Your Data Enable the Community for Sustainable Development

Clint Brown

Director of Products

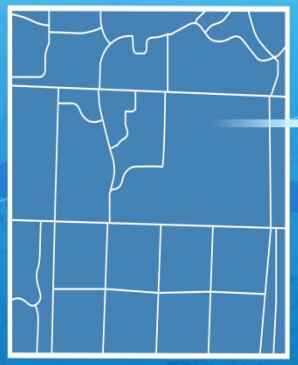
Esri

Geography and Statistical Data Are Foundational to GIS

An Integrated Data Model is Essential

Nested Administrative Hierarchy

Boundaries



Key

EA Id	Area
1203501750071	42.3
1203501750072	34.8
1203501750073	26.9
1203501750074	51.2

Census Data

EA Id	Population	Male	Female
1203501750071	432	209	223
1203501750072	502	240	262
1203501750073	525	258	267
1203501750074	494	251	243

EA Id	Num HH	Avg HH size
1203501750071	89	4.9
1203501750072	98	5.1
1203501750073	102	5.1
1203501750074	85	5.8

Diagram and information taken from the “Handbook on the Geospatial Infrastructure in Support of Census Activities”, Department of Economic and Social Affairs, United Nations Statistics Division

Interests
Disciplines
Organizations
YOU
Represent a Global Community of Geospatial and Statistical Professionals
Cultures
Backgrounds

Your Contributions Enable GIS

Evolution of GIS

- Individual Systems
- Google Maps
- Smart Phones, Apps …
- Cloud Computing
- Emerging Community Systems
- Global Engagement and Participation

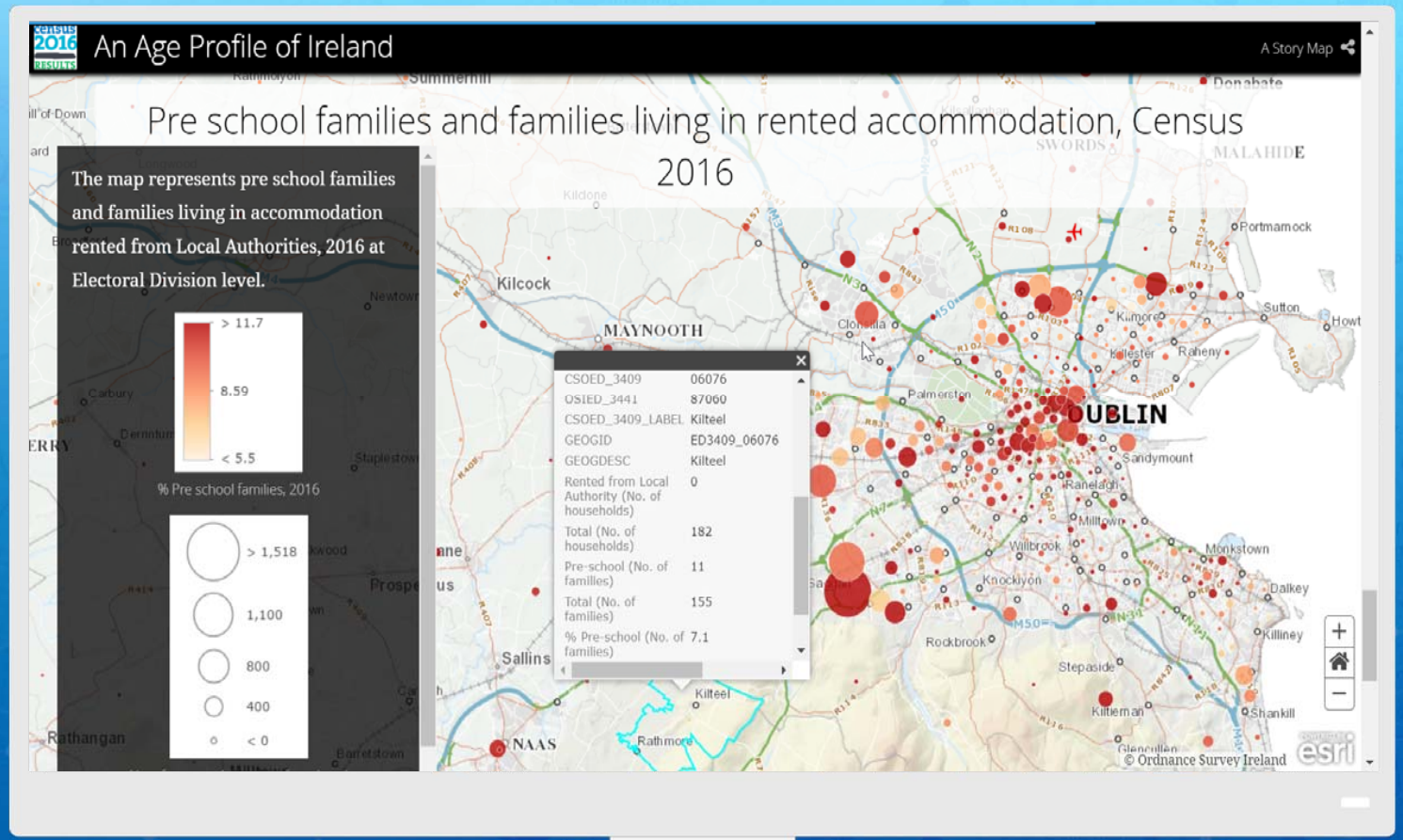
GIS is emerging as the nervous system for the planet

Web GIS

Your data is being combined into a Community GIS for Sustainable Development

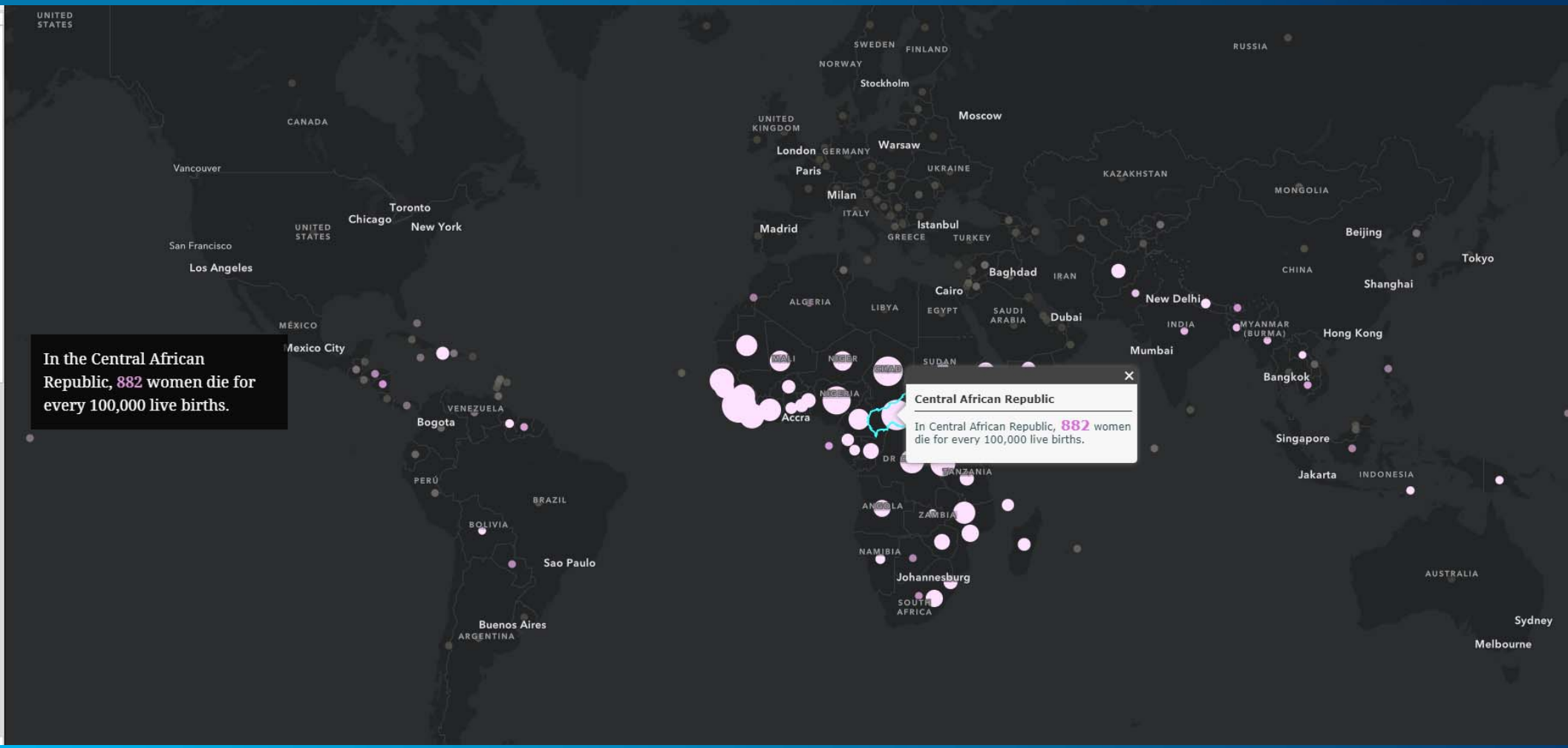
Integrated into ready-to-use maps and apps

