FIS4SDGs:
Engaging government and citizens with the SDGs

Linda Peters, Esri

United Nations
World Geospatial
Information Congress
联合国世界地理信息大会

Vision

GIS

Is Enabling a
Sustainable World

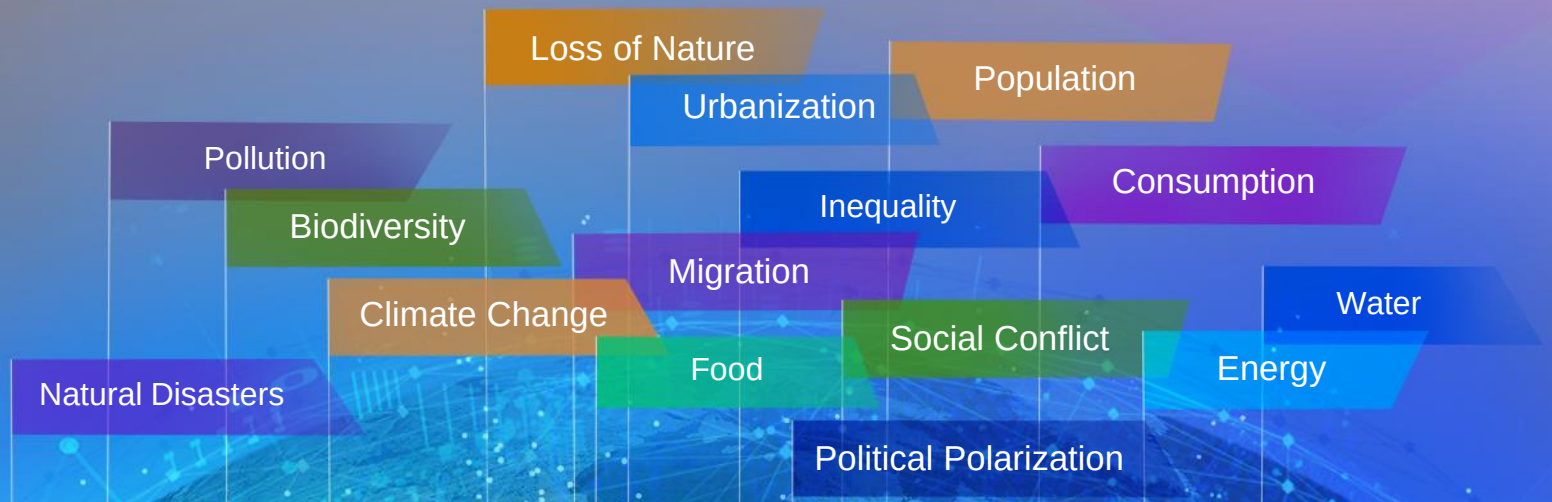
OUR WORLD

Is Increasingly Challenged

The Evidence Is Clear…

We Need *Better Understanding*…
…and *More Collaboration*

…and *Action*



OUR WORLD

Is Undergoing a Massive Digital Transformation

GIS Provides a Platform

For Managing, Analyzing, and Applying Geographic, Statistical & Imagery Information

Integrating People, Processes, Things, and Data About Them

Using the Power of Where to Integrate Everything

Information Systems are Becoming Distributed

A New Architecture Is Emerging

Enabling integrated collaboration and coordination

Enabled by Portals . . .
. . . Abstracting Distributed Data and Analytics

New Types of Data Collaborations Are Emerging

Connecting Individuals, Organizations and Communities

Individuals

Breaking Down Barriers

Organizations

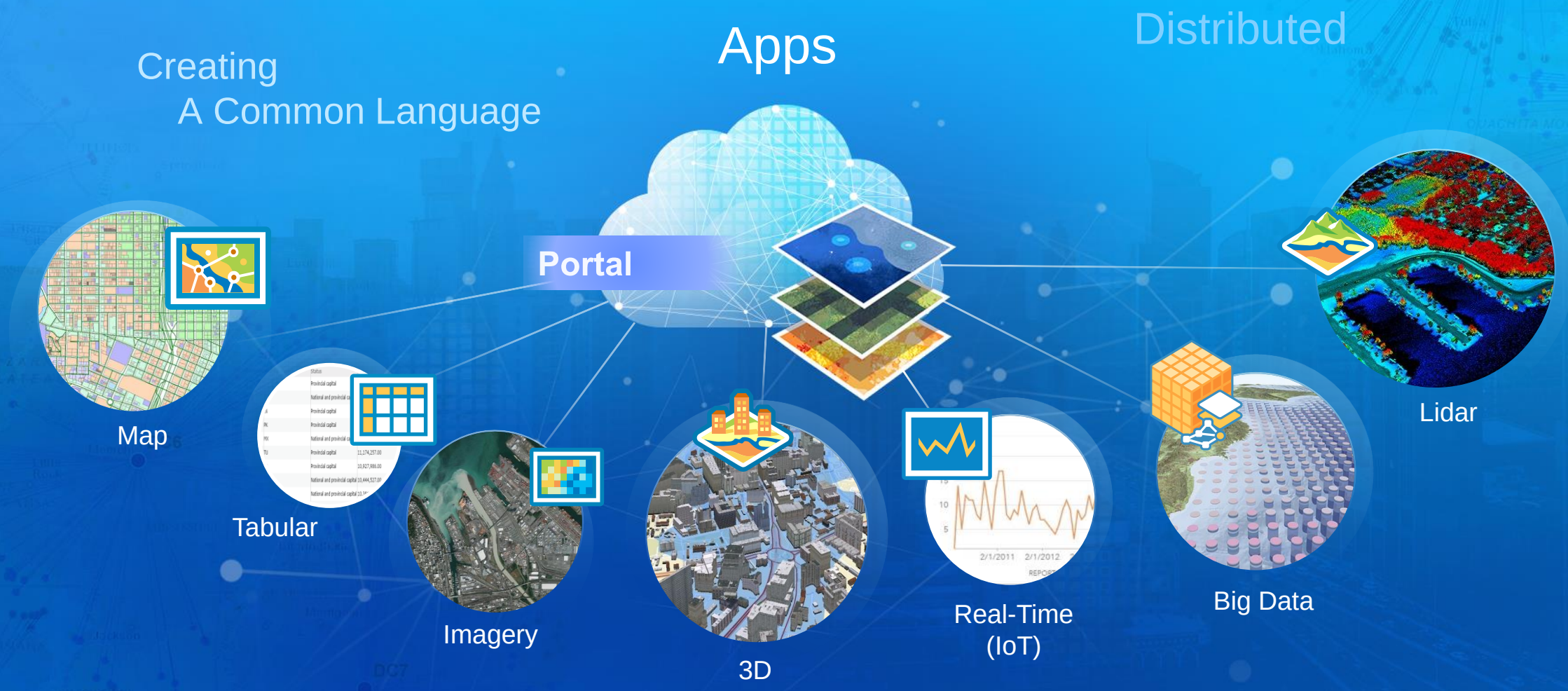
Sharing Geo-Statistical Knowledge

Networks of Organizations

. . . Creating a Nervous System for People and Planet and a Means to Measure and Monitor Progress…

