



# Geocortex Data Collection Options

Mark McCart  
Iowa DOT/HNTB

AASHTO/GOTUG Webinar | June 1, 2016

---

# What is Geocortex

- Developed by Latitude Geographics
- Powerful Framework Built on Esri Platform
- Esri Platinum Partner
- Serves as an alternative to custom development
- Geocortex Essentials
- HTML5 Viewer
- Mobile App Framework
- COTS Solution

# Current Options

- Web browser based solution
  - Limitations in offline connectivity
- Native Mobile App Development
  - Using native API – Object C, JavaScript, .NET, etc.
  - Must code for each device type – significant
- Esri Collector App
- AppStudio for ArcGIS
  - Built using QT (C++)
  - In Beta
  - Point-Click Application Development
- ArcGIS Runtime SDK
  - Limitless possibilities – must build from scratch
  - A lot of coding

# Geocortex Viewer for HTML5

- Web Application
- Online Editing
- Customizable/Extensible
- Integrates with AGOL and Portal
- Does not support offline editing a web environment as of today

# Hybrid Development Model

- Native App
- Built in JavaScript/HTML5
- Thin shell
- Can use Cordova to build apps on
- Online/Offline Editing
- Supports iOS 7, 8, Windows 7 & 8, Android 4.0.3+
- Uses HTML5 Viewer and Mobile App Framework



# Hybrid Development Model

- Bridges gap between Web and Native





Using the Browser Only  
10MB Storage Capacity  
No Offline Support

OR

Using Geocortex Mobile App Framework  
Full Device Storage Capacity  
Offline Support

## Geocortex Mobile Offline Administrator User Experience: **Present**

- 1 Publish basemaps and feature services using ArcGIS



- 2 Generate and publish offline basemap TPK(s) using ArcGIS



- 3 Configure and publish a viewer using Geocortex Essentials Manager



- 4 Generate and publish offline bundle from viewer configuration



- 5 Associate basemap(s) in the viewer with offline basemap(s)



- 6 Work with Latitude to acquire and publish the Geocortex Mobile App Framework





## Geocortex Mobile Offline End-User Experience: Present

- 1 Install Geocortex mobile app framework on device



- 2 Download / copy offline basemap to device



- 3 Load HTML5 viewer onto device



- 4
- 
- Choose Map Extent
- Choose Layers

- 5 Perform **first sync** to download offline bundle and data



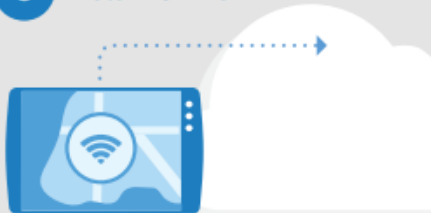
- 6 Enter offline mode



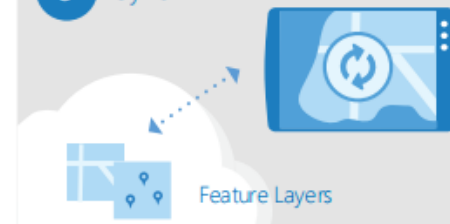
- 7 Edit (add, update, delete features)



- 8 Return online



- 9 Sync



# Offline Capabilities

- Uses Esri's Replica Synch technology to go offline
- Can take all types of data – mini databases on device (limited to your data device storage)
- Full Text Searches
- Complex geospatial searches

# Why Geocortex?

- If Collector App or Survey 123 can meet your needs, great, use them!
- Do you need customizable entry forms?
  - Cascading combo boxes
- Do you want to integrate geoprocessing services while you collect?
  - Geofences?
  - Populate fields based on location?
- Your organization doesn't have a mobile app development team?

# Questions?

- Mark McCart – [mark.mccart@dot.iowa.gov](mailto:mark.mccart@dot.iowa.gov)
- [www.geocortex.com](http://www.geocortex.com)