

GIS for Beginners

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Why this workshop? | Goal.

- Provide educators at multiple **levels** and multiple **disciplines** the **confidence** and **skills** to use GIS at a beginning level.

GIS skills can be most easily gained through the use of web mapping applications and the ArcGIS Online platform; hence those tools will be the focus of this workshop.

... and in a dynamic hands-on format so we can learn by doing!

Why this workshop? | 4 reasons we are here.

1. Key issues of our 21st Century world occur at specific locations and often exhibit geographic patterns, relationships, and trends.
2. GIS is an incredibly useful tool in which to analyze problems and themes.
3. Teaching about GIS and with GIS can foster skills in critical thinking, spatial thinking, working with data, communication, and can help students understand the Earth, and how they might be able to be “change agents” to help their community and our world become a healthier, happier, more sustainable planet.
4. The advent of the web-enabled GIS platform ArcGIS makes learning about and teaching GIS more accessible and achievable in a short amount of time than ever.

... which is why we will use ArcGIS Online in this workshop.

Fundamentals

for GIS in instruction

Definitions of GIS

Maps as geographic tools

GIS in education trends

Components of GIS

The Whys of Where

GIS as a platform

GIS in education advantages and challenges



The ArcGIS Platform |

Cloud-Driven with mobile and desktop components

Maps

Spatial Data

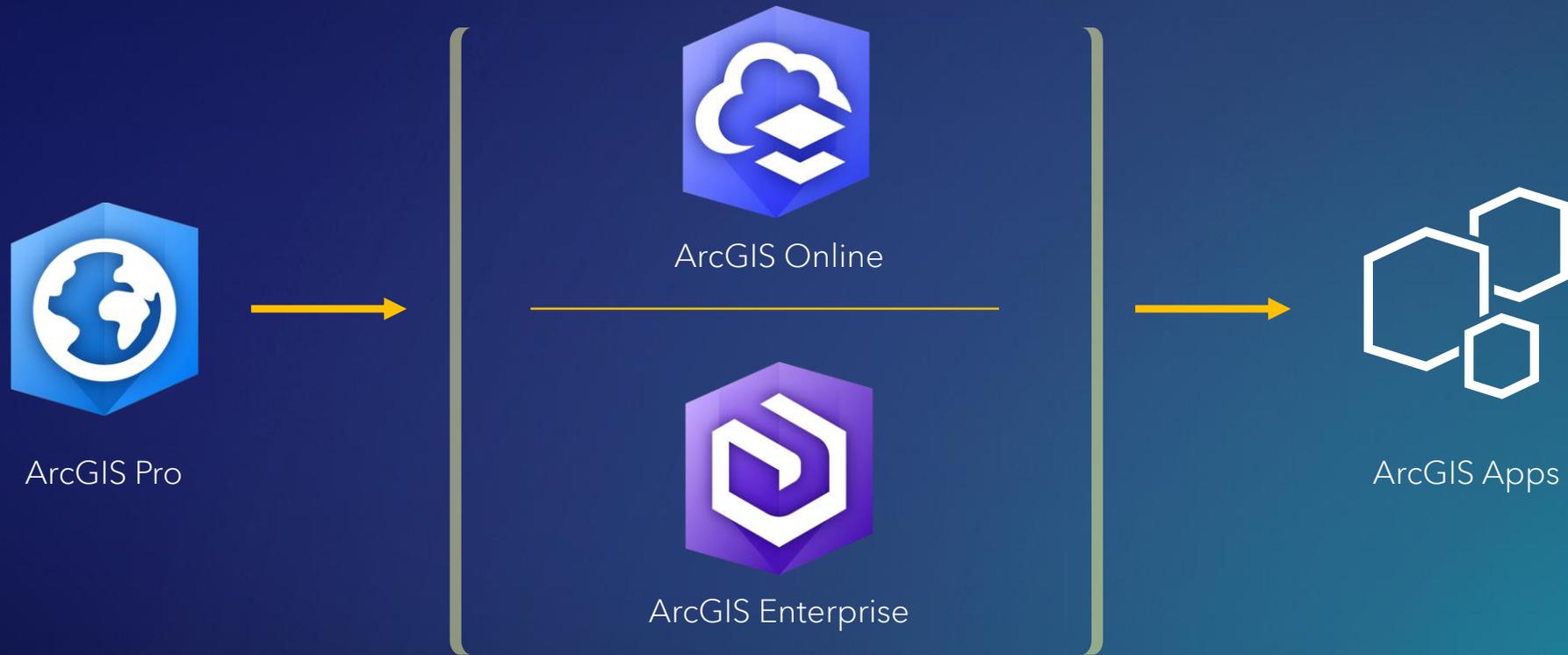
Apps: Office, Field

Tools:

ArcGIS Pro, ArcGIS Online, Community Analyst / Business Analyst Web, Esri Maps for Office, ArcGIS Earth, Drone2Map, Insights

Cloud and Desktop.

