

# Top 10 Things at Esri UC 2015

&

# ArcGIS Pro

Jim Tocherman, VP - Research & Development

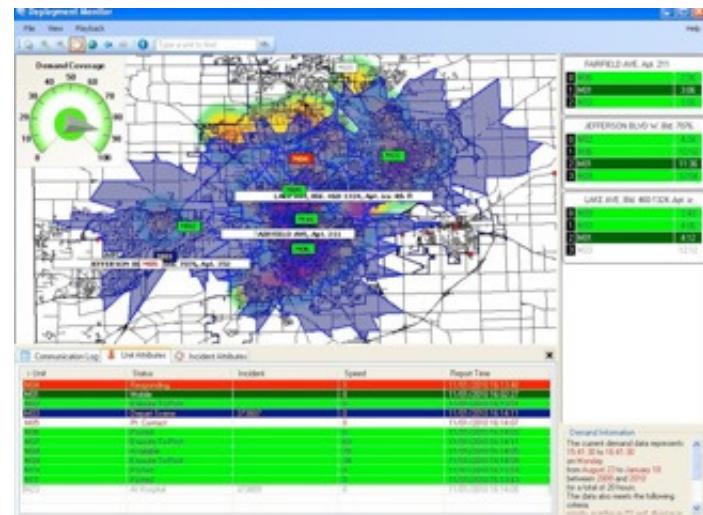
# Who is BCS?

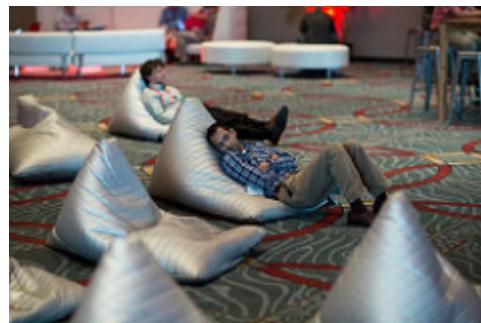
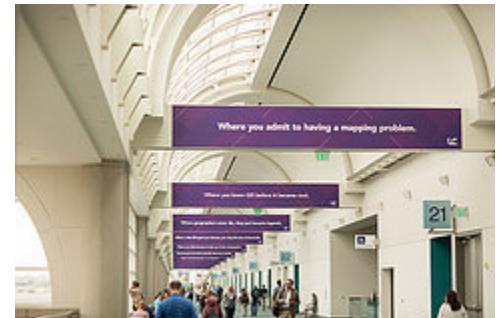
- Formed in 1998 in Aiken, SC
- Privately held and woman-owned
- Primary focus is GIS for Public Safety
- Esri Gold Tier Partner



# What does BCS do?

- Company Business Units
  - MARVLIS
  - Public Safety
  - Mobile Technologies
  - Esri Software Sales, Services, Training & Consulting
  - Defense/Intel





# Esri UC Top 10

## 10 – Time To Embrace Web GIS

The Web has changed how we practice and apply GIS tools & capabilities. This trend has been evolving for years and has finally made the turn.

**Portals** – Private/Public, On-Premise/Cloud. The hub/center of an organizations GIS. The “window” to Web GIS.

**Content** – Foundation of Web GIS. Reliable, authoritative, ready-to-use. Updated regularly.

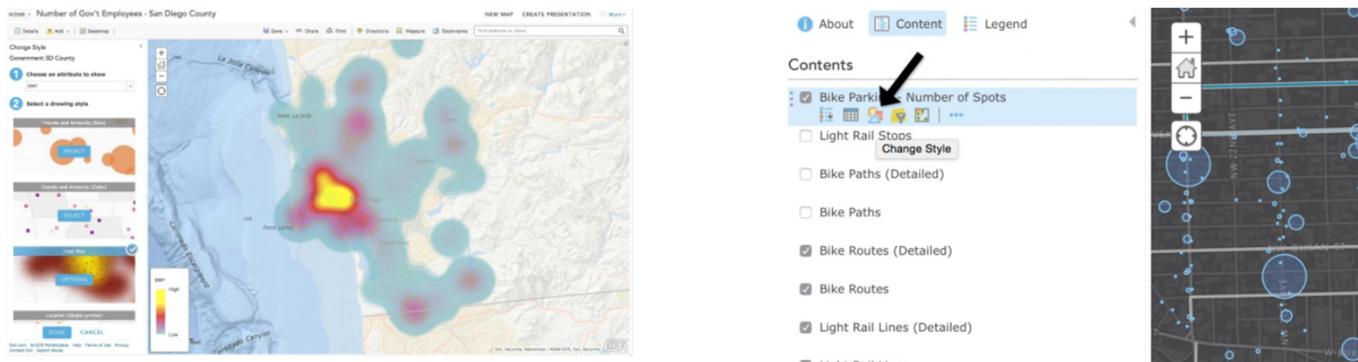
**Analysis** – Heart and soul of Web GIS. Shared analysis and geoprocessing tools that can be used by anyone. Easy to understand and used to solve common geospatial problems.

