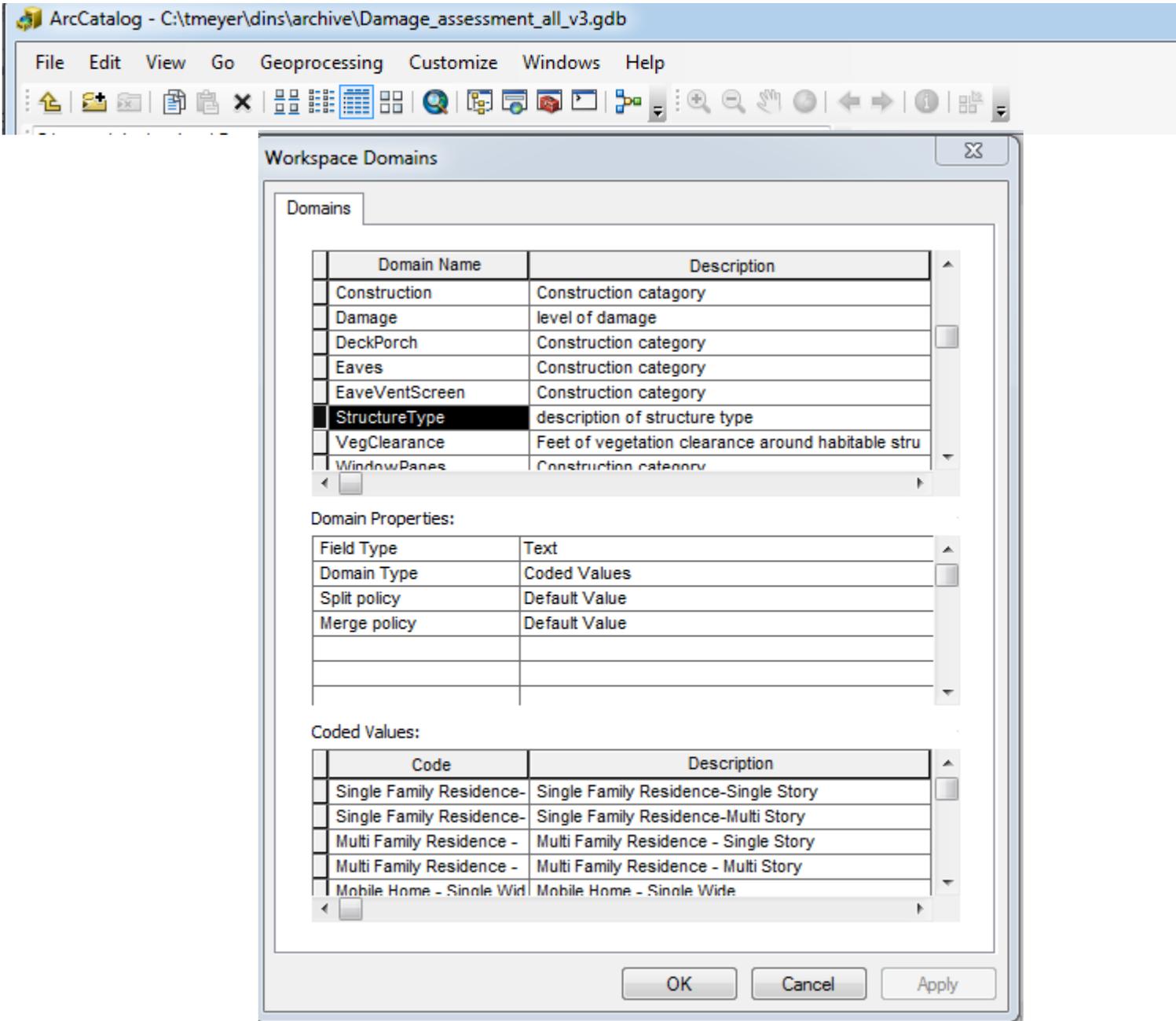


# Using ARCGIS On Line (AGOL) for Damage Assessment



# 1. Create point feature database, attributes with domains in ArcCatalog



## 2. Publish Feature Service with symbology in ArcMap

The screenshot displays the ArcMap interface with the Service Editor dialog box open. The main window shows a map titled "DINS\_template.mxd - ArcMap" with a toolbar and menu bar. The Table of Contents on the left lists the "DamageAssessment" layer with five categories: "Destroyed" (red house icon), "10-25%" (brown house icon), "26-50%" (yellow house icon), "51-75%" (orange house icon), and "Unknown" (black house icon). The Service Editor dialog box is titled "Service Editor" and shows the connection "My Hosted Services" and service name "DINS\_template2". The "Parameters" tab is selected, showing options for "Anti-Aliasing" (set to "Best"), "Text Anti-Aliasing" (set to "Force"), and "Properties" (Maximum number of records returned by the server: 1000). The "Advanced Settings" button is visible below the properties section.