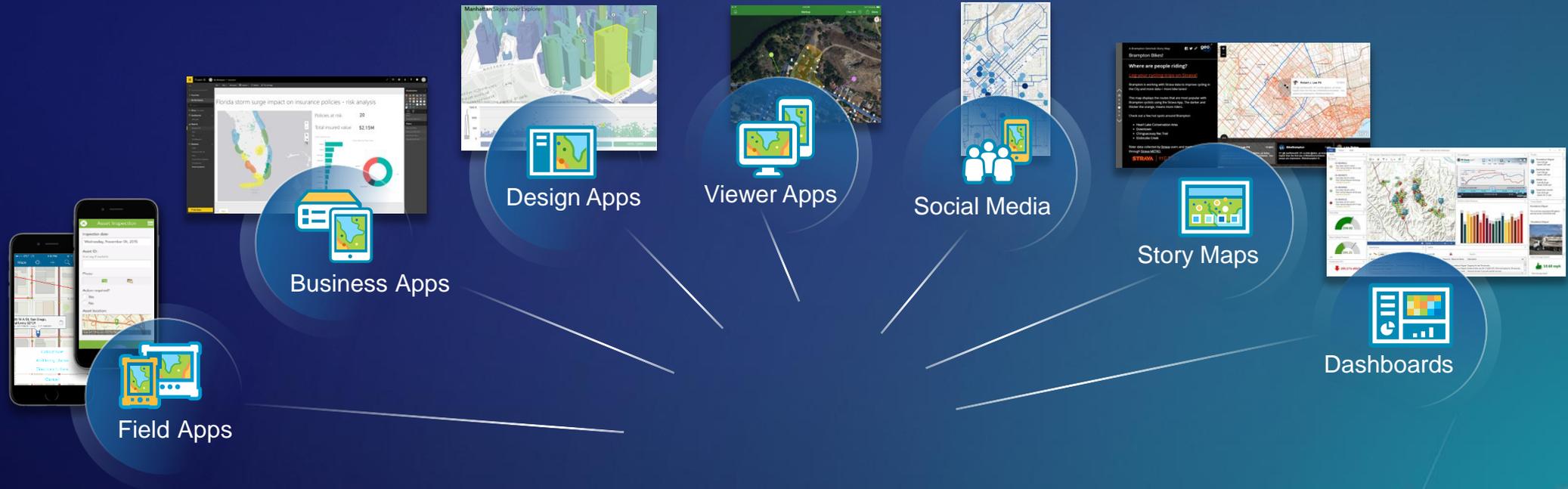
The Web GIS Paradigm



ArcGIS for Developers

ArcGIS Apps Bring the Power of Location to Everyone

Extending the Reach of GIS



Across Organizations and Beyond

Apps by theme

Focused, powerful, ready to use



Office



ArcGIS
Earth



Esri
CityEngine



Maps for
Office



Maps for
SharePoint



Insights
for ArcGIS



Esri Business
Analyst



GeoPlanner
for ArcGIS



ArcGIS Maps
for Adobe
Creative
Cloud



Operations
Dashboard
for ArcGIS



Field



Workforce
for ArcGIS



Navigator
for ArcGIS



Survey123
for ArcGIS



Collector
for ArcGIS



Drone2Map
for ArcGIS

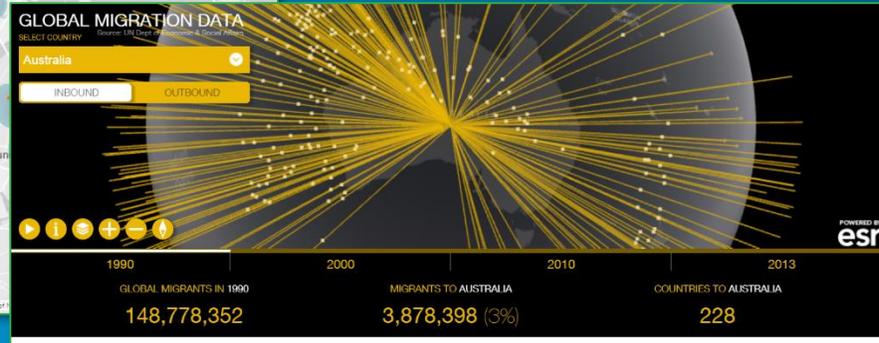
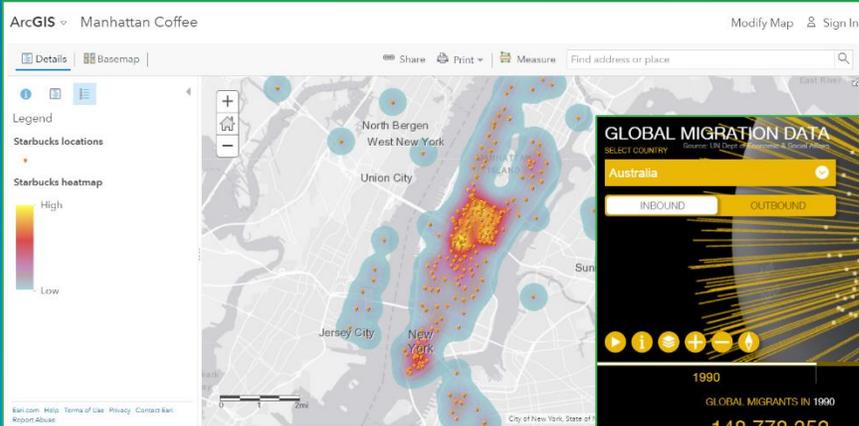


