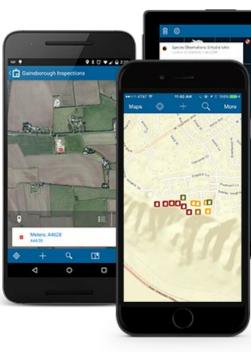
Efficient Field Data Collection with GIS





Clemson Center for Geospatial Technologies

▶<u>www.clemsongis.org</u>





Workshop Objectives and Outline

You will be introduced to applications for creating and editing GIS data using mobile devices.

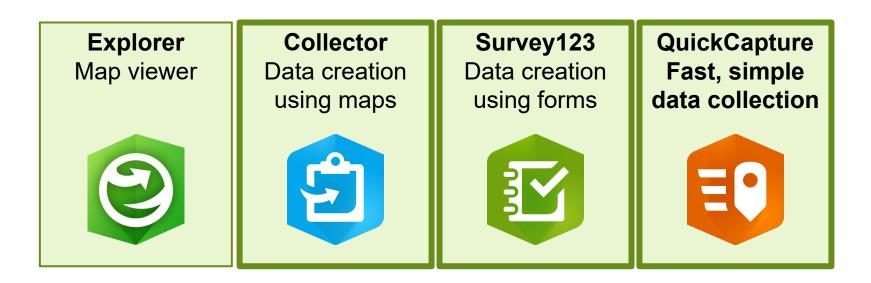
- Explore Collector and Survey123 for ArcGIS
- Data design and authoring
- Creating maps and forms specifically for field use
- Compare various use cases for best app to use
- Hands-on exercises: mapping and asset inspections in the field





ArcGIS Field Apps

Esri has several apps for collecting data in the field with different capabilities



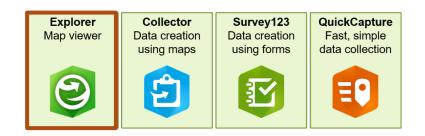


Explorer for ArcGIS

Explorer is a **map viewer** application for locating assets and making notes in the field

- Native iOS and Android app
- Allows maps and GIS data to be viewed and used by you and/or others
- Shares GIS information with nonspecialists
- Search for specific assets in a database
- Locate and navigate to selected assets
- Draw a markup layer on the map with notes and share back to ArcGIS Online







Collector for ArcGIS

Collector is a map-centric application for creating features in the field

- iOS and Android
- Create/edit points, lines, polygons
- Offline option
- Customize the map to your needs
- Multiple editors simultaneously
- Various user roles editor, updater, viewer
- Database created in ArcGIS Pro or Online







Survey I 23 for ArcGIS

Survey123 is a form-centric application for collecting data in the field

- Native iOS and Android app or access via web browser
- Create point features
- Conditional (if/then) logic
- Multiple editors and roles
- Easy set up via web
- Quick data analytics
- Desktop application for advanced features



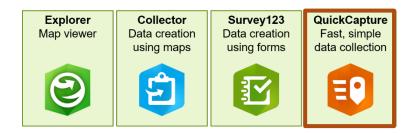


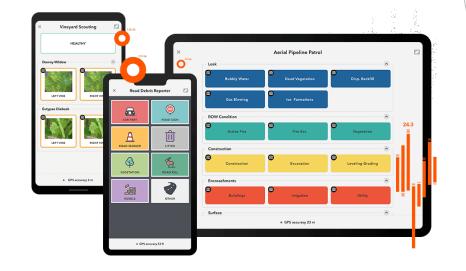


ArcGIS QuickCapture

QuickCapture is for rapid data collection of features while moving

- iOS, Android, Windows
- Create/edit points, lines, polygons
- Intuitive push-button interface needs little training
- Simple attribute tagging
- Publishes instantly to ArcGIS Online to leverage data rapidly
- ► Form set up in ArcGIS Online
- <u>https://www.youtube.com/watch?v=tSpLw-EtMm0</u>







Workshop Tutorials

The tutorial instructions are located at the CCGT Workshops page:

www.bit.ly/clemsongis



Comparing App Capabilities

	Survey123 for ArcGIS	Collector for ArcGIS
Types of data collected	Points only (Browser) Points, lines, polygons (Desktop)	Points, lines, and polygons
Work offline	Yes	Yes
Edit existing data	Yes	Yes
Anonymous access allowed	Yes	No
Conditional (if) statements	Yes	No
Supports external GNSS receivers	Yes	Yes, with full metadata
Platforms	iOS, Android, Windows (7,8,10), Mac, Linux, Web	iOS, Android, Windows Mobile
Data collection style	Form Centric	Map Centric
Map customization	Only Desktop version	Yes



Which application do I choose?

Need to crowd-source locations of animal sightings around city

- Survey123
 - Simple form accessed over the web
 - ► No user account required
 - Nothing to download
 - Do you need to customize the map? Survey123 Desktop Version required





Which application do I choose?

- Perform inspections in the field where data/WiFi is not available
- Survey123 or Collector
- What type of interface is better for you? Map or form?
- Do you need to customize the map?
- Do you need to record lines? Polygons?
- Are there lots and lots of attribute categories?
- Do some attributes depend on others?
- How complex is the asset?

Depends Collector Survey 123 Survey 123 Depends





Provide Your Feedback

Thank you for attending. Please provide your comments at:

www.bit.ly/ccgtfeedback

