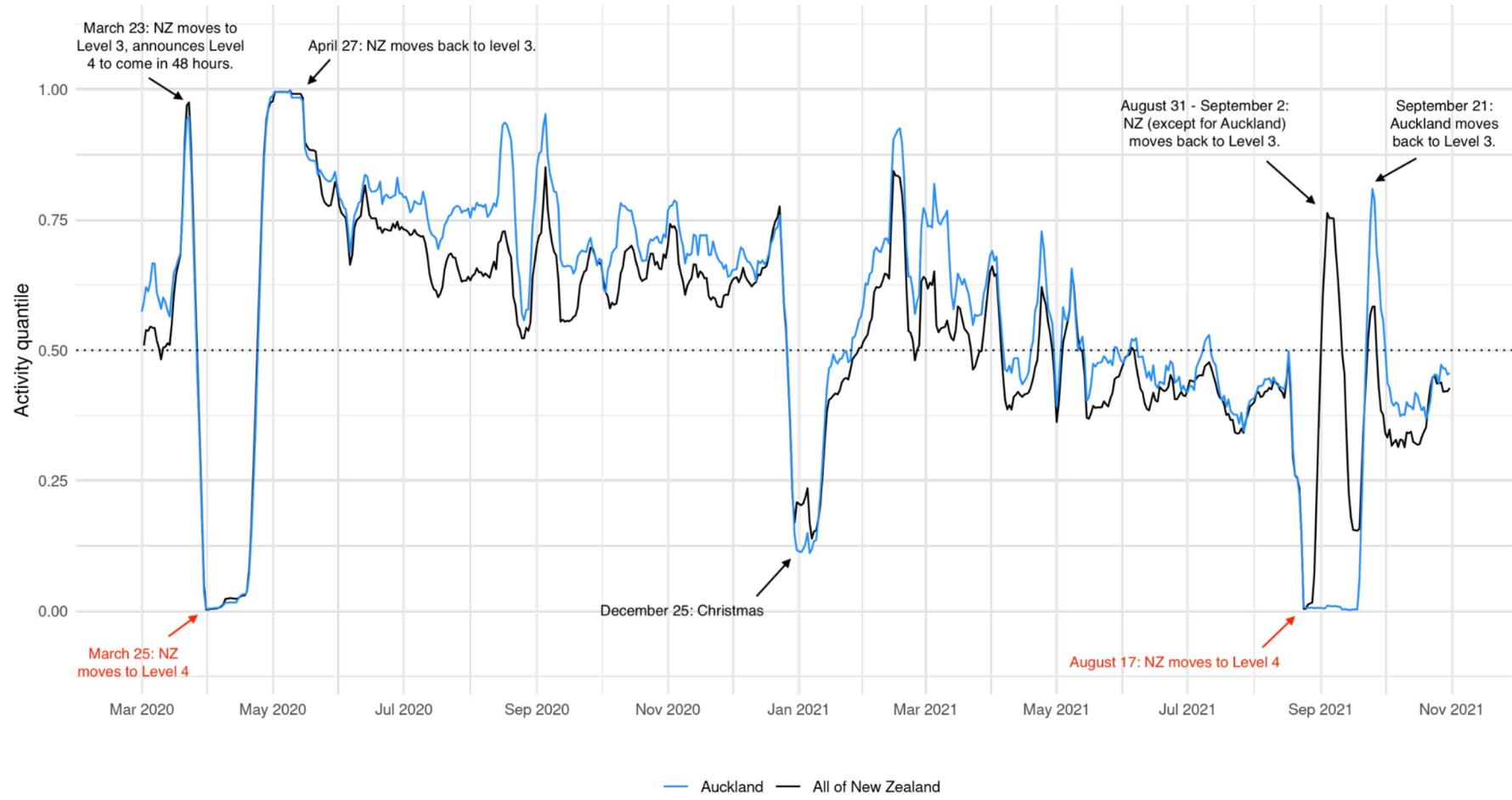


Hurricane Beryl Across Quintana Roo and Yucatan, Mexico

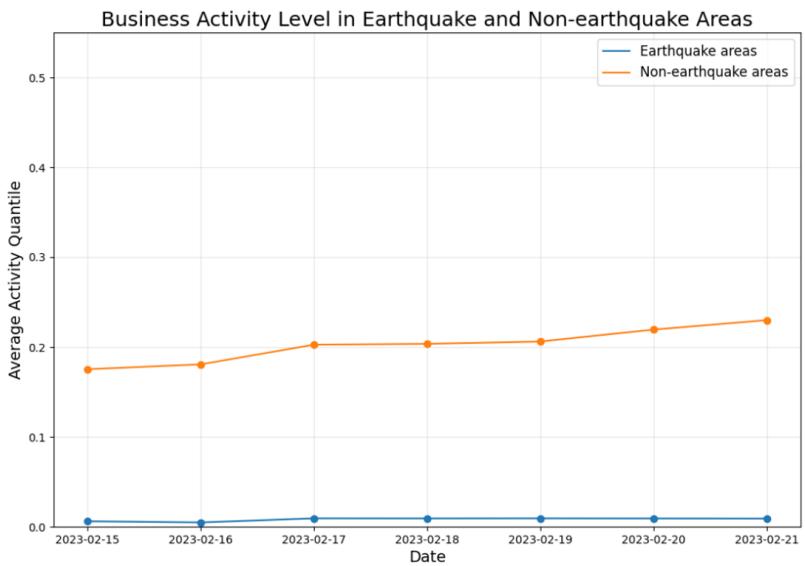
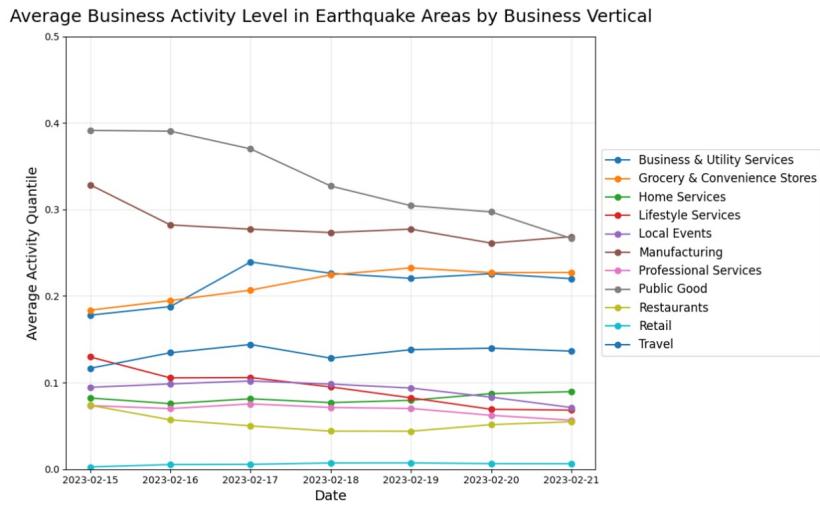
Jul 5, 2024 – Jul 18, 2024 • Mexico • Business Activity Trends During Crisis

About Documentation Map [Table preview](#) Files

polygon_id	polygon_name	polygon_level	polygon_version	country	business_vertical	activity_quantile	latitude	longitude	ds
MEX.23.2_1	Cozumel	GADM2	3.6	MX	Public Good	0.4860297718929...	20.436371317129...	-87.45336232768...	2024-07-18
MEX.23.2_1	Cozumel	GADM2	3.6	MX	Retail	0.4981585973219...	20.436371317129...	-87.45336232768...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Restaurants	0.4938712918170...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Business & Utility ...	0.5234895080535...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Local Events	0.4776239102424...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Manufacturing	0.4483453745133...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Travel	0.6062344823645...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	All	0.5497190927787...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Lifestyle Services	0.5902619662731...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Home Services	0.5197473398644...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.31.50_1	Mérida	GADM2	3.6	MX	Grocery & Conveni...	0.5960301224528...	20.967527829088...	-89.67798693082...	2024-07-18
MEX.4.4_1	Champotón	GADM2	3.6	MX	Lifestyle Services	0.5077217729860...	18.609010196111...	-90.02688370599...	2024-07-18
MEX.31.84_1	Temax	GADM2	3.6	MX	All	0.4602721264349...	21.159767420710...	-88.95582510655...	2024-07-18
MEX.31.75_1	Teabo	GADM2	3.6	MX	All	0.5945671513742...	20.353796685595...	-89.25866377223...	2024-07-18
MEX.23.1_1	Benito Juárez	GADM2	3.6	MX	Retail	0.5748876650736...	21.054804520312...	-86.91856201669...	2024-07-18
MEX.23.1_1	Benito Juárez	GADM2	3.6	MX	All	0.5243326384301...	21.054804520312...	-86.91856201669...	2024-07-18
MEX.23.1_1	Benito Juárez	GADM2	3.6	MX	Home Services	0.5991287515107...	21.054804520312...	-86.91856201669...	2024-07-18

