

ArcGIS Insights – Analysis & Reporting

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Today's Agenda

Deep Dive

1. Product overview

- 2. Exploratory, spatial, & statistical analysis
- 3. Reporting and collaboration
- 4. Roadmap & resources

ArcGIS Insights

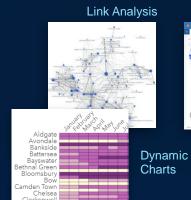
Interactive Visual Analytics

New & Improved

- Scheduling
- Presentation Options
- · Analysis (Clustering, Density Ratio . . .)
- Web & Export Options



Smart Mapping





Integrated Reporting

Advanced Analysis

Statistical Spatiotemporal Link / Graph Python / R Scripting . . .

Interactive Reports

Sharing (Internally and Publicly) Embed in Web Pages Scheduled Updates . . .

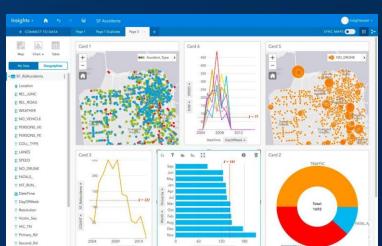
Visual Analytics

Maps, Charts and Tables **Exploratory Analysis** Dynamic Interactions . . .

Data

Dynamic Cleaning Compound Joins Calculations GeoEnrichment...

Easy to Learn and Use





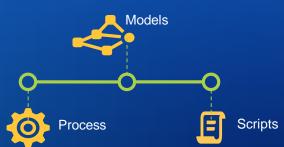
ArcGIS Insights

1. Connect to data



2. Visualize & analyze





3. Share interactive reports



Bring the value of spatial analysis to all analysts



GIS Analysts



Knowledge Workers Business or Strategy Analysts Data Scientists

Connect to your data





- File geodatabase
- Shapefile
- JSON and GeoJSON
- Excel and CSV
- OneDrive
- SharePoint



Enterprise GIS

- Feature layers
- ArcGIS Online / Enterprise
- Supports multiple orgs



Relational Databases

- Can be a geodatabase, or not
- Views are supported
- Oracle
- SQL Server (supports OS authentication)
- PostgreSQL / PostGIS
- SAP HANA
- Option to host any above in AWS
- Azure SQL Database

Python or R

Pull data in with scripting

Analysis



Visualize, discover, and find questions

Get Answers

Analysis





Exploratory Analysis











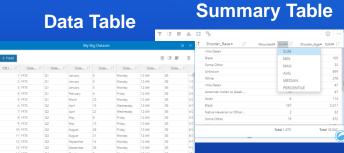








Maps



Tables



Charts















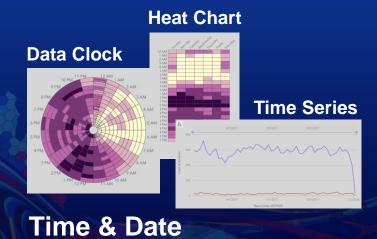












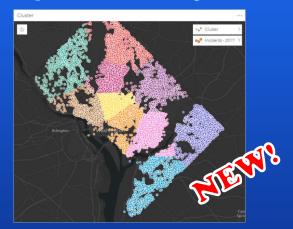






Filters

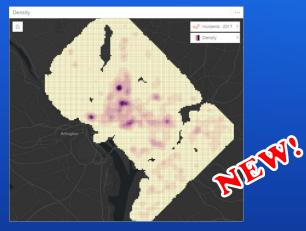
Spatial Analysis



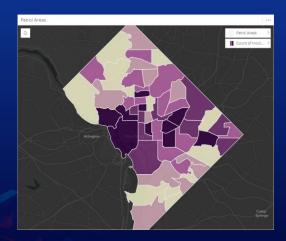
K-means clusters



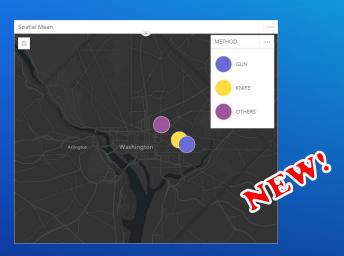
Find Nearest



Density ratio



Aggregate



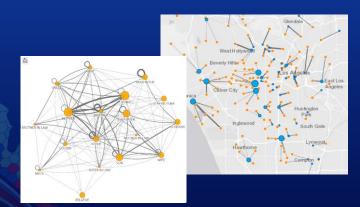
Spatial mean

and more...

Statistical Analysis



Forecasting



Link (graph) analysis



Moving average



Regression & predict



Temporal decomposition

and more...



