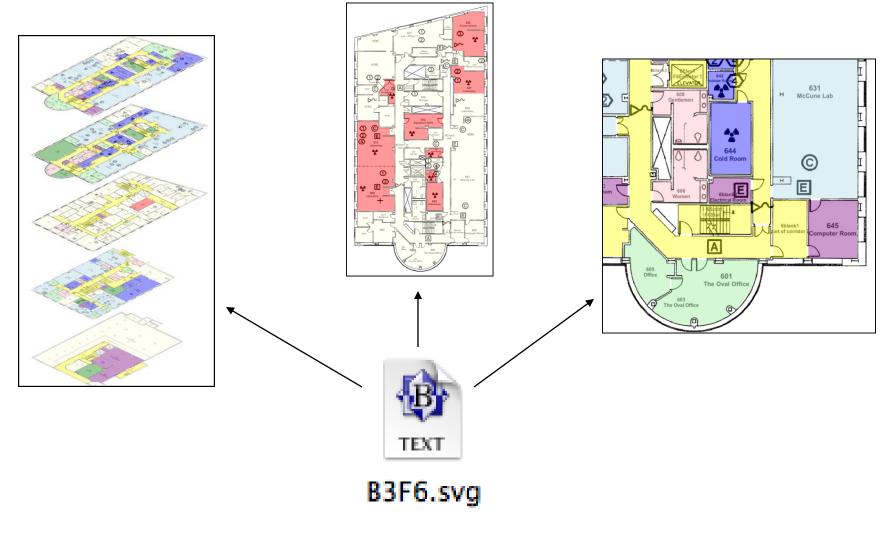
# OFPD/X Open Floor Plan Display & eXchange

