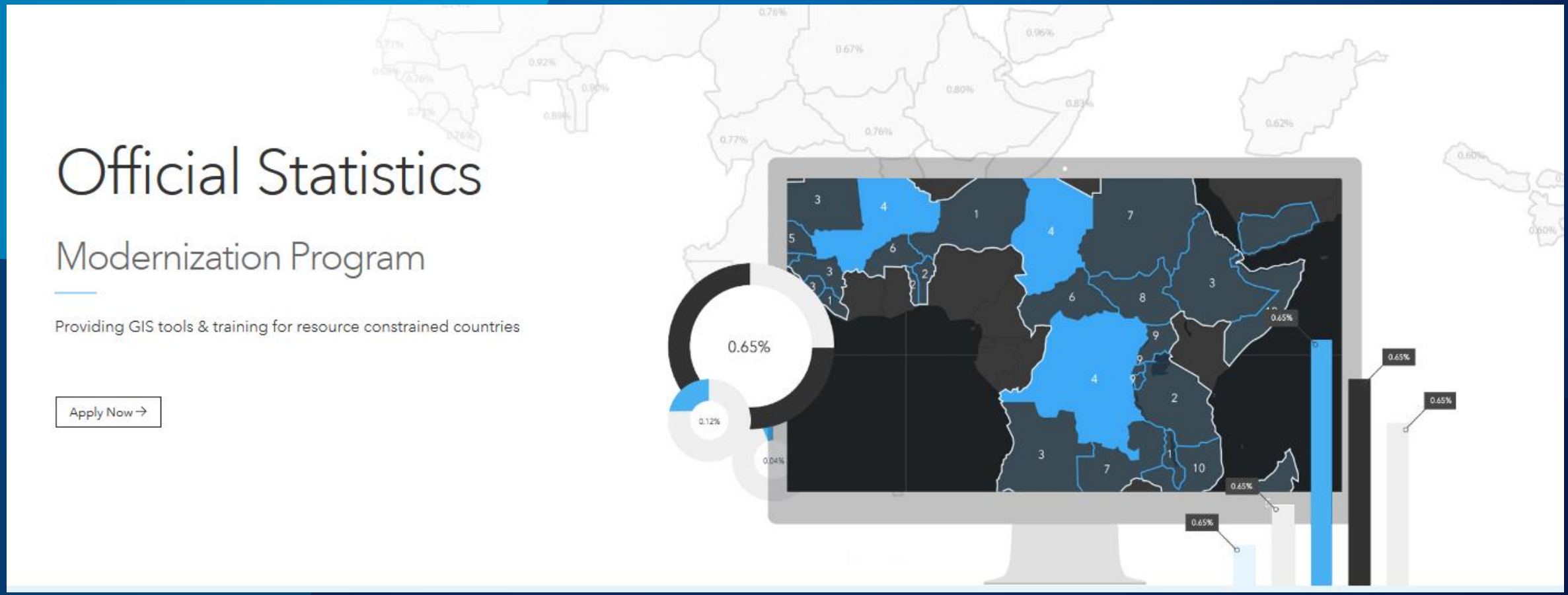
Esri Modernization Program for Official Statistics

lpeters@esri.com

esri THE SCIENCE OF WHERE™

UNFPA



Esri Modernization Program for Official Statistics

A program to provide the Esri Platform to countries in need

- **Who**
  - Countries include Least Developed Countries (LDCs) and Small Island Developing States (SIDS) plus others as agreed by Esri and UNFPA
- **What**
  - ArcGIS Enterprise including desktop, server and online as well as access to learn lessons
- **When**
  - Now! 2020 round and extended to 2030 round per MOU with UNFPA
- **How**
  - Application required
  - MLA required
  - Donation of perpetual license - FREE in support of PHC
  - Small admin fee, paid up front for duration ($10k per year e.g., 4 years =$40k)

Countries include Least Developed Countries (LDCs) and Small Island Developing States (SIDS) plus others as agreed by Esri and UNFPA

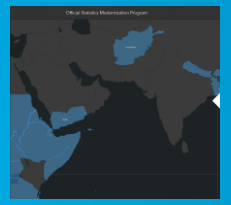
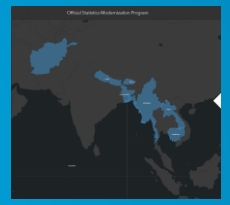
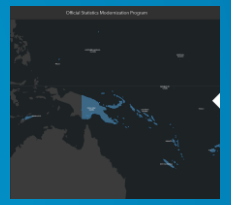
Country/NSO
Afghanistan
Angola
Anguilla
Antigua and Barbuda
Aruba
Bahamas, The
Bangladesh
Barbados
Belize
Benin
Bermuda
Bhutan
Bolivia
Bonaire
Bosnia Herzegovina
British Virgin Islands
Burkina Faso
Burundi
Cambodia
Cameroon
Cayman

Central African Republic
Chad
Comoros
Congo, Democratic . Rep of the
Congo, Rep
Cook Island
Cote D Ivoire
Curacao
Djibouti-
Dominica
Dominican Republic
Equatorial Guinea
Eritrea
Ethiopia
Fiji
French Polynesia
Gambia, The
Ghana
Grenada
Guinea
Guinea-Bissau

Guyana
Haiti
Honduras
Iraq
Kiribati
Kosovo
Laos
Lesotho
Liberia
Madagascar
Malawi
Maldives
Mali
Marshall Islands
Mauritania
Mauritius
Montserrat (Lesser Antilles)
Mozambique
Myanmar
Namibia
Nepal
New Caledonia

Nicaragua
Niger
Niue
Northern Mariana Islands
Palau
Papua New Guinea
Republic of Nauru
Rwanda
Saint Martin
Samoa
Sao Tome and Principe
Senegal
Seychelles
Sierra Leone
Sint Maarten
Solomon Islands
Somalia
South Sudan
Sri Lanka
St. Kitts and Nevis

St. Lucia
St. Vincent and the Grenadines
Sudan
Suriname
Swaziland - Eswatini
Tajikistan
Tanzania
Timor Leste
Togo
Tonga
Trinidad and Tobago
Turks and Caicos
Tuvalu
Uganda
Vanuatu
Yemen
Zambia
Zimbabwe

ArcGIS

A Comprehensive Geospatial Platform

Open

Services Based

Extendable

Distributed

SaaS & Software

Supporting Individuals, Teams and Organizations

Esri Modernization Program for Official Statistics

Pre-enumeration:

- Geodatabase
- Base map updates
- Map of enumeration areas
- Optimize, edit and validate enumeration Areas
- Optimize assignments
- Census data model and web apps
- Survey design and test

Enumeration:

- Workforce management
- Conduct survey
- Monitor collection
- Manage operations

Post-Enumeration:

- Data dissemination
- Thematic maps
- Online Atlas
- Story maps of survey results
- Map of response rates
- Other map information products
- SDG alignment and reporting

Esri Modernization Program for Statistics

Perpetual use licenses
yours to keep

+ Access to
ArcGIS online,
Geonet, maintenance,
and learn lessons
for the full duration

Program Bundle
up to 50 desktops
Up to 24 cores Enterprise GIS
Viewers = 50
Creators = 200

Desktop software include ArcMap or Pro

Software	License Quantities Permitted
ArcGIS Desktop Software (Single Use)	
Advanced or Pro (please indicate which)	50
ArcGIS Desktop Extensions (Single Use)	
ArcGIS 3D Analyst	50
ArcGIS Data Reviewer	50
ArcGIS Geostatistical Analyst	50
ArcGIS Network Analyst	50
ArcGIS Publisher	50
ArcGIS Schematics	50
ArcGIS Spatial Analyst	50
ArcGIS Tracking Analyst	50
ArcGIS Workflow Manager	50
Esri Production Mapping	50
ArcGIS Image Analyst for use with Pro	50

ArcMap or
ArcGIS Pro

Server software includes 24 cores of ArcGIS Enterprise with Staging and extensions

ArcGIS Enterprise	
ArcGIS Enterprise Advanced – up to 4 cores	1
ArcGIS GIS Server	
ArcGIS GIS Server - additional cores	20
ArcGIS GIS Staging Server – up to 4 cores	1
ArcGIS GIS Staging Server – additional cores	20
ArcGIS GIS Server Extensions	
ArcGIS 3D Analyst	Included
ArcGIS Geostatistical Analyst	Included
ArcGIS Network Analyst	Included
ArcGIS Schematics	Included
ArcGIS Spatial Analyst	Included
ArcGIS GIS Staging Server Extensions	
ArcGIS 3D Analyst	Included
ArcGIS Geostatistical Analyst	Included
ArcGIS Network Analyst	Included
ArcGIS Schematics	Included
ArcGIS Spatial Analyst	Included

Also includes some optional servers
6 cores each of Image Server and GeoEvent + Staging licenses

ArcGIS Optional Servers	
ArcGIS Image Server – up to 4 cores	1
ArcGIS Image Server – additional cores	2
ArcGIS Image Staging Server – up to 4 cores	1
ArcGIS Image Staging Server – additional cores	2
ArcGIS GeoEvent Server – up to 4 cores	1
ArcGIS GeoEvent Server – additional cores	2
ArcGIS GeoEvent Staging Server – up to 4 cores	1
ArcGIS GeoEvent Staging Server – additional cores	2

Additional licenses included:

Named Users and ArcGIS Apps	
*ArcGIS Online Viewer	50
*ArcGIS Online Creator	200
ArcGIS Enterprise Creator	200
Insights for ArcGIS Enterprise	3
Other	
User Conference passes	3

Creator level includes use of Field Apps

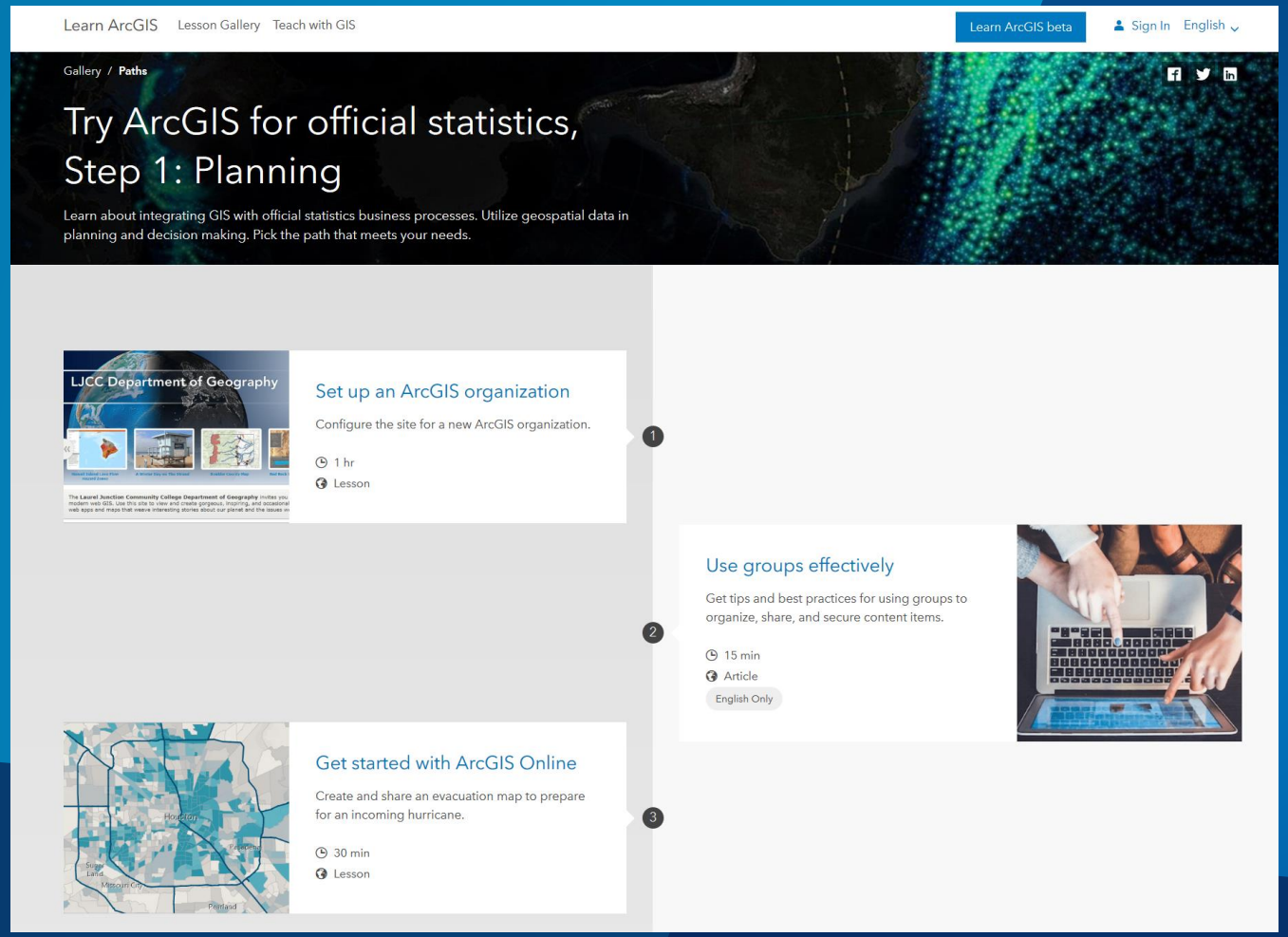
Field Apps
Field Maps
Workforce for ArcGIS
Survey123 for ArcGIS
ArcGIS QuickCapture

Why Field Apps?

- To digitally enable mobile workflows with location intelligence
- Field work can be completed faster, more efficiently
- To improve accuracy

How supported by Esri

- Standard Maintenance included for period
  - Includes latest software updates and security
- Perpetual use licenses + subscription
  - Rich Cloud Services available including Living Atlas with over 1 TB of curated data
- GeoNet forums
- Access to e-learning and Learn lessons
- Esri Statistics Home page with resources and case studies
- Statistics Story map with resources, data model and more
- GIS and 2020 Census Book
- Webinar series



Learn Lessons
– Free and Open
– Online
…and in multiple languages

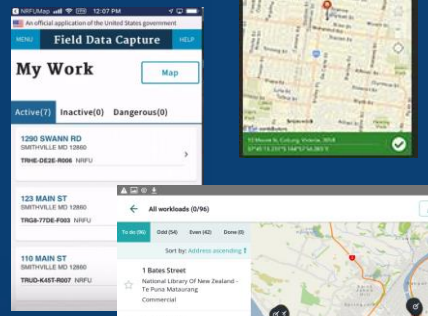
Learn ArcGIS

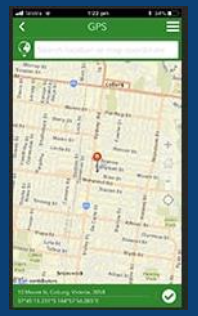
Guided lessons based on real-world problems

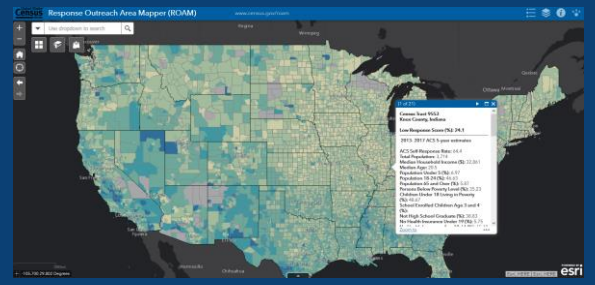
Use of GIS in Census Operations

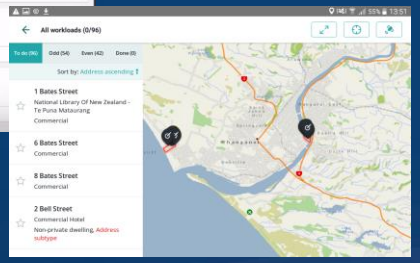
Begins in planning and extends throughout GSBPM cycle

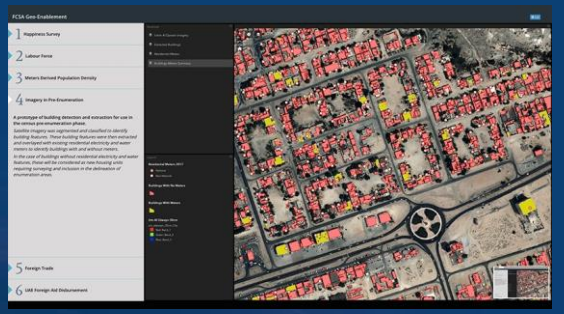
- Creation of GeoDatabase
- In office address canvassing
- Creating efficient enumeration areas (EAs)
- Response outreach
- Optimizing site placement of field offices
- Optimizing capital and asset distribution
- Optimizing workforce and routes
- Integration of administrative and big data
- Operational dashboards
- Mobile map packages

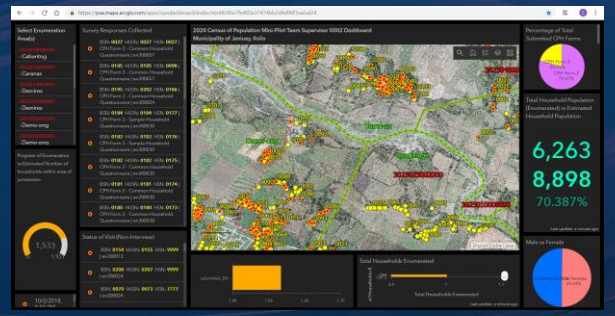






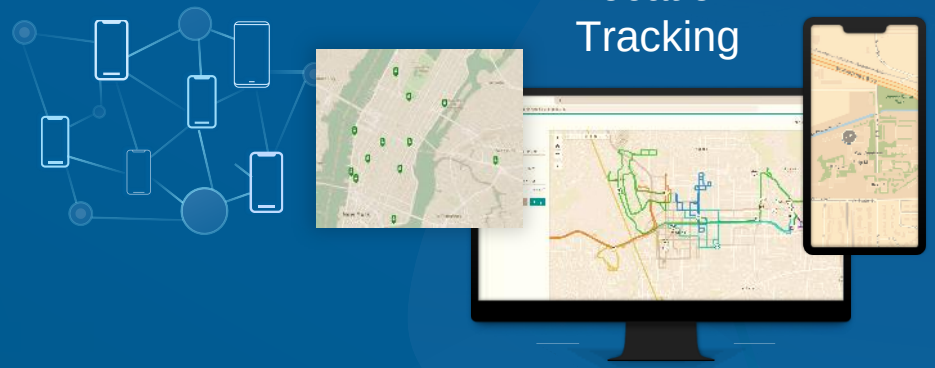






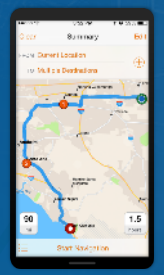
GIS in Field Operations

- Tracking
- Offline Workflows
- Preplanned Routes

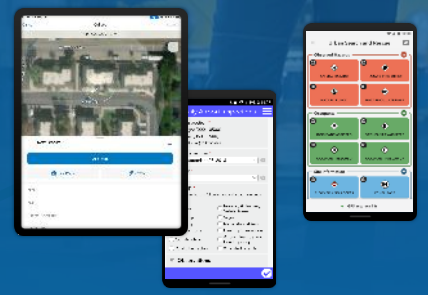


Location Tracking

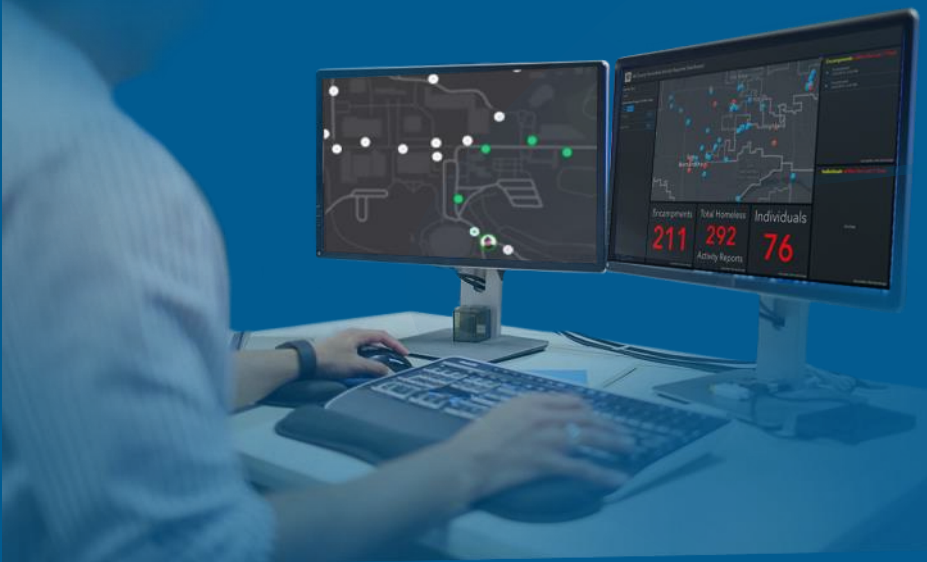
Navigation



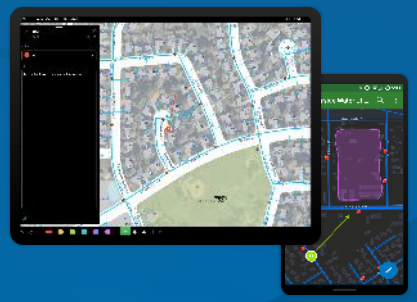
Data Capture



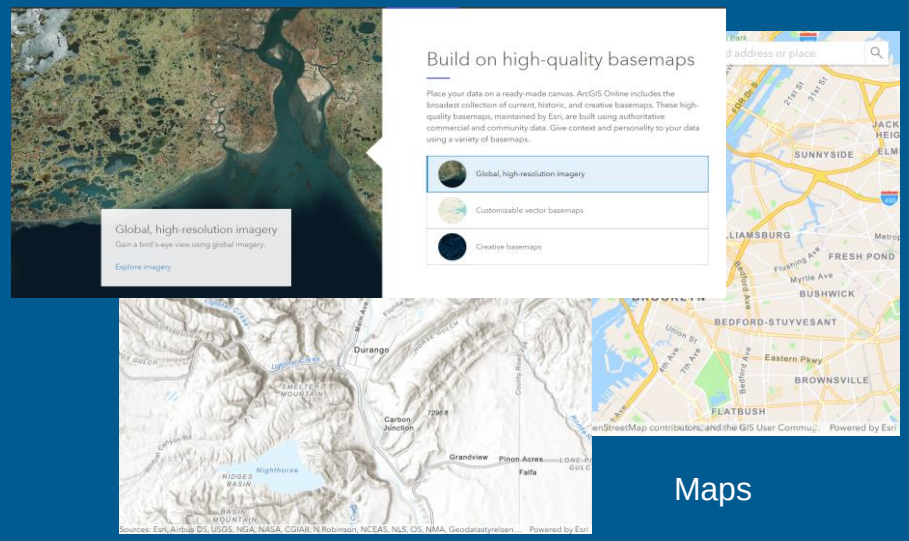
Planning and Management



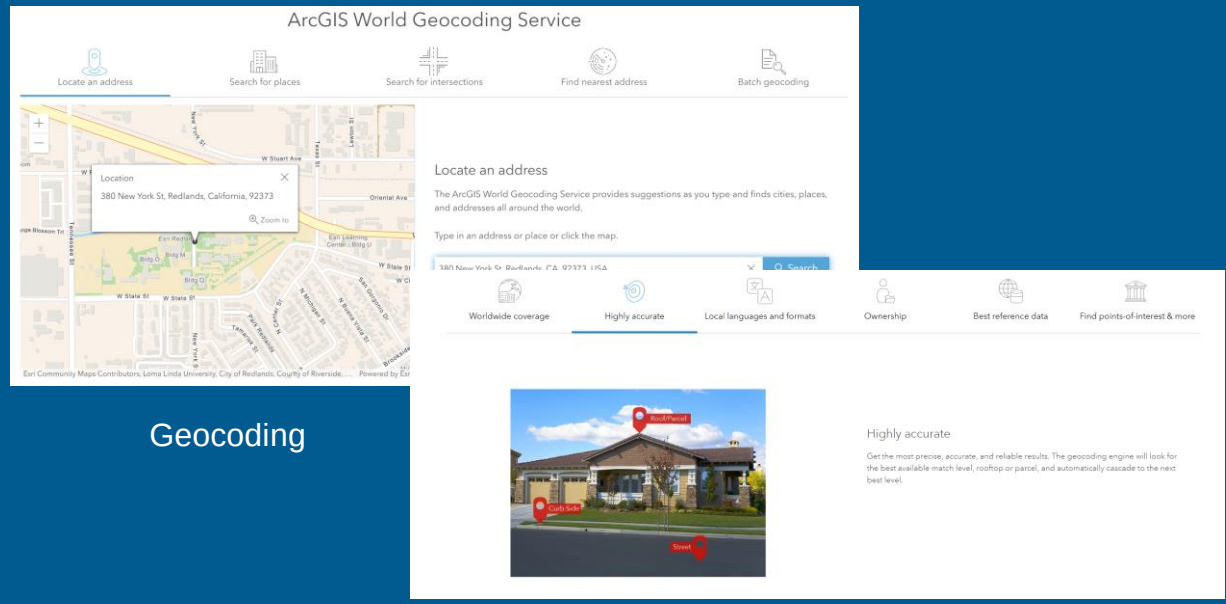
Maps & Mark Up



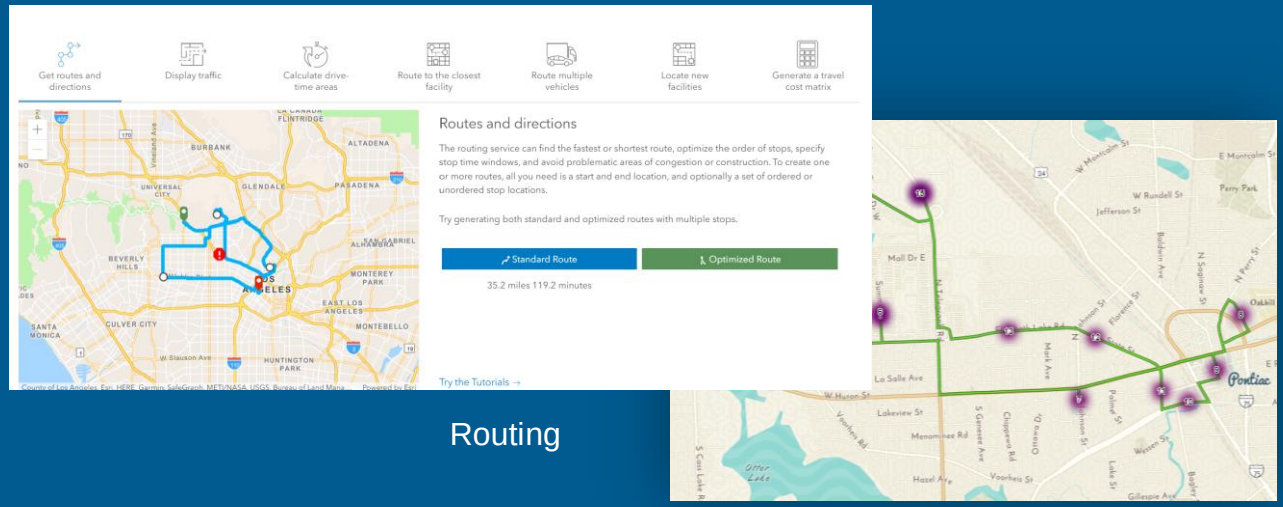
Location Services | Provide Spatial Context and Geo-enable your Information



Maps



Geocoding



Routing

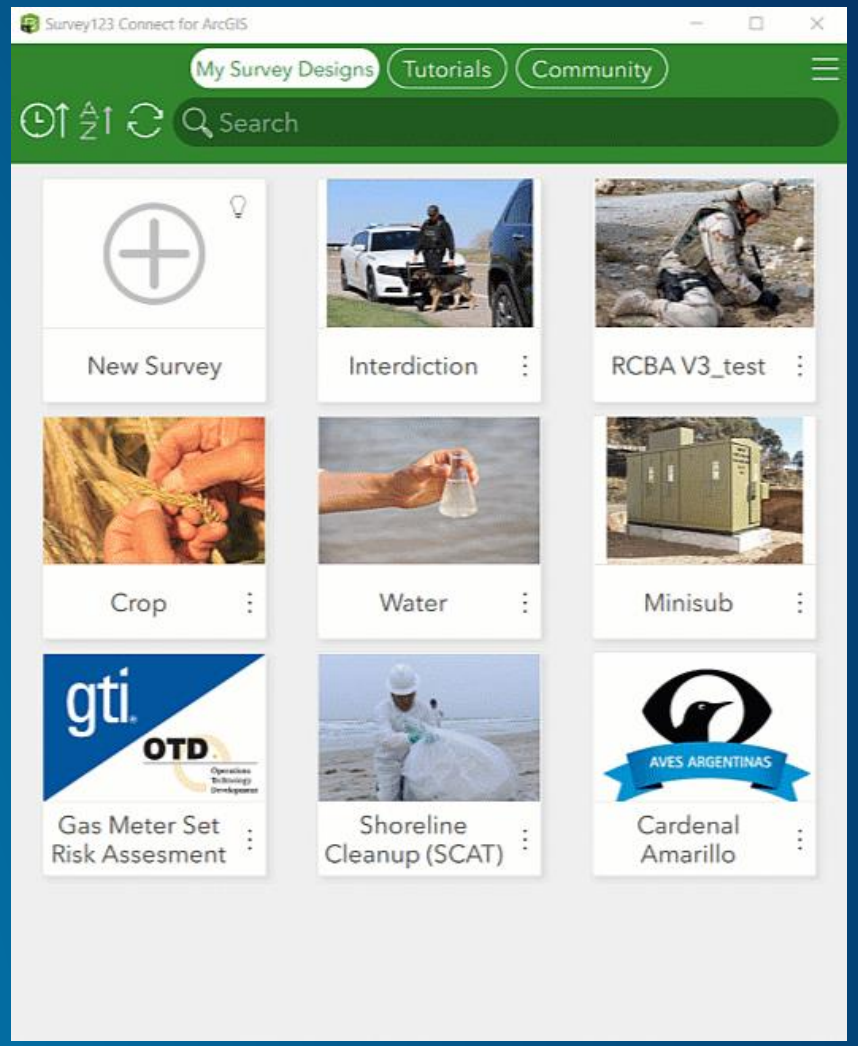
Survey123 for ArcGIS

Form Centric Data Collection

Simple data collection experience

Sophisticated smart form capabilities

Web & Native



Download on the App Store

GET IT ON Google Play

Get it from Microsoft

Available on amazon appstore

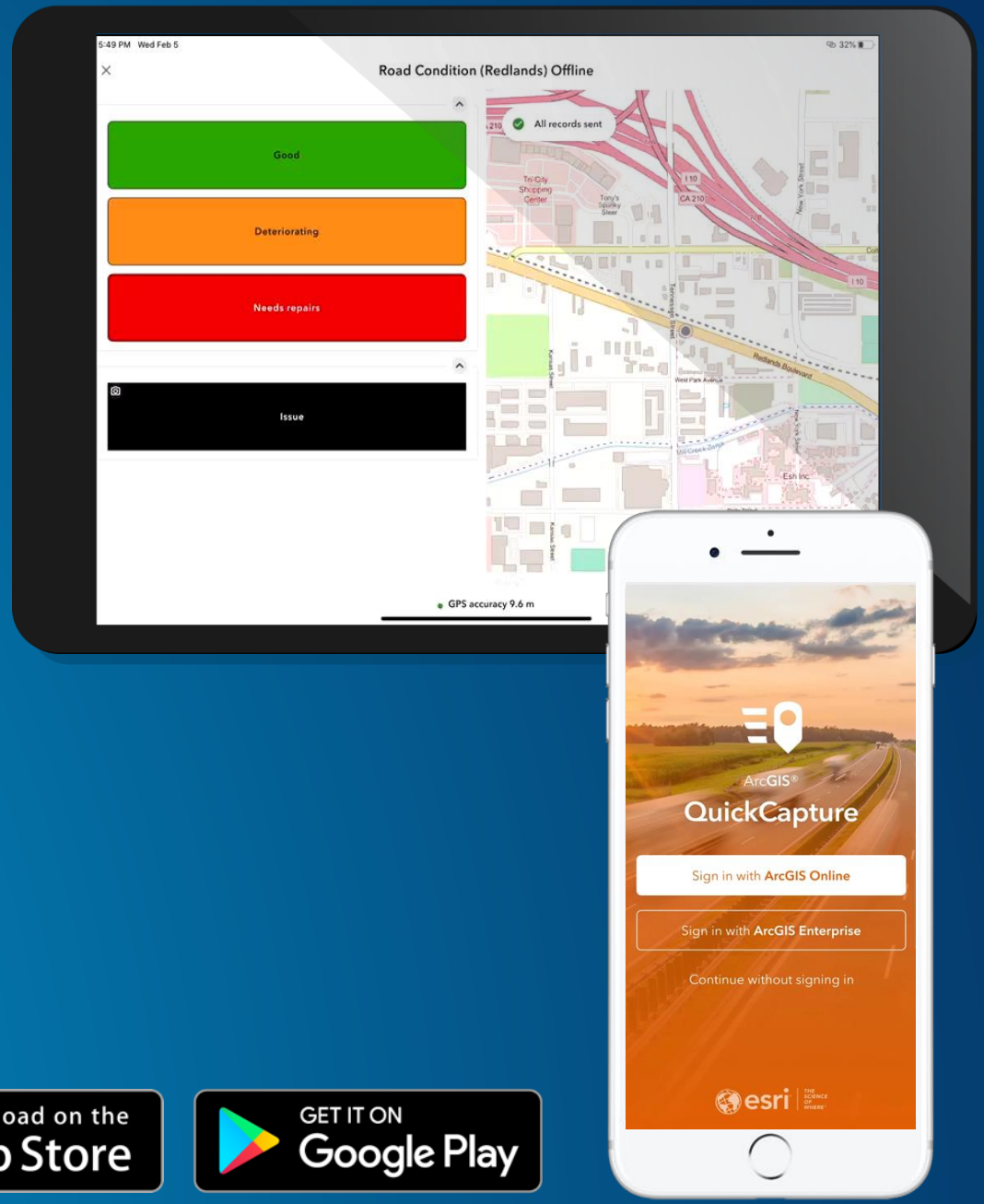
ArcGIS QuickCapture

Rapid data collection

A “big button” mobile app

Simplest way to capture field observations

At-speed data collection workflows



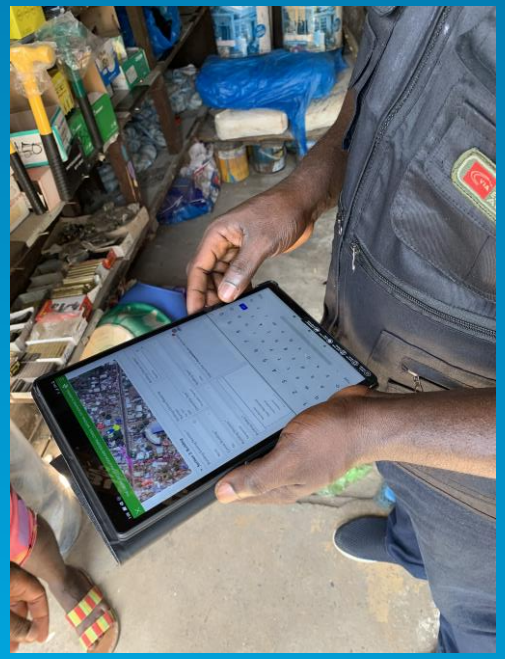
Windows

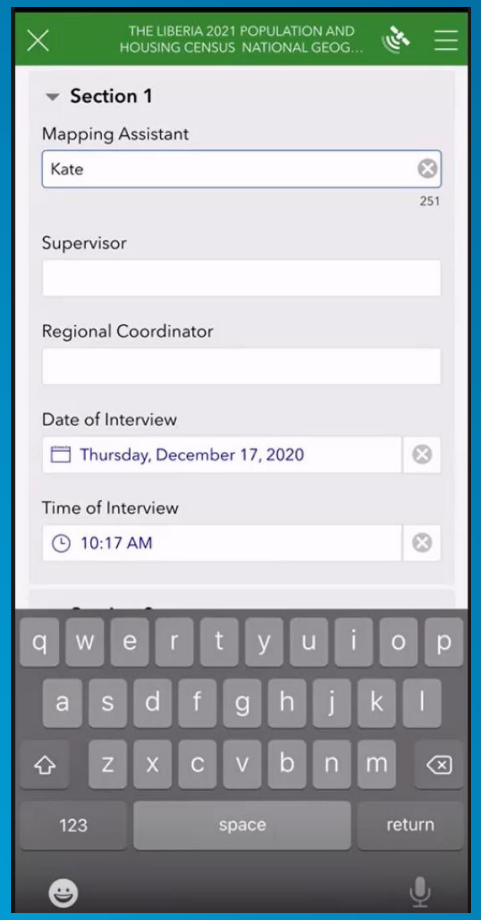
Download on the App Store

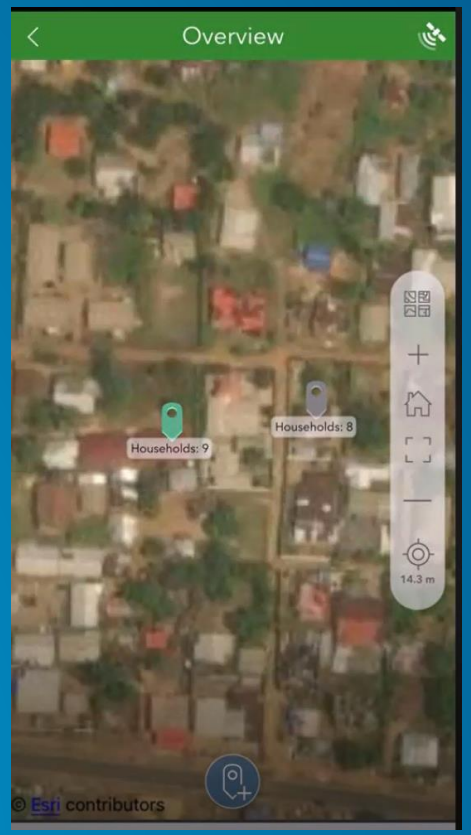
GET IT ON Google Play

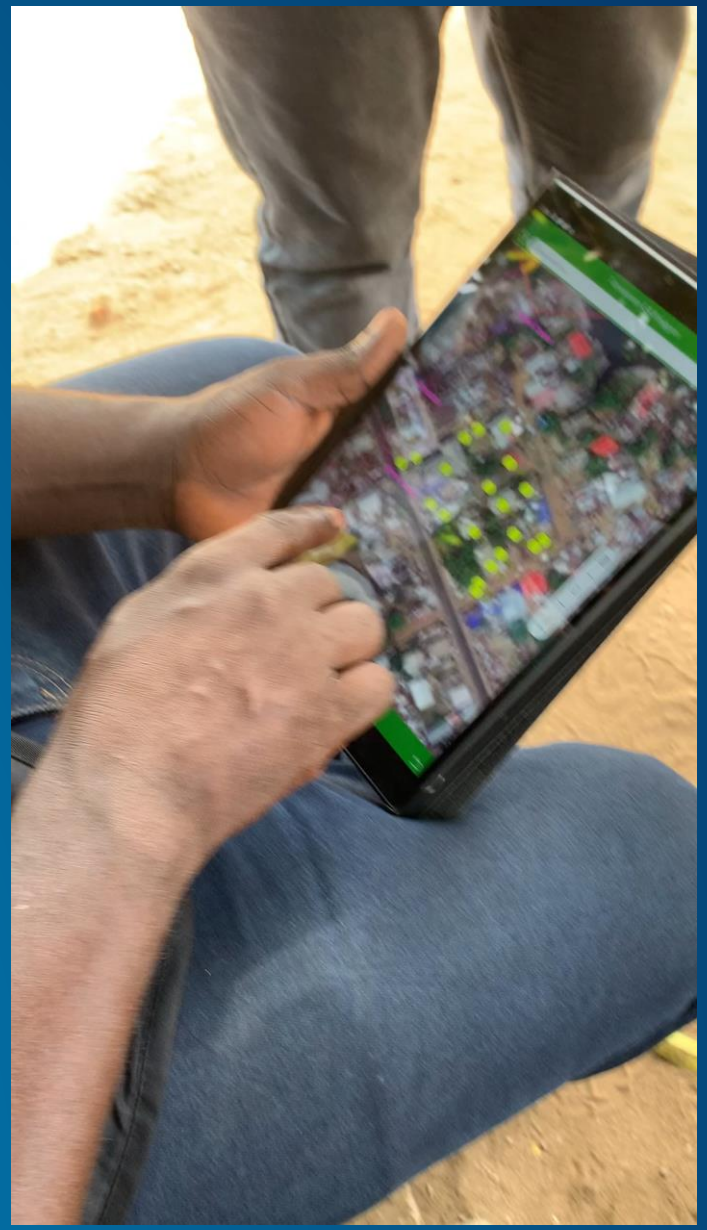
Over 30 countries already adopted the program

Example: Liberia







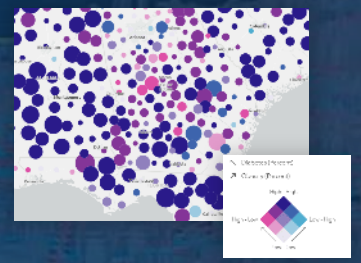


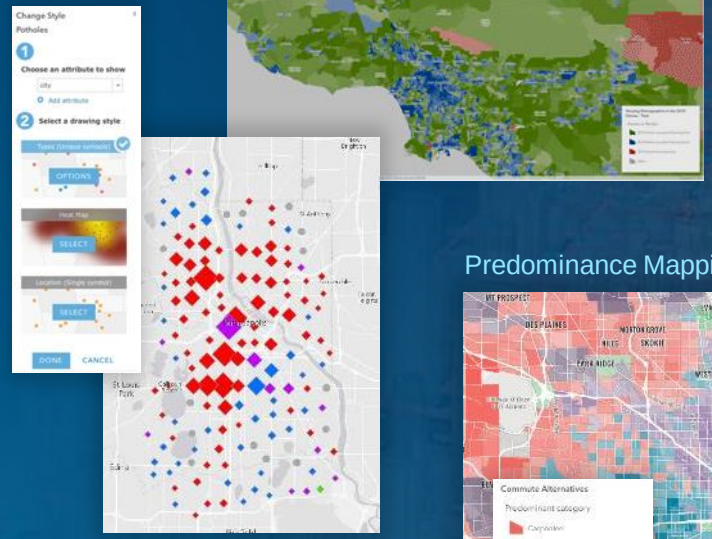
GIS and Dissemination

Dynamic and Data-driven Smart Maps

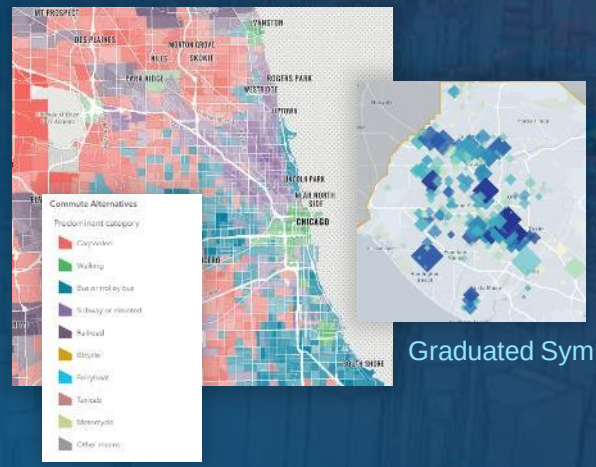
- Geographic aggregation of data
- Information products including maps, reports, atlases, and interactive websites
- Marketing of geographic census products
- Outreach and education
- SDGs – measure, monitor and report

Multivariate

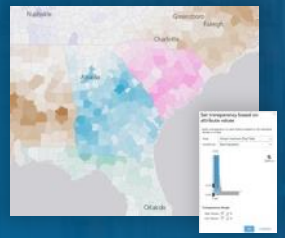




Predominance Mapping



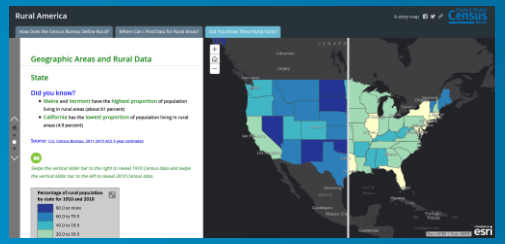
Dynamic Clustering



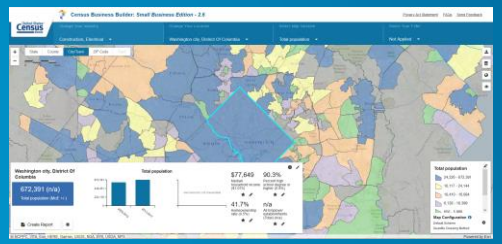
Graduated Symbols

Statistical Yearbook

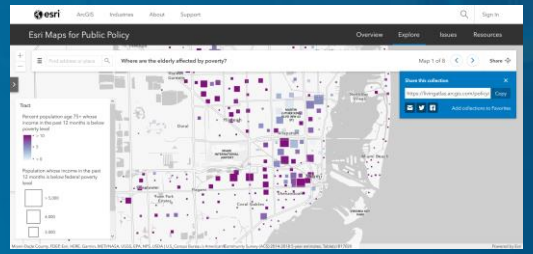
Applications



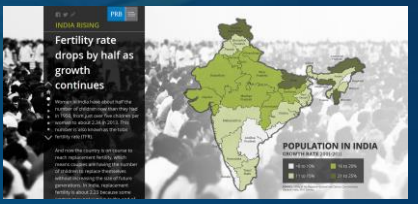
SDG Reporting



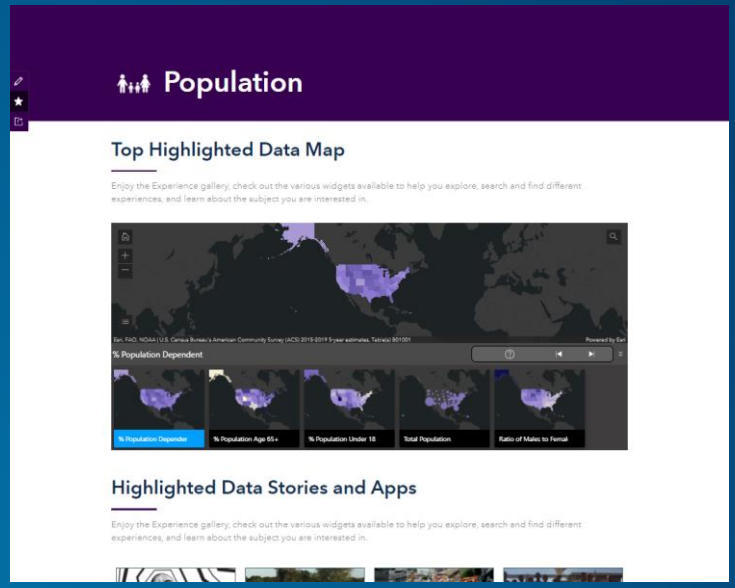
Maps for Policy Makers

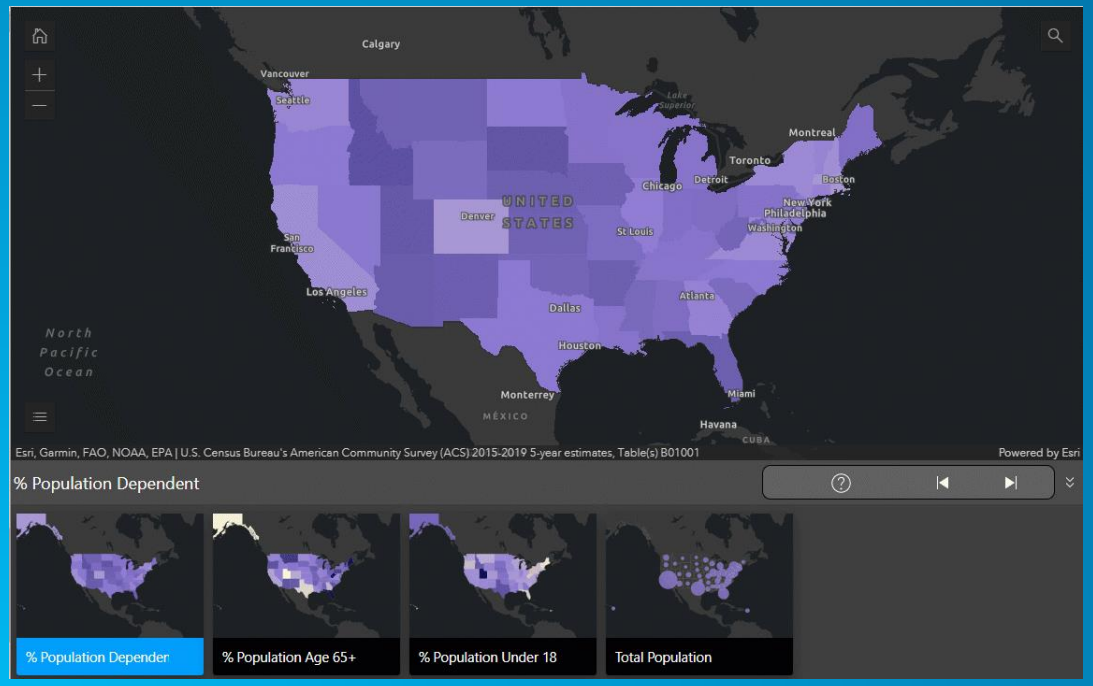


Story Maps



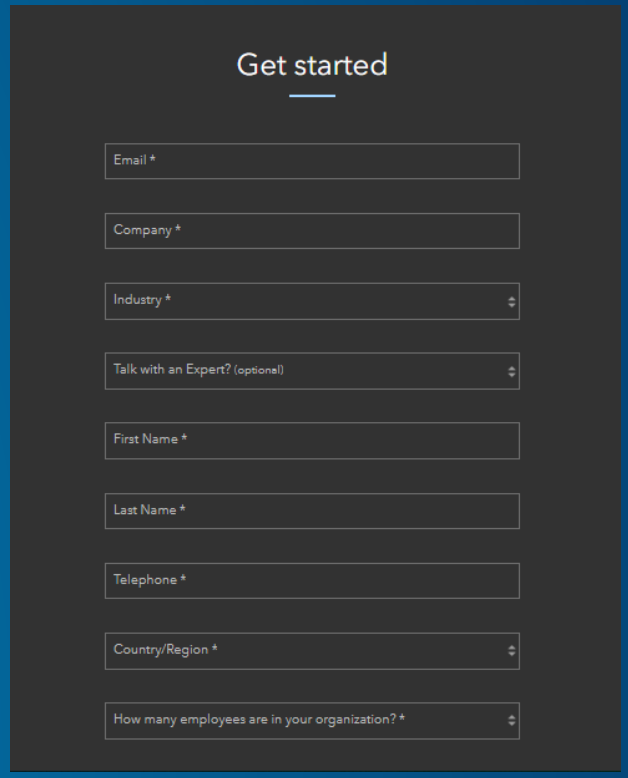
National Portal Templates





The Process

- Country NSO applies online
- Application received by Esri
- Notification given back to country and to UNFPA that they are eligible for program
- Discovery Session: Web Meeting with discussion on requirements, current status, needs and gaps in order to best advise the country
- Paths to procure:
  - Country procures directly from Esri
  - UNFPA HQ procure direct on behalf of the country
  - UNFPA country office funds
- Quotation is provided to either UNFPA or country or both
- Purchase Order issued
- Esri needs to have an MLA signed by country NSO
- Provision licenses directly to the country



Information needed

- Requesting Agency name
- Requestors contact information:
  - Email
  - Telephone number
  - Address, city, province, country
- End User Agency name
- Address, City, Province, Country, Post code
- Agency web address
- Contact person name
- Contact person title
- Email address of contact person
- Telephone number for contact person

Are you ready for Census 2020?

ArcGIS provides the tools to create the accurate and timely data needed to inform policy and guide decision making.

Population and Housing Censuses are one of the primary sources of data needed for formulating, implementing, and monitoring policies aimed at inclusive socioeconomic development and sustainability. Good governance demands better information. Using and applying geospatial technologies and geographic information benefits all stages of the population and housing census process. ArcGIS provides a complete platform for official statistics. It gives you the tools to plan your work, conduct field data collection, monitor your operations, and quickly disseminate your authoritative data.

esri THE SCIENCE OF WHERE

For more information:
Linda Peters lpeters@esri.com