DEMO

Analytics with ArcGIS Insights

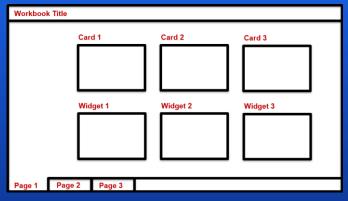


Sharing Pages & Workbooks

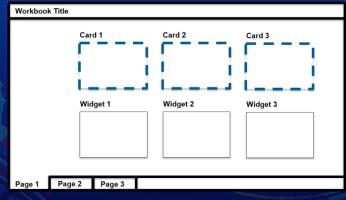


	Analyst	Viewer
Select & filter	Yes	Yes
Export data	Yes	Yes
Create new cards, analysis, and stories	Yes	No

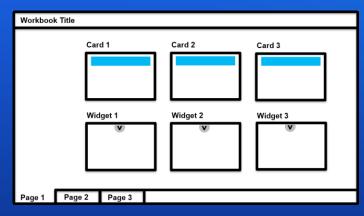
Design Compelling Reports



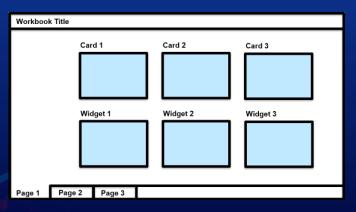
Titles – workbook, page, card, and axis



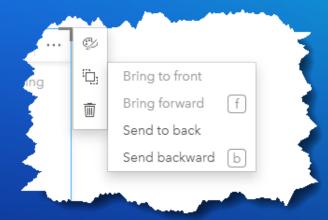
Card Border



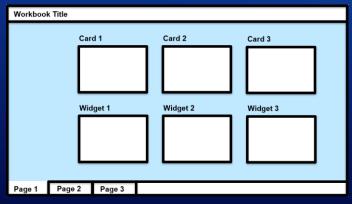
Toolbar Control – hide & color



Card Colors

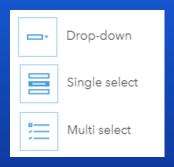


Card Ordering

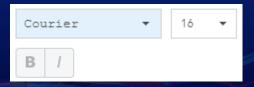


Page Background Color

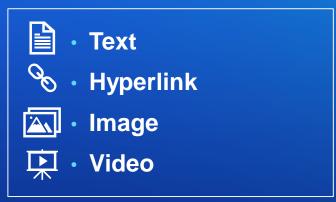
Design Compelling Reports (continued)



Predefined Filter



Font control – title & axis

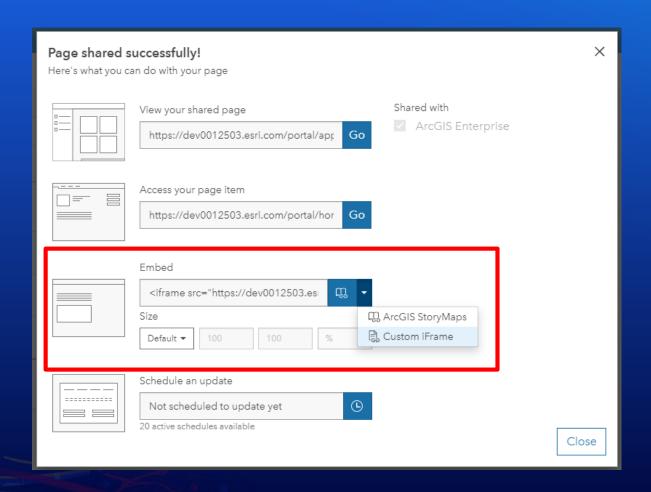


Text & Media Widget

- Apply a consistent standard
- Store settings (colors, text, media, card types)
- Import / export

