

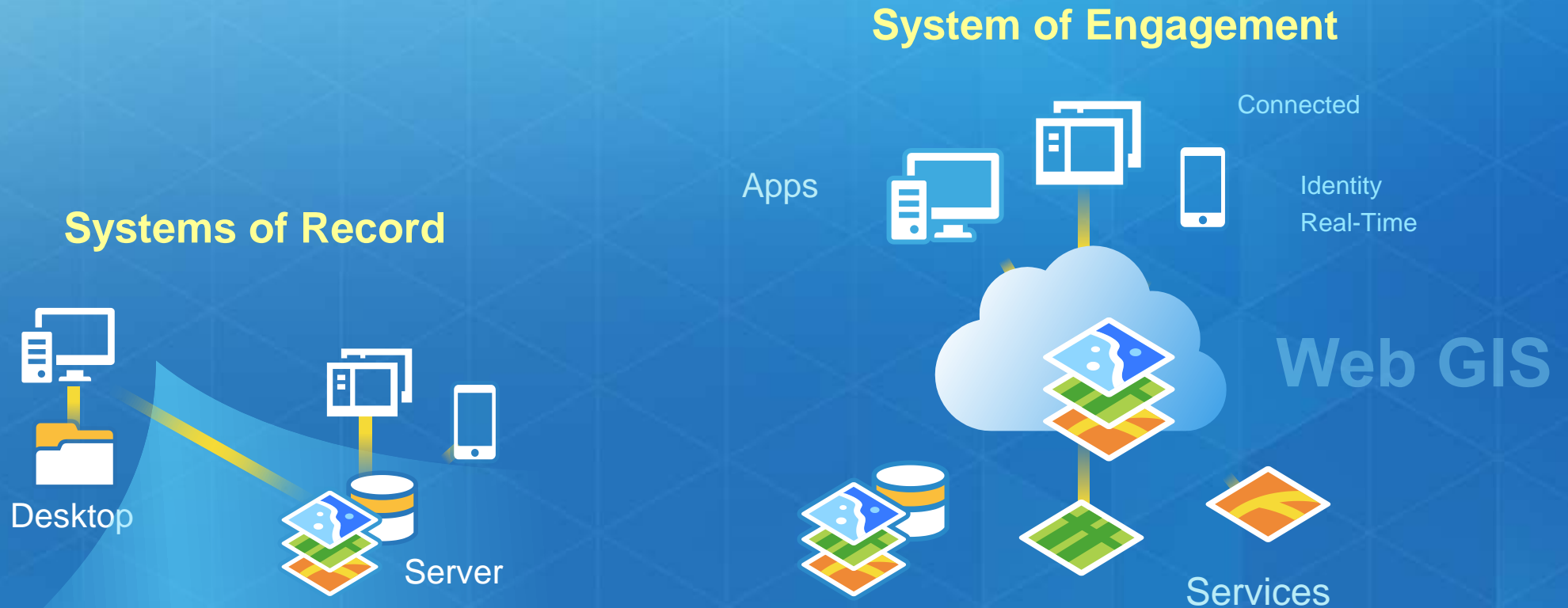
A Geographic Platform for Data Across Society

