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
   - ArcGIS → Basemap → Feature Layers

2. Generate and publish offline basemap TPK(s) using ArcGIS
   - ArcGIS → Offline Basemap

3. Configure and publish a viewer using Geocortex Essentials Manager
   - Viewer config → HTML → 5

4. Generate and publish offline bundle from viewer configuration
   - Viewer config → Offline bundle

5. Associate basemap(s) in the viewer with offline basemap(s)
   - Basemap in viewer → Offline basemap

6. Work with Latitude to acquire and publish the Geocortex Mobile App Framework
   - Latitude Geographics Support → Administrator → 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 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
- www.geocortex.com