# Esri UC Top 10

## 9 –Smart Mapping

Data driven web cartography & exploration. Right tools at the right time when authoring also helps explore the data in different ways. More than just a map.

Built into ArcGIS Online & Portal for ArcGIS at 10.3.1



# Esri UC Top 10

## 8 – 3D Visualization

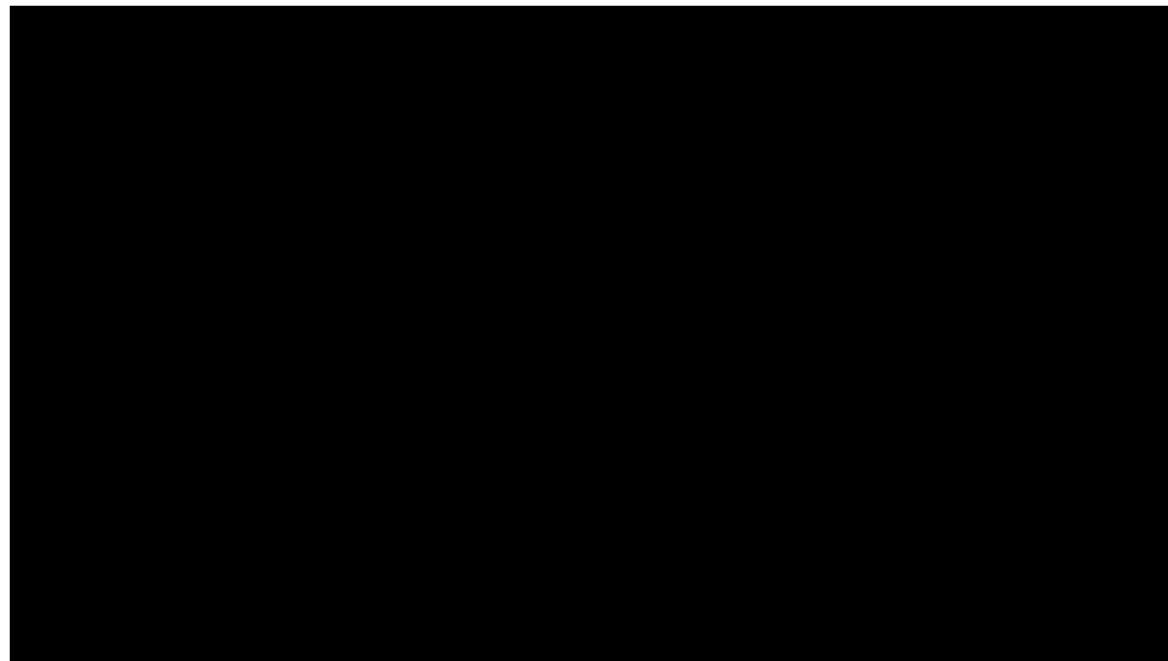
3D in the Browser. Availability & scalability is growing outside of modeling.



