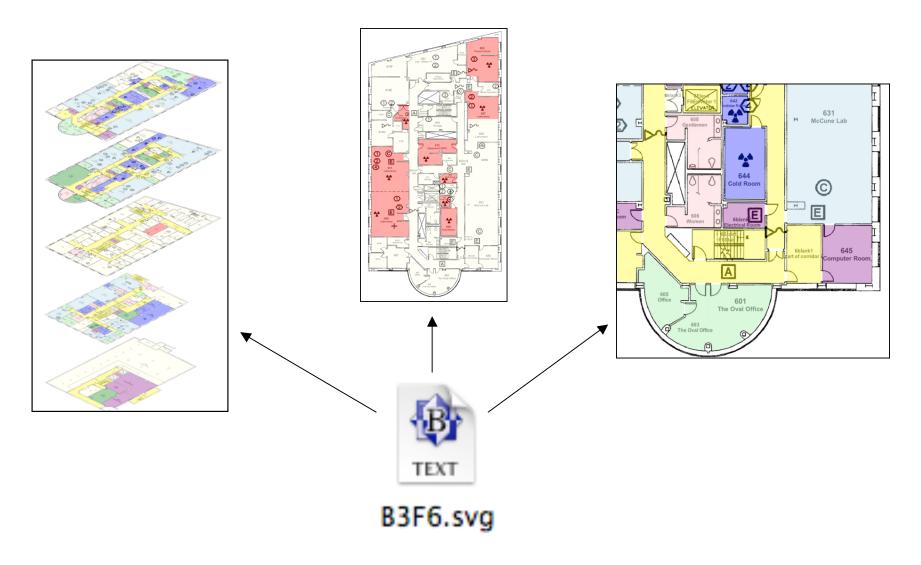
# OFPD/X Open Floor Plan Display & eXchange

