What is OSD-CI?

- **Open Sourcing the Design of Civil Infrastructure**
- Crowd Sourcing – use the crowd to do work
- Civil Engineering – crowd is mix of experts and non experts
- Citizen Engineering
- Dr. Greg Madey & Co.
  - Civil EG, Sociology, Comp Sci
Ex: Earthquakes in Haiti

• Gathered thousands of pictures of damage
• Website – tutorial, activity
• Mainly crowd sourcing experiment
• Create a community using the crowd
• Tiers of involvement / skill
My Project

- Android App for OSD-CI Project
- Basic Uses
  - Take pictures
  - Upload pictures
  - Tagged w/ metadata
Development Of Project

- Design
- Capture, Map, Feed, Twitter
- Implementation
  - Learn Android, put it all together
- Back End
  - Server for storage, website to analyze uploaded data
App Overview

Flutter. Uploading Pictures by the Wingbeat. Press and Hold on a Button to See What it Does

To Camera

To Map

To Feed

To Twitter

To Info Page

To OSD-CI
Choose Type of Disaster:
Earthquake

If you selected Other, please specify

Event Date (MMDDYY) *

Event Name (if Applicable)

Address *
Street

City

State/Province
## Flutter Data

<table>
<thead>
<tr>
<th>Image</th>
<th>Disaster Type</th>
<th>Event ID</th>
<th>Event Name</th>
<th>Survey Date</th>
<th>Street</th>
<th>City</th>
<th>State/Province</th>
<th>Zip</th>
<th>Country</th>
<th>Latitude</th>
<th>Longitude</th>
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<tbody>
<tr>
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<td>Earthquake</td>
<td>031491</td>
<td></td>
<td>2011-07-28</td>
<td>Infan</td>
<td>MD</td>
<td>IN</td>
<td>46556</td>
<td>United States</td>
<td>86.1,134,0</td>
<td>4897/1000</td>
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<td>Infan remodel</td>
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<td>Spencer and the university barber</td>
<td>2011-07-20</td>
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<td>Wall</td>
<td>2011-07-30</td>
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</tr>
</tbody>
</table>

**Log In**

- **Username**: admin
- **Password**: **********

**Menu**
- Home
- OSD_CI
- Login
Website Map

Flutter Data

Feature Coming Soon
Bringing It All Together

- **App**
  - MapView
    - Show GPS points on map from database
  - Feed
    - Pull info from database to show most recent uploads
  - Twitter?
    - Same as feed but through a twitter page

- **Website**
  - Google Maps view of distribution of points
  - Eventual UI for public
Possible Future?

Where to Go From Here?

- Team up with governments to encourage the public
- Use of twitter as “by the second” updates in disaster situations
- Login to create reliability and tiers
- iOS compatibility