From Community to Global



Web GIS is Transforming GIS

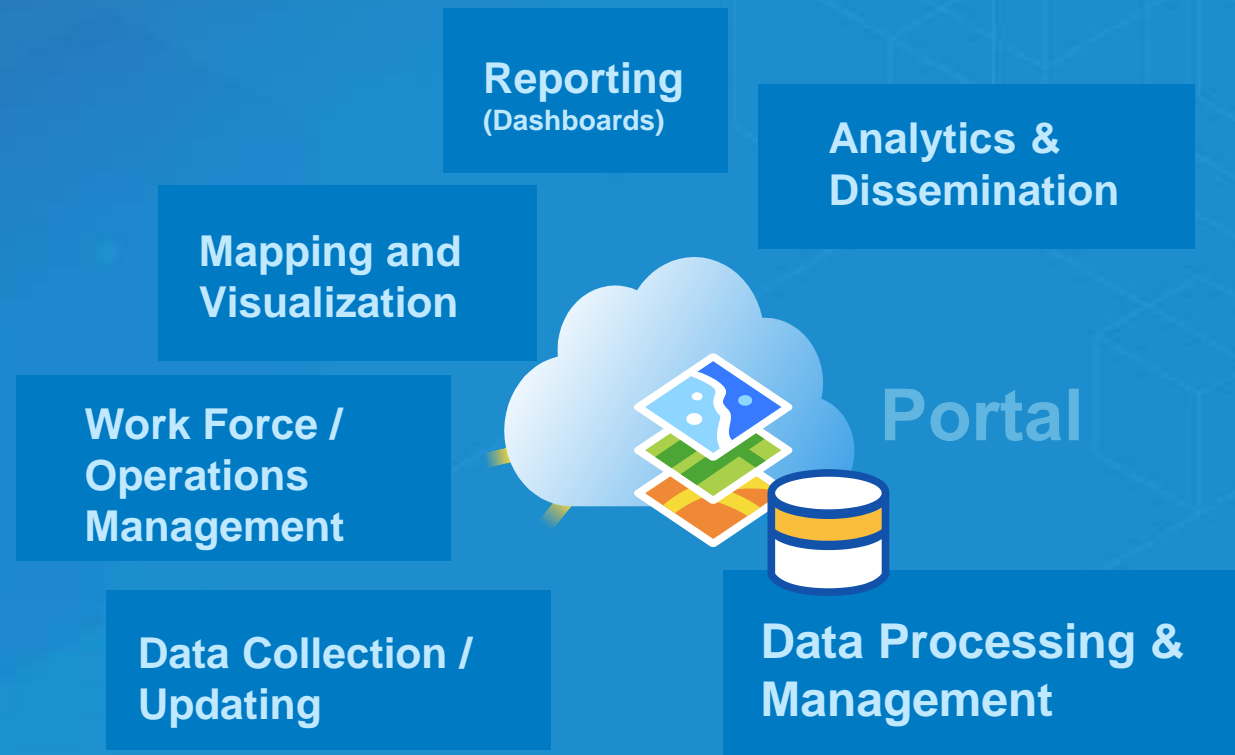
Opening, Integrating and Simplifying Everything



*Integrating Existing Systems . . .
. . . Creating a System of Systems*

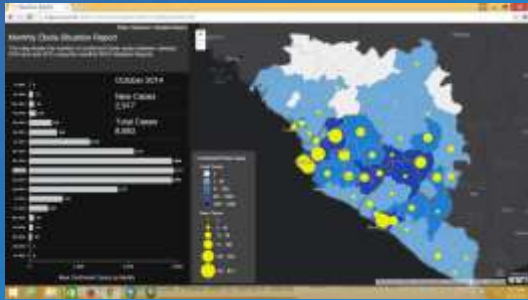
GIS for Official Statistics

System of Record



GIS for Official Statistics

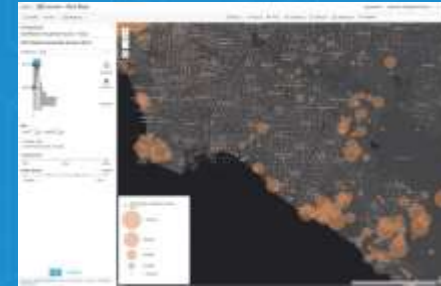
System of Record



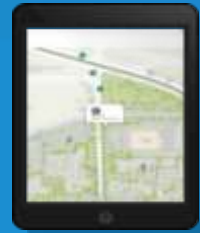
Web Map Viewer



Dashboard



Smart Mapping



Workforce



Collector/
Survey123/
Drone2Map



Portal

Data Processing &
Management

Data Model

- *Administrative Boundaries*
- *Enumeration Area Boundaries*
- *Transportation Network*
- *Rivers and Water Features*
- *Worker Locations*
- *Populations/Counts*
- ...

