MANAGING SAFETY ASSETS ON A UNIVERSITY CAMPUS

Mari Cruz Escarcega
MS GIS Program
University of Redlands
Partner

- University of Redlands Facilities Department
- Founded in 1906
- Provide maintenance and repair to 60 buildings
Campus Maps

Floor plan
Problem Statement

- Data exists in multiple formats
- Keeping data current
- Risk of loosing documentation
System Design

- Organizing data
- Developing Geodatabase
- Creating map layers
- Web Development
Data Types

Safety Assets

Floors

Rooms

Buildings

East Hall

Appleton Hall
Original Data
Data Scrubbing

- Organizing Data
- Data Input
- Merge
- Feature Classes
  - 2 Types

[Diagram showing layers and merge process]
Floor Definition Query

DataMerge

Definition Query:

"Floor" = '1'

Floor Level

Floor Level 1
Floor Level 2
Floor Level 3
Floor Level 4
Merge Polygons

Floor Level Feature Classes
Final Geoprocessing

Merge

Floors
Final Building Feature Classes

Buildings

Floors

Rooms
# Geodatabase

<table>
<thead>
<tr>
<th>Buildings</th>
<th>Floor Level</th>
<th>Room</th>
<th>Safety Assets</th>
</tr>
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<td>Rm_ID</td>
<td>Rm_No</td>
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<td>Inspection_Cycle</td>
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Cleaning My Room

Coding Standard

Campus use

Room description

Room type

11

1

4
Campus Use

Campus Use Areas
- Academic
- Administration
- Community
- Corridors
- Operations
- Plumbing Areas
- Residential
Room Types

Floor ID: APL 1
Rm No: 102
Rm Type: Classroom
Rm Description: <Null>
Campus Use: <Null>
Notes: Classroom Type 1
SQ_Footage: Classroom Type 2, Classroom Type 3

Room Type:
- Stairs
- Corridor
- Bathroom
- Kitchen
- Laundry
- Lab
- Classroom
- Work Room
- Lecture Hall
- Community Area
- Conference Room
- Office
- Storage
- Network Equipment
- Server
- Utility
- Roof Access
- Elevator
- Elevator Equipment
- Custodial
- Residence
Safety Assets

- Fire Bell
- Campus Shutoff
- Control Panel
- Fire Extinguisher
- Fire Pull
- Heat Detector
- OSY
- PIV
- Riser
- Smoke Detector
- Strobe
- Sub Panel
Data Comparison

Shapefile  Campus Use  PDF Documentation
Data is Organized
Publish Feature Services

Buildings Feature Service

Floors Feature Service

Rooms Feature Service

Safety Assets Feature Service
Web Widgets
Web Application Pop-Ups
Summary

• Data is available in a single location
• Identify where equipment is located
• Improve safety planning
Thank You
Mari Escarcega
909-725-8431
escarcega2@gmail.com