Web GIS Simplifies Working With All Types of Data

Using Web Maps, Scenes, and Layers



Providing the Integrating Framework and Processes

For Enabling a Smarter World

Informing

Data Collection and Development

Data Integration, Sharing and Management

Understanding

Geo-Statistical Analytics and Modeling

Planning and Decision-Making

Collaborating

Stakeholder Engagement

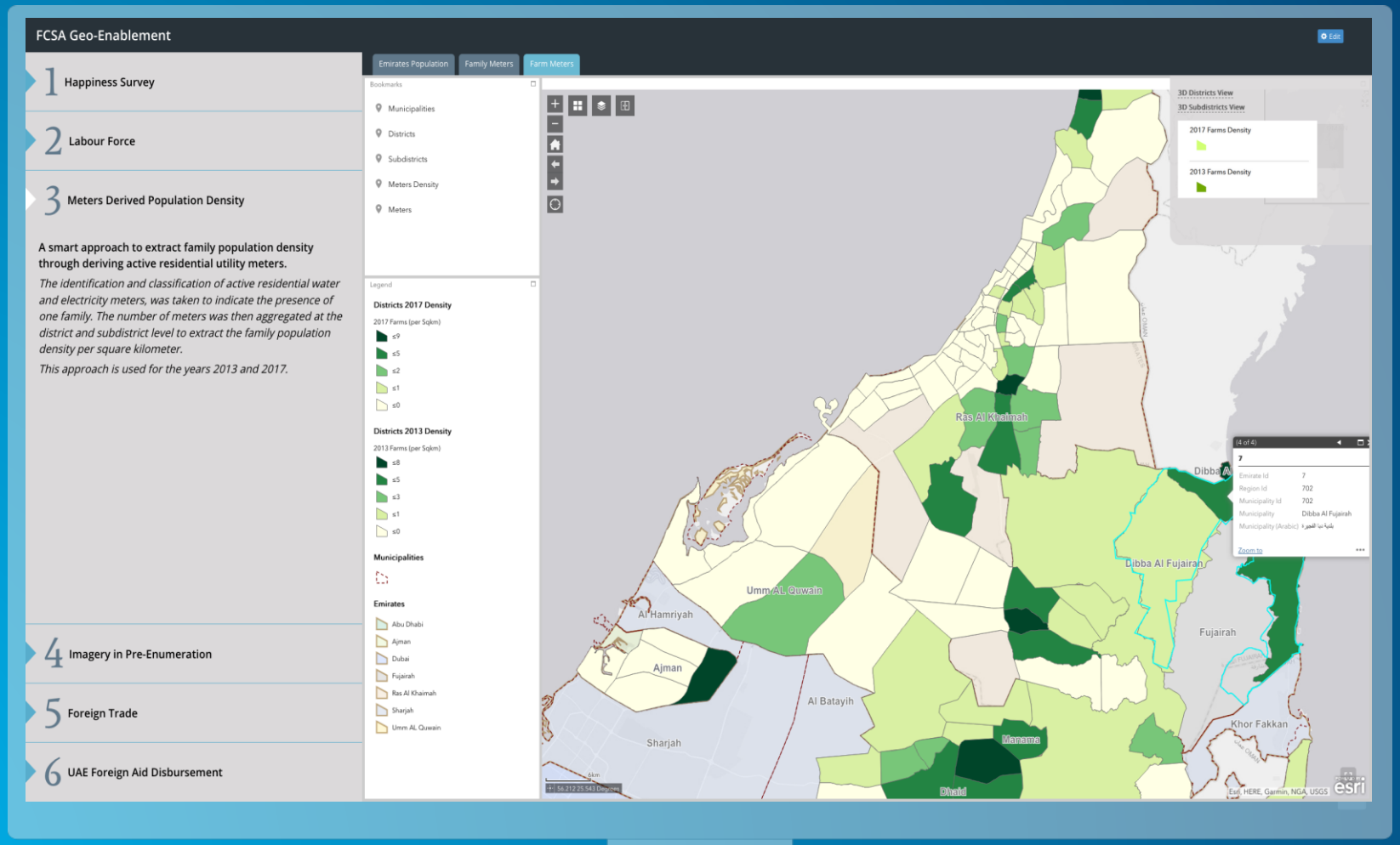
Delivering

Action and Outcomes

Transforming How We Think and Act . . .
. . . Creating a More Sustainable Future

Integrating Geography and Statistics

To understand our society, economy and environment



GIS Now Provides the Means . .

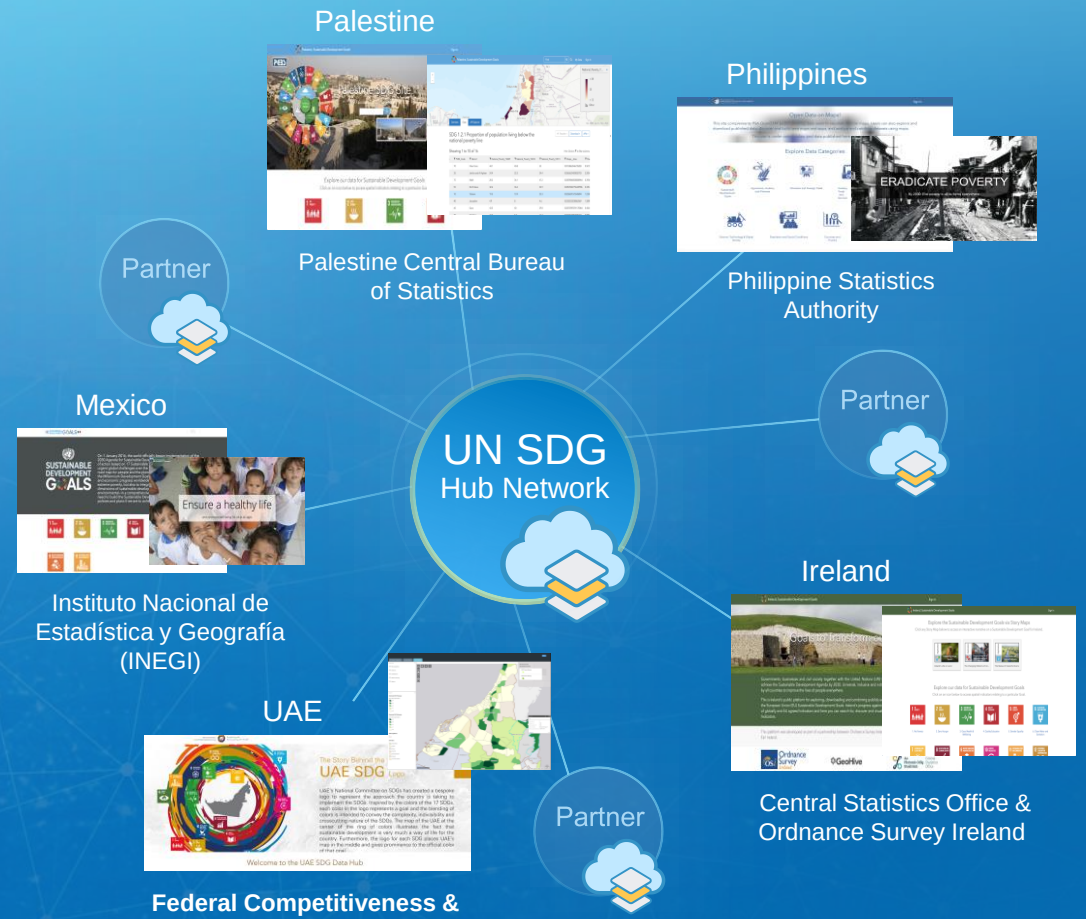
.

SDGs

. . For Creating Federated Systems

Web GIS Has Enabled a network of SDG Hubs worldwide

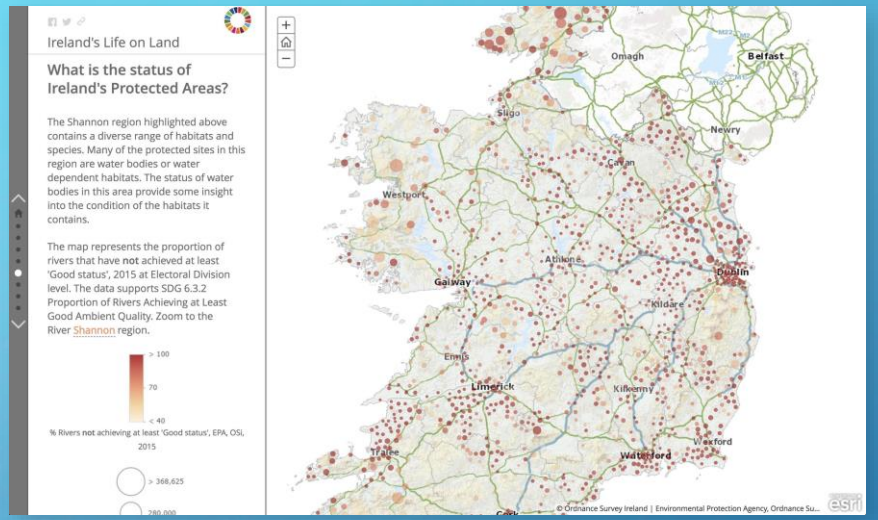
A Global SDG Hub …



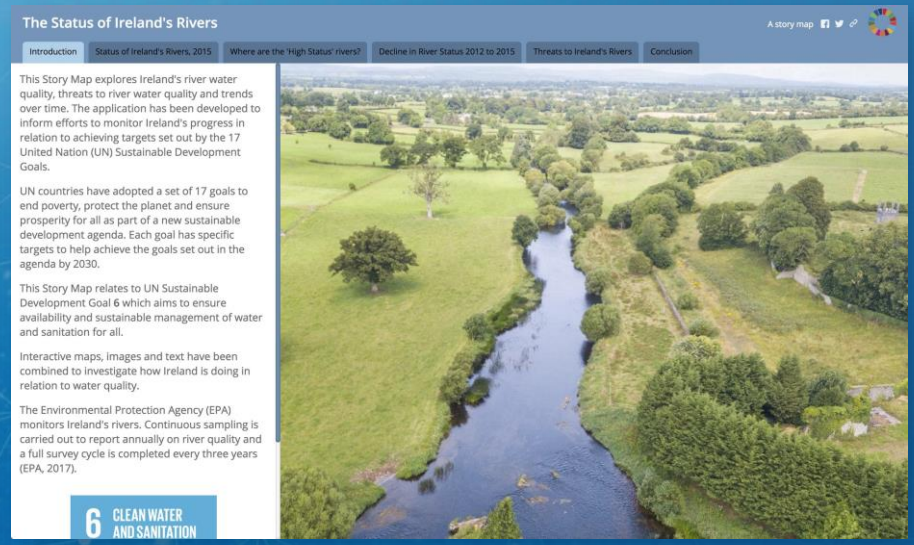
. . . and a Network of National SDG Hubs

Ireland

Ireland, Sustainable Development Goals
Sign In
17 Goals to Transform our World
Governments, businesses and civil society together with the United Nations (UN) have started to mobilise efforts to achieve the Sustainable Development Agenda by 2030. Universal, inclusive and indivisible, the Agenda calls for action by all countries to improve the lives of people everywhere.