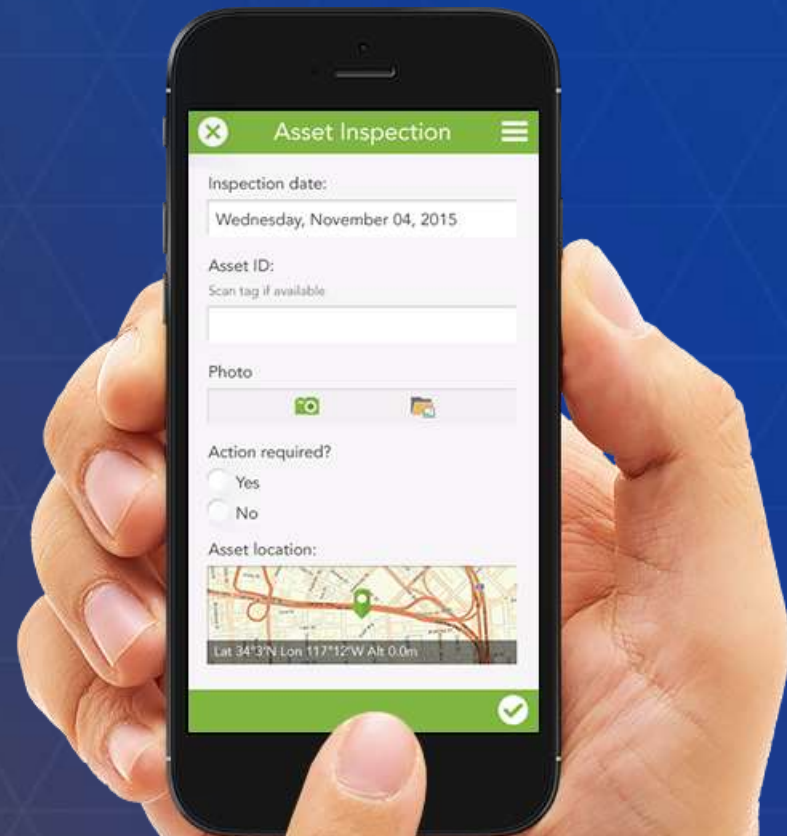


Survey123 for ArcGIS

Form-centric Data Collection

Smart Forms

Works Offline





Survey123 for ArcGIS

Please use a black or blue felt-tip or ball-point pen and not a pencil. Also please check whether the pre-printed details are correct and notify any mistakes. Thank you!

Please complete in block capital: A B C D E F
Where you have a choice of answers, please put a cross in the appropriate box(s)

A. Name and address

Name: _____
First name(s): _____
Residence (If subtenant) land/ord/flody: C / O
Floor: _____ Street: _____ No.: _____
Postcode: _____ Locality: _____

B. Do you have a second place of residence?

No (just residence A)
 Yes (specify): _____
Residence (If subtenant) land/ord/flody: C / O
Floor: _____ Street: _____ No.: _____
Postcode: _____ Locality: _____
Canton: _____ or foreign country: _____
Where do you mainly reside (4 or more days a week)? Residence A Residence B

1. Date of birth **2. Gender**

Day: _____ Month: _____ Year: _____ Female Male

3. Marital status

Married persons should state the year when they married their present partner. Legally separated persons should mark "separated".

Single Widowed since: _____ (year)
 Married since: _____ (year) Divorced since: _____ (year)

4. Nationality

Dual nationals of Switzerland and some other country should mark "Swiss" and name their second nationality.

Swiss
a) How long have you had Swiss nationality? from birth or since: _____ (year)
b) Do you have another nationality besides Swiss nationality?
 no yes → of which country? _____

Persons with several nationalities should indicate the country which has granted them citizenship. Swiss-born persons and refugees should indicate their country of origin.

Foreigner
a) Of what country are you a national?
 Italy France Portugal Turkey Croatia
 Germany Austria Spain Rep. Yugoslavia Rep. Macedonia
 Of another country, namely: _____

English

Design form in Excel



Record Audrey's iPhone

中国移动 4G 7:49 AM

Swiss Census Population Survey 2000

Personal Questionnaire

Person Information

First Name *
Last Name *

Primary Residence

25°17'N 110°17'E
± 50 m

5heraton

© Esri contributors



Official Statistics

Navigation: << >>



Story Map - Statistics Dissemination



Story Map - Territory Optimization with GIS



Thailand Floods



The Age of Megacities

Esri Model National Statistics Organization ArcGIS Online Portal

Official statistics are statistics published by government agencies or other public bodies such as international organizations. They provide quantitative or qualitative information on all major areas of citizens' lives, such as economic and social development, living conditions, health, education, and the environment. Governmental agencies at all levels, including municipal, county, and state administrations, may generate and disseminate official statistics.