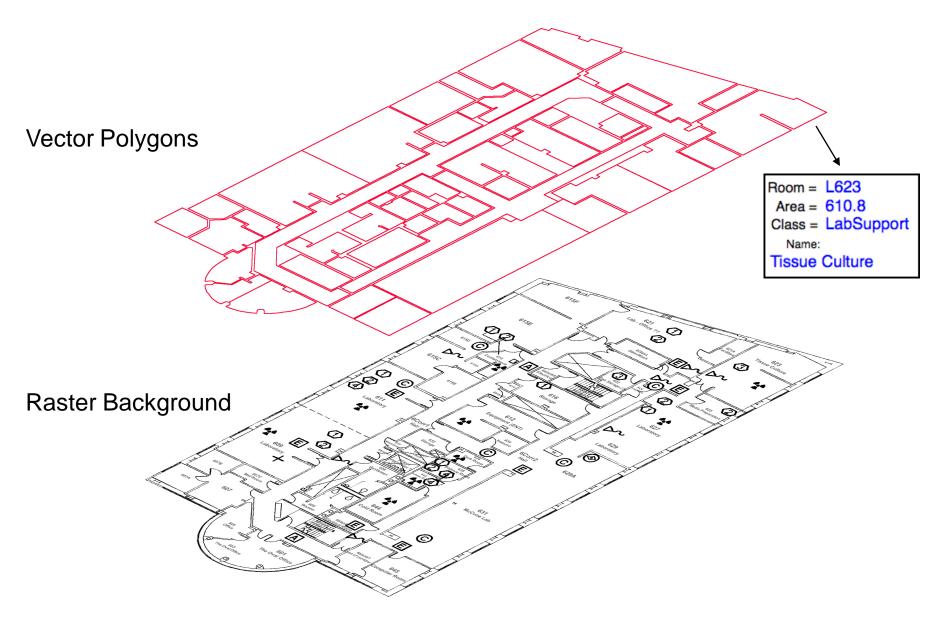
Progress Update October 2009

## Simple, Lightweight File Format

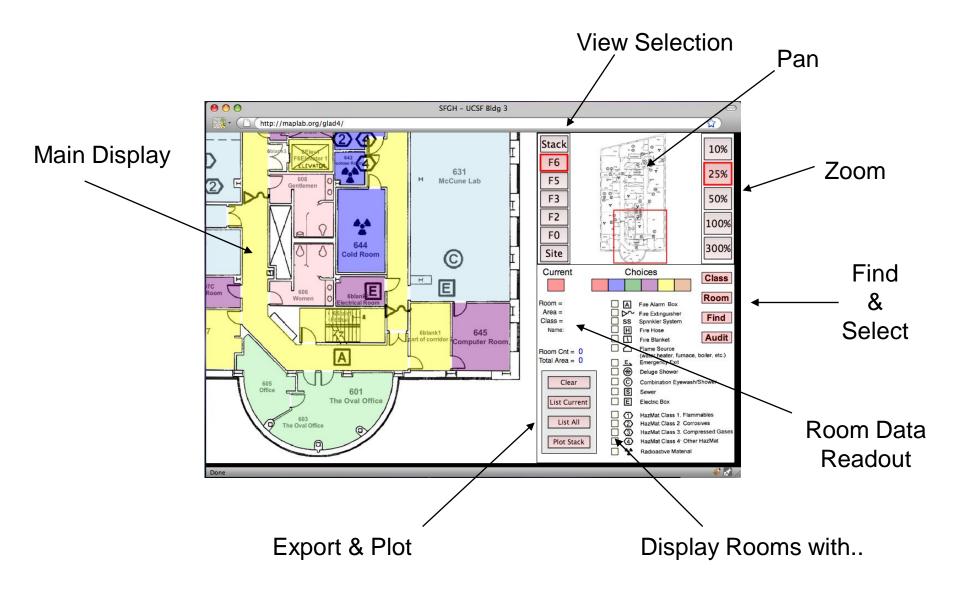


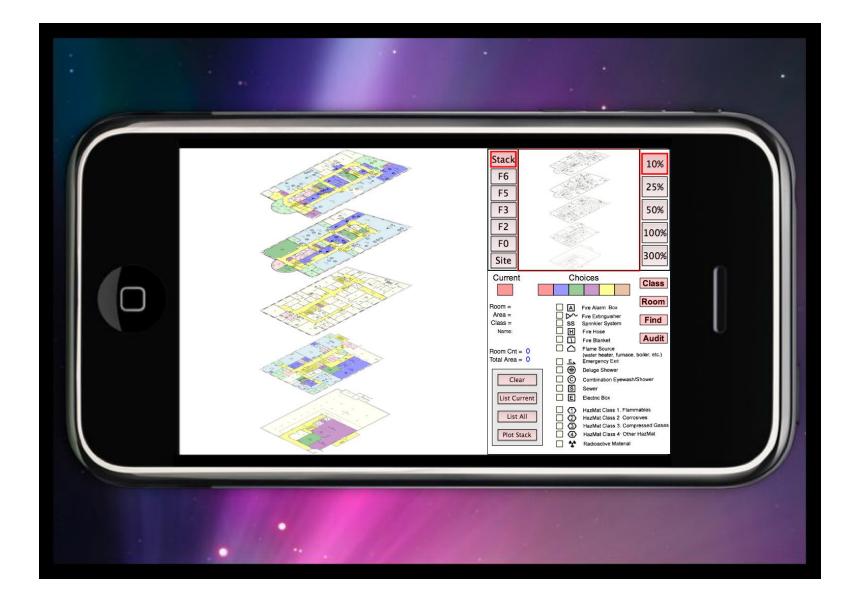
#### **Building Information Display**

#### **Basic Layer Composition**



#### **Simple Functionality**







#### **Open Floor Plan Display**

Project Prospectus

Presented by

SFC MapLab Project

Golden Gate Safety Network

and

Building Service Performance Project

Ontolog Forum

February 2009

## **Progress Since April**

### Organization

- Forming an expanded informal consortium with Golden Gate Safety Network, Carnegie Mellon, NASA, plus additional developers and emergency response practitioners
- Seeking a sponsor for funding

## **Progress Since April**

#### **Ontology creation and standardization**

- Creating a new OASIS Technical Committee
- Working with the EDXL and NIEM emergency management groups to provide a compatible open floor plan model
- Began formalizing and augmenting the current Open Floor Plan Display syntax into an ontology

## Plans

- First major prototype will be OFPD for FireFighter Tracking (with CMU & NASA)
- Looking for the right opportunity to demonstrate OFPD/X for Energy Analysis
- We expect to have a stable ontology completed by summer 2010, for submission through OASIS and harmonized with NIEM

#### Indoor / Outdoor FireFighter Tracking

SILICON VALLEY	ABOUT US   DIRECTORY   VISIT US   CONTACT US   GIVING   <u>CARNEGIE MELLON SILICON VALLEY</u>   > <u>Research</u> > Open Floor Plan Display
Academics Research Open Floor Plan Display Student Life News & Events Prospective Students Faculty & Staff Alumni Corporate Visitors	Open Floor Plan Display for   for   FireFighter Tracking   CMU is collaborating with the Golden Gate Safety Network to develop a format for displaying floor plan related building data for First Responder.   Major Benefits include:   • Interior Knowledge of a Complex and Dangerous Situation   • Ability to Plan the Best Route of Approach to Fire   • Quick Visibility of the Best Route to Exit   • Background for Real Time Tracking   • Powerful Tool For:   • Training and Exercises   • Damage Assessment   • Search and Rescue