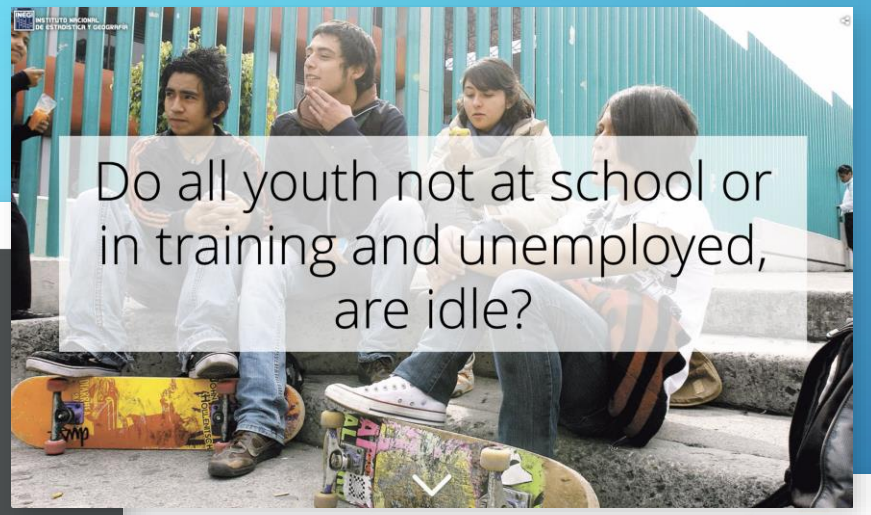

Ireland's Life on Land
What is the status of Ireland's Protected Areas?
The Shannon region highlighted above contains a diverse range of habitats and species. Many of the protected sites in this region are water bodies or water dependent habitats. The status of water bodies in this area provide some 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.
> 100
70
< 40
% Rivers not achieving at least 'Good status', EPA, OSi, 2015
> 368,625
Omagh
Belfast
Sligo
Newry
Carlow
Westport
Galway
Athlone
Dublin
Kildare
Ennis
Limerick
Kilkenny
Waterford
Wexford
© Ordnance Survey Ireland | Environmental Protection Agency, Ordnance Su...
esri

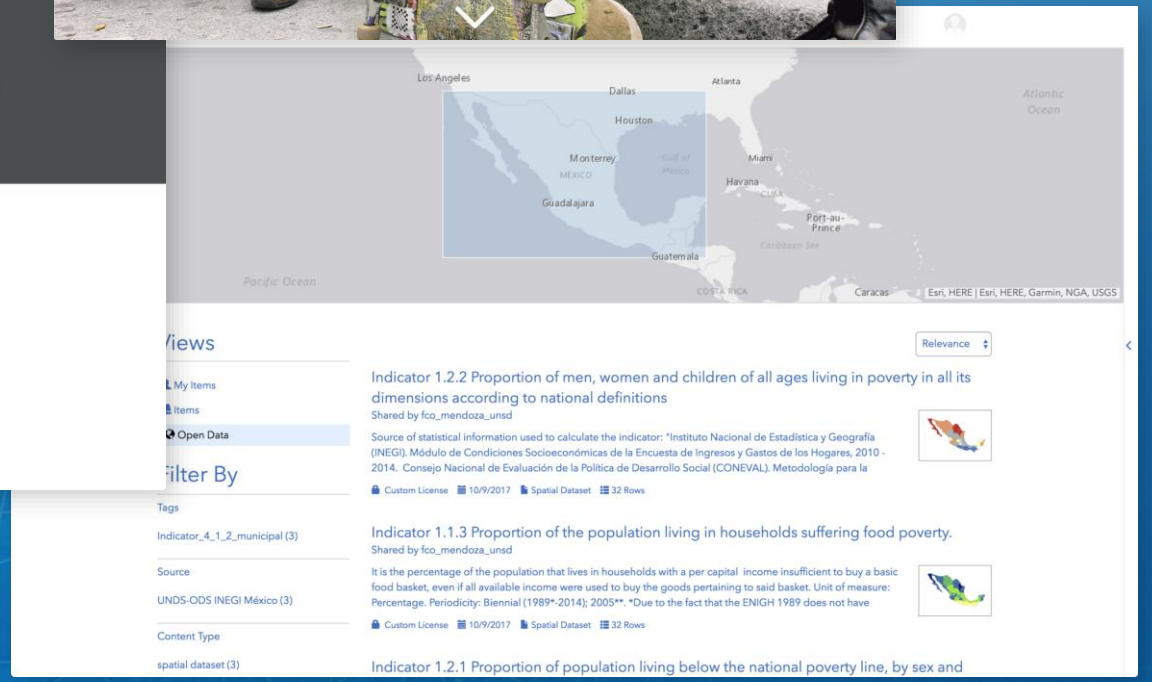
The Changing Patterns of Unemployment and Poverty in Ireland, 2011-2017
This Story Map illustrates changes in Ireland in relation to unemployment and poverty throughout the last decade. The Story Map has been developed to inform efforts in reporting Ireland's status in relation to achieving United Nations (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 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

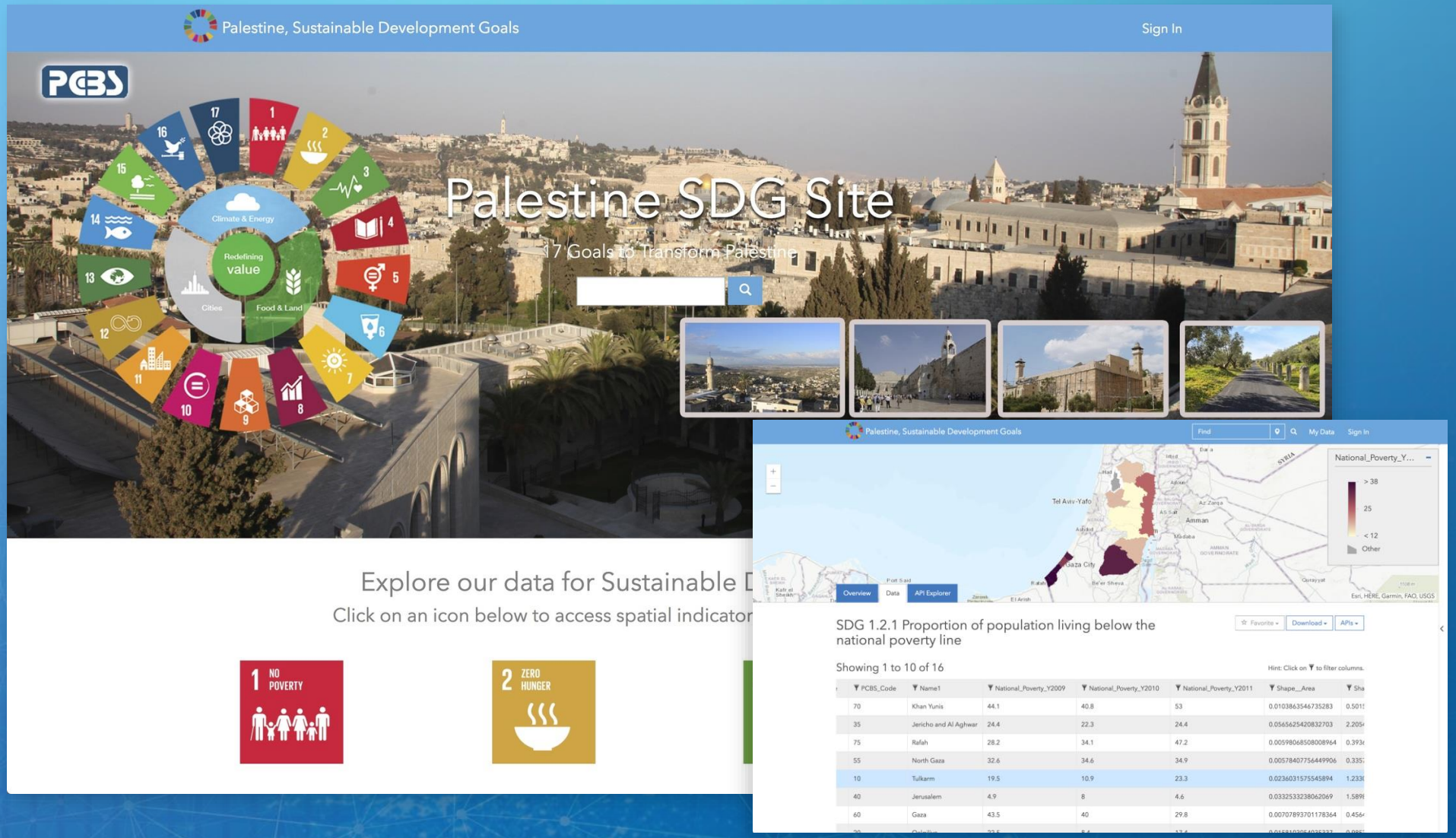
Mexico

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.
1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
11 SUSTAINABLE CITIES AND COMMUNITIES


Do all youth not at school or in training and unemployed, are idle?