This site provides tools, maps and apps for use in the collection, analysis, dissemination and/or application of statistical data to real world problem solving.

SDG Hub

System of Engagement | Applications and Tools



Smart GIS Integrates Everything

Connecting People, Processes, Things and Data About Them

Improving

- *Efficiency*
- *Collaboration*
- *Communication*

System of Record



System of Engagement



System of Insight



Web GIS

Supports Multiple Types of Systems

Helping Organizations Understand . . .

. . . and Be Aware, Alert, and Responsive

Smart GIS Engages Communities

“Community GIS” Is a New Pattern



Engaging
All Citizens

*Providing a Platform for
Civic Engagement . . .
Enabling Smart Communities . . .*

Web GIS Architecture

Shifts the Focus



| | | |
|--------------------------|---|---------------------------------|
| Client / Server | → | Web Services & App |
| Stand Alone Desktop | → | Connected Desktop |
| Data Models | → | Web Maps |
| Static Data | → | Real-Time |
| Custom Applications | → | Configurable Templates and Apps |
| All Purpose Applications | → | Focused Apps |
| Proprietary Data | → | Open Data & Shared Services |

City of Los Angeles

Is Already Implementing a Community GIS



Expanding Their GIS to Support Everyone





Los Angeles GeoHub

The GeoHub is the City's new public platform for exploring, visualizing, and downloading location-based Open Data. You can also analyze and combine Open Data layers using maps, as well as develop new web and mobile applications. Let's make our great City even better, together!

SDG Hub

No one is left behind



Online Content A Living Atlas of the World

Basemaps | Imagery | Demographics | Landscape



Tens of Thousands of Open Data Sets

Thousands of Maps and Layers

Ready-to-Use

Authoritative

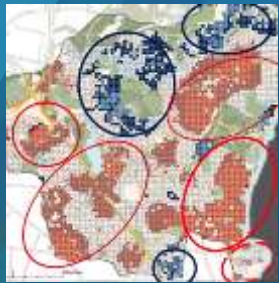
Millions of User Contributions . . . Billions of Views per Week

Spatial Analysis

▶ Providing Insights and Understanding

Desktop

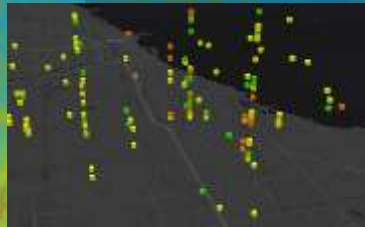
Statistical Clustering



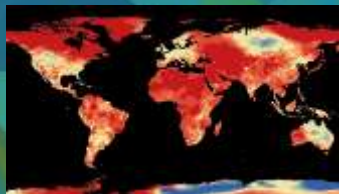
New Raster Functions



Anomaly Detection



Scientific Data Support



Bayesian Regression (EBK)



Integrating Analysis Tools



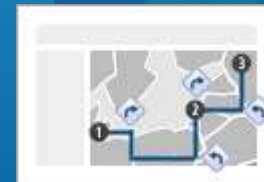
Data Exploration



Aggregation

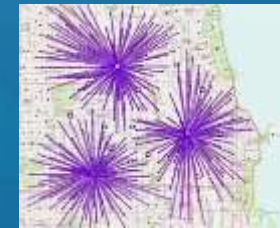


Mode-Specific Routing



Web Browser

Location Allocation



Charting



Hot Spots



Faster Geocoding (230+%)