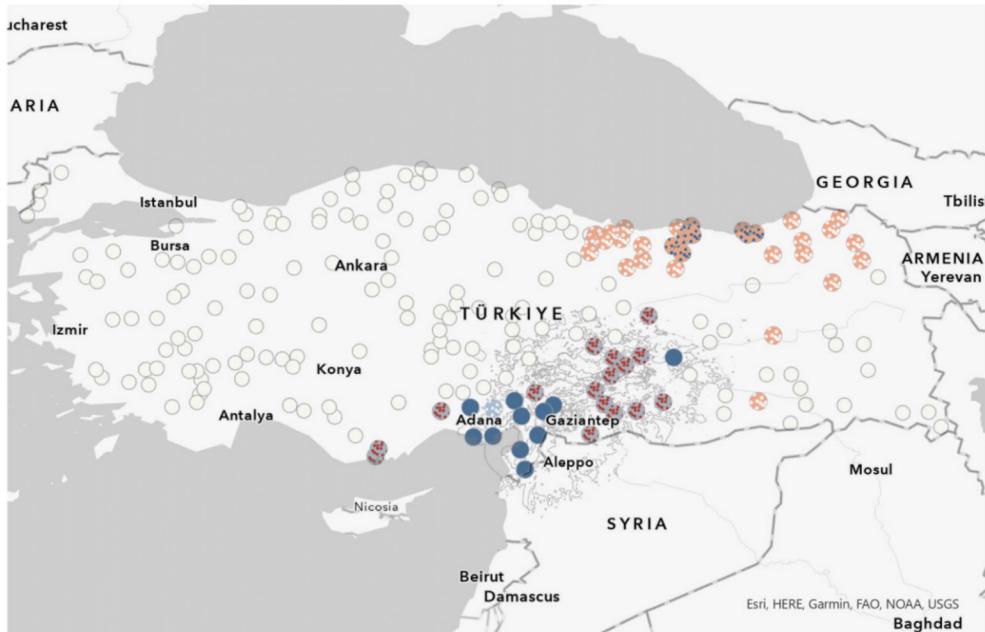


Earthquake Activity in Türkiye - Impact on Business



Post-Earthquake Change in Business Activity in Turkiye

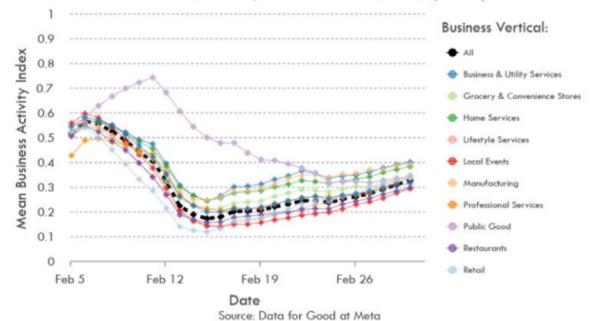
Space-Time Hotspot Analysis of the Facebook Business Activity Index, Feb 5 to Mar 3, 2023



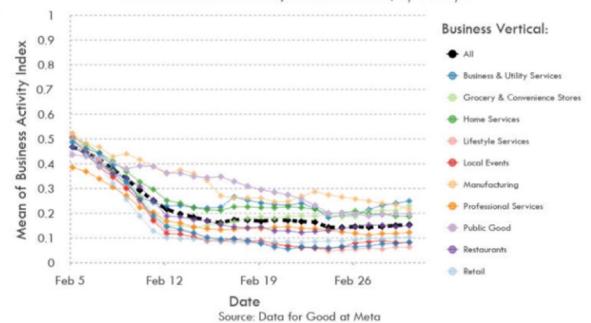
Following the earthquake in Turkey and Syria business activity in Turkey declined precipitously within the earthquake zone while increasing in most other parts of the country. As measured by the Facebook Business Activity Index, by the 3rd of March the earthquake-affected area remained well below the rest of the country, while a cluster of sporadically increasing activity can be seen principally in the northeast regions. Most other areas of Turkey are no longer significantly clustered.