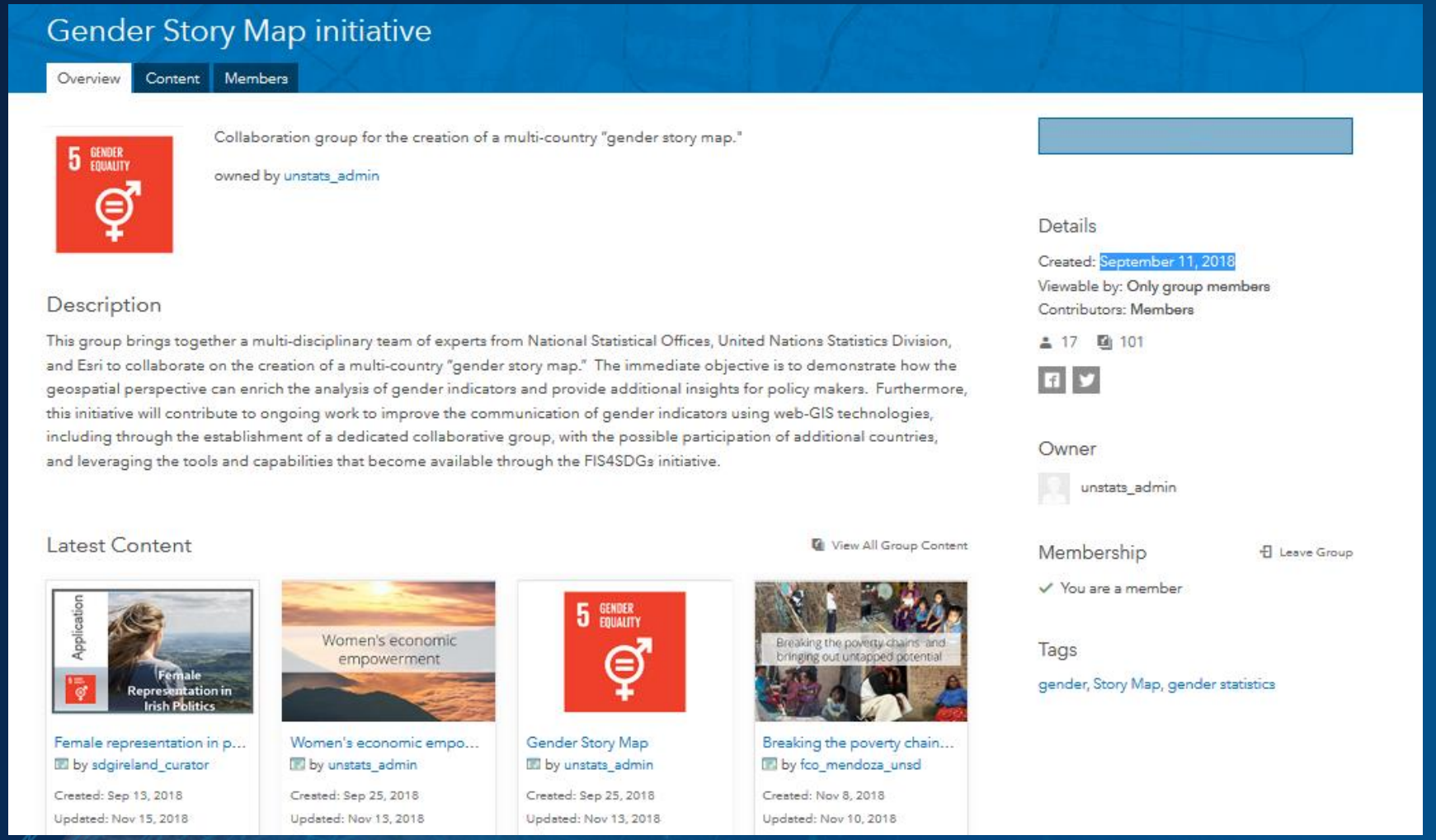

Los Angeles
Dallas
Atlanta
Houston
Monterrey
MEXICO
Guadalajara
Miami
Havana
CUBA
Port-au-Prince
Guatemala
Caribbean Sea
Pacific Ocean
COSTA RICA
Caracas
Atlantic Ocean
Esri, HERE | Esri, HERE, Garmin, NGA, USGS
Views
Relevance
My Items
Items
Open Data
Filter By
Tags
Indicator_4_1_2_municipal (3)
Source
UNDS-ODS INEGI México (3)
Content Type
spatial dataset (3)
Indicator 1.2.2 Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions
Shared by fco_mendoza_unsd
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
Custom License
10/9/2017
Spatial Dataset
32 Rows
Indicator 1.1.3 Proportion of the population living in households suffering food poverty.
Shared by fco_mendoza_unsd
It is the percentage of the population that lives in households with a per capital income insufficient to buy a basic food basket, even if all available income were used to buy the goods pertaining to said basket. Unit of measure: Percentage. Periodicity: Biennial (1989*-2014); 2005**. *Due to the fact that the ENIGH 1989 does not have
Custom License
10/9/2017
Spatial Dataset
32 Rows
Indicator 1.2.1 Proportion of population living below the national poverty line, by sex and

Palestine


Palestine, Sustainable Development Goals
Sign In
PCBS
Palestine SDG Site
17 Goals to Transform Palestine
Climate & Energy
Redefining value
Cities
Food & Land
Explore our data for Sustainable D
Click on an icon below to access spatial indicator
1 NO POVERTY
2 ZERO HUNGER
Palestine, Sustainable Development Goals
My Data
Sign In
National_Poverty_Y...
> 38
25
< 12
Other
Overview
Data
API Explorer
SDG 1.2.1 Proportion of population living below the national poverty line
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
70 Khan Yunis 44.1 40.8 53 0.0103863546735283
35 Jericho and Al Aghwar 24.4 22.3 24.4 0.0565625420832703
75 Rafah 28.2 34.1 47.2 0.0059806850800896
55 North Gaza 32.6 34.6 34.9 0.0057840756449906
10 Tulkarm 19.5 10.9 23.3 0.0236031575545894
40 Jerusalem 4.9 8 4.6 0.0332533238062069
60 Gaza 43.5 40 29.8 0.00707893701178364