Buffer



Living Atlas Integration

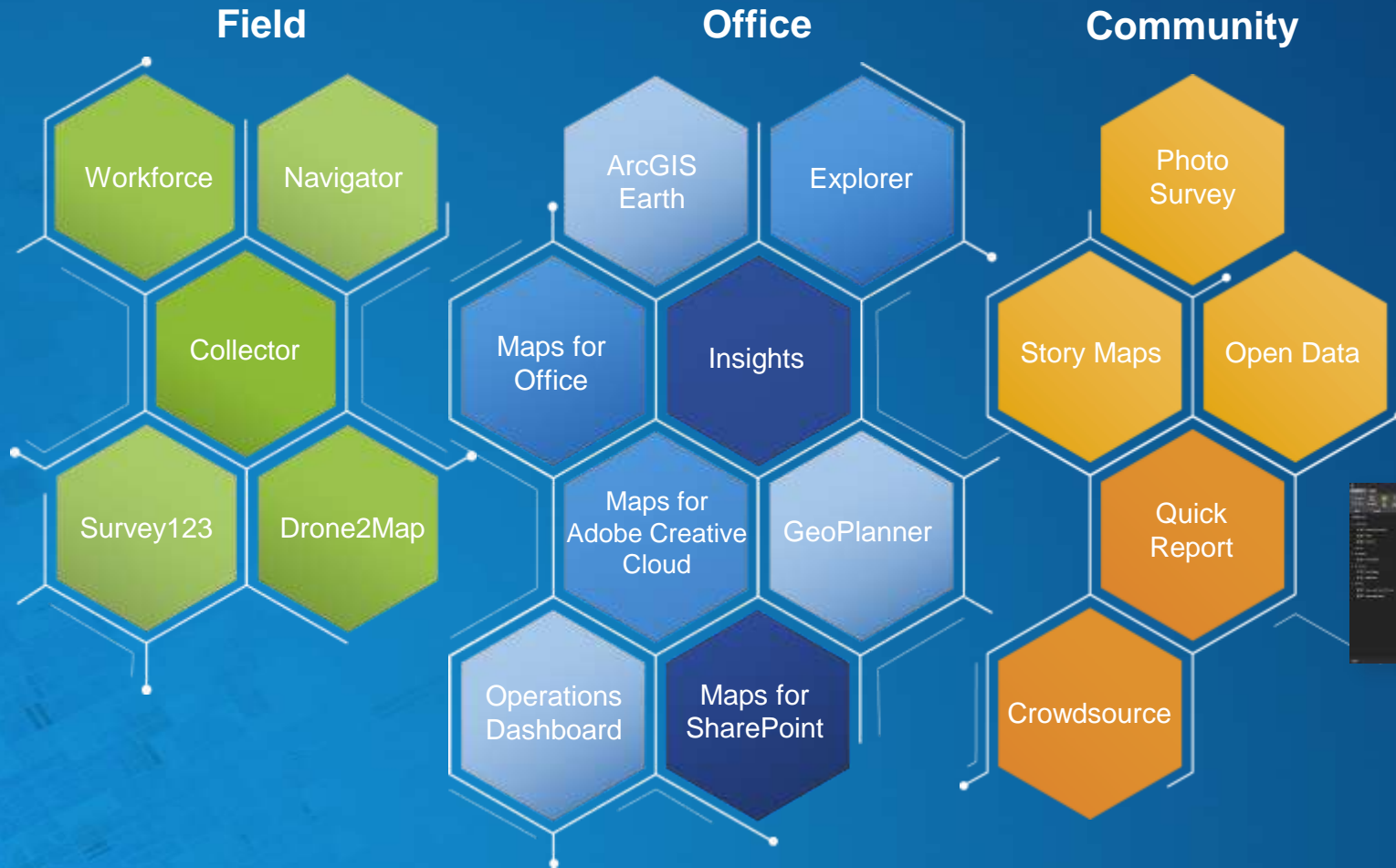


Interpolation



Apps

Extending ArcGIS Capabilities Everywhere



Focused, Powerful and Ready-to-Use

Open-Source Maps & Apps

Hundreds of Ready-to-Use Solutions

- Easily Configurable
- Fully Supported
- No Cost

Local & State Government



Utilities & Telecom



Public Safety & Emergency Management



Military & Security



Open-Source Solutions

500,000+ Downloads



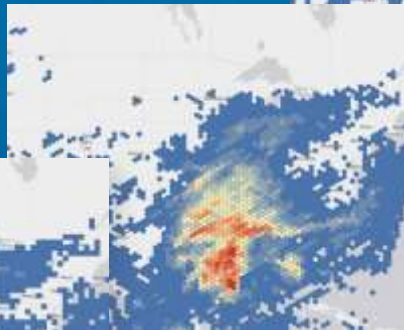
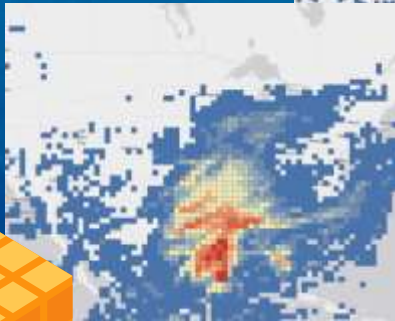
Delivering Innovation & Best Practices