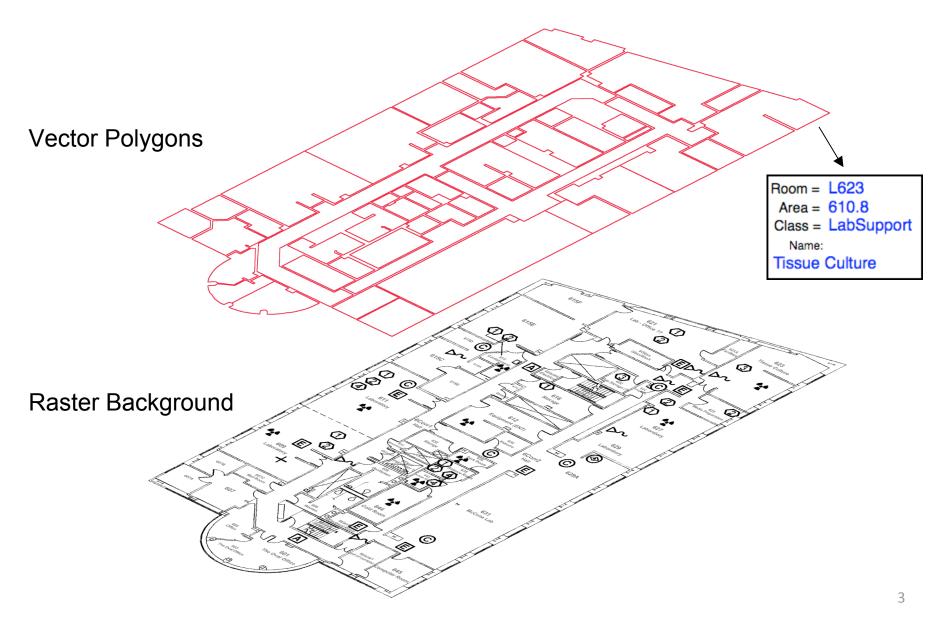
Progress Update October 2009

### Simple, Lightweight File Format

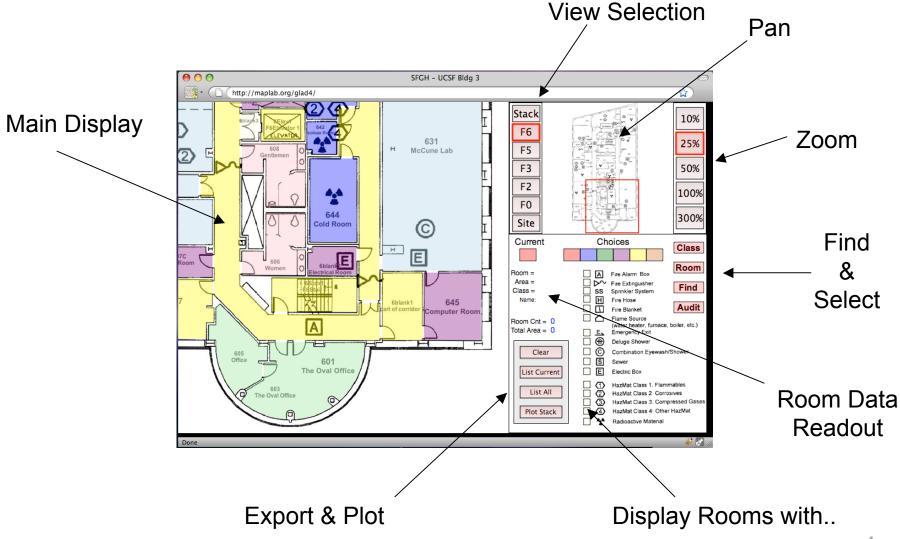


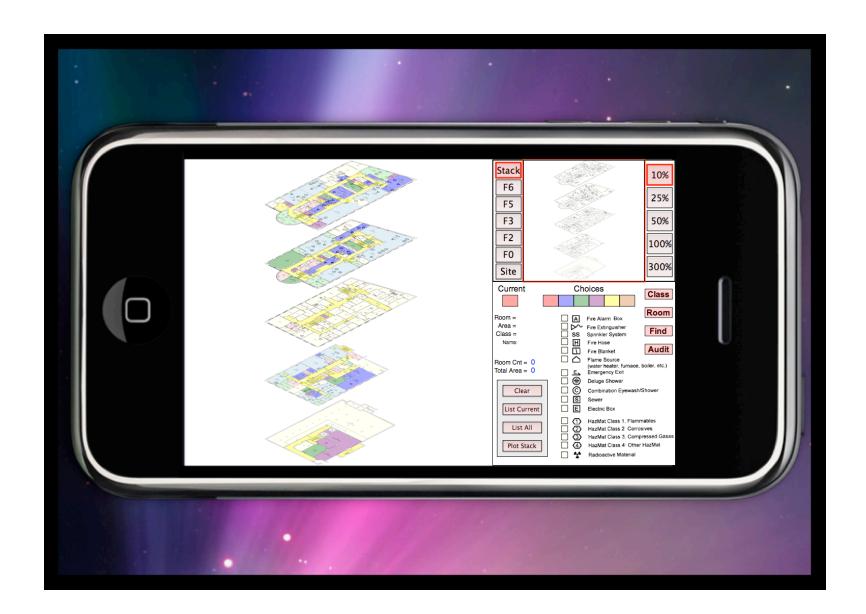
**Building Information Display** 

## **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

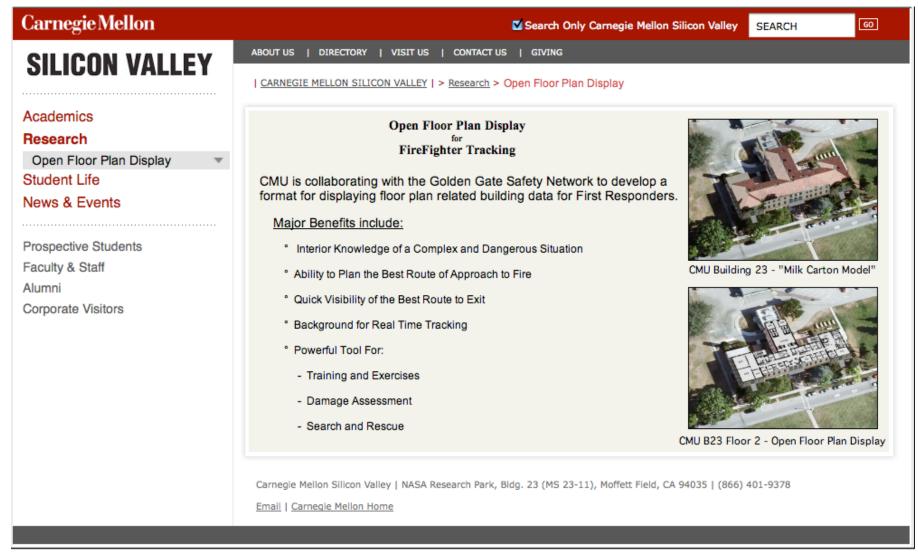
#### **Plans**

 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



# Example: Ontology Requirement (Spatial Structure)

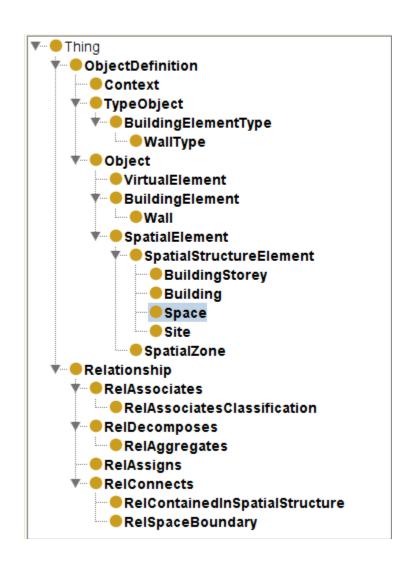
A "space" in a facility is where an event occurs.