# Esri UC Top 10

## 7 – Big Data & GeoAnalytics Tools

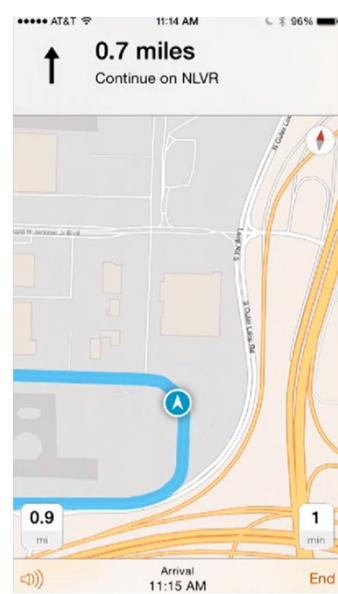
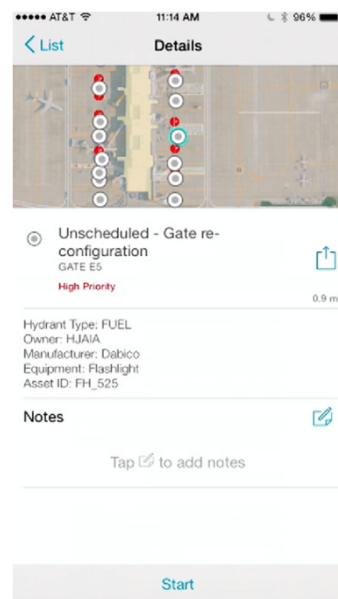
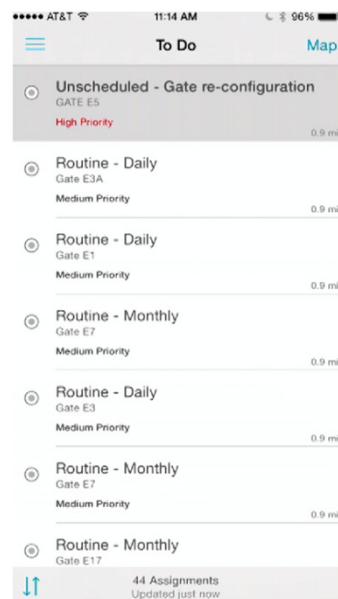
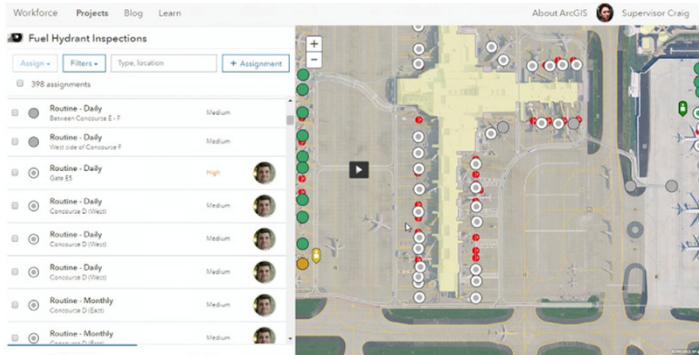
Open Source GIS tools for Hadoop & Cloudera. Filter & organize Big Data so it can be analyzed and visualized from a geographic perspective.



# Esri UC Top 10

## 6 – New Collector Apps

Workforce Dispatcher, Workforce Mobile, & Navigator work with Collector. Coordinate work assignments & direct field workers where they need to be.

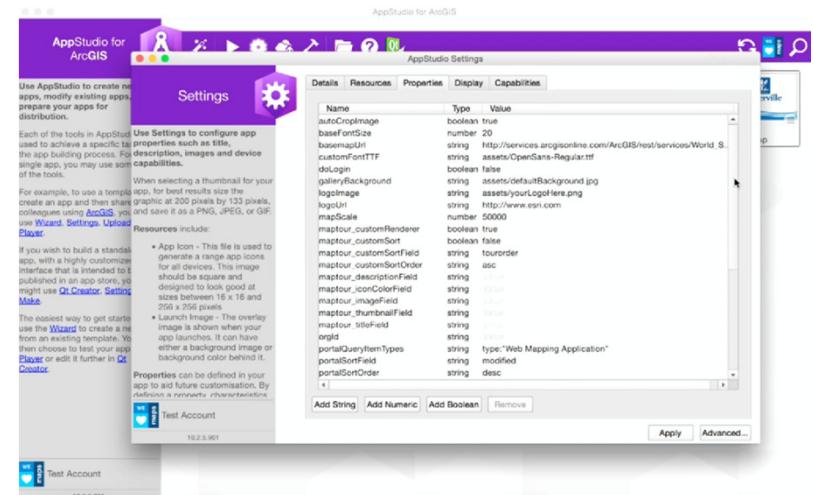
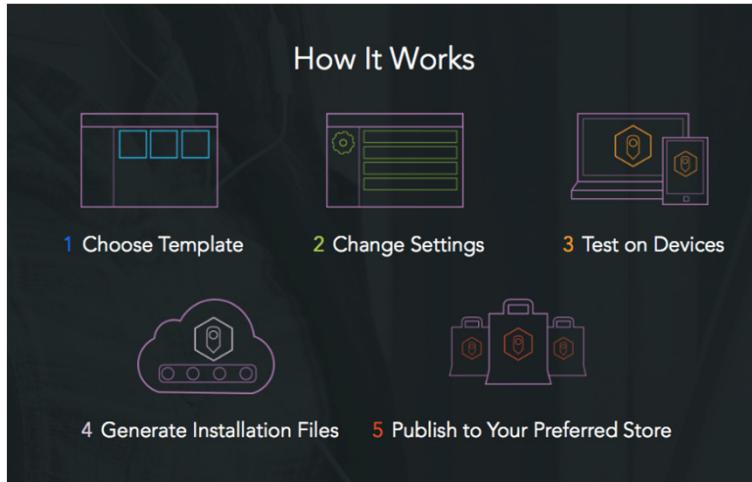