The Facebook Business Activity Index measures the normalized change in the rate of posting to Facebook business accounts, as a proxy measure of the rate of business activity divided into 11 business verticals. This map uses space-time hotspot analysis to represent significantly high and low clusters as well as the pattern of clustering on a daily basis. For more information on the Facebook Business Activity index please see: <https://dataforgood.facebook.com/dfg/tools/business-activity-trends>

Mean FB Business Activity Index: Outside EQ Area, 2/5 to 3/3



Mean FB Business Activity Index: EQ Area, 2/5 to 3/3



PATTERN

Consecutive Hot Spot	Sporadic Hot Spot
Diminishing Hot Spot	Oscillating Cold Spot
Sporadic Hot Spot	Historical Cold Spot
Oscillating Hot Spot	No Pattern Detected
New Cold Spot	Shake SixPlus
Consecutive Cold Spot	

Data Sources: Data for Good at Meta, Esri, USGS

CrisisReady (<https://crisisready.io>) is a collaboration between Direct Relief and the Harvard Data Science Initiative.





Facebook Business Activity Trends during Crisis

Business Activity Trends during Crisis uses the rate that businesses post on Facebook compared to pre-crisis levels to measure how crisis events are affecting different economic sectors each day.

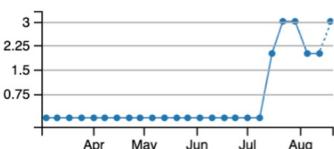
Learn more details here: <https://dataforgood.facebook.com/dfg/tools/business-activity-trends> and <https://dataforgood.facebook.com/dfg/resources/business-activity-trends-... More>



10+ Downloads

This dataset updates: As needed

DOWNLOADS



RELATED SHOWCASES

There are no showcases for this dataset.

Data and Resources

Metadata

**Business Activity Trends during Crisis - Hurricane Beryl - 20240...** (32.7M)

Modified: 20 August 2024

Business Activity Trends during Crisis - Hurricane Beryl - 20240630-20240716
June 30, 2024-August 16, 2024

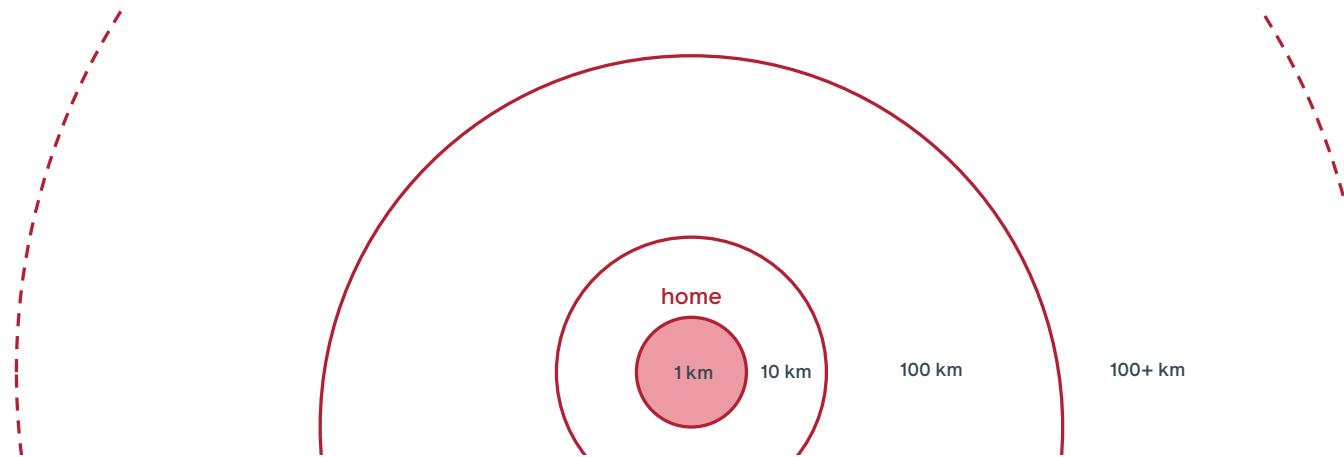
Access Business Activity Trends Publicly for Select Crisis Events



Movement Distribution



How Much are People Leaving Home?