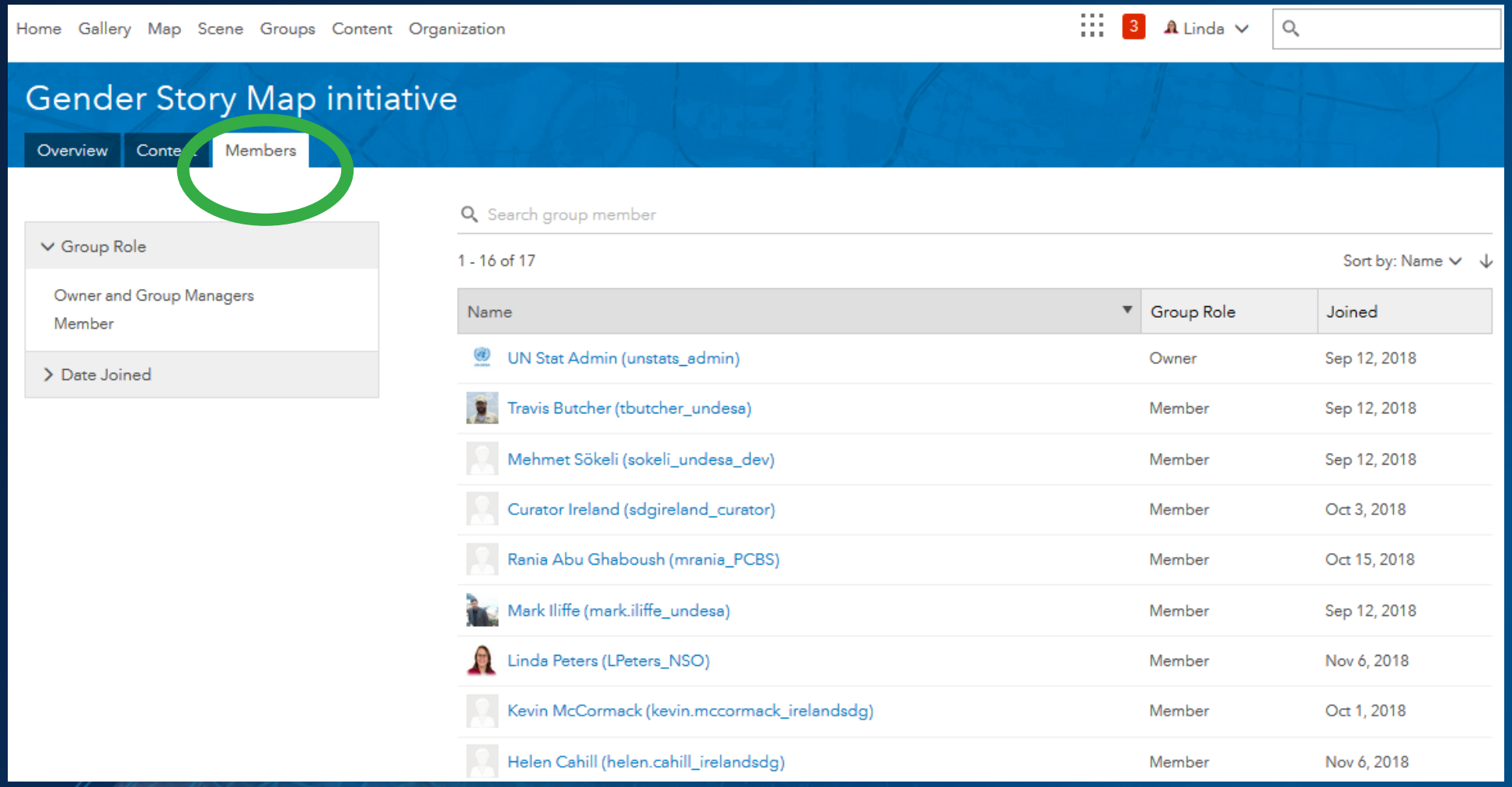
Using Web GIS

…Bringing together community focused on goal-target and indicators

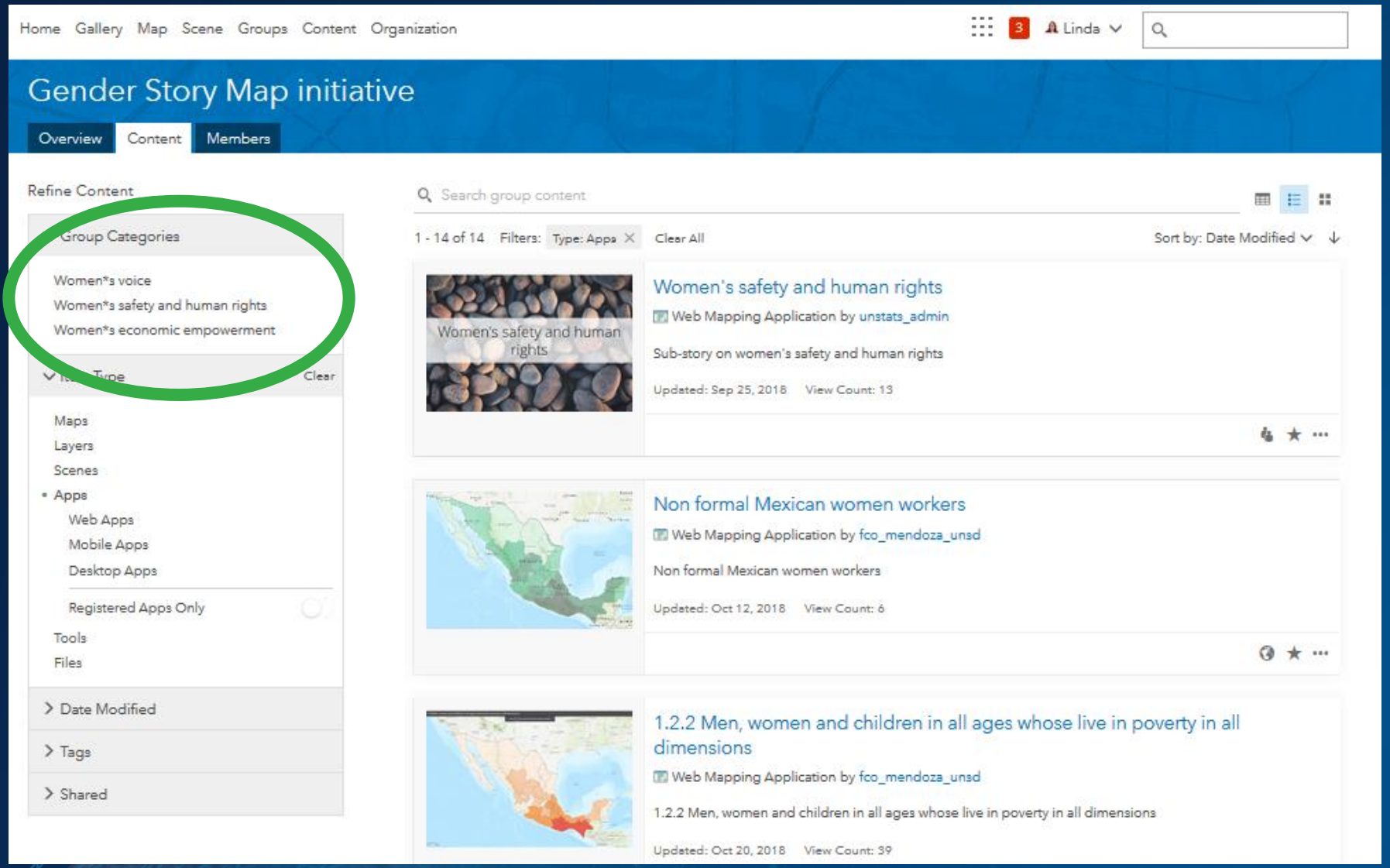


Invited those with interest to join

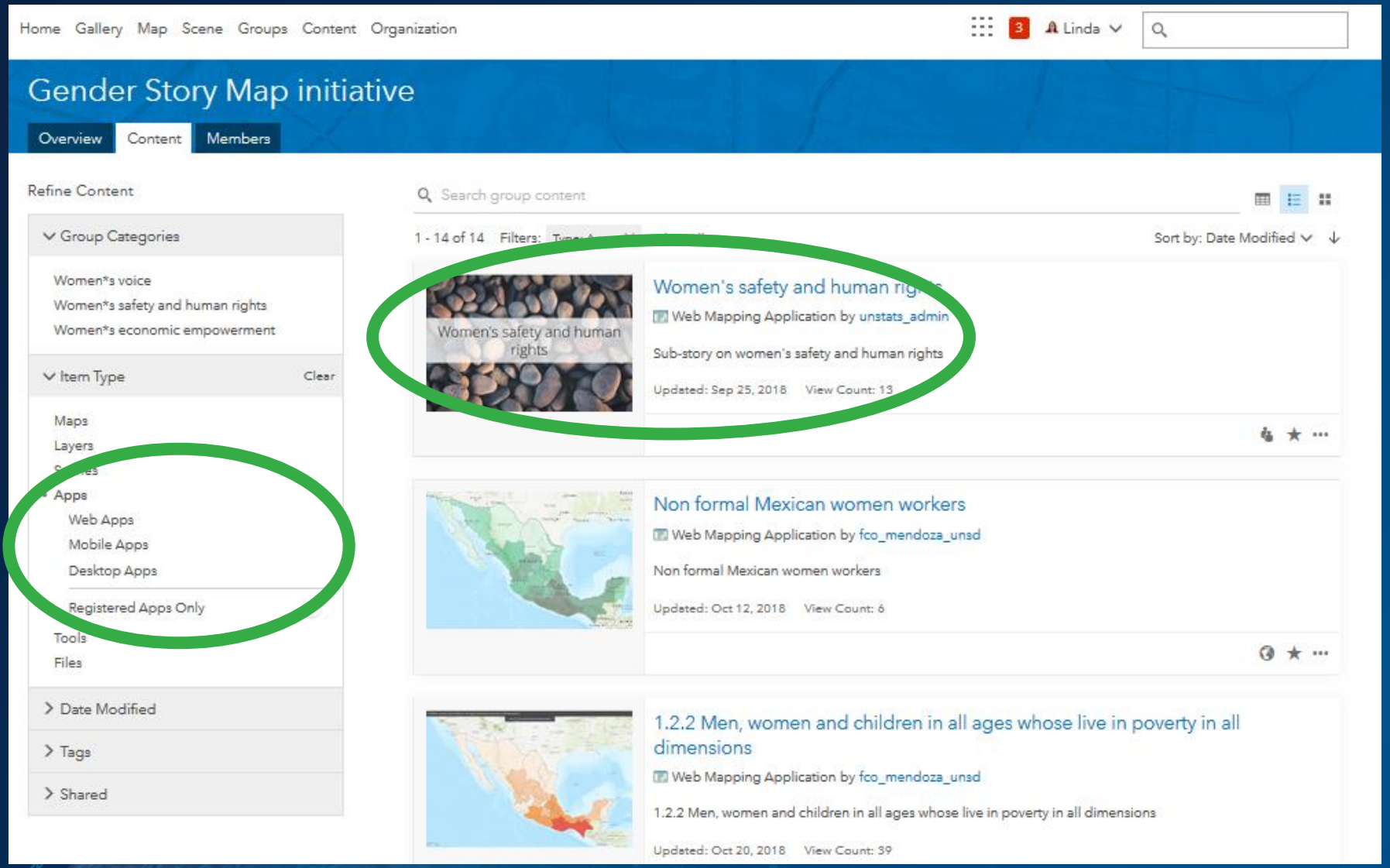
Bring together community focused on gender statistics