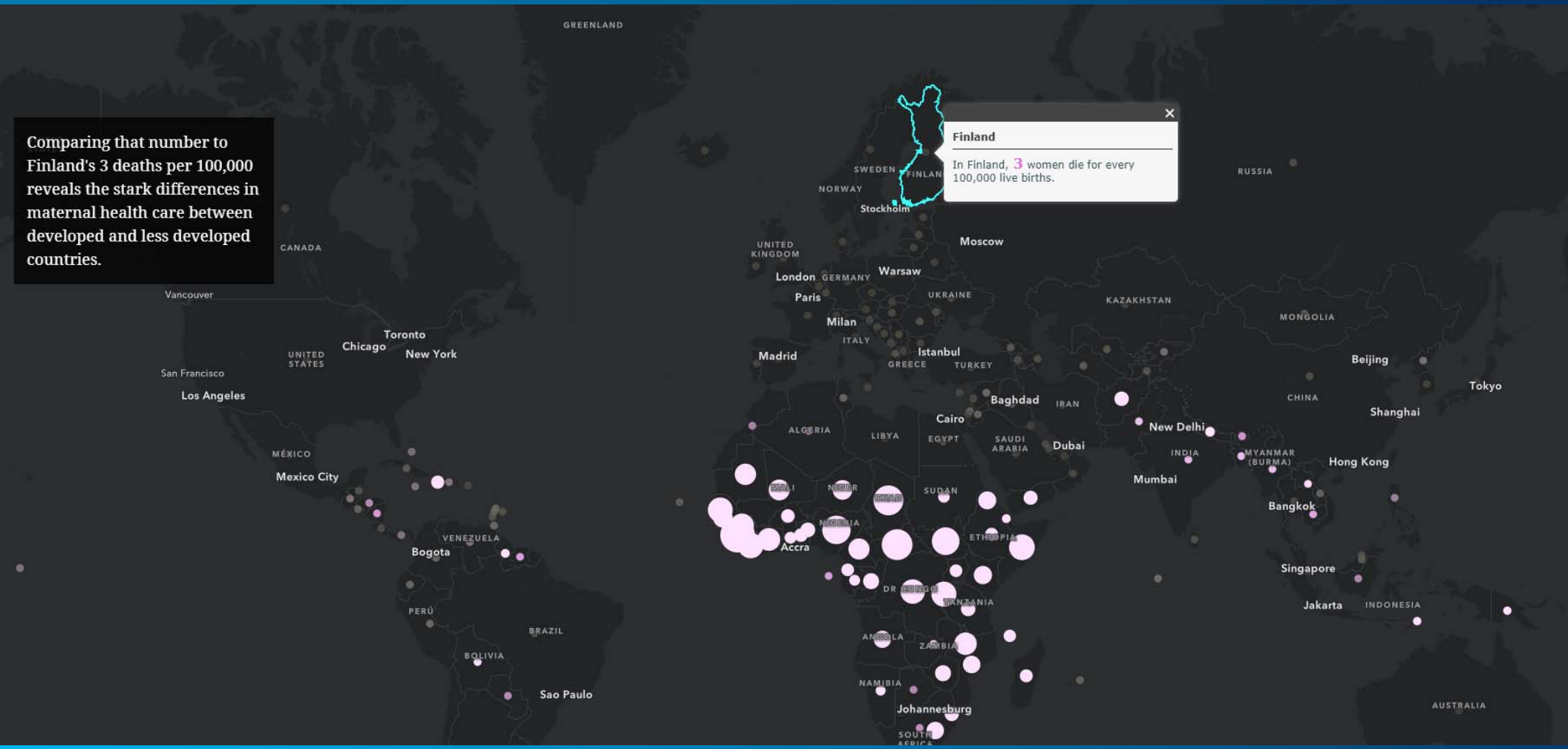
Mapping and Visualization Enable Understanding



Maps

- Vessel for Communication and Understanding
- Information Access
- Dynamic and Up-to-Date
- Integrative Data Layers Behind the Map
- Analytic


In the Central African Republic, 882 women die for every 100,000 live births.
Central African Republic
In Central African Republic, 882 women die for every 100,000 live births.
UNITED STATES
CANADA
Vancouver
Toronto
Chicago
New York
San Francisco
Los Angeles
MÉXICO
Mexico City
VENEZUELA
Bogota
PERÚ
BRAZIL
BOLIVIA
Sao Paulo
Buenos Aires
ARGENTINA
SWEDEN
FINLAND
NORWAY
Stockholm
RUSSIA
Moscow
UNITED KINGDOM
London
GERMANY
Warsaw
Paris
UKRAINE
KAZAKHSTAN
Milan
ITALY
Madrid
Istanbul
GREECE
TURKEY
MONGOLIA
Beijing
Tokyo
CHINA
Shanghai
Baghdad
IRAN
Cairo
ALGERIA
LIBYA
EGYPT
SAUDI ARABIA
Dubai
New Delhi
INDIA
MYANMAR (BURMA)
Hong Kong
Mumbai
Bangkok
MALI
NIGER
CHAD
SUDAN
NIGERIA
Accra
Singapore
TANZANIA
Jakarta
INDONESIA
ANGOLA
ZAMBIA
NAMIBIA
Johannesburg
SOUTH AFRICA
AUSTRALIA
Sydney
Melbourne


Comparing that number to Finland's 3 deaths per 100,000 reveals the stark differences in maternal health care between developed and less developed countries.
Finland
In Finland, 3 women die for every 100,000 live births.
GREENLAND
SWEDEN
FINLAND
NORWAY
Stockholm
RUSSIA
Moscow
UNITED KINGDOM
London
GERMANY
Warsaw
Paris
UKRAINE
KAZAKHSTAN
MONGOLIA
Milan
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Istanbul
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Bangkok
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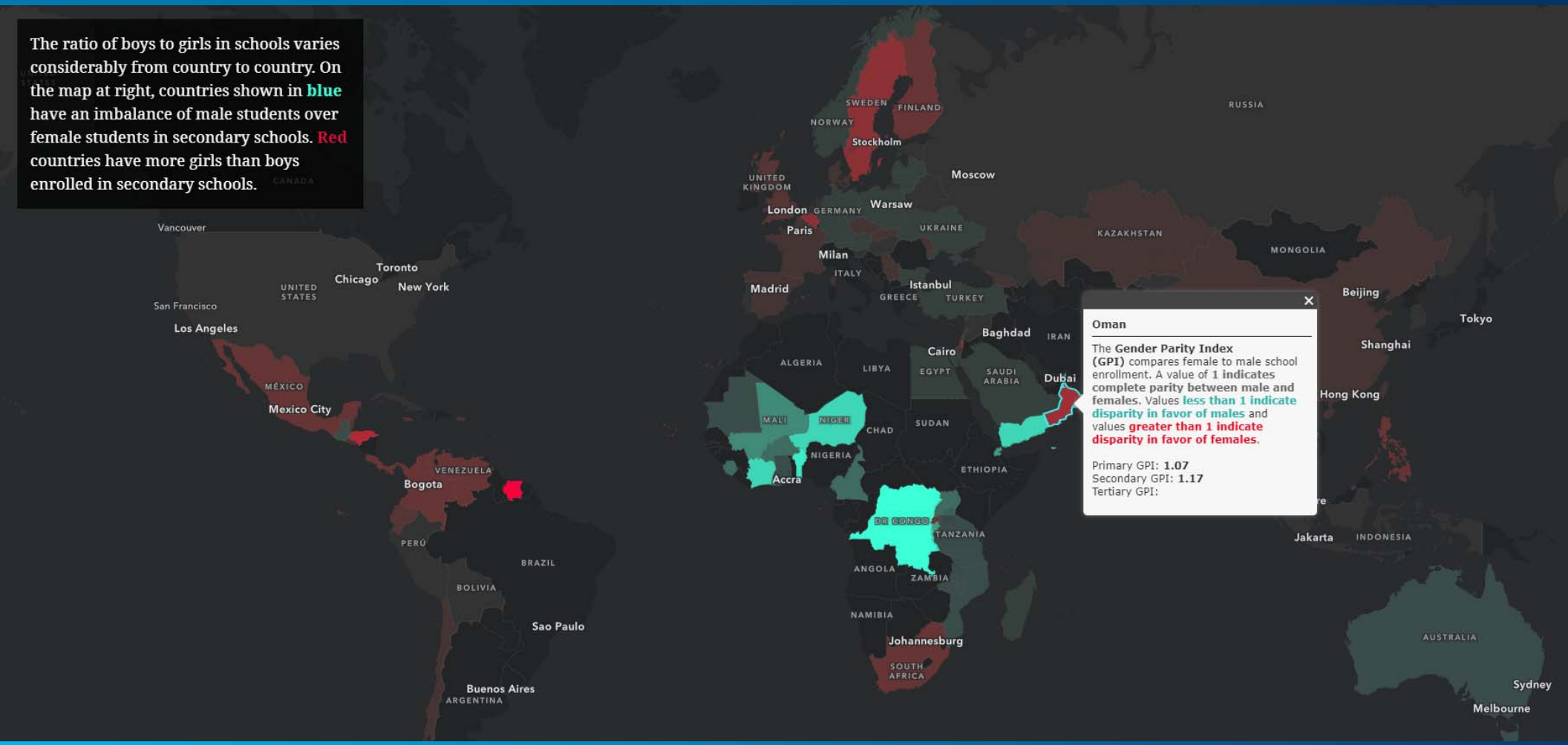
Toronto
Chicago
New York
UNITED STATES
San Francisco
Los Angeles
MÉXICO
Mexico City
MALI
NIGER
CHAD
SUDAN
NIGERIA
ETHIOPIA
Accra
VENEZUELA
Bogota
Singapore
DR CONGO
TANZANIA
Jakarta
INDONESIA
PERÚ
BRAZIL
BOLIVIA
ANGOLA
ZAMBIA
NAMIBIA
Sao Paulo
Johannesburg
SOUTH AFRICA
AUSTRALIA