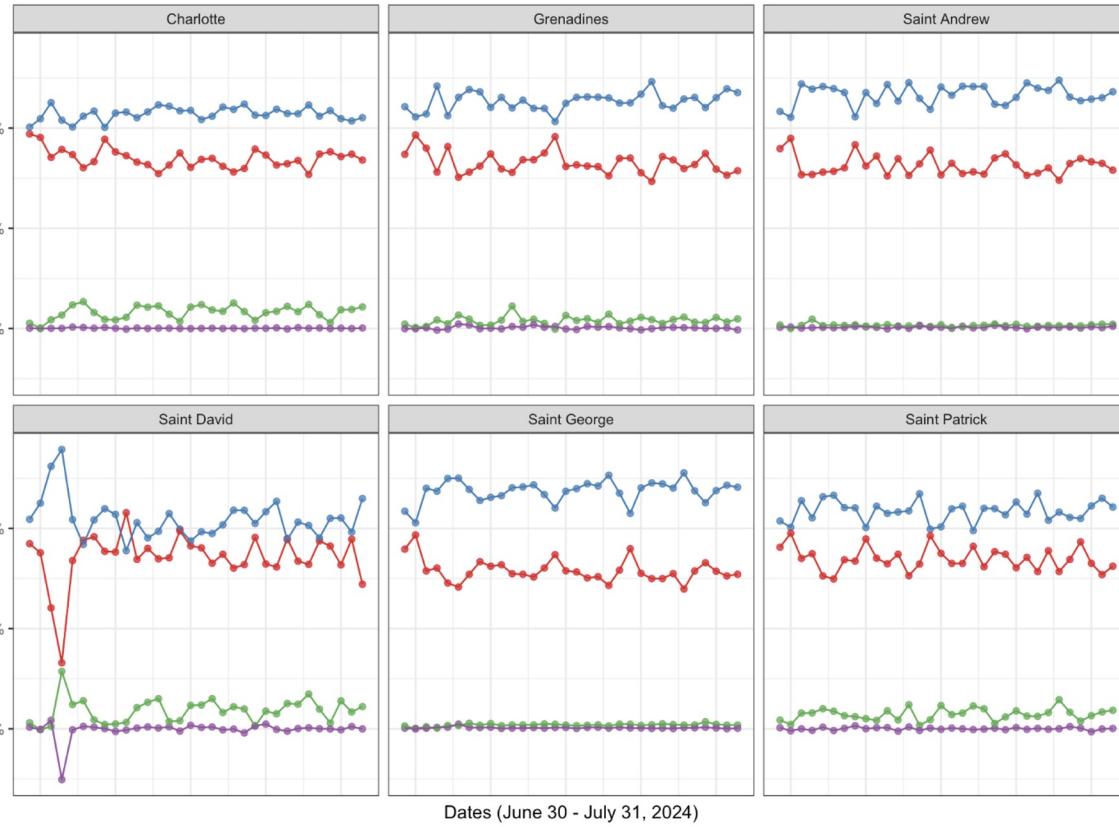


Movement Distribution



gadm_id	gadm_name	country	polygon_level	home_to_ping_distance_category	distance_category_ping_fraction	ds
<chr>	<chr>	<chr>	<chr>	<chr>	<dbl>	<chr>
USA.48.31_1	Snohomish	USA	2	(0, 10)	0.490482965	2023-11-23
USA.48.31_1	Snohomish	USA	2	0	0.409168993	2023-11-23
USA.48.23_1	Mason	USA	2	(0, 10)	0.482018652	2023-11-23
USA.48.29_1	Skagit	USA	2	0	0.369140120	2023-12-07
USA.48.29_1	Skagit	USA	2	100+	0.006303257	2023-12-07
USA.48.29_1	Skagit	USA	2	(0, 10)	0.504863171	2023-12-07
USA.48.12_1	Garfield	USA	2	100+	0.023817389	2023-11-23
USA.48.8_1	Cowlitz	USA	2	100+	0.012657098	2023-11-23
USA.48.8_1	Cowlitz	USA	2	(0, 10)	0.502166352	2023-11-23
USA.48.8_1	Cowlitz	USA	2	0	0.406244917	2023-11-23
USA.48.30_1	Skamania	USA	2	[10, 100)	0.083761492	2023-11-23
USA.48.30_1	Skamania	USA	2	0	0.404992931	2023-11-23
USA.48.8_1	Cowlitz	USA	2	[10, 100)	0.078900016	2023-11-23
USA.48.34_1	Thurston	USA	2	[10, 100)	0.085429498	2023-11-23
USA.48.34_1	Thurston	USA	2	(0, 10)	0.495817309	2023-11-23
USA.48.34_1	Thurston	USA	2	100+	0.010039848	2023-11-23
USA.48.34_1	Thurston	USA	2	0	0.408733786	2023-11-23
USA.48.38_1	Whitman	USA	2	[10, 100)	0.071210292	2023-12-06
USA.48.38_1	Whitman	USA	2	0	0.382898584	2023-12-06