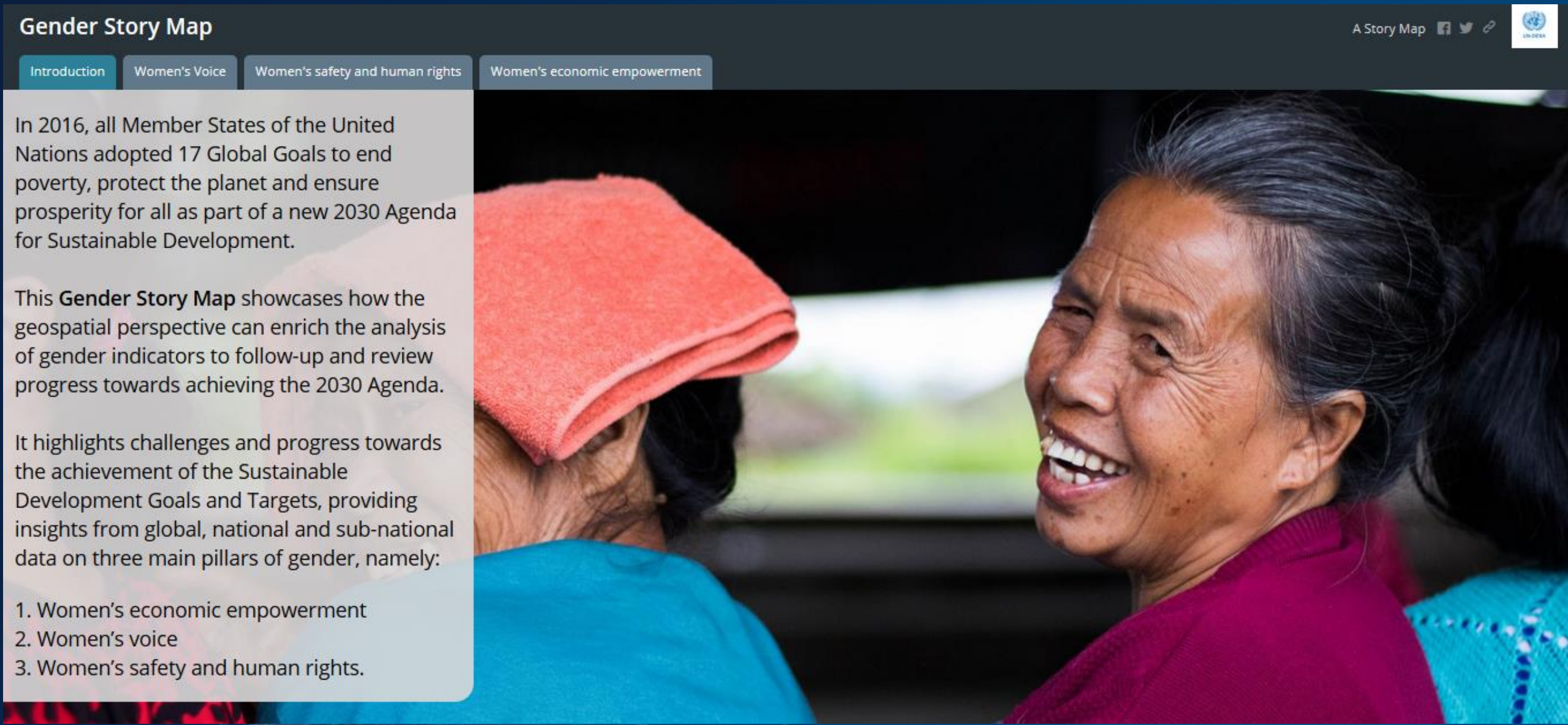
Country Led - configuring data and apps



Country Led - configuring data and apps

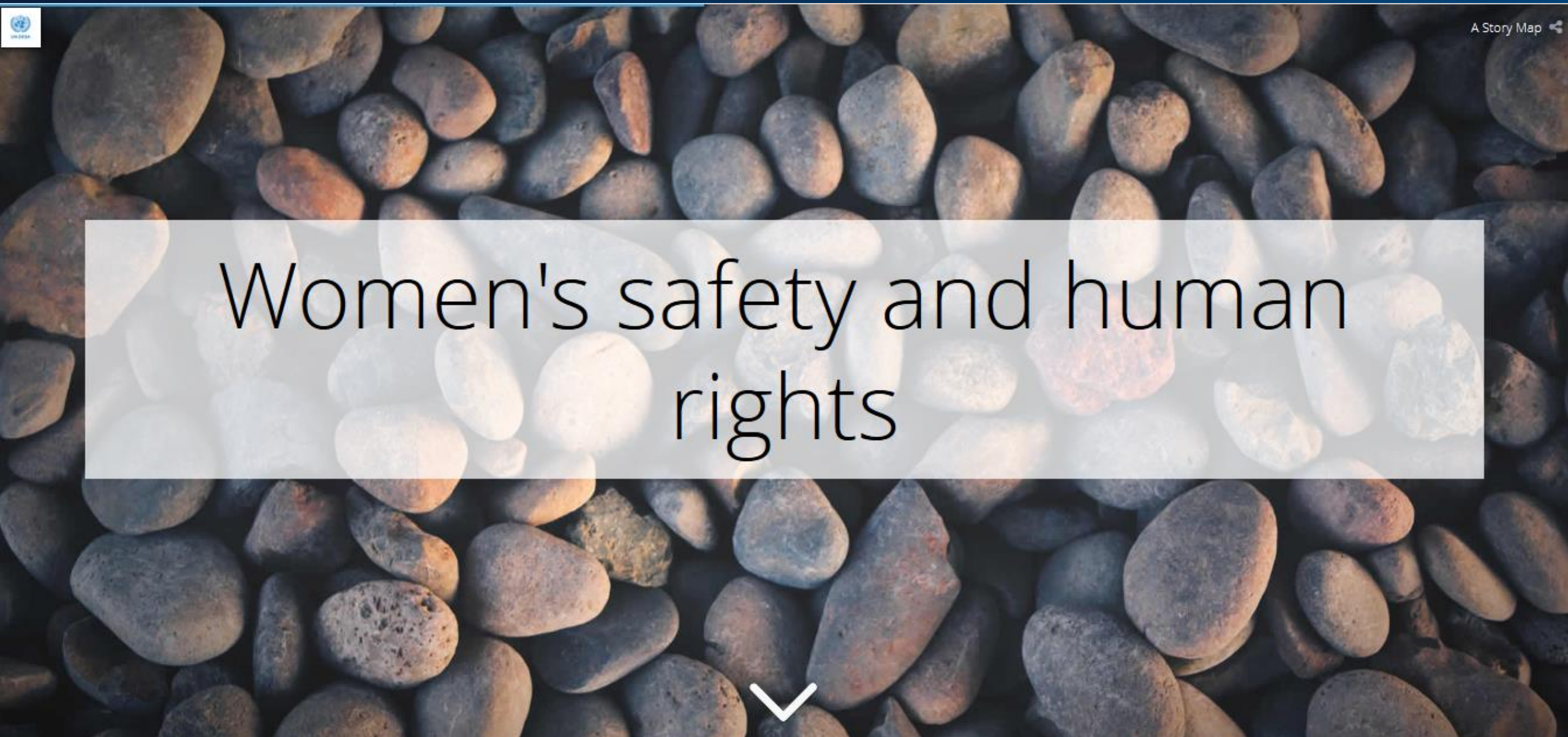


Story Map Template



Gender Story Map

Introduction | Women's Voice | Women's safety and human rights | Women's economic empowerment



Women's safety and human rights

Women's economic empowerment

Gender Story Map

Introduction | Women's Voice | Women's safety and human rights | Women's economic empowerment

Women's Voice

A Story Map

Women's participation in public discourse has intrinsic value for social change and progress

Established evidence reveals that when at least 25 percent of members of parliament are women, laws that discriminate against women are more likely to be repealed (Hallward-Driemeier, Hasan and Rusu, 2013).

Among developing countries, those with higher shares of women parliamentarians are more likely to pass comprehensive laws on sexual harassment, rape, divorce and domestic violence (Asiedu et al., 2018).