The ratio of boys to girls in schools varies considerably from country to country. On the map at right, countries shown in blue have an imbalance of male students over female students in secondary schools. Red countries have more girls than boys enrolled in secondary schools.
Oman
The Gender Parity Index (GPI) compares female to male school enrollment. A value of 1 indicates complete parity between male and females. Values less than 1 indicate disparity in favor of males and values greater than 1 indicate disparity in favor of females.
Primary GPI: 1.07
Secondary GPI: 1.17
Tertiary GPI:
SWEDEN
FINLAND
NORWAY
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UNITED KINGDOM
London
GERMANY
Warsaw
Paris
UKRAINE
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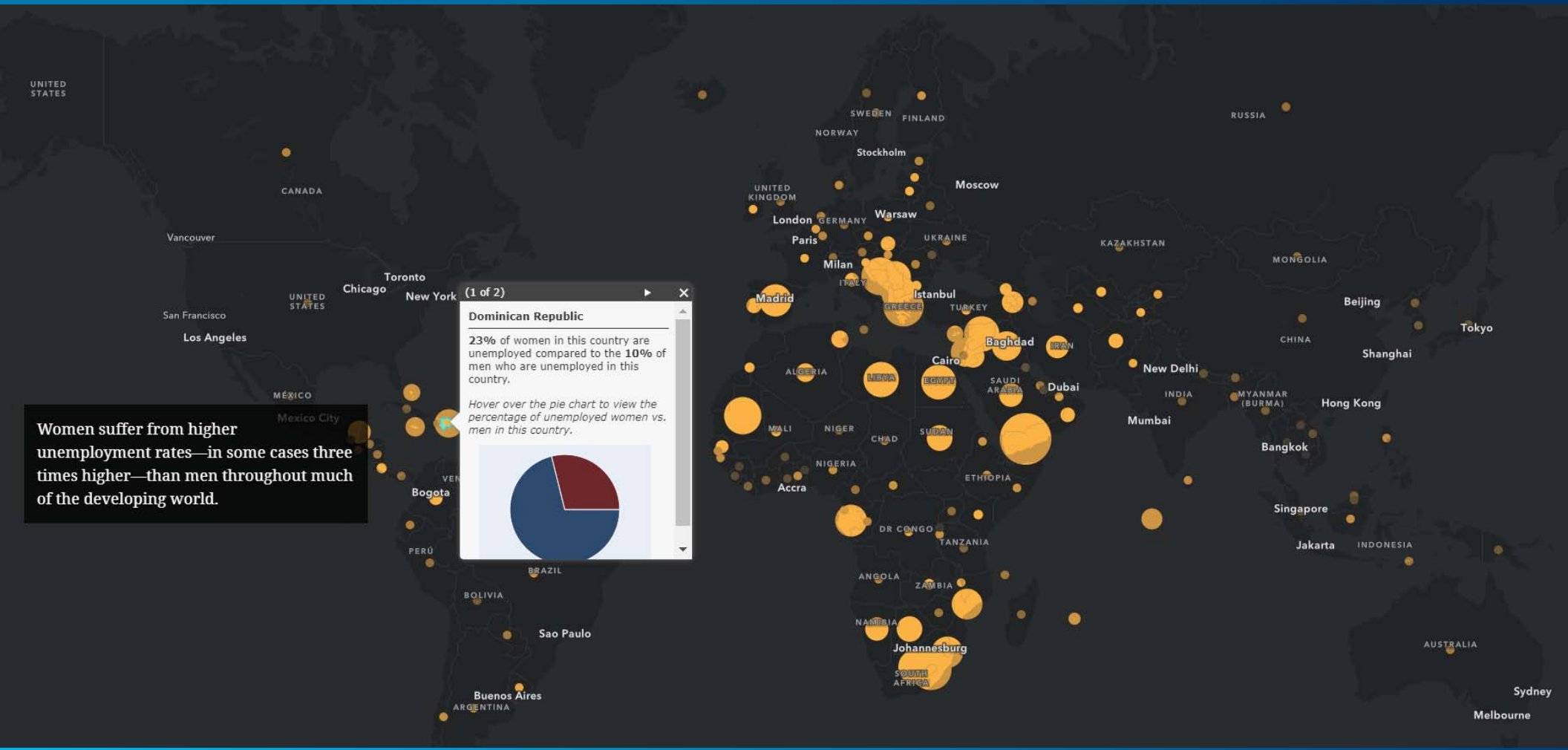
Tokyo
Shanghai
Baghdad
IRAN
Cairo
ALGERIA
LIBYA
EGYPT
SAUDI ARABIA
Dubai
Hong Kong
MALI
NIGER
CHAD
SUDAN
NIGERIA
ETHIOPIA
Accra
DR CONGO
TANZANIA
Jakarta
INDONESIA
ANGOLA
ZAMBIA
NAMIBIA
Johannesburg
SOUTH AFRICA
AUSTRALIA
Sydney
Melbourne
Vancouver
Toronto
Chicago
New York
UNITED STATES
San Francisco
Los Angeles
MÉXICO
Mexico City
VENEZUELA
Bogota
PERÚ
BRAZIL
BOLIVIA
Sao Paulo
Buenos Aires
ARGENTINA


UNITED STATES
CANADA
Vancouver
Toronto
Chicago
New York
San Francisco
Los Angeles
MÉXICO
Mexico City
Bogota
PERÚ
BRAZIL
BOLIVIA
Sao Paulo
Buenos Aires
ARGENTINA
(1 of 2)
Dominican Republic
23% of women in this country are unemployed compared to the 10% of men who are unemployed in this country.
Hover over the pie chart to view the percentage of unemployed women vs. men in this country.
Women suffer from higher unemployment rates—in some cases three times higher—than men throughout much of the developing world.
SWEDEN
FINLAND
NORWAY
Stockholm
RUSSIA
Moscow
UNITED KINGDOM
London
GERMANY
Warsaw
Paris
UKRAINE
KAZAKHSTAN
MONGOLIA
Milan
ITALY
Madrid
Istanbul
GREECE
TURKEY
Beijing
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LIBYA
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MALI
NIGER
CHAD
SUDAN
Bangkok
NIGERIA
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ETHIOPIA
Singapore
DR CONGO
TANZANIA
Jakarta
INDONESIA
ANGOLA
ZAMBIA
NAMIBIA
Johannesburg
SOUTH AFRICA
AUSTRALIA
Sydney
Melbourne

GIS Now Provides
the Means . .

.