# Esri UC Top 10

## 5 – AppStudio for ArcGIS

Allows developers & non-developers to build mapping apps that run natively across multiple platforms.

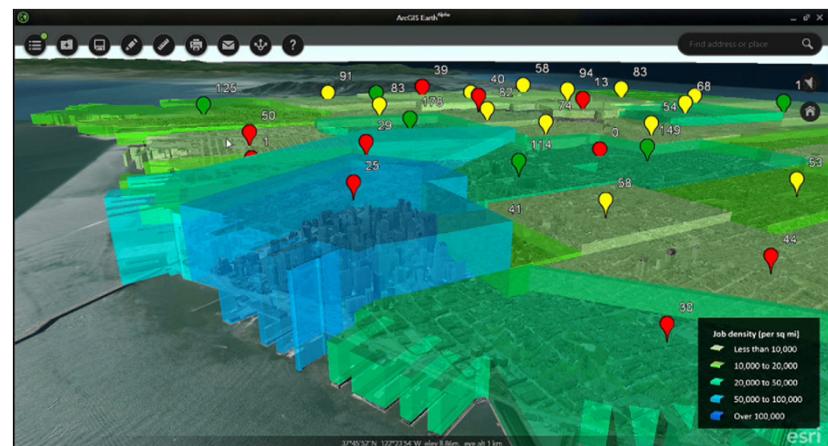
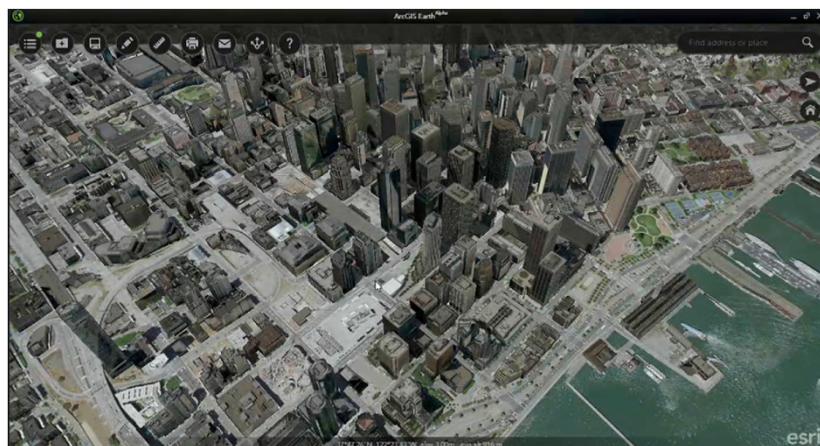
iOS, Android, Windows Phone, Windows, OS X, Linux.