Gender Story Map

Introduction | Women's Voice | Women's safety and human rights | Women's economic empowerment

Women's Voice

A Story Map

Gender Story Map

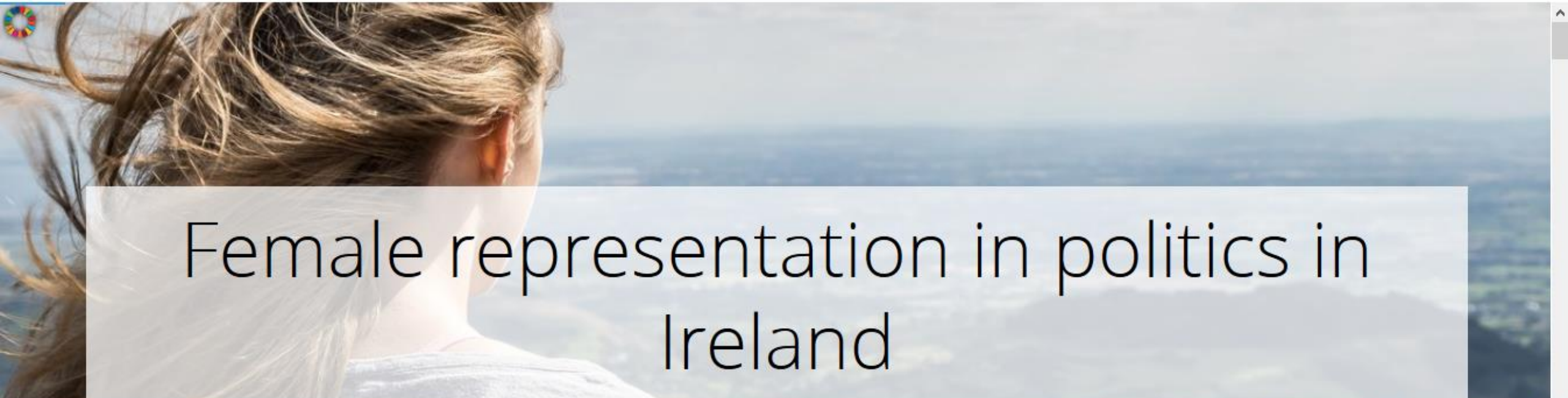
Introduction | Women's Voice | Women's safety and human rights | Women's economic empowerment

Women's Voice

A Story Map

The local perspective

The following storymap has been created by the Republic of Ireland's Central Statistics Office. To explore the narrative, please press the "explore" button on the bottom right.



Female representation in politics in Ireland

Women's Voice

Female representation in politics in Ireland

A Story Map

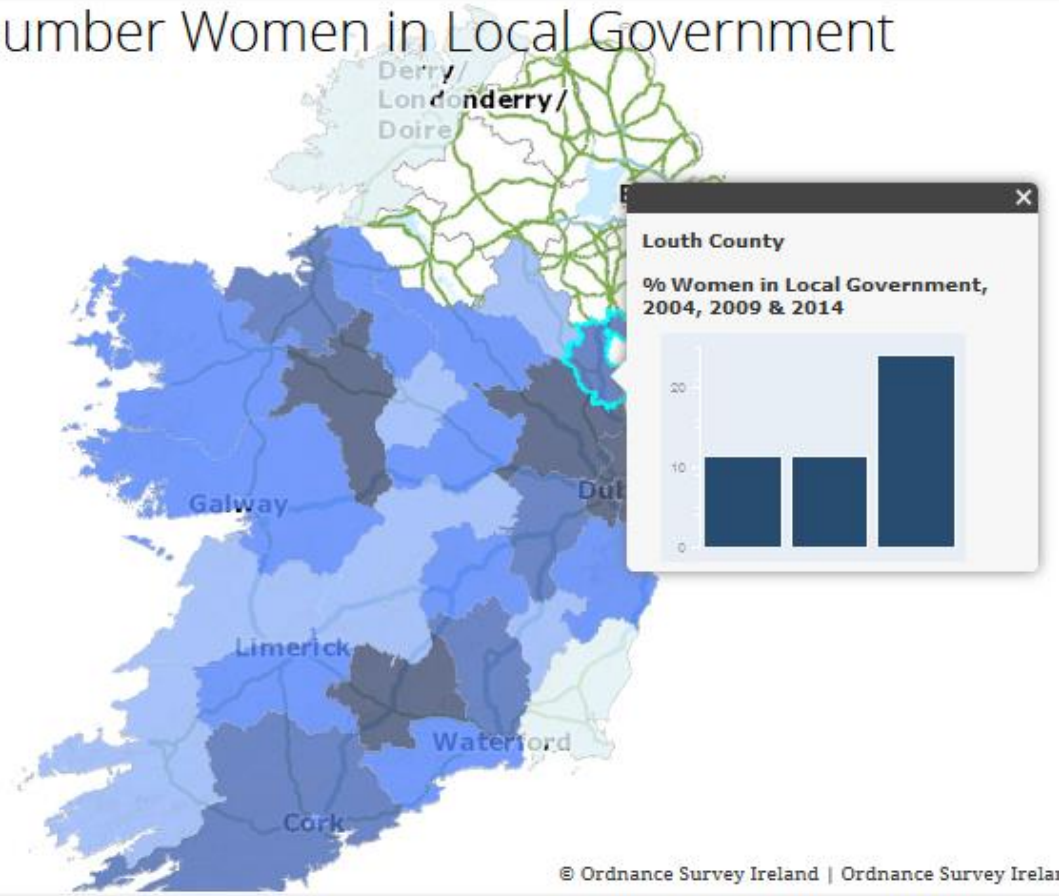
Men Significantly Out-Number Women in Local Government

This map represents the proportion of Women in Local Government at Administrative County level in 2014.

Only two local authorities had less than **10%** by 2014.

For example, South Tipperary had just **3.8%** of seats held by women in 2004 but this had risen to **27.3%** by 2014 while the proportion rose from **6.3%** to **10.7%** in Clare over the same time period. However, Donegal and Wexford, which both had more than **10%** of seats held by women in 2004, dropped to below **10%** in the 2014 elections.

- > 25
- 20 - 25



© Ordnance Survey Ireland | Ordnance Survey Ireland, Central Statistics Office

Gender Story Map

Introduction | Women's Voice | Women's safety and human rights | Women's economic empowerment

INSTITUTO NACIONAL DE ESTADÍSTICA Y GEOGRAFÍA

Breaking the poverty chains and bringing out untapped ...

Introduction

National Council for the Evaluation of Social Development (CONEVAL).