Table of Contents

- Layers
  - DamageAssessment
    - Damaged
      - Destroyed
      - 10-25%
      - 26-50%
      - 51-75%
      - Unknown

Service Editor

Connection: My Hosted Services Service Name: DINS\_template2

Parameters

Capabilities

Tiled Mapping

Caching

Advanced Settings

Item Description

Sharing

Parameters

Anti-Aliasing: Best

Text Anti-Aliasing: Force

Properties

Maximum number of records returned by the server: 1000

Advanced...

Prepare

0 Errors 0 Warnings 0 Messages

Severity	Status	Code	Description
----------	--------	------	-------------

### 3. Create a webmap to serve feature layer to populate from Collector App

HOME ▾ 2015 Round Damage Assessment Data Collection NEW MAP CREATE PRESENTATION  Tiffany ▾

[Details](#) [Add ▾](#) [Edit](#) [Basemap](#) | [Save ▾](#) [Share](#) [Print](#) [Directions](#) [Measure](#) [Bookmarks](#)

[About](#) [Content](#) [Legend](#)

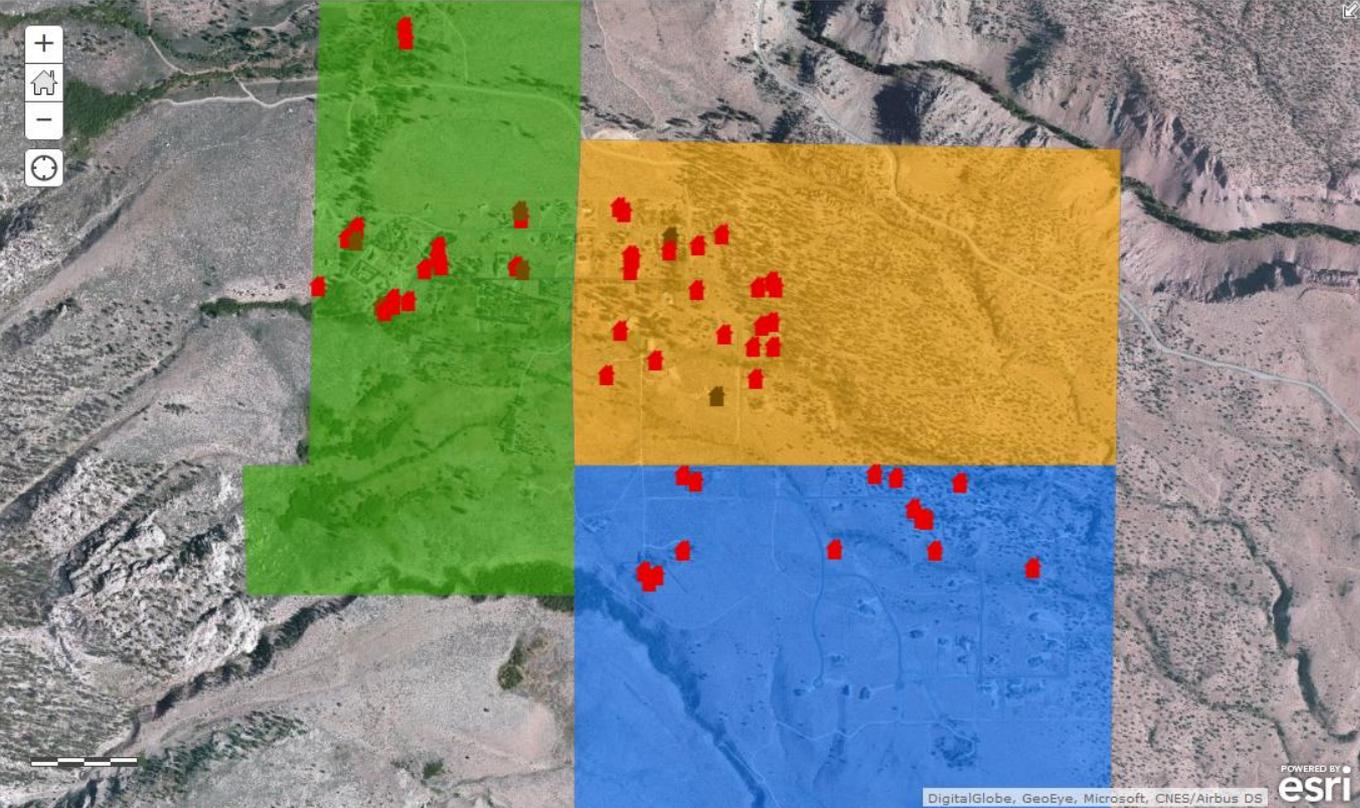
#### Legend

**2015 Round DINS - DamageAssessment**

-  Destroyed
-  51-75%
-  26-50%
-  10-25%
-  Unknown

**Round\_Survey\_Zone - Survey\_Zones**

-  Blue
-  Green
-  Orange



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DigitalGlobe, GeoEye, Microsoft, CNES/Airbus DS

## 4. Configure feature layer for easier editing in Collector App:

- turn off extra attributes
- enable attachments
- share with user group
- set project bookmarks and base layer