Movement Distribution of FB Users in Saint Vincent and the Grenadines
at each admin 2 level region



Movement Distribution

Distance (km from home): ● 0 ● (0, 10) ● [10, 100] ● 100+

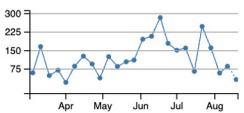
Movement Distribution

The Movement Distribution dataset shows the range of movement of people away from the area where they live on a daily basis. These maps are useful for projects focused on transportation, tourism, displacement, and other areas.

More info available here: <https://dataforgood.facebook.com/dfg/tools/movement-distribution-maps>

3000+ Downloads | This dataset updates: Every month

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RELATED SHOWCASES

There are no showcases for this dataset.

ACTIVITY



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Data and Resources

Metadata



Movement Distribution Readme - Data for Good at Meta.pdf (118.0K)

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Documentation for the Movement Distribution Data



movement-distribution-data-for-good-at-meta_2024-07-01_20... (383.1M)

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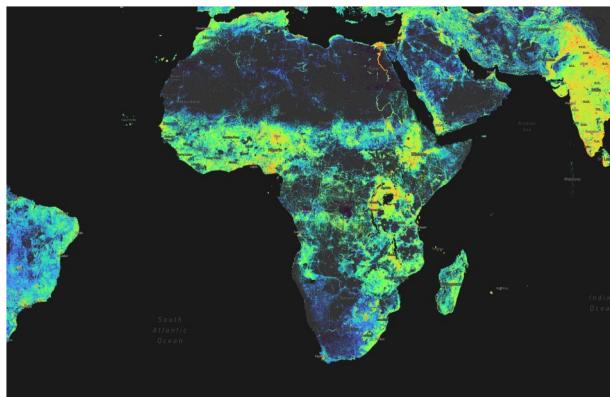
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Access Movement Distribution



Publicly Available Datasets

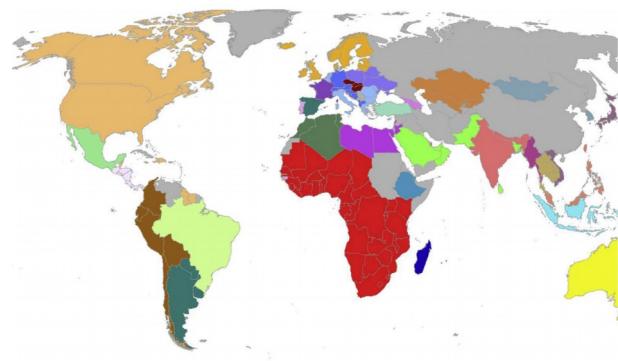
High Resolution Population Density Maps



Relative Wealth Index



Social Connectedness Index



Publicly Accessible via HDX



Mobility Datasets Overview

Mobility Dataset Comparison

Name	Access	Spatial Coverage	Spatial Resolution	Temporal Resolution	Sample
Commuting Zones	Public (HDX)	Global	Admin level 2	6 Months	All Facebook Users with Home and Work Estimates
Movement Distribution	Public (HDX)	Global	Admin level 2	24 Hours (monthly uploads to HDX)	Facebook Users who have opted-in to Location Services
Facebook Population During Crisis	Controlled Access (Partner Portal)	Crisis Area & Time	2.4 km ² Tile	8 Hours	Facebook Users who have opted-in to Location Services
Facebook Movement During Crisis	Controlled Access (Partner Portal)	Crisis Area & Time	2.4 km ² Tile	8 Hours	Facebook Users who have opted-in to Location Services
Colocation Maps	Controlled Access (Partner Portal)	Global	Admin level 2	7 Days	Facebook Users who have opted-in to Location Services
Activity Space Maps	Controlled Access (Custom)	Global	1.7 km ² Tile	3 Weeks	Facebook Users who have opted-in to Location Services
International Travel Patterns	Controlled Access (Partner Portal)	Global	Country	24 Hours	Facebook Users who have opted-in to Location Services

TOOLS AND DATA

Our tools can help better respond to natural disasters, understand the drivers behind economic opportunity, and more.