Poverty varies significantly among regions

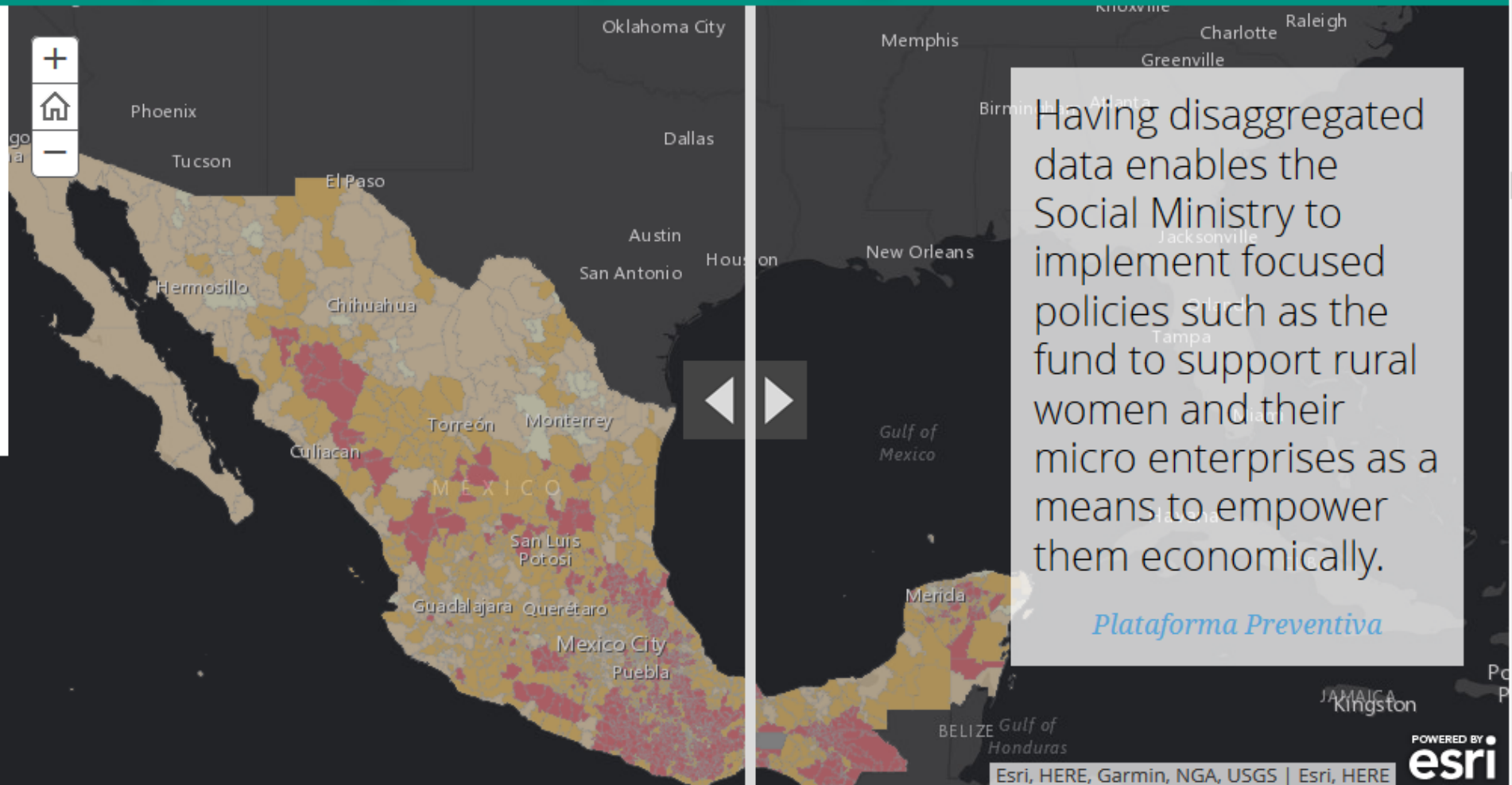
INSTITUTO NACIONAL DE ESTADÍSTICA Y GEOGRAFÍA

Porcentage of population living in poverty by municipality (%) 2010

Rate
- 76 - 100
- 51 - 75
- 26 - 50
- 3 - 25
- Not available

Porcentage of population living in poverty by municipality (%) 2015

Rate
- 76 - 100
- 51 - 75
- 26 - 50
- 3 - 25
- Not available



Having disaggregated data enables the Social Ministry to implement focused policies such as the fund to support rural women and their micro enterprises as a means to empower them economically.

Plataforma Preventiva

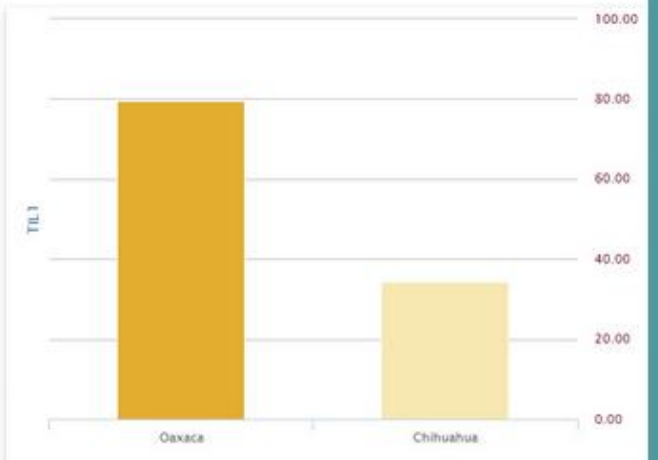
INSTITUTO NACIONAL DE ESTADÍSTICA Y GEOGRAFÍA

Breaking the poverty chains and bringing out untapped ...

Poverty and informality are geographically correlated

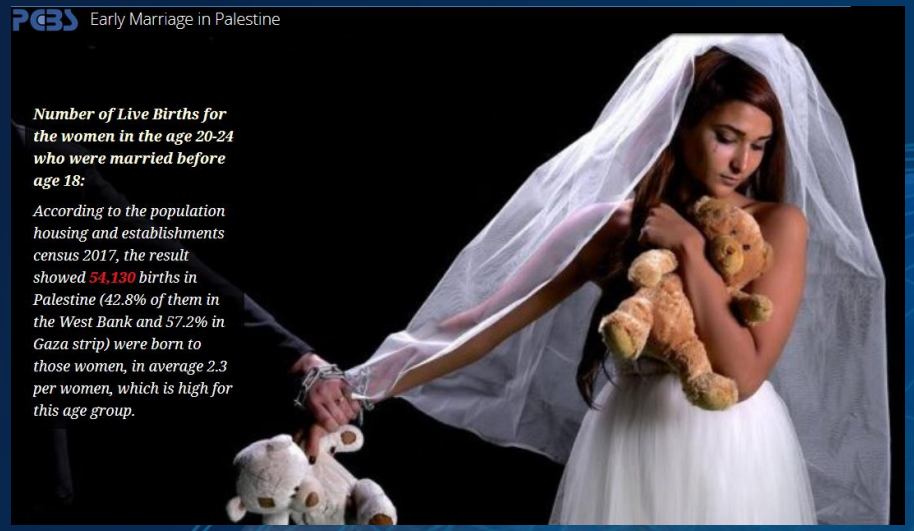
Tasa de informalidad laboral 1, población de 15 años y más, 2018 Primer trimestre

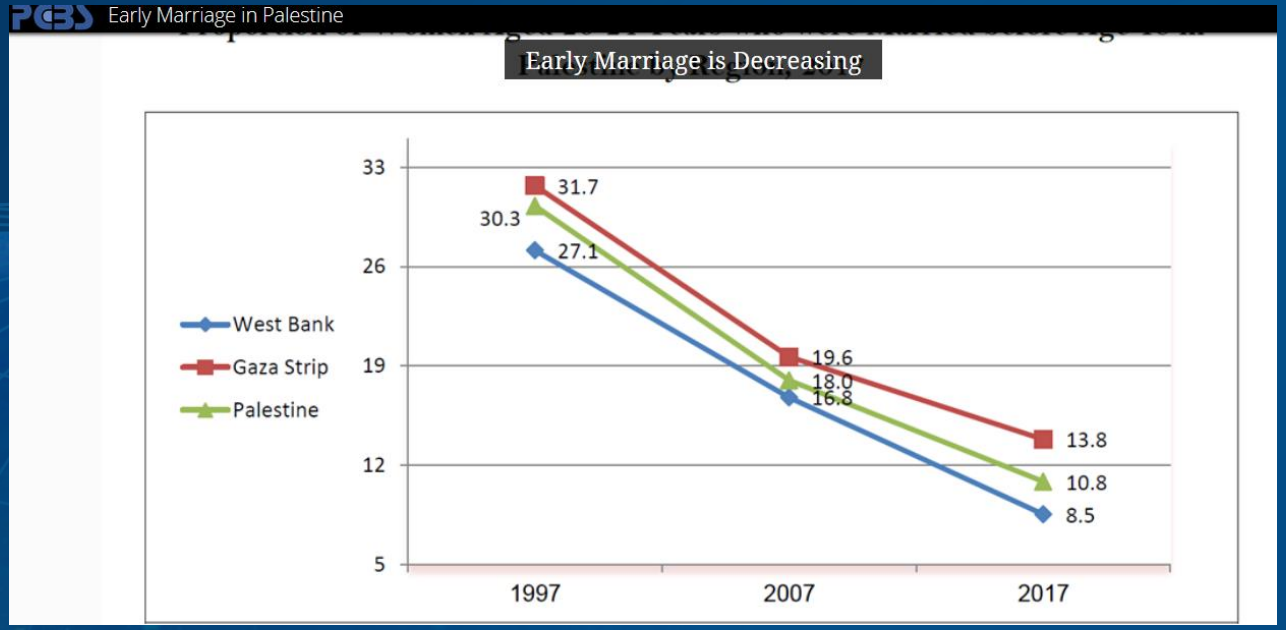
Entidad	Mujeres	Hombres	Brecha
Aguascalientes	44.03	43.40	0.63
Baja California	38.05	41.35	3.30
Baja California Sur	46.38	38.24	8.14
Campeche	62.37	61.84	0.53
Coahuila de Zaragoza	40.24	33.64	6.60
Colima	56.99	46.08	10.91
Chiapas	75.80	81.54	5.74
Chihuahua	34.35	36.15	1.80
Ciudad de México	49.12	47.14	1.98
Durango	52.70	54.49	1.79
Guanajuato	56.87	54.22	2.65
Guerrero	75.71	78.10	2.39
Hidalgo	74.93	75.31	0.37
Jalisco	51.09	49.06	2.03
México	58.39	56.49	1.90
Michoacán de Ocampo	70.79	71.22	0.43
Morelos	63.85	66.28	2.42
Nayarit	63.64	64.14	0.49
Nuevo León	39.55	32.87	6.68
Oaxaca	79.59	81.60	2.01
Puebla	73.16	71.36	1.80
Querétaro	47.25	43.18	4.07
Quintana Roo	47.17	45.90	1.27
San Luis Potosí	52.78	56.29	3.51
Sinaloa	51.50	50.55	0.95
Sonora	49.18	41.17	8.01
Tabasco	65.19	65.00	0.20
Tamaulipas	47.81	44.33	3.48
Tlaxcala	73.78	70.02	3.76
Veracruz de Ignacio de la Llave	67.44	69.80	2.36



Gender Story Map

Introduction | Women's Voice | Women's safety and human rights | Women's economic empowerment





The pieces are fitting into place…

Technology

Process

People

…Creating a Platform for Managing our Future

Geospatial Way to a Better Future

Federated Information System for the SDGs

esri
THE
SCIENCE
OF
WHERE