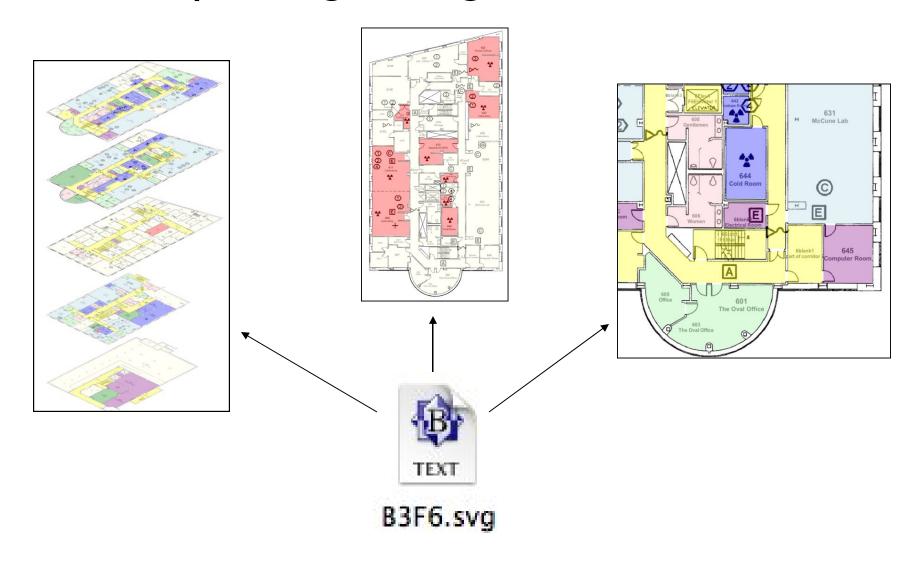
OFPD /X Open Floor Plan Display & eXchange