# Esri UC Top 10

## 4 – ArcGIS Earth

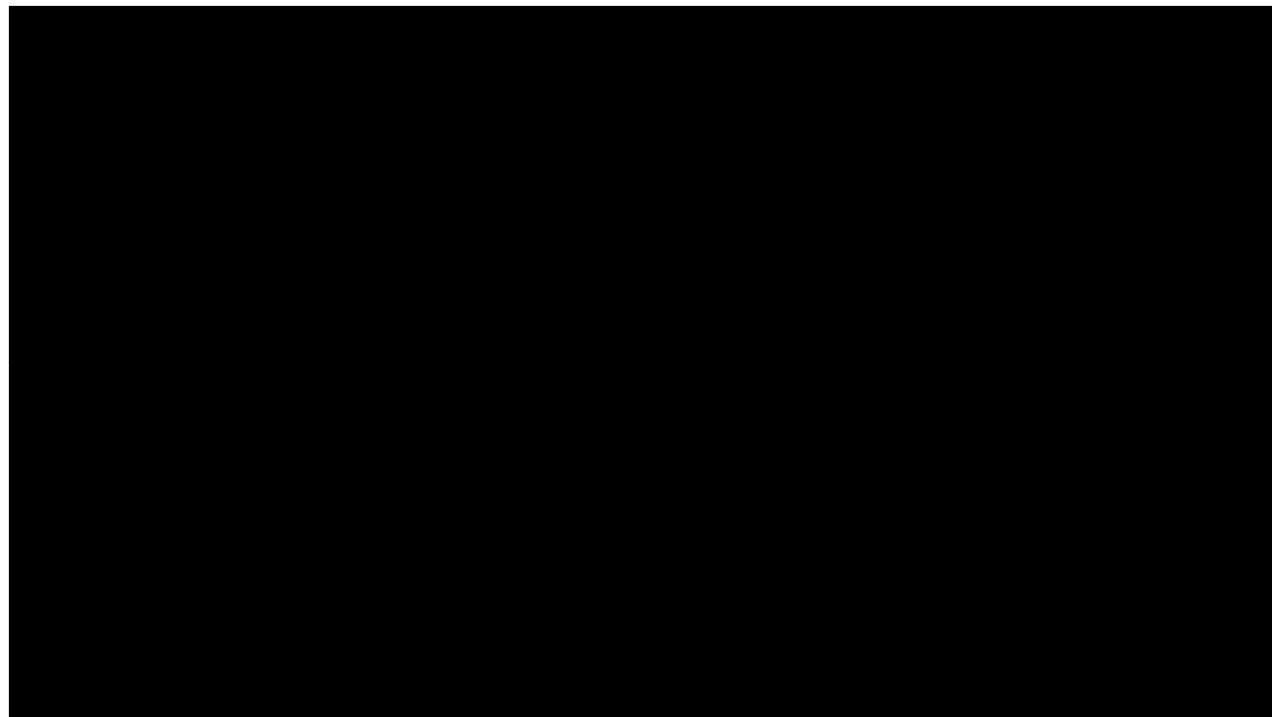
Freely available, lightweight installable desktop app, 2D & 3D, Full KML/KMZ Support. Windows initially, other OS later.



# Esri UC Top 10

## 3 – Drone Support

New application/tools to rapidly ingest, process, & share UAV collected data.



# Esri UC Top 10

## 2 – Statistical & Scientific Package Support

R & SciPy will run directly as geoprocessing tools/scripts. R developers can access ArcGIS datasets from within R, save R results back to ArcGIS datasets and equivalent representations in R.