You are collectively building a Community GIS for Sustainable Development

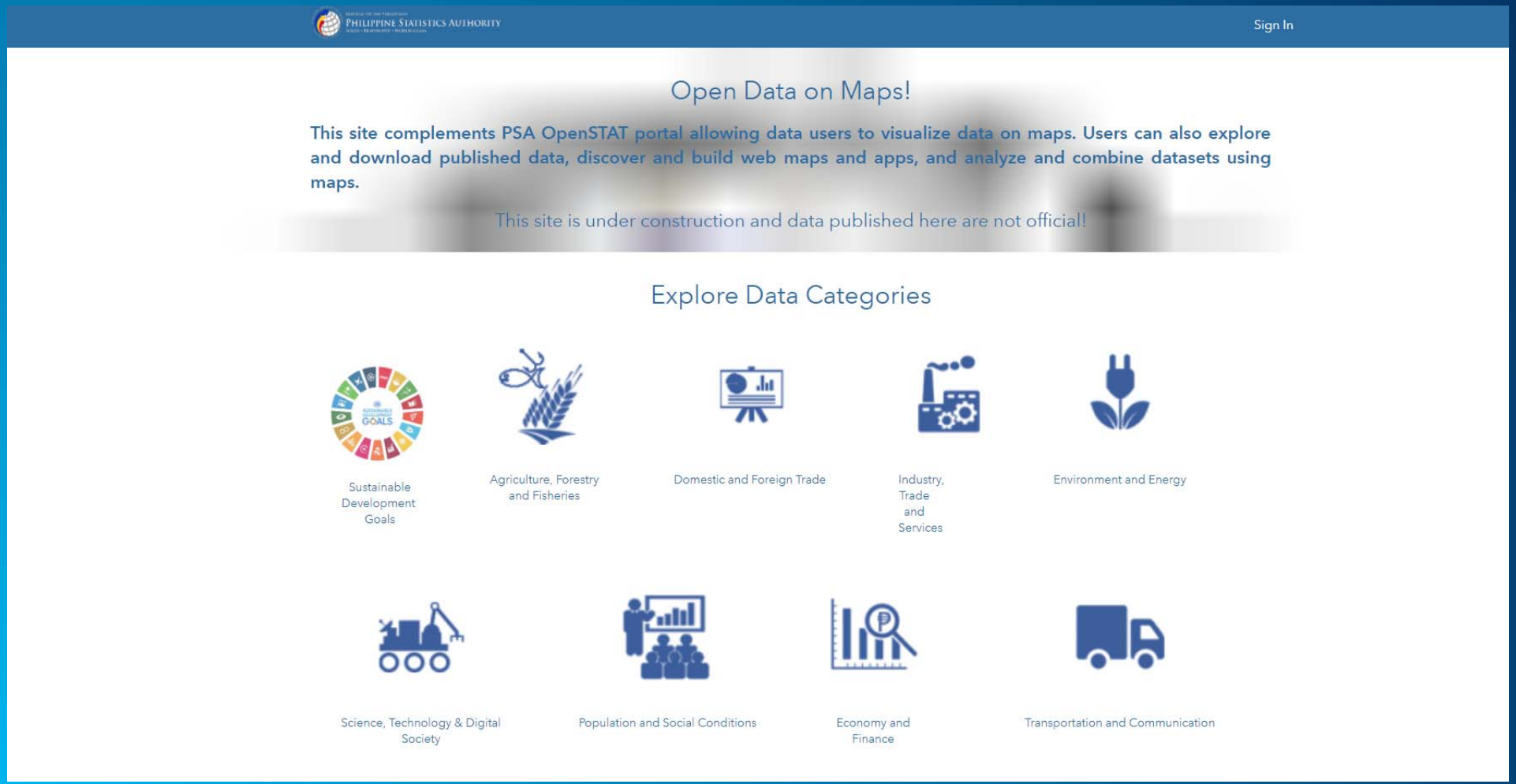
For Individual Nations …

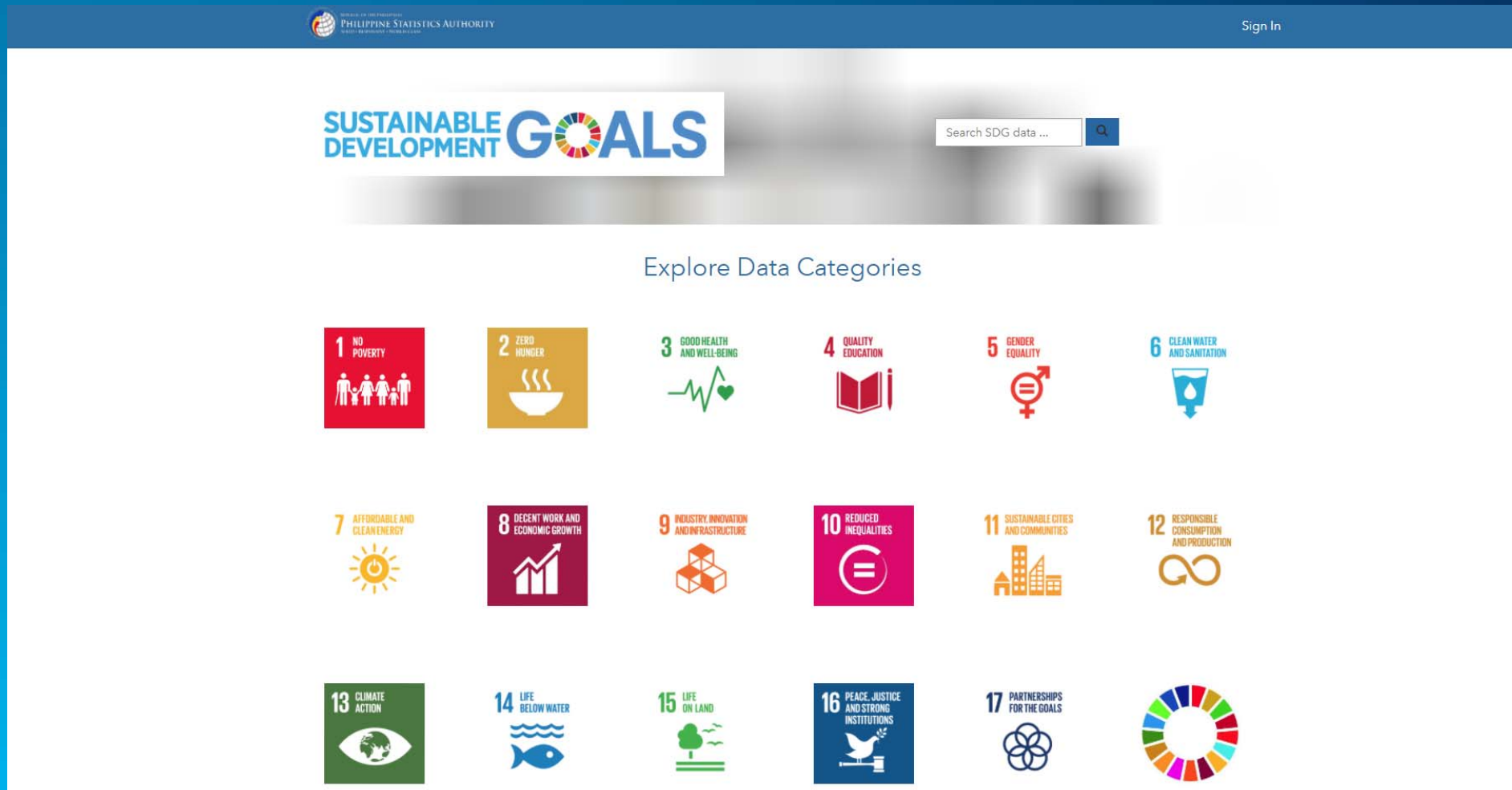
And Across Nations

The UN is Working with Member States to Develop a Shared Data Hub for Reporting on the SDG's

Shared by All Organizations and All Nations

Republic of the Philippines





OPEN DATA HUB

Views

My Items

Items

Open Data

Filter By

Tags

Philippines (7)
Population And Social Conditions (7)
Poverty (5)
Sdg 1 (3)
Net Enrolment Rate (2)

More

Source

Philippine Statistics Authority (7)

Relevance

Poverty at National Level

Shared by genevlorica

This includes all measure of poverty among family and population at the national level for the years 1991, 2006, 2009, 2012, and 2015. These are Poverty Incidence and Magnitude, Poverty and Food Thresholds, Poverty Gap, Income Gap, and Extent of Poverty. These data were derived from the result of Family Income and Expenditure

Custom License 9/11/2017 Spatial Dataset 1 Rows

Net Enrolment Rate at National Level

Shared by genevlorica

This contains data on Net Enrollment Rate in Public and Private Elementary Schools in 2013, 2014, and 2015 at National Level. Net Enrollment Rate (NER) or Participation Rate is defined as the ratio of the enrollment for the age group corresponding to official school age in the secondary level to the population of the same age group in a

