# Forfeiture Data Collection

## Mobile App with Collector for ArcGIS

Allegan County GIS
www.allegancounty.org/gis

August 6, 2018

# Contents

## 0.1 Forfeiture Data Collection

### 0.1.1 Problem and Analysis

**Background**

Treasurer department has an annual responsibility to properly document the tax forfeiture process. The LIS Department built an application in MS Access and MapInfo that consumed a daily export from BSA and was deployed to the field on a laptop. A digital camera was used for site photos and later imported into the laptop.

**Statement of Problem**

Current Tax Forfeiture workflow is built on MapInfo software which has been replaced by ESRI software. The Forfeiture data collection application must be recreated in the ESRI framework.

**Analysis**

Tax Forfeiture Application will facilitate:

- Mobile data collection on handheld device via Collector for ArcGIS configured with Allegan County GIS Portal (**device app**)

    - Device app will:

        * Synchronize with data in the office (online)
        * Navigate to forfeiture sites (offline)
        * Collect data and photos of forfeiture sites (offline)
        * Synchronize the collected data with data in the office (online)

- Daily form production and printing for each site visited with required data and images.

### 0.1.2 Design

**Forfeiture Data Collection**
Three parts of the daily routine:

1. Pre-processing (in the office):

   - Export current forfeiture list from BSA
   - Update webmap layers with results from BSA export
   - Synchronize from webmap layers to field collection device **(device app)**

2. Field data collection with device app:

   - Support navigation to forfeiture sites
   - Provide a checklist of data points about the site
   - Attach photos to the site
   - Save results for synchronization in post-processing

3. Post-processing (in the office)

   - Synchronize data and images collected in device app to webmap layers

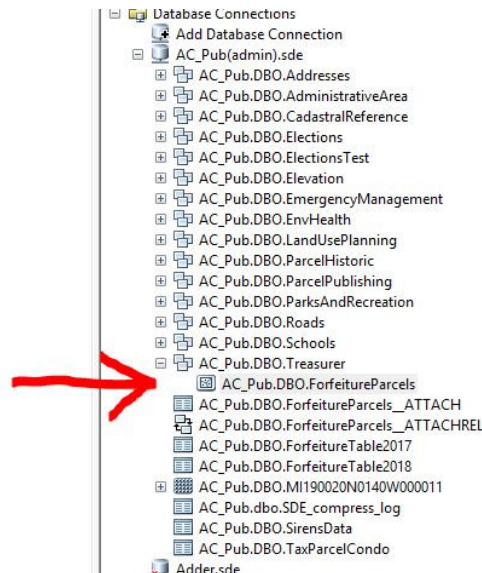**Backend Data Details**
Location of production data:



Figure 1: live data

**ForfeitureParcels Feature Class**

**Collector Setup Details**

Install Collector for ArcGIS from Google Play Store

### 0.1.3  Hard Copy Record

### 0.1.4  User Manual

### 0.1.5   Software