Health

COVID-19 Preventative Health Survey

Conducted from 2020–2022, this survey covers topics related to COVID-19 vaccination, behavior, knowledge, attitudes, and symptoms. This survey collected over 100 million responses in 200+ countries and territories in 55+ languages.

[Learn More](#)

COVID-19 Trends and Impact Survey

Conducted from 2020–2022, this survey covers topics related to COVID-19 vaccination, behavior, knowledge, attitudes, and symptoms. This survey collected over 100 million responses in 200+ countries and territories in 55+ languages.

[Learn More](#)

Colocation Maps

Colocation Maps measure the probability that two individuals from two locations are found in the same location at the same time.

[Learn More](#)

Pandemic Recovery Survey

The Pandemic Recovery Survey was designed to help researchers understand the effects of the pandemic on health and well-being, mental health, attitudes and practices around vaccinations, education, and household financial and food security.

[Learn More](#)

Infrastructure

Electrical Distribution Grid Maps

This predictive model can map medium-voltage electrical distribution infrastructure in any country.

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Inclusive Internet Index

The Inclusive Internet Index measures whether the internet is accessible and affordable, and how it affects social and economic mobility.

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Commuting Zones

Commuting Zones are geographic areas where people live and work and are useful for understanding local economies, as well as how they differ from traditional boundaries.

[Learn More](#)

Infrastructure Route Study

This Infrastructure Route Study contains a collection of open-source data collected for expanding fiber routes to extend Internet connectivity in the Democratic Republic of the Congo.

[Learn More](#)

Buildings

An open version of open map data showcasing over 6 million buildings that have been derived from the US Geological Survey (USGS) 3D Elevation Program Light Detection and Ranging and open building footprint data.

[Learn More](#)

Places

The Places Dataset is a foundational element of navigation, local search, and many other location-based applications

[Learn More](#)

Global Urban Areas

The Global Urban Areas dataset is a high-resolution dataset consisting of 37,000 urban areas around the globe, and provides enough detail for most use-cases.

[Learn More](#)

Network Coverage Maps

Network Coverage Maps show where people on Facebook have cellular connectivity.

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Economic

Relative Wealth Index

The Relative Wealth Index predicts the relative standard of living within countries using proxy-measuring connectivity, pov, satellite imagery, and other novel data sources.

[Learn More](#)

Business Activity Trends

Business Activity Trends measure how businesses are affected by crisis events through their rate of posting on Facebook.

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Small Business Surveys

More than 200 million businesses use Facebook. From 2017–2022, we surveyed these businesses directly to learn about their unique perspectives, challenges and opportunities across nearly 100 countries.

[Learn More](#)

Mobility

Facebook Movement During Crisis

Facebook Movement During Crisis datasets show how many Facebook users who have enabled Location Services have moved from one area to another.

[Learn More](#)

Travel Patterns

Travel Patterns show comparisons of the number of Facebook location history users moving across long distances, like cross-country air or train travel.

[Learn More](#)

Movement Distribution Maps

Movement Distribution Maps show the range of movement of people away from the area where they live on a daily basis.

[Learn More](#)

Movement Range Maps

Movement Range Maps show how communities are responding to COVID-19 stay-at-home and physical distancing measures.

[Learn More](#)

Social Connections

Social Connectedness Index

The Social Connectedness Index measures the strength of connectedness between geographic areas and can reveal important insights about economics, social mobility and health.

[Learn More](#)

Social Capital Atlas

The Social Capital Atlas dataset shows new insights on community connectivity, cohesiveness and civic engagement using data from Facebook friendships in the United States.

[Learn More](#)

Long Ties

The Long Ties dataset provides measures of network structure and cross-community links for US zip codes, counties, and municipalities in Mexico.

[Learn More](#)