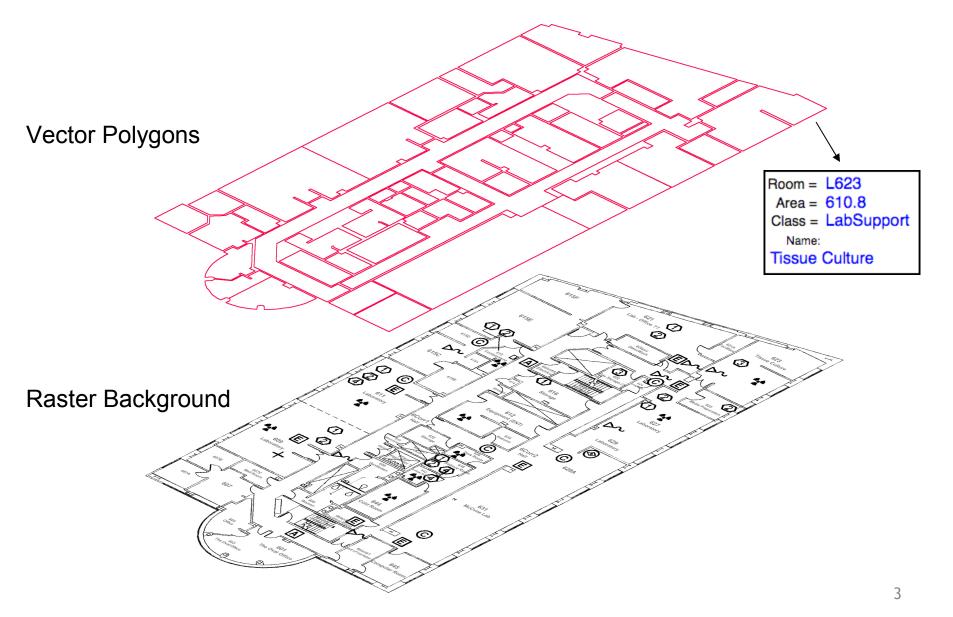
Progress Update October 2009

Simple, Lightweight File Format

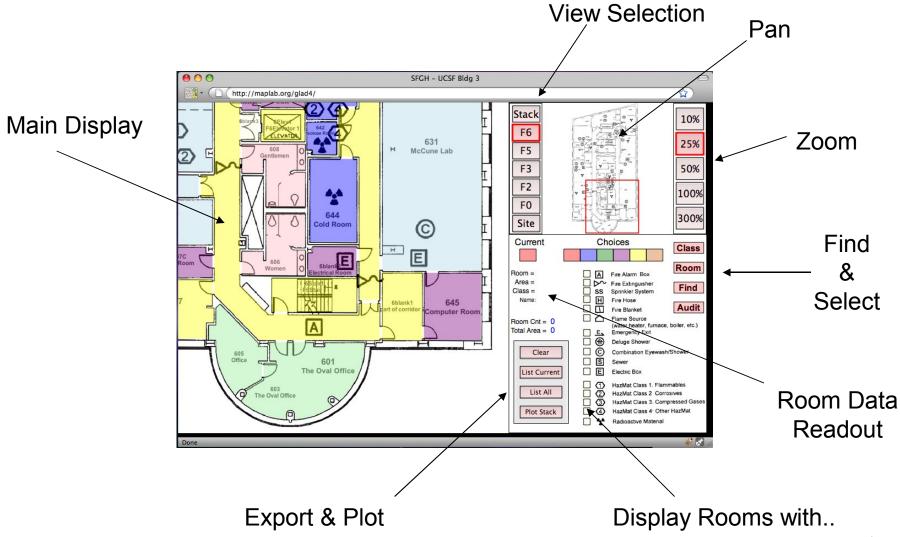


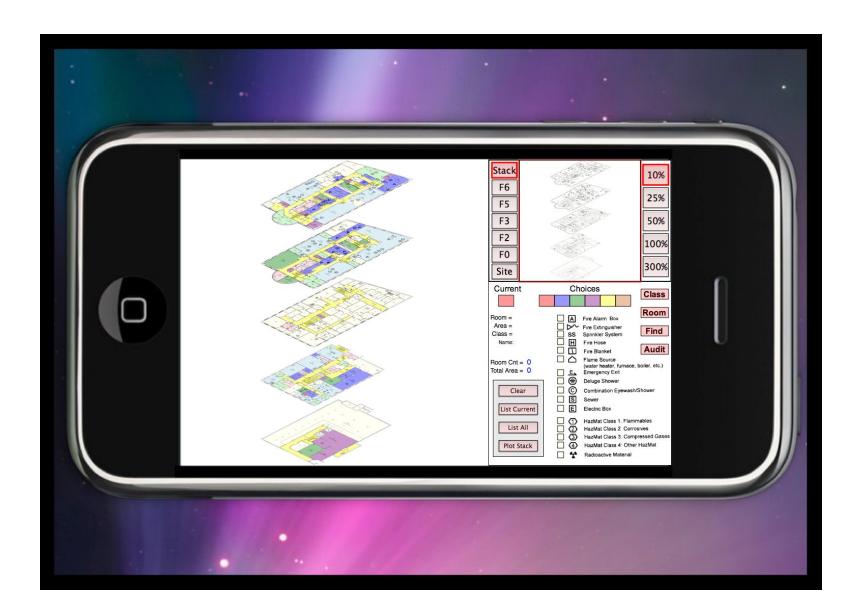
Building Information Display

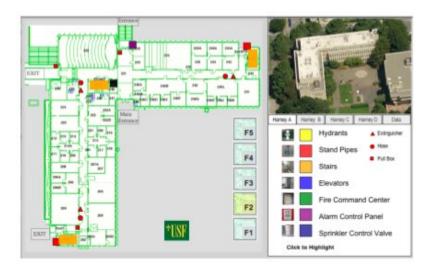
Basic Layer Composition



S imple 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 OAS IS 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