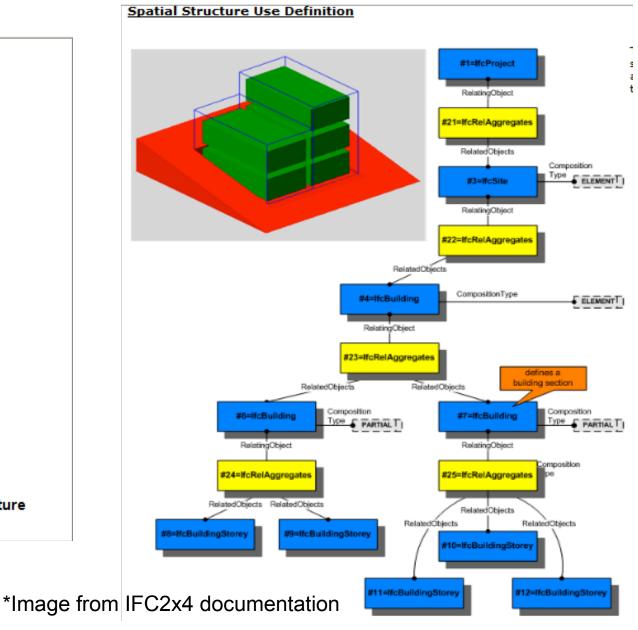
Understanding and responding to an event requires knowledge of the space's function, associated building elements, associated objects in or near the space, and relationship to other spaces within the facility with respect to the context of the event.

- Facility's spatial structure elements
  - Identifiable
  - Classified by function and (optionally?) by form
  - Associated with building elements
  - Relationship to other spaces

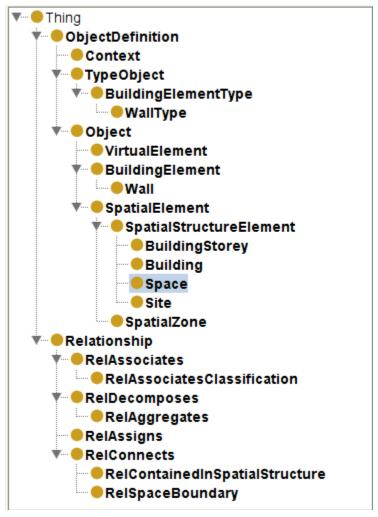
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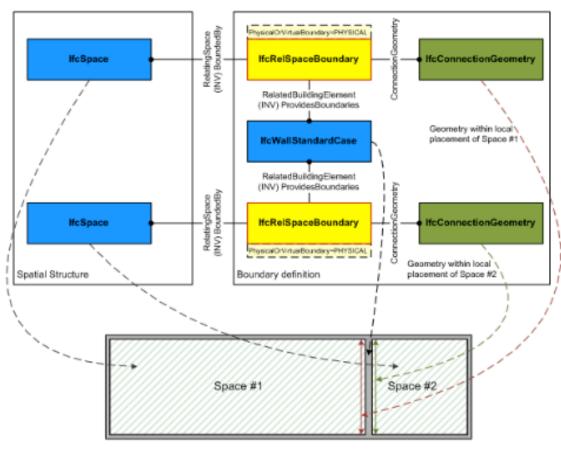
# **Spatial Decomposition**





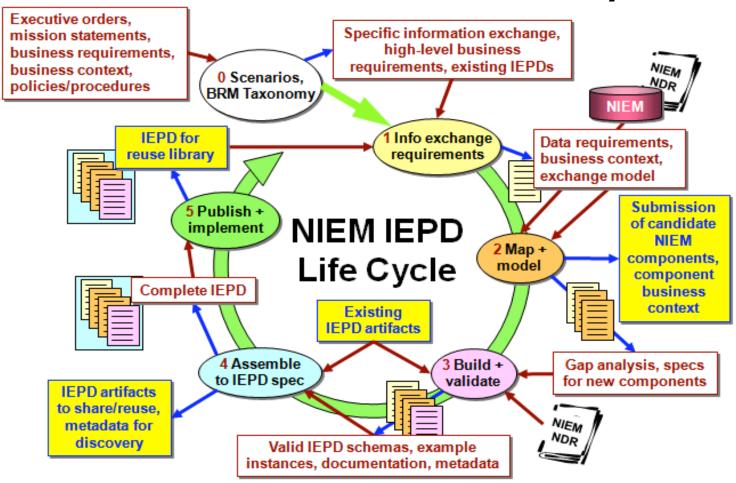
# **Spatial Connection**





\*Image from IFC2x4 documentation

# Information Exchange Package Documentation Life Cycle



<sup>\*</sup> http://www.niem.gov/pdf/HLTA-1 14pdf

