

# Integration of Statistical and Geospatial Data

Global Statistical Geospatial Framework (GSGF)

**Usable** 

Interoperable

**Common Geographies** 

**Geocoded Units** 

**Fundamental Geospatial Infrastructure** 

Statistical Business Process Model (GSBPM)

Planning/ Pre Enumeration

> Specify Needs Design Build

**Enumeration** 

Collect
Process
Analyze

Post Enumeration/
Dissemination

Disseminate Evaluate

**Quality / Metadata Management** 



# Geography and Statistical Data Are Foundational

**Enumeration** 

**Areas** 

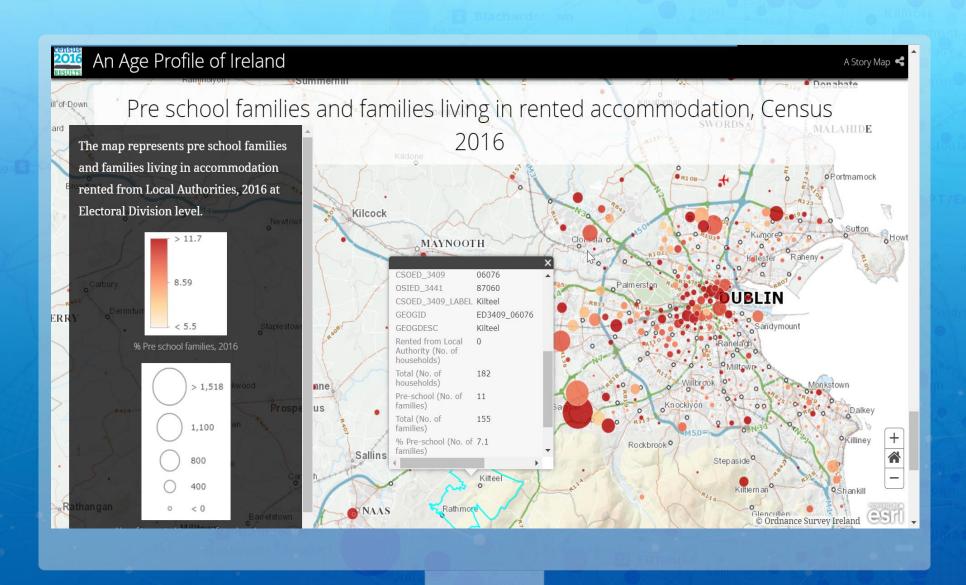
An Integrated Data Model is Essential

Localities



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

# GIS is Enabling Understanding of the SDGs







### Web GIS Simplifies Working With All Types of Data

Using Web Maps, Scenes, and Layers



#### **ArcGIS includes a Living Atlas of the World**

Maps and Layers from Esri and Thousands of Contributors



Weather<sub>Historical</sub>. Landscape 🗄 Urban Systems Boundaries \_\_\_\_\_\_ Land Cover O Hazards Observations Demographics

### **Global Ecological Land Units**

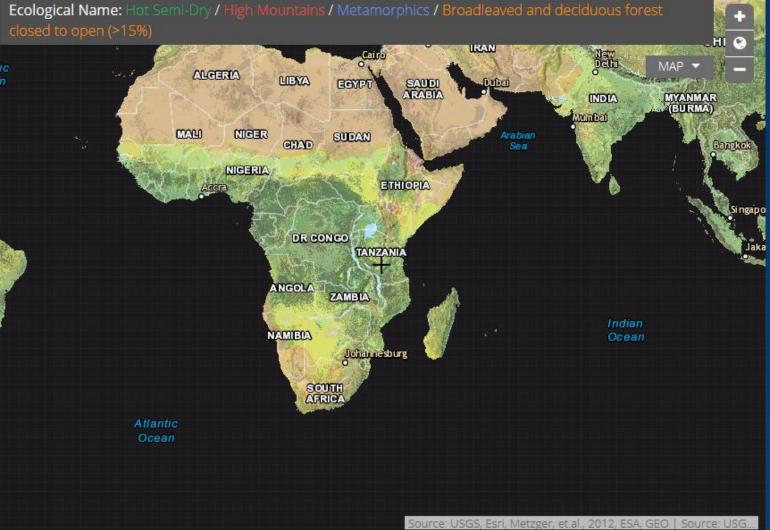
#### Explore the Ecological Tapestry of the World





Search





# **Global Ecological Marine Units**

















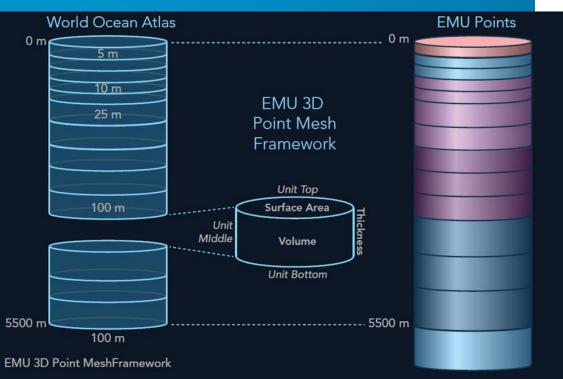












#### Feature Attributes

Depth Level
Temperature
Salinity
Dissolved Oxygen
Nitrate
Silicate
Phosphate

#### MODIS ocean color

PointID
QuarterID
UnitTop (m)
UnitMiddle (m)
UnitBottom (m)
Thickness (m)
ThicknessPos (m)
EMUID
EMU Name
GeomorphologyBase
GeomorphologyFeatures
SurfaceArea
Volume, SpecialCases