Big Data

GeoAnalytics and Visualization of Massive Data

Parallelized Analytics
on Vector and Raster Data

Lightning Strikes



GeoAnalytics
Server



Spatiotemporal Analysis

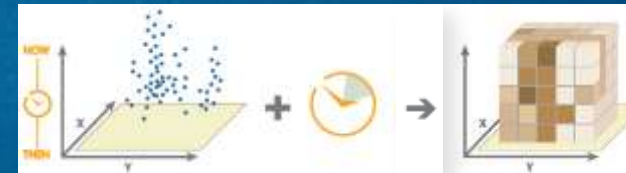


Image
Server

Solar Suitability



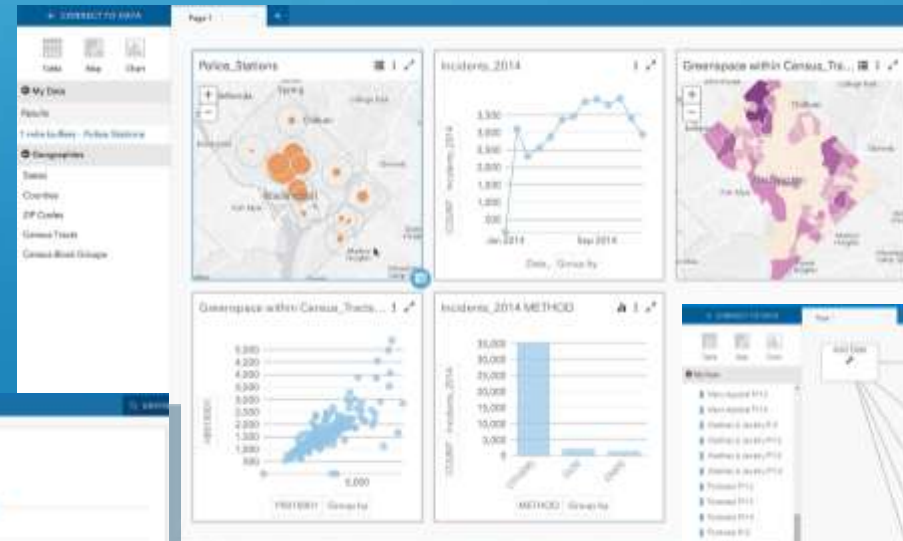
*Providing Massively Parallel Processing
... Creating New Insights*