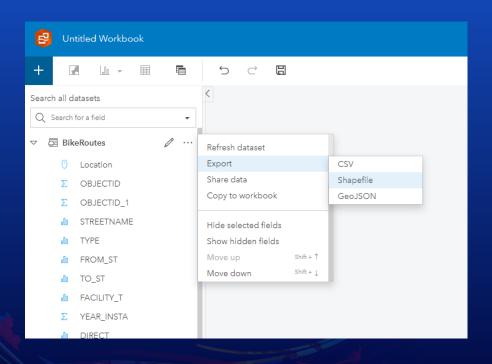
Theme

Embedding



Export Data

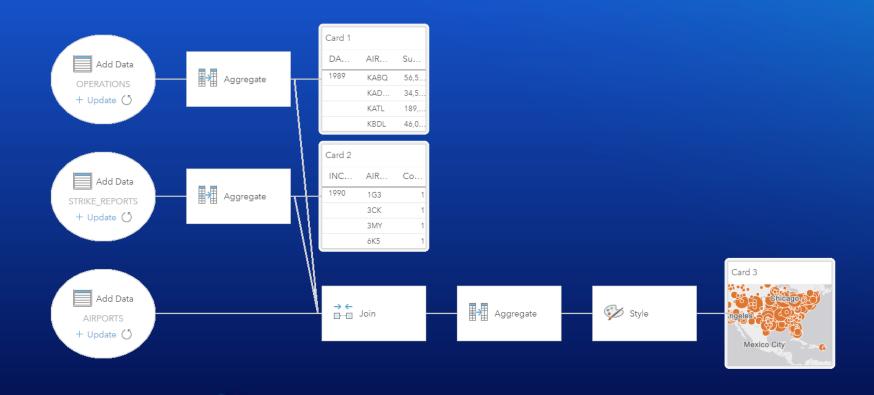
Analyst



Viewer



Analytical Models – Documented and Repeatable

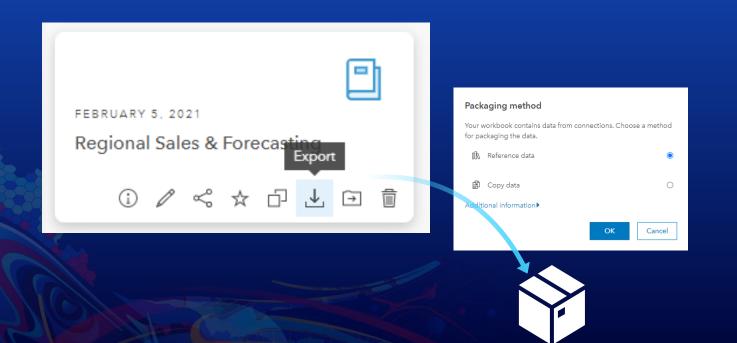


Workbook Packages

Export and import across all deployment options (Online, Enterprise, Desktop)

.insightswkb

- Contains data, model, and report
- Data is either packaged or a reference







DEMO

Interactive Reporting with ArcGIS Insights



ArcGIS Insights | 3 releases in 2020 and one coming in March



ArcGIS Insights – 3 releases in 2020

Insights Desktop FINAL release

ATA

SharePoint connector

OneDrive connector

K-means clustering

Python Pandas

Packaging and sharing workflows

MS SQL Server OS authentication

Support for domains and subtypes

Export data from data pane

Multiple Enterprise connections

ANALYSIS

Kernel density analysis

Density ratio

Calculate geometric properties

Spatial mean

Scheduled refresh of analysis

Time field calculations

VISUALIZATION

Maps with chart symbols

Multiple time series on one chart

Top or bottom *n* filters

Map pop-up, legend, and zoom extents improvements

Time series pan & zoom

Combo chart axis synch

Line chart smoothing

Summary table collapse/expand header, reorder fields

REPORTING

Cleaner and simpler UI

Card labeling, configurability, animations, and z-ordering

Hide chart and map toolbars

Predefined filters as a drop-down

Reorder page tabs

Page and card font control

Accessibility across Insights



Data

- Snowflake and Google BigQuery
- JDBC data connections
- Reorder datasets in the data pane

Analysis & Visualization

- Manually re-order chart categories (bar and column charts)
- Number labeling (bar, column, and line charts)
- Forecasting
- Moving average
- Time series detail and bucketing with pan and zoom
- Temporal Decomposition, and vertically stacked axis chart

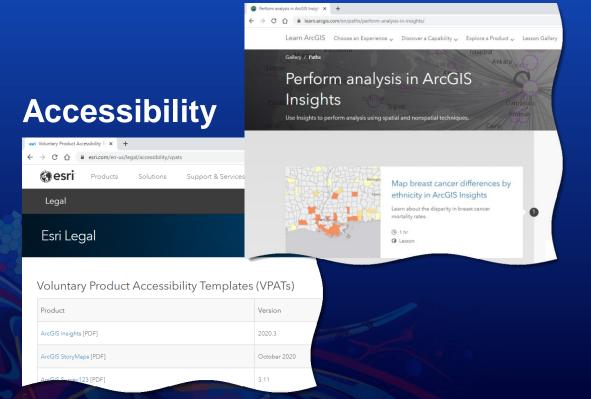
Interactive Reporting

- Embedding: iframe sizing options
- Export data as a viewer

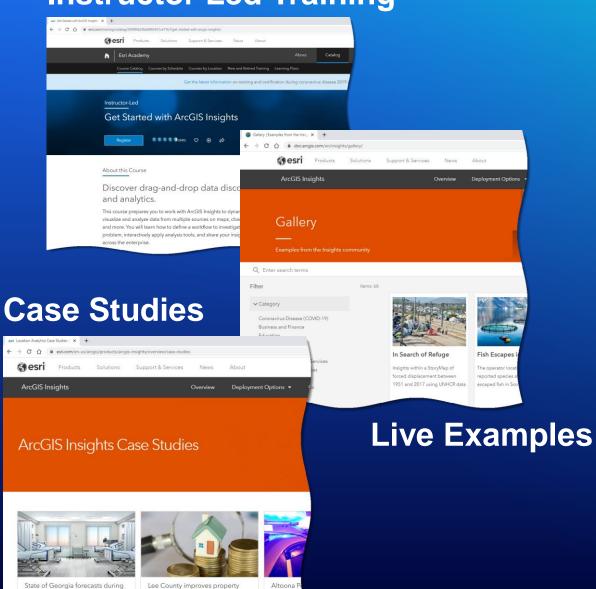
Training & Education

COLLEGELE

Learn Path & Lessons



Instructor Led Training



valuation

For more Insights...

- ArcGIS Insights: Scripting with Python and R
 - Thursday 10:15 11:15

- ArcGIS Insights: Configuring Data Connections
 - On-Demand

Holistic Testing Event - ArcGIS Insights 2021.1

Open to customers, partners, distributors, and Esri staff



April 13th & 14th

holistictesting@esri.com