No license specified 9/26/2017 Spatial Dataset 1 Rows

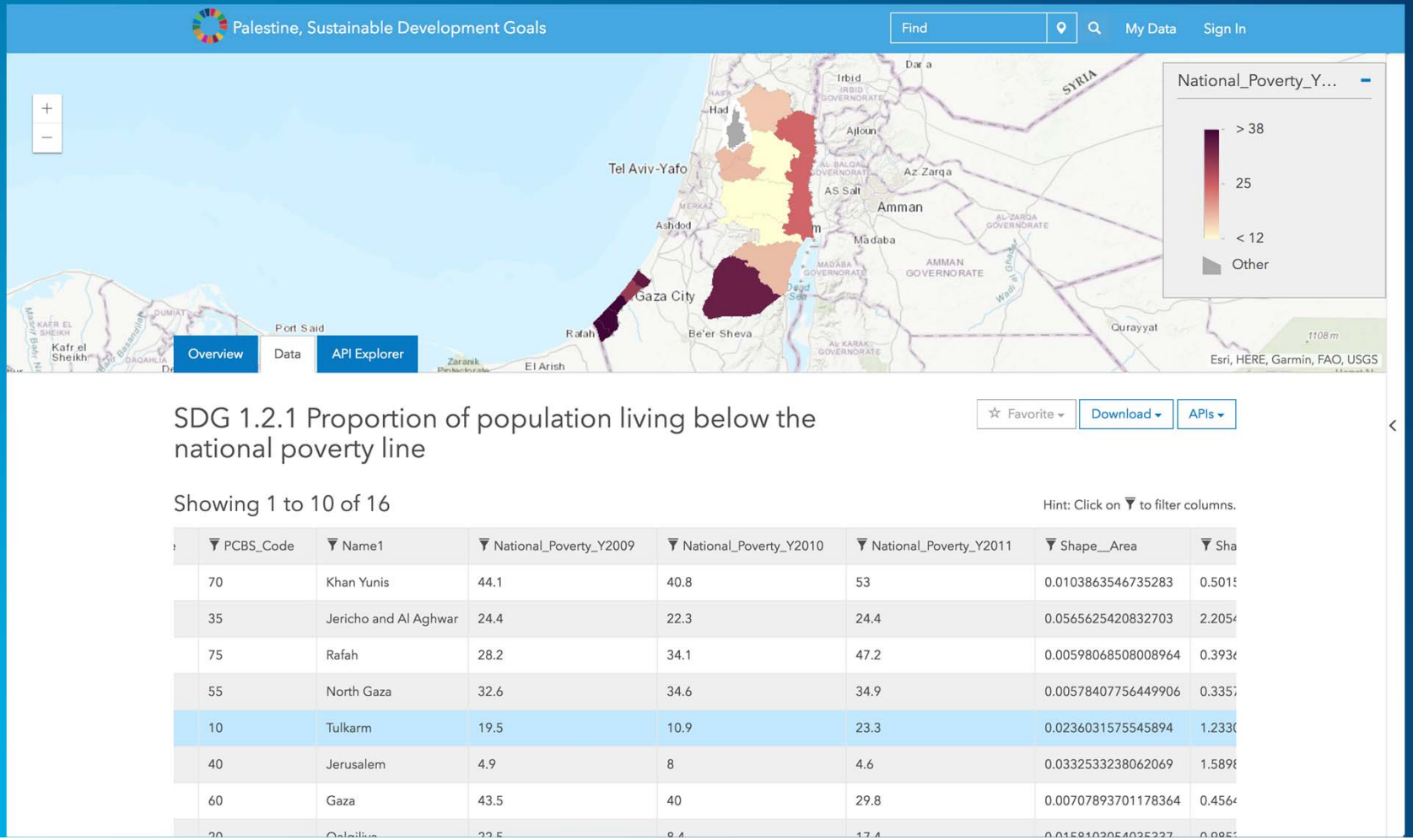
Poverty among Population in Basic Sector at Regional Level

Shared by genevlorica

This contains poverty incidence among those considered as in basic sectors or the most vulnerable in society.

The State of Palestine

The State of Palestine



SDG 1.2.1 Proportion of population living below the national poverty line

Favorite | Download | APIs

Showing 1 to 10 of 16

Hint: Click on to filter columns.

PCBS_Code	Name1	National_Poverty_Y2009	National_Poverty_Y2010	National_Poverty_Y2011	Shape__Area	Sha
70	Khan Yunis	44.1	40.8	53	0.0103863546735283	0.501
35	Jericho and Al Aghwar	24.4	22.3	24.4	0.0565625420832703	2.205
75	Rafah	28.2	34.1	47.2	0.00598068508008964	0.393
55	North Gaza	32.6	34.6	34.9	0.00578407756449906	0.335
10	Tulkarm	19.5	10.9	23.3	0.0236031575545894	1.233
40	Jerusalem	4.9	8	4.6	0.0332533238062069	1.589
60	Gaza	43.5	40	29.8	0.00707893701178364	0.456

Republic of Ireland

Ireland, Sustainable Development Goals

Sign In

Explore the Sustainable Development Goals via Story Maps

Click any Story Map below to access an interactive narrative on a Sustainable Development Goal for Ireland.

Ireland's Life on Land

The Changing Patterns of Un...

The Status of Ireland's Rivers

Explore our data for Sustainable Development Goals

Click on an icon below to access spatial indicators relating to a particular Goal.

1. No Poverty

2. Zero Hunger

3. Good Health & Wellbeing

4. Quality Education

5. Gender Equality

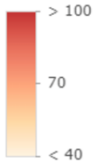
6. Clean Water and Sanitation

Ireland's Life on Land

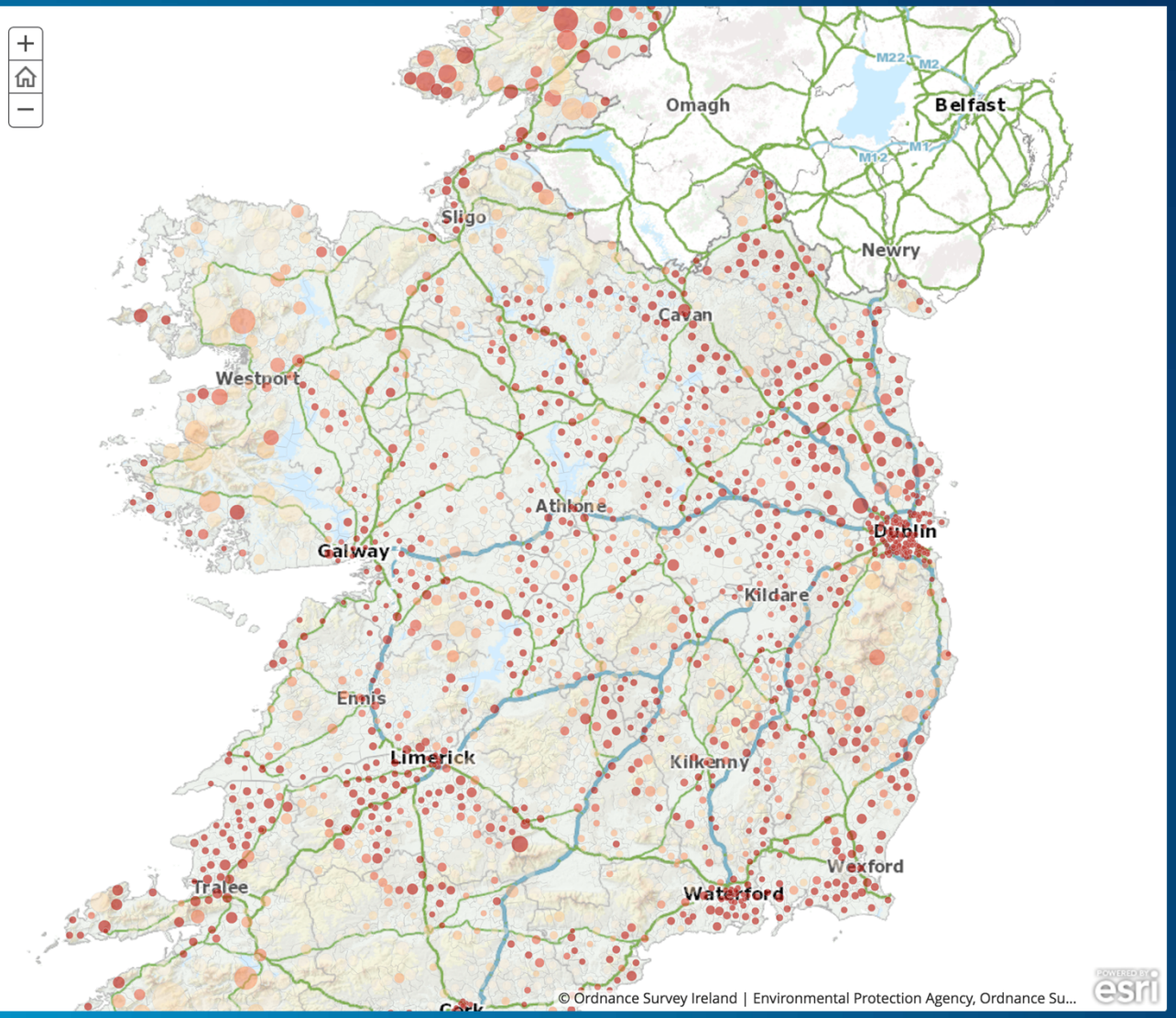
What is the status of Ireland's Protected Areas?