Insights ▶ Transforming Understanding with Interactive Analysis

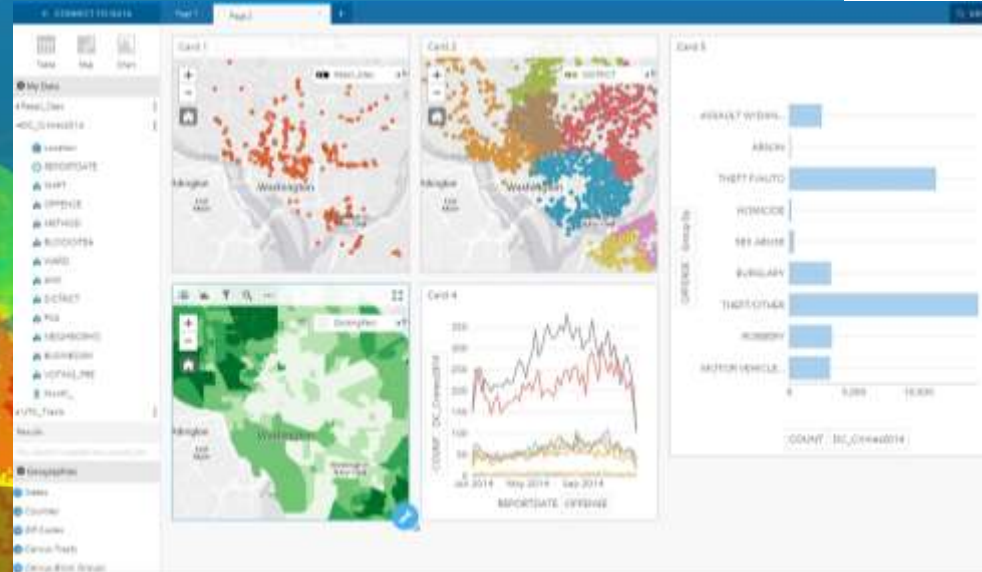
Insights App

- New Paradigm (Visual, Intuitive, Responsive)
- Dynamic Analysis
- Very Fast Data Access

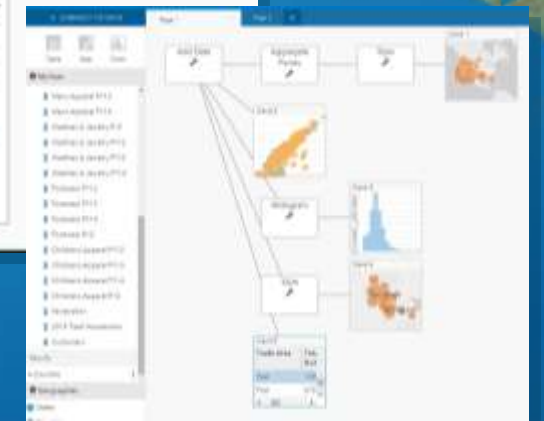
Linked and Responsive Charts and Maps



Integrated Spatial and Tabular Analysis



On-The-Fly Visual Models



Coming Later
This Year...

Extending and Complementing Traditional Analysis

Esri's MOOC Program

Online Courses on How to Apply Geography for a Better World

To teach the World Data community how to leverage the GIS platform capabilities.

Millions of adult learners around the world use massive open online courses (MOOCs) to expand their horizons and advance their careers. The MOOCs described here are offered by Esri, as well as leading university partners that use Esri's ArcGIS platform.

Esri MOOCs

These free online classes offer a convenient, effective, and fun way to keep up with the fast-paced developments in the ArcGIS platform. Classes are open day and night and require only a couple of hours of study per week. A certificate is available upon completion.



Going Places with Spatial Analysis

Gain a deeper understanding of spatial data analysis.

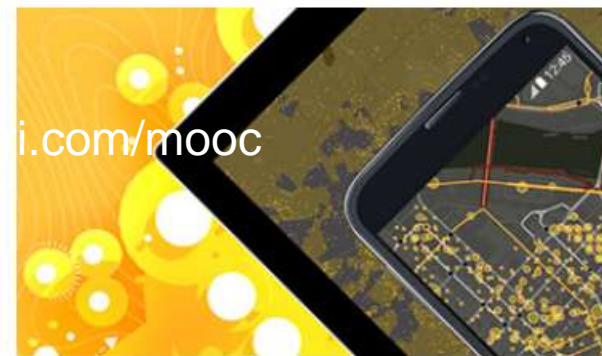
[Learn More →](#)



The Location Advantage

Explore how location analytics can be used in business.

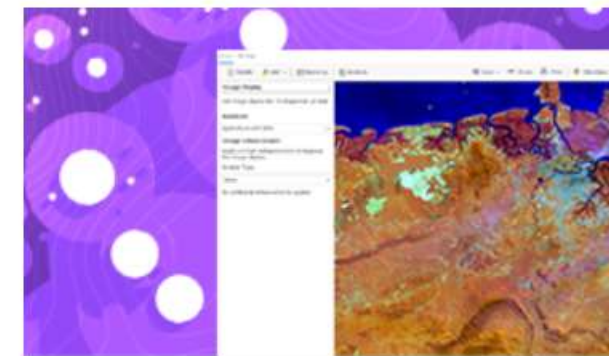
[Learn More →](#)



Do-It-Yourself Geo Apps

Learn how to develop your own geospatial tools.

[Learn More →](#)



Earth Imagery at Work

See why imagery is information.

[Learn More →](#)

A Geographic Platform for Data Across Society

No one is left behind





Understanding our world.

Audrey Bong, abong@esri.com
www.esri.com