ArcGIS
Explorer

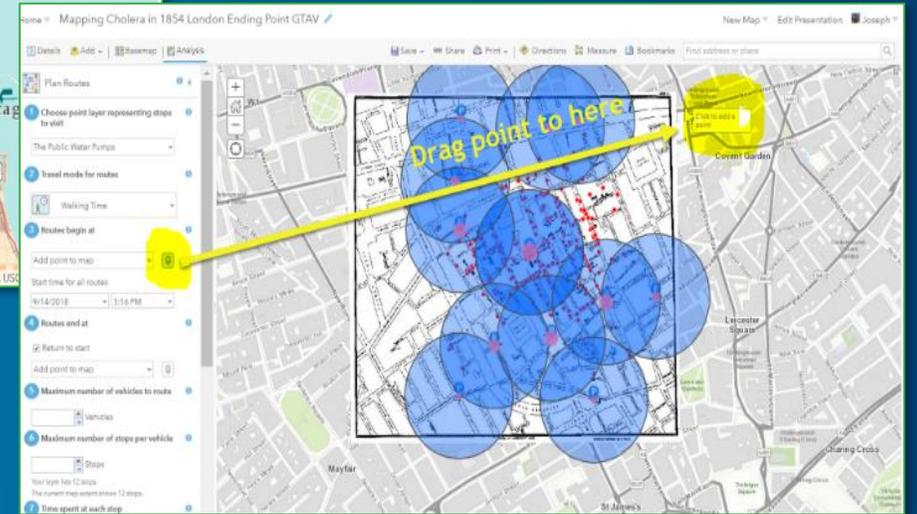
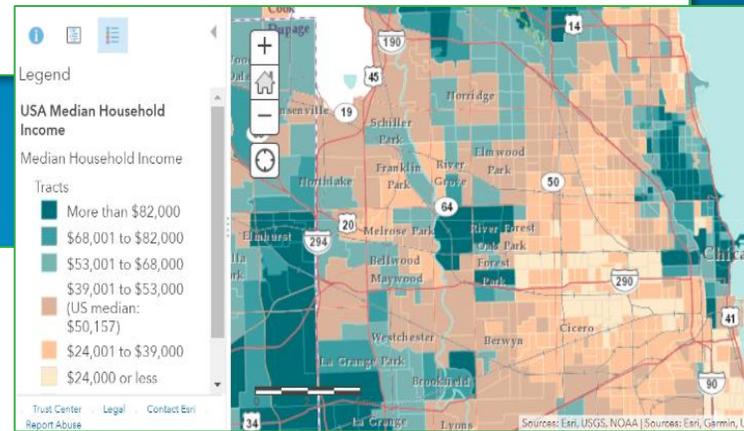
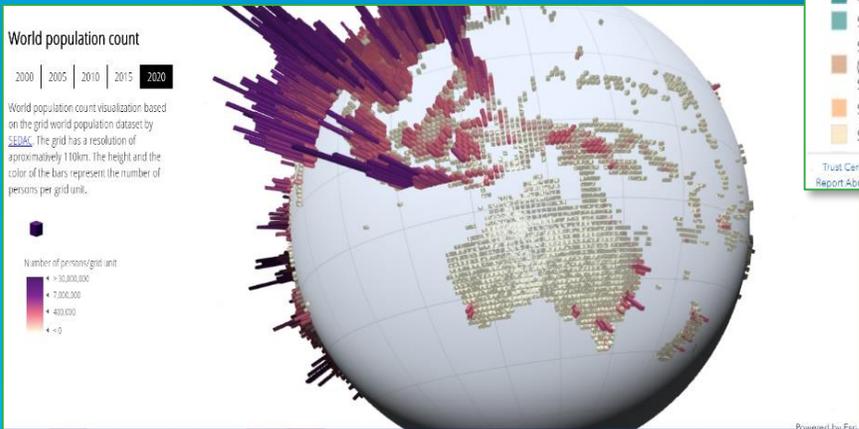
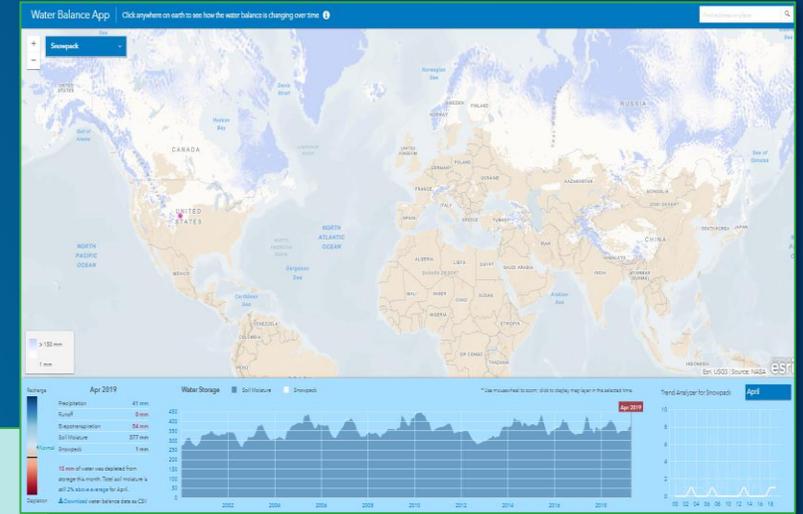
Workshop Outline

1. Examining issues and data and learning GIS using web mapping applications.
2. Examining issues and data and learning GIS using the ArcGIS Online map viewer.

Selected tools and data sets | ... that we will use in this workshop.



Migration Trends





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THE
SCIENCE
OF
WHERE