The Shannon region highlighted above contains a diverse range of habitats and species. Many of the protected sites in this region are water bodies or water dependent habitats. The status of water bodies in this area provide some insight into the condition of the habitats it contains.

The map represents the proportion of rivers that have **not** achieved at least 'Good status', 2015 at Electoral Division level. The data supports SDG 6.3.2 Proportion of Rivers Achieving at Least Good Ambient Quality. Zoom to the River Shannon region.



% Rivers **not** achieving at least 'Good status', EPA, OSi, 2015



Story Maps

The Changing Patterns of Unemployment and Poverty in Ireland, 2011-2017
This Story Map illustrates changes in Ireland in relation to unemployment and poverty throughout the last decade. The Story Map has been developed to inform efforts in reporting Ireland's status in relation to achieving United Nations (UN) Sustainable Development Goals.
UN countries have adopted a set of 17 goals to end poverty, protect the planet and ensure prosperity for all as part of a new sustainable development agenda. Each goal has specific targets to help achieve the goals set out in the agenda by 2030.
Images, interactive maps, charts and text have been combined to highlight trends. Indicators illustrated below highlight
SWEATERS
The Factory Shop
CHOICE
Ladbrokes

The Status of Ireland's Rivers

A story map

Introduction | Status of Ireland's Rivers, 2015 | Where are the 'High Status' rivers? | Decline in River Status 2012 to 2015 | Threats to Ireland's Rivers | Conclusion

This Story Map explores Ireland's river water quality, threats to river water quality and trends over time. The application has been developed to inform efforts to monitor Ireland's progress in relation to achieving targets set out by the 17 United Nation (UN) Sustainable Development Goals.

UN countries have adopted a set of 17 goals to end poverty, protect the planet and ensure prosperity for all as part of a new sustainable development agenda. Each goal has specific targets to help achieve the goals set out in the agenda by 2030.

This Story Map relates to UN Sustainable Development Goal **6** which aims to ensure availability and sustainable management of water and sanitation for all.

Interactive maps, images and text have been combined to investigate how Ireland is doing in relation to water quality.

The Environmental Protection Agency (EPA) monitors Ireland's rivers. Continuous sampling is carried out to report annually on river quality and a full survey cycle is completed every three years (EPA, 2017).

6 CLEAN WATER AND SANITATION

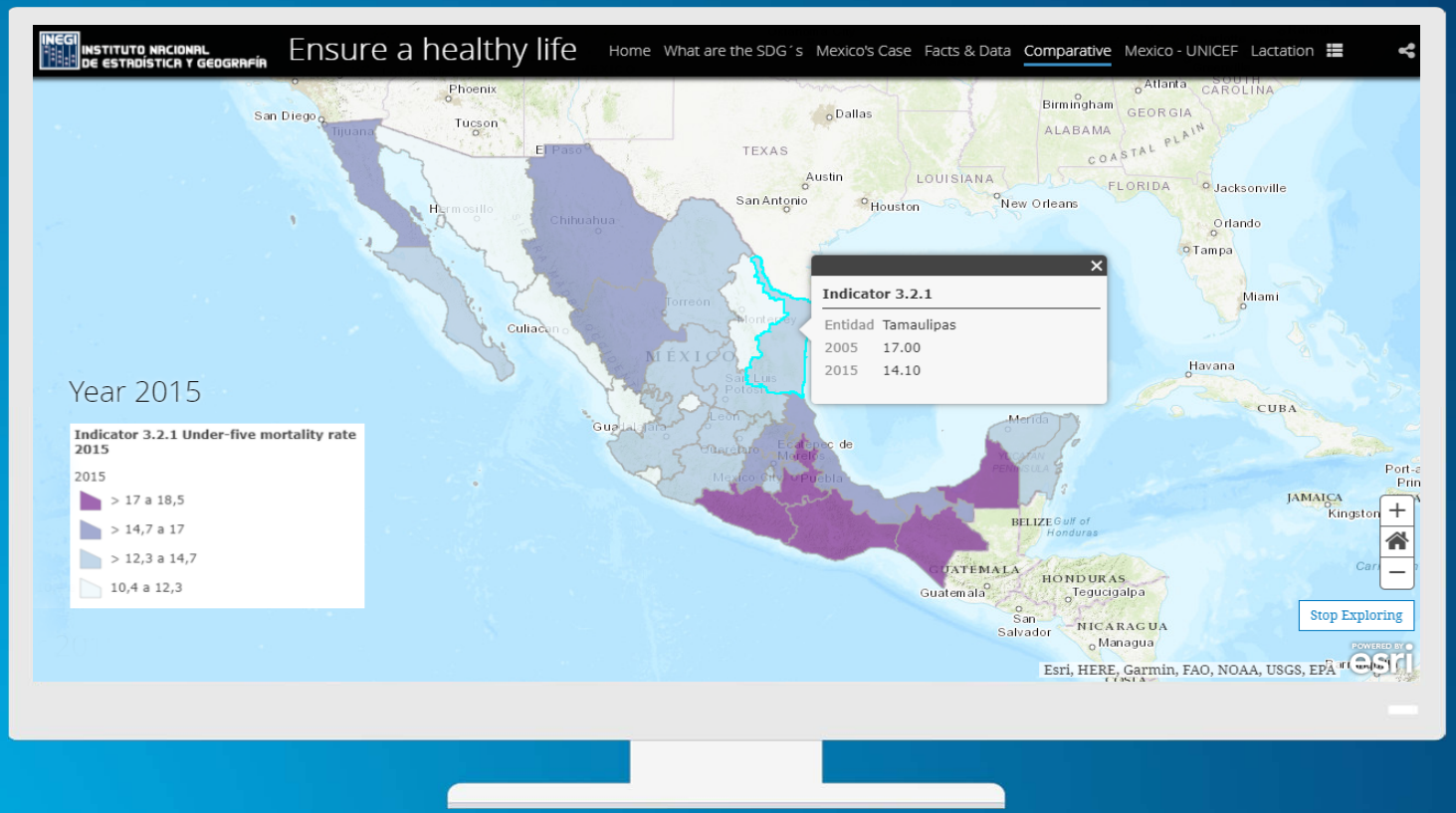
Mexico – United Mexican States

SUSTAINABLE DEVELOPMENT GOALS

SUSTAINABLE DEVELOPMENT GOALS

On 1 January 2016, the world officially began implementation of the 2030 Agenda for Sustainable Development–the transformative plan of action based on 17 Sustainable Development Goals–to address urgent global challenges over the next 15 years. This agenda is a road map for people and the planet that will build on the success of the Millennium Development Goals and ensure sustainable social and economic progress worldwide. It seeks not only to eradicate extreme poverty, but also to integrate and balance the three dimensions of sustainable development–economic, social and environmental–in a comprehensive global vision. All nations will need to build the Sustainable Development Goals into their national policies and plans if we are to achieve them.