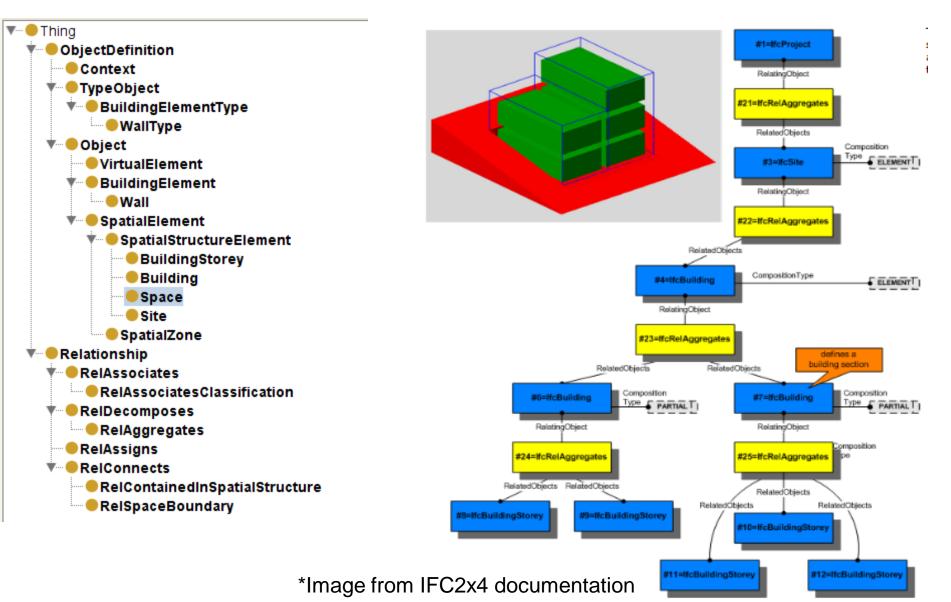
## Example: Ontology Requirement (Spatial Structure)

- A "space" in a facility is where an event occurs. Understanding and responding to an event requires knowledge of the space's function, associated building elements, associated objects in or near the space, and relationship to other spaces within the facility with respect to the context of the event.
- Facility's spatial structure elements
  - Identifiable
  - Classified by function and (optionally?) by form
  - Associated with building elements
  - Relationship to other spaces

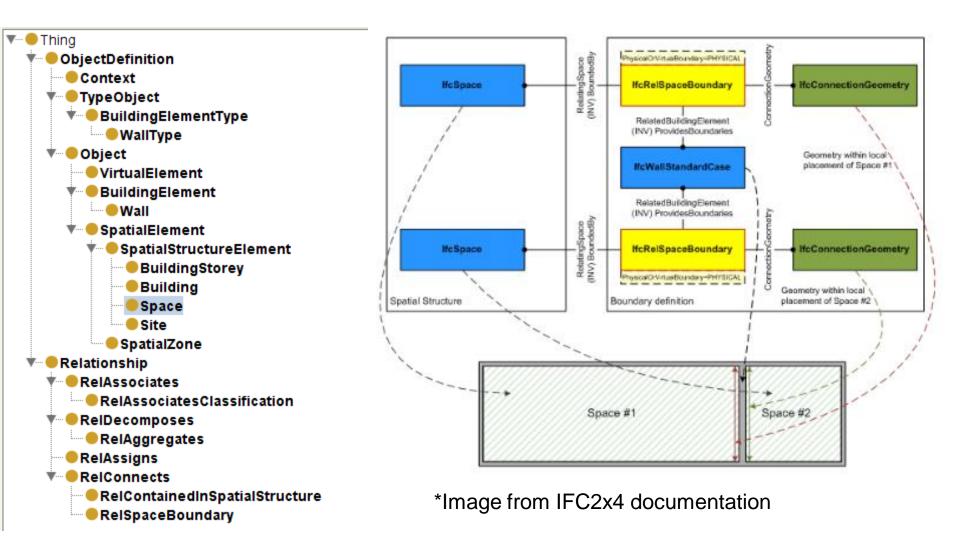
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## **Spatial Decomposition**

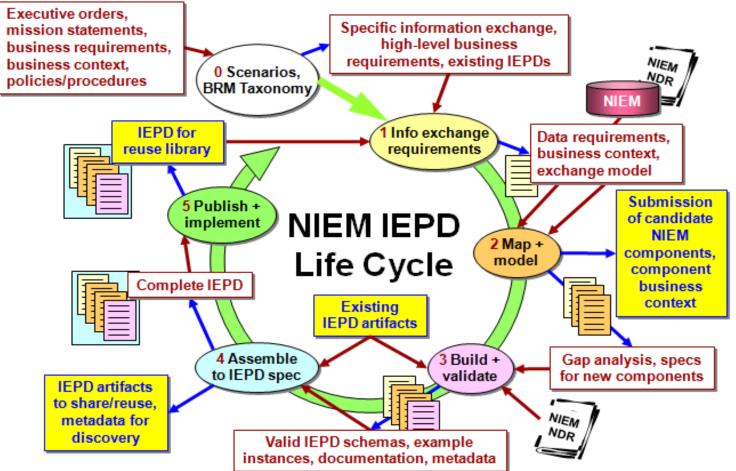
Spatial Structure Use Definition



## **Spatial Connection**



# Information Exchange Package Documentation Life Cycle



\* http://www.niem.gov/pdf/HLTA-1\_1.pdf