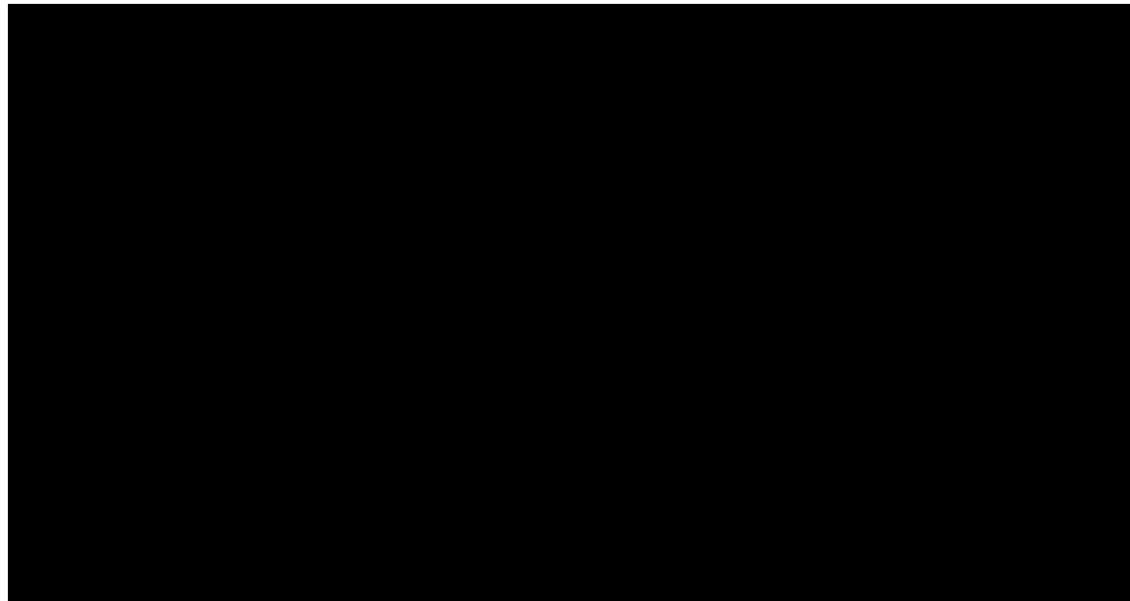
The screenshot shows the 'Welcome to the R – ArcGIS Community' page. The page features a blue-toned topographic map background. At the top, the text 'Welcome to the R – ArcGIS Community' is displayed, followed by the tagline 'Combine the power of ArcGIS and R to solve your spatial problems'. Below this, a text block explains the purpose of the community: 'The R – ArcGIS Community is a community driven collection of free, open source projects making it easier and faster for R users to work with ArcGIS data; and ArcGIS users to leverage the analysis capabilities of R.' In the center, there is a diagram with two dark grey boxes labeled 'R' and 'ArcGIS' connected by a double-headed orange arrow. Between the boxes are icons representing a file, a database, and a cylinder. Below the diagram, a call-to-action button says 'Need the R Statistical Software? Download it now.' At the bottom of the main page, there are three project cards:

- r-bridge-install** (Python): 'Install the R ArcGIS Tools' - 0 reviews
- r-bridge** (C++): 'Bridge library to connect ArcGIS and R, including `arcgisbinding` R library' - 0 reviews
- r-sample-tools** (R): 'Sample tools illustrating R usage in geoprocessing scripts' - 0 reviews

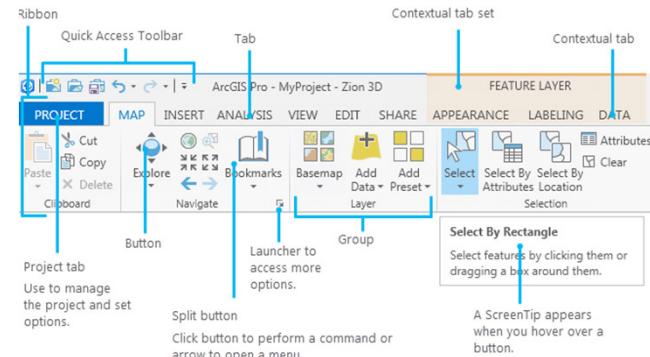
# Esri UC Top 10

## 1 – Vector Tiles Support

Fast. Dynamic interactive cartography can be customized, removes need to pre-cache different styled tiles. Provides access to underlying data. Rotate labels & symbols as map is rotated.



# ArcGIS Pro



- It IS what users have been pleading for:
  - Not a response to any other product, company, or effort
  - A decade in the making. Built for Web GIS.
  - 64-Bit & true multithreading
  - Faster geoprocessing
  - Project-based (*multi-layout, i.e. old ArcView*)
  - New graphics engine (*leverage CPU & GPU where appropriate*)
  - Updated UI (*Ribbon interface, i.e. MS Office*)
  - SxS Deployment w/ existing ArcGIS Products
    - Version agnostic
    - Next generation of ArcGIS for Desktop
    - Evolving as “Platform” evolves
    - Allows for incremental release of new features & functionality
    - Not repeating past rollout mistakes (7.x/8.x)

# ***GIS is Evolving***

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Are you ready?

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**Questions?**