The screenshot shows the Collector App interface with a 'Configure Attributes' dialog box open. The dialog box has a title bar with a close button (X) and a subtitle: 'Check the fields you want to display and edit. Select a field to change its alias, order it, and format it.' Below the subtitle is a table with columns for 'Display', 'Edit', 'Field Name', and 'Field Alias'. The table contains the following rows:

Display	Edit	Field Name	Field Alias
<input type="checkbox"/>	<input type="checkbox"/>	{Incident_Num}	Incident_num
<input type="checkbox"/>	<input type="checkbox"/>	{Incident_Name}	Incident_Name
<input type="checkbox"/>	<input type="checkbox"/>	{Incident_StartDate}	Incident_StartDate
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	{Veg_Clearance}	Veg_Clearance
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	{StructureType}	StructureType
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	{RoofConstruction}	RoofConstruction
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	{WindowPanes}	WindowPains

At the bottom of the dialog box are 'OK' and 'CANCEL' buttons. The background shows a map with a feature layer and a pop-up window. The pop-up window has a title 'Figure Pop-up' and a subtitle '5 Round DINS - DamageAssessment'. It contains a 'Pop-up Title' field with the value 'DamageAssessment: {streetName}' and a 'Pop-up Contents' section with a dropdown menu set to 'A list of field attributes'. The map shows a feature layer with a red marker and a blue area. The bottom of the screen shows the Esri logo and the text 'POWERED BY DigitalGlobe, GeoEye, Microsoft, CNES/Airbus DS'.