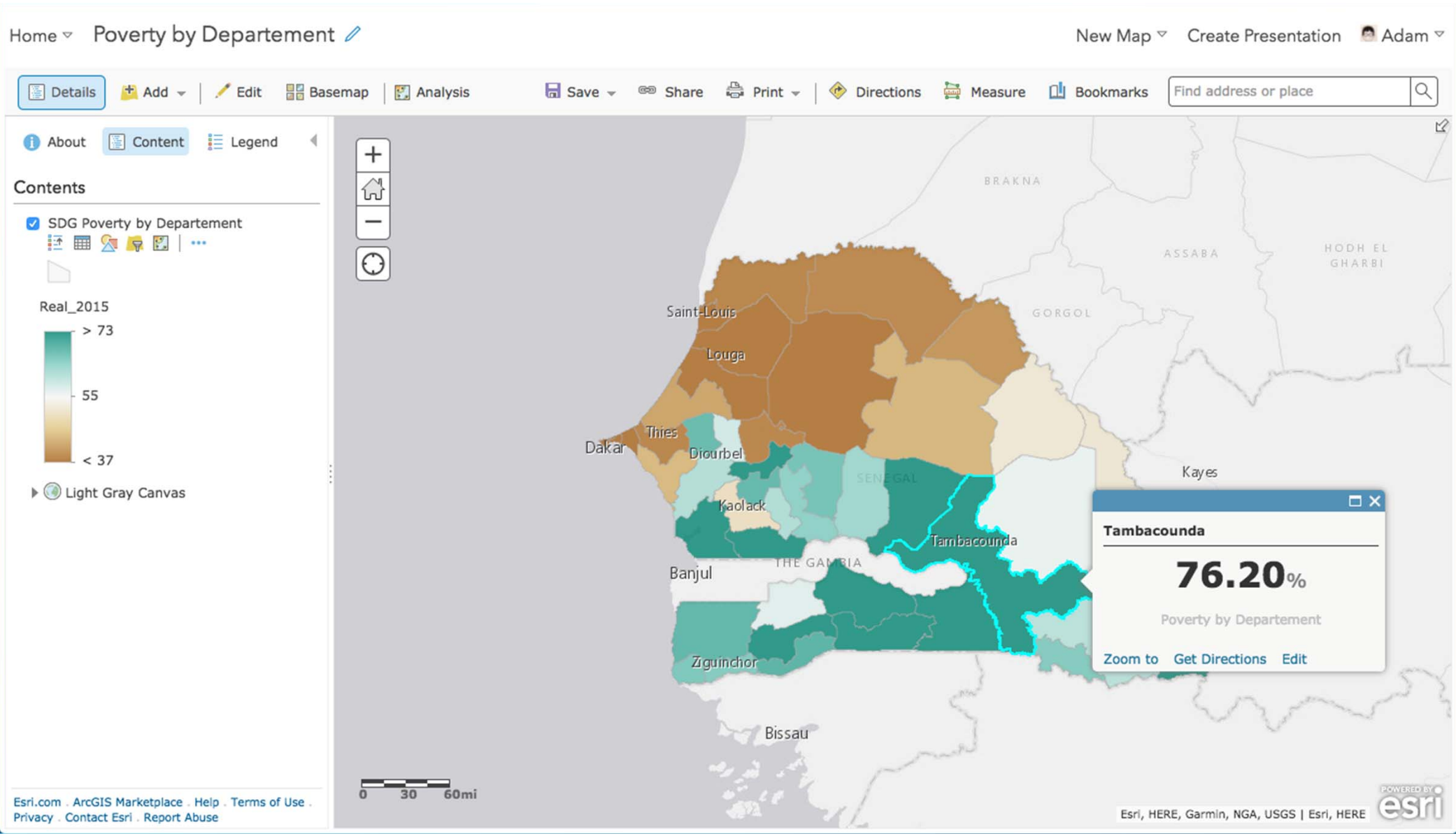
Mexico – Child Mortality



Mexico

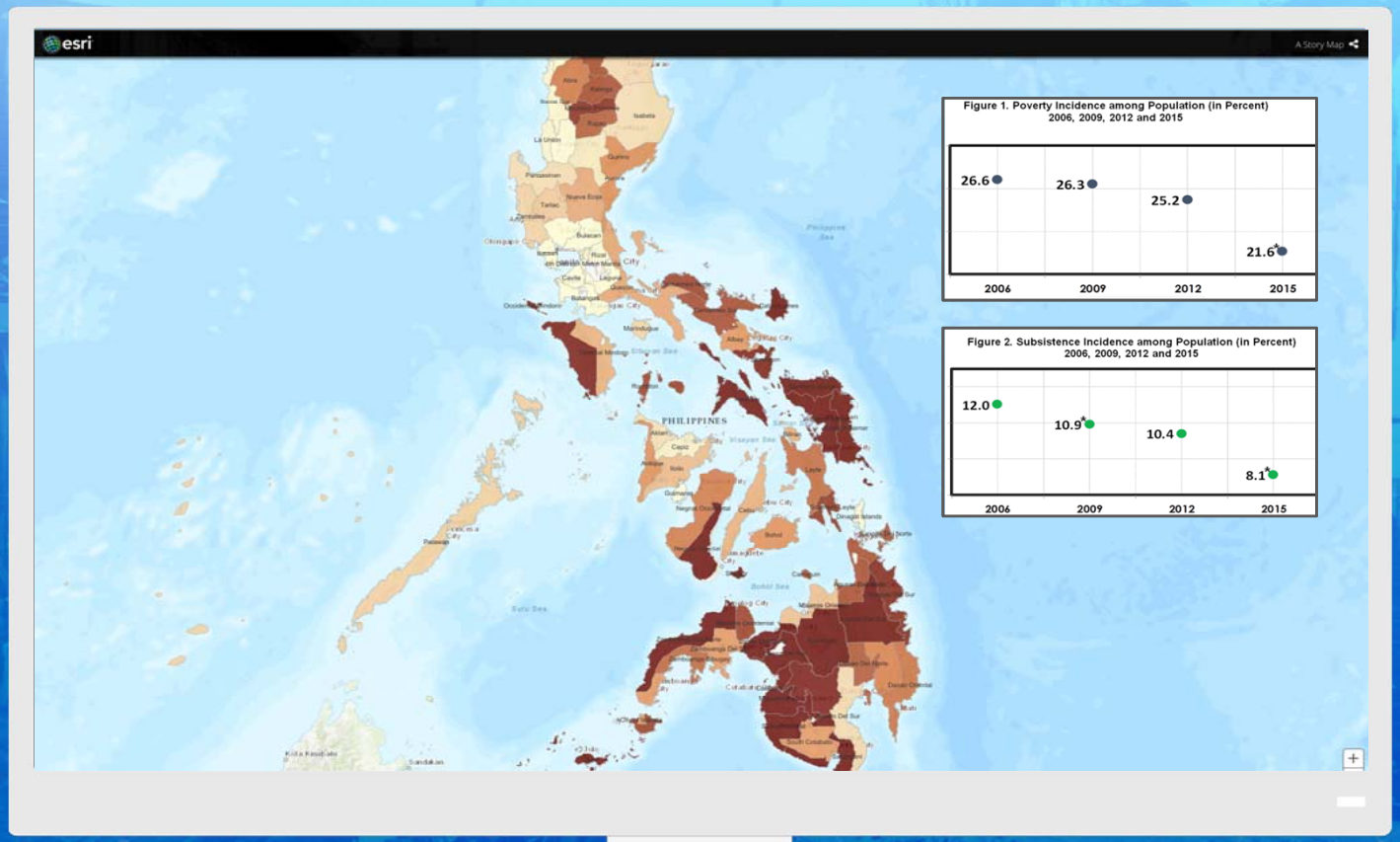
INEGI
INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA
Ensure a healthy life
and promote well-being for all at all ages

Republic of Senegal


Home
Poverty by Departement
New Map
Create Presentation
Adam
Details
Add
Edit
Basemap
Analysis
Save
Share
Print
Directions
Measure
Bookmarks
Find address or place
About
Content
Legend
Contents
SDG Poverty by Departement
Real_2015
> 73
55
< 37
Light Gray Canvas
Esri.com . ArcGIS Marketplace . Help . Terms of Use .
Privacy . Contact Esri . Report Abuse
BRAKNA
ASSABA
HODH EL GHARBI
GORGOL
Saint-Louis
Louga
Thies
Dakar
Diourbel
SENEGAL
Kaolack
Kayes
Tambacounda
THE GAMBIA
Banjul
Ziguinchor
Bissau
Tambacounda
76.20%
Poverty by Departement
Zoom to
Get Directions
Edit
0 30 60mi
Esri, HERE, Garmin, NGA, USGS | Esri, HERE
POWERED BY esri