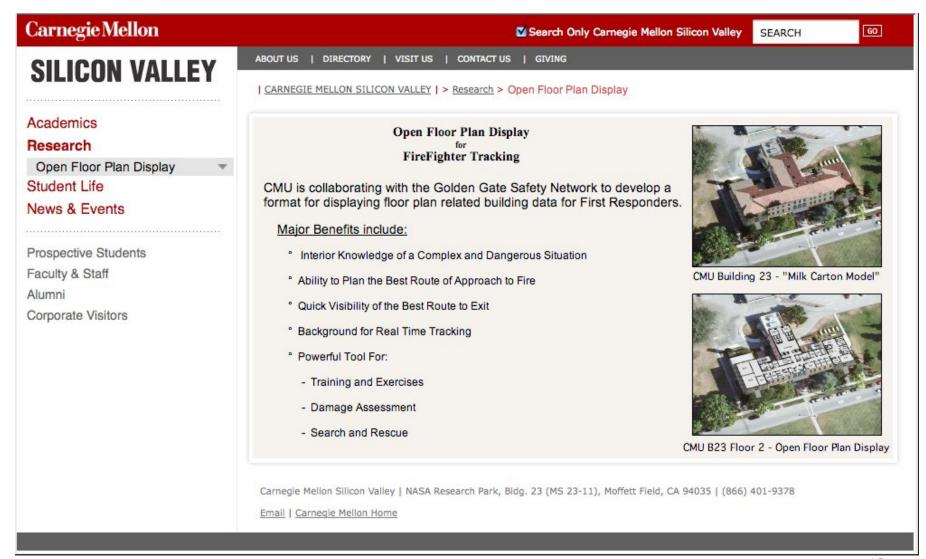
Plans

 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 OAS IS and harmonized with NIEM

Indoor / Outdoor FireFighter Tracking

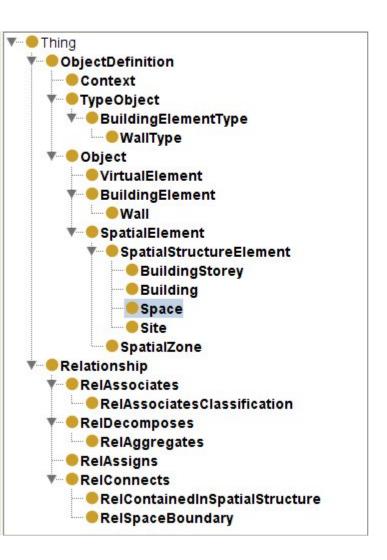


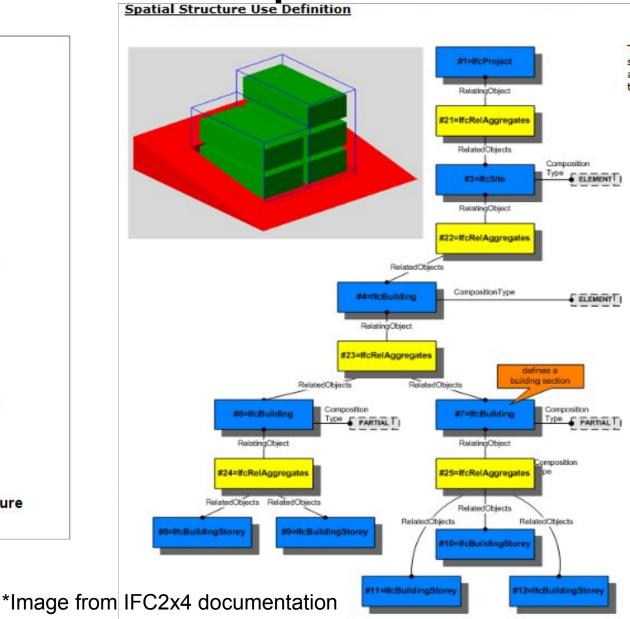
Example: Ontology Requirement (Spatial Structure)

- 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

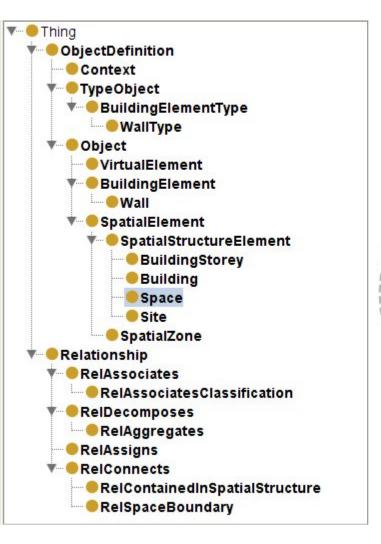
• ...

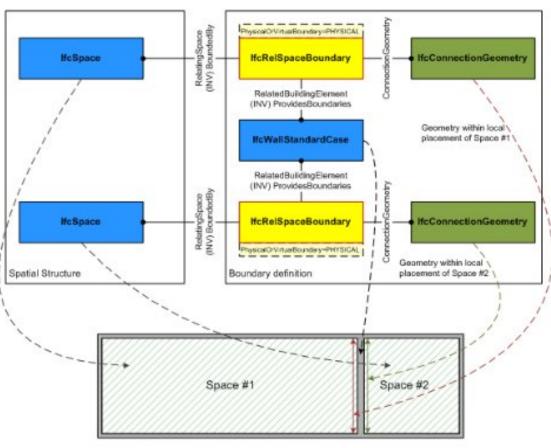
Spatial Decomposition