## 5. Collect field data and photos in Collector App

AT&T LTE 11:19 AM

Cancel    Submit

 **Location**  10  
Lat: 32.133185° Long: -110.922407°

---

**DamageAssessment:**

Community  
**Swall Meadows** >

---

Damage  
**Destroyed** >

---

VegClearance  
**60-100 feet** >

---

PRC4291Compliant  
**Compliant** >

---

StructureType  
**Single Family Residence-Single Story** >

---

RoofConstruction  
**Non-Combustible** >

---

WindowPanes  
**unknown** >

---

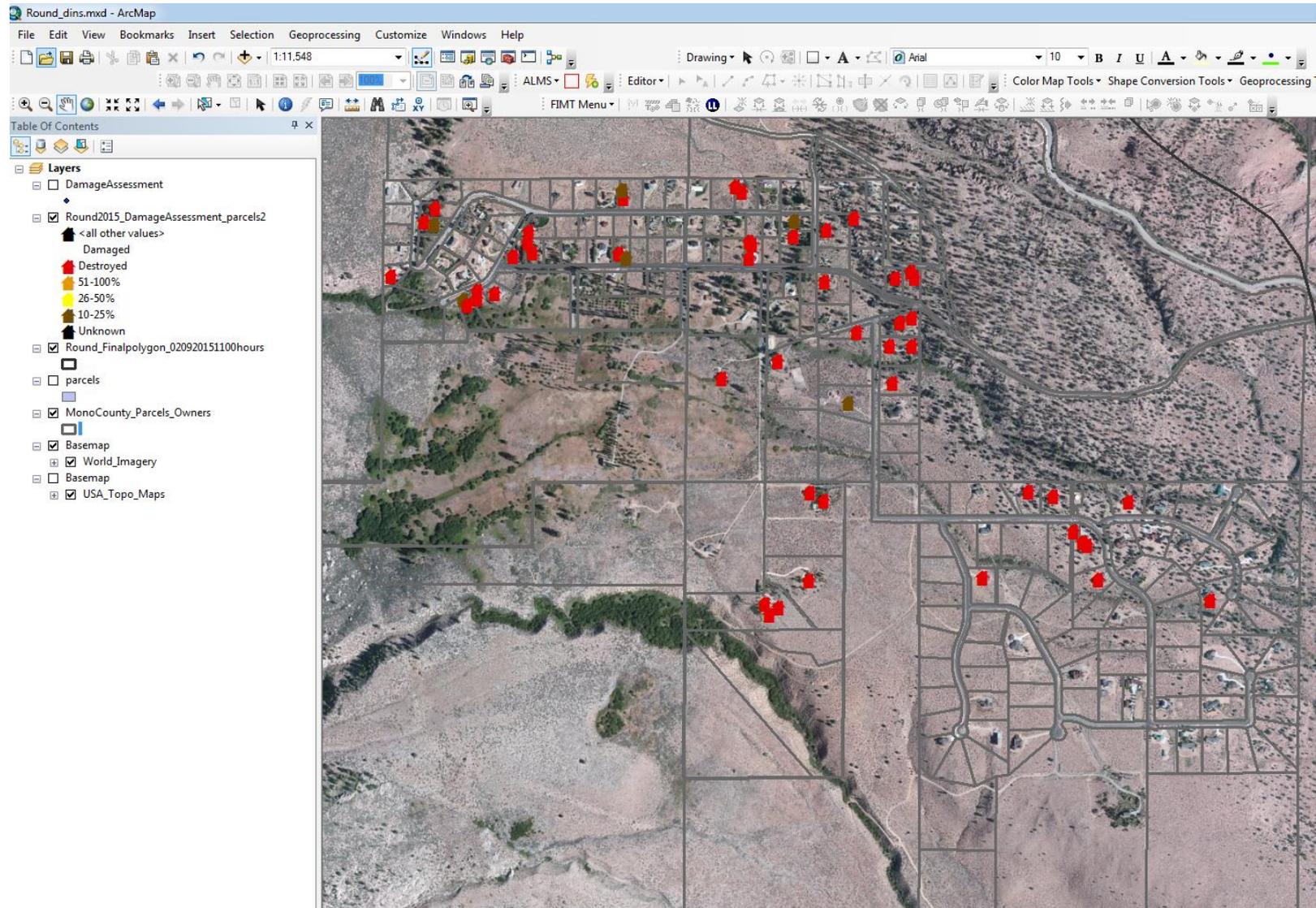
ExteriorSiding  
**unknown** >

---

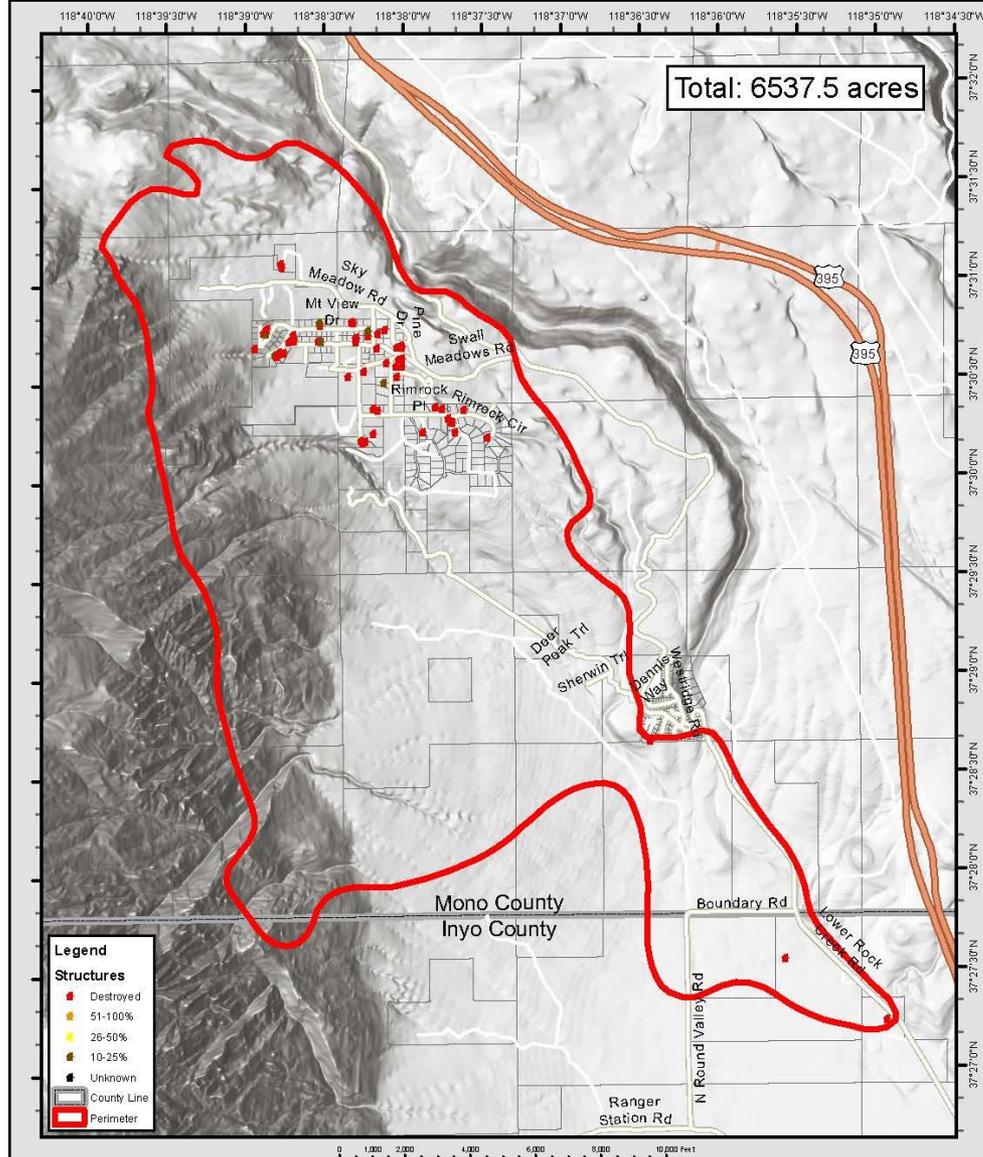
Eaves  
**unknown** >



## 6. Export data to FGB to reconcile and quality check spatial data, attributes data, extract photos, create maps and spatial overlays.



# Fire Perimeter, Final



CABDU-001662 ROUND INCIDENT

Tom Knecht, F.C.  
NAD 83  
1:48,000  
2/10/2015 11:41:47 AM





# Individual Damage Inspection Detail

Start Date 2/6/2015 Incident Name Round

Incident Number CA-BDU-1662

Record ID 97-1

APN 64100022000 Address 97 Valley View Road

City CA CA Zip 93514

Structure Type Single Family Residence-Single Story

Damage Destroyed

Assessed Improvement Value \$177,602.00

ACREAGE 2.05

Post Fire - Estimated Vegetation Clearance 30-60

Roof Construction Non-Combustible

Deck or Porch present unknown

Window Panes Multi-Pane

Eave Vent Screen

Eaves unknown

[photoID](#) 7A089789-55B0-42B4-B563-E14369B00901.jpg



# **AGOL and Collector App**

## **PROS**

- **Improved data accuracy: Location and attribute data entry**
- **Easy data collection for Field Observers**
- **Easy data sharing**
- **Easy configuration and setup**
- **Eliminates manual data entry**

## **CONS**

- **Dependent on bandwidth (uploading and downloading data)**
- **Hidden bugs and quirks (editable layers, domains)**
- **Limited map and reporting capabilities**
- **Photo management is clumsy**