### Landsat Explorer



# Web GIS Enables New Types of Collaboration

Connecting Individuals, Organizations and Communities



# Web GIS Enables Community Engagement

Organizing and Managing Community Interactions





# **Connecting Everyone**

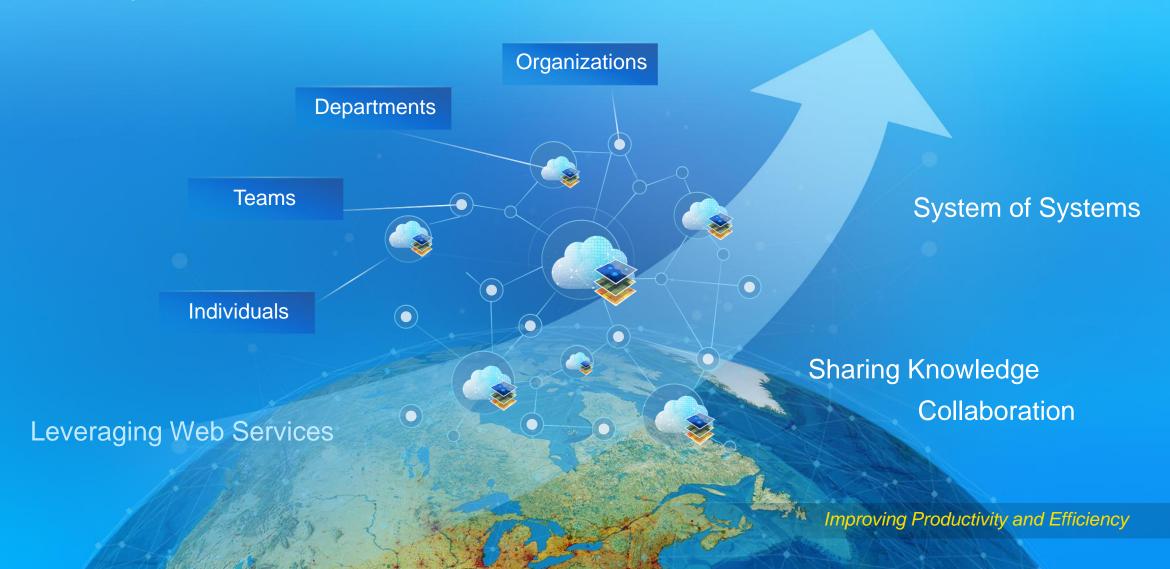
Using Web Maps and Apps to Share and Collaborate

Supporting Communication and Real-Time Awareness



### Web GIS Enables Whole New Scale of GIS

Helping Everyone do Their Work Better



### Promote A Culture of Sharing and Collaboration

Enable People to Work Together by Securely Sharing Data, Apps, and Knowledge



Data Producer



Developer



Manager



Analyst



Data User









ACCESS FUNCTIONALITY





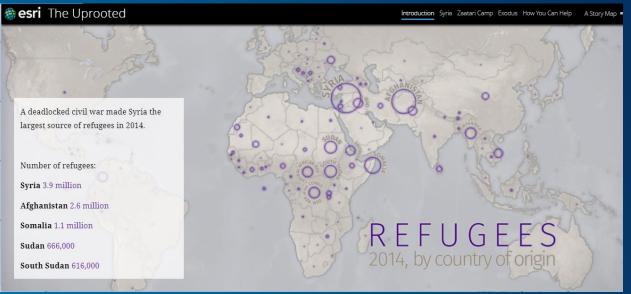


ACCESS FUNCTIONALITY

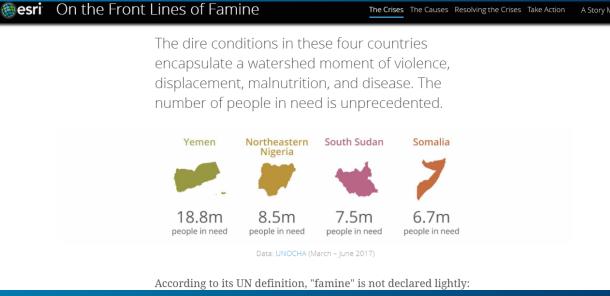












The Crises The Causes Resolving the Crises Take Action

DA 6

#### 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.



The Changing Patterns of Unemployment and Poverty in Ireland, 2011-2017

#### National Unemployment Rate?

The data displayed represent SDG 8.5.2 Unemployment Rate for Ireland and supports the efforts to achieve goal number 8 which aims to promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

According to the latest figures Ireland's unemployment rate stands at 6.2%. The figures are produced by the Central Statistics Office as part of the Quarterly National Household Survey (QNHS). The QNHS is the official source of employment and unemployment

The International Labour Organisation (ILO) Unemployment Rate (source QNHS) is used for national reporting and is available at NUTS 3 (Regional) level. The map displays the ILO Unemployment Rate at NUTS 3 level across Ireland, 2017 Q2.

+ 🖟



The Changing Patterns of Unemployment and Poverty in Ireland, 2011-2017

#### A focus on cities

The map displays unemployment rate and total unemployed population from the Census 2016 at ED level. A closer look at Dublin illustrates varying unemployment rates within the area.

Data at this level provide a detailed representation of unemployment trends. This visualisation highlights the divide (North East, South West divide) in high and low levels of unemployment.



% Unemployment - Total