Empowering the Philippines

To Understand Poverty

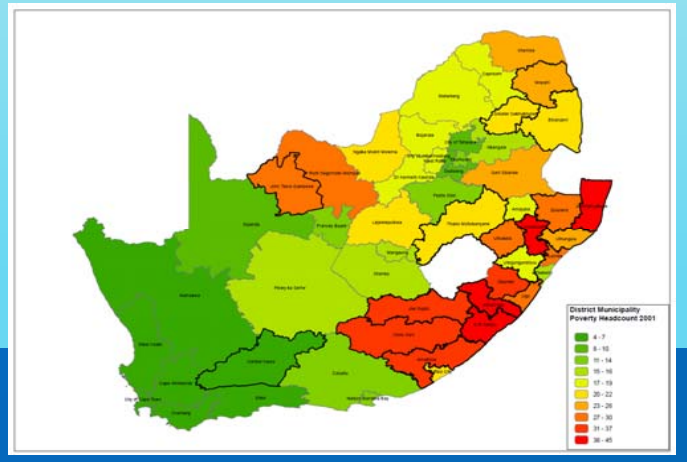


Helping South Africa

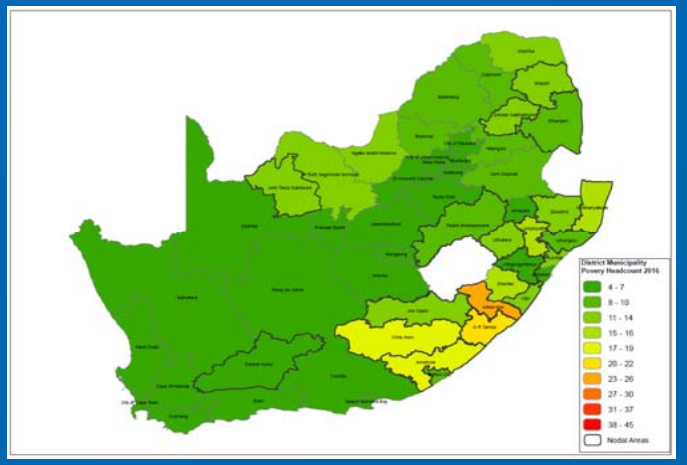
Visualize Statistical Patterns

	A	B	C	D
1	**Statistics South Africa**			
2	**Descriptive_Sub_Place**			
3	**Table 1**			
4	**Geography by Population group**			
5	**for Person weighted**			
6				
7		**2001**	**2011**	**2016**
8	DC10: Cacadu	6.9	3.9	2.2
9	DC12: Amathole	6.6	3.7	2.6
10	DC13: Chris Hani	7.4	3.9	2.6
11	DC14: Joe Gqabi	7.0	3.2	2.8
12	DC15: O.R.Tambo	3.8	2.0	2.9
13	DC44: Alfred Nzo	13.0	4.6	3.0
14	BUF: Buffalo City	4.8	2.5	3.1

	A	B	C	D	E
1	**DC_MDB_C_2011**	**DISTRICT**	**2001**	**2011**	**2016**
2	DC4	Eden	6.9	3.9	2.2
3	DC3	Overberg	6.6	3.7	2.6
4	CPT	City of Cape Town	7.4	3.9	2.6
5	DC6	Namakwa	7.0	3.2	2.8
6	DC1	West Coast	3.8	2.0	2.9
7	NMA	Nelson Mandela Bay	13.0	4.6	3.0
8	DC2	Cape Winelands	4.8	2.5	3.1
9	DC5	Central Karoo	6.2	2.4	3.1
10	DC42	Sedibeng	9.4	3.9	3.5
11	JHB	City of Johannesburg	9.1	3.7	3.5
12	ETH	eThekwini	14.8	6.6	3.8
13	TSH	City of Tshwane	9.6	4.2	4.1
14	DC10	Cacadu	13.8	5.2	4.5
15	DC25	Amajuba	18.2	7.5	4.7
16	DC18	Lejweleputswa	21.1	5.6	4.8
17	DC40	Dr Kenneth Kaunda	16.7	5.2	4.9
18	DC20	Fezile Dabi	12.4	4.4	4.9
19	MAN	Mangaung	14.7	4.8	5.0
20	DC16	Xhariep	16.1	4.9	5.3
21	DC8	Siyanda	10.3	4.7	5.3
22	DC9	Frances Baard	12.7	7.2	5.4
23	DC22	uMgungundlovu	17.4	7.7	5.9
24	DC7	Pixley ka Seme	15.2	7.2	6.0



2001



2016

SUSTAINABLE DEVELOPMENT GOALS

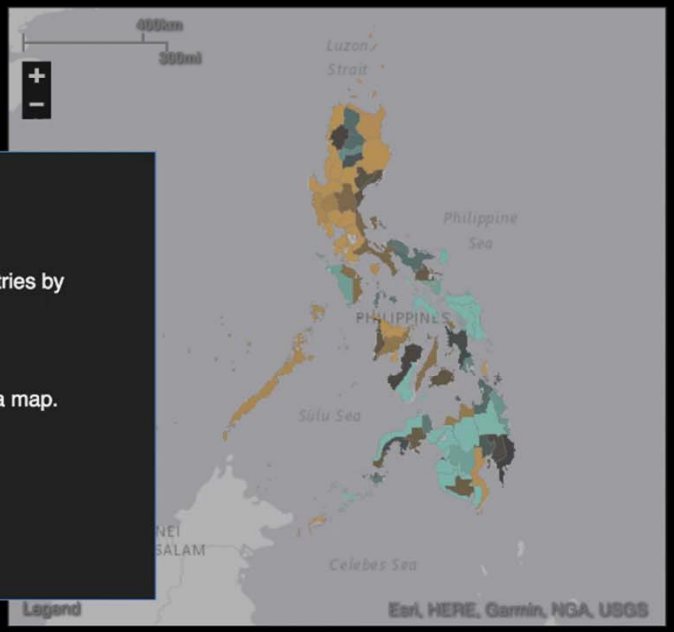
Themes | Countries

Poverty

Ireland

Mexico

Philippines



SUSTAINABLE DEVELOPMENT GOALS

The SDG Observatory comparison app enables you to explore the living fabric of countries by browsing a variety of countries and themes.

To change **Themes**, click on a theme name in the Themes list.

To change **Countries**, click on the name in the Countries list, or drag-and-drop it over a map.

More Information on the UN Sustainable Development Goals

Start Comparing

SDG 1.2.1, Proportion of Population Living Below the National Poverty Line, NUTSIII, 2015, Ireland, CSO & OSi

This feature layer represents Sustainable Development Goal indicator 1.2.1 'Proportion of Population Living Below the National Poverty Line' for Ireland in 2015. The layer was created using 'at risk of poverty rate' data from the Survey on Income and Living Conditions (SILC) 2015 produced by the Central Statistics Office (CSO) and NUTSIII boundary data produced by Ordnance Survey Ireland (OSi). In 2015 UN countries adopted a set of 17 goals to end poverty, protect the planet and ensure prosperity for all as part of a new sustainable development agenda. Each goal has specific targets to help achieve the goals set out in the agenda

Indicator 1.2.1 Proportion of population living below the national poverty line, by sex and age

Source of statistical information used to calculate the indicator:

- Instituto Nacional de Estadística y Geografía (INEGI). Módulo de Condiciones Socioeconómicas de la Encuesta de Ingresos y Gastos de los Hogares, 2010 - 2014
- Consejo Nacional de Evaluación de la Política de Desarrollo Social (CONEVAL). Metodología para la medición multidimensional de la pobreza en México(1 de marzo de 2017).

Unit of measure: Percentage
Time reference: 2010-2014

Poverty at Provincial Level

This includes all measure of poverty (among family and population) at the provincial level for the years 2006, 2009, 2012, and 2015. These are Poverty Incidence and Magnitude, Poverty and Food Thresholds, Poverty Gap, Income Gap, and Extent of Poverty. These data were derived from the result of their corresponding Family Income and Expenditure Survey. Map Displays at Scale: 1:100 to 1:6,000,000

Source http://mapstat-psa.opendata.arcgis.com/datasets/poverty-at-provincial-level

Your Data is Fuel for Great Maps of the World

The Work is Already Underway

With Pilot Projects in 15 Countries

Humans Are More Capable Than Ever

. . . of Sharing and Applying Geographic Knowledge

. . . of Understanding

and Acting

The pieces are fitting into place…

Technology

Process

People

Creating a Platform for Managing our Future

Your Data Work and Investments are Critically Important

- Country-owned, Country-led
- Combined into global data coverage

Esri and Our Partners have a Strong Interest in Helping You Succeed

- Pilot Projects
- Methods and Best Practices
- Tech for Least Developed Countries
- Strive to be a Trusted Technical Partner with You

Microsoft, Computer Associates, Public Foundation, Sharemeister, Voltaic Systems

A story map

The Sustainable Development Goals

We must take action today to help ensure the health and well-being of future generations. As an outcome of the Rio+20 Conference, the Sustainable Development Goals are part of *The Future We Want* Resolution, which is in pursuit of achieving tremendous goals by 2030 to promote sustainable development.

These 17 goals set out to end poverty, protect the planet, and ensure prosperity for all. This requires participation from everyone, including governments, the private sector, civil society, and even people like you.

From Millennium Development Goals to the Sustainable Development Goals

At the turn of the century, the United Nations established 8 goals in an effort to tackle some of the world's most pressing challenges. The Millennium Development Goals were an ambitious project aimed at alleviating poverty by 2015. Building on the success of the MDGs, the UN created 17 Sustainable Development Goals that came into effect in January 2016.

While the MDGs were focused on developing countries, the SDGs are universal. These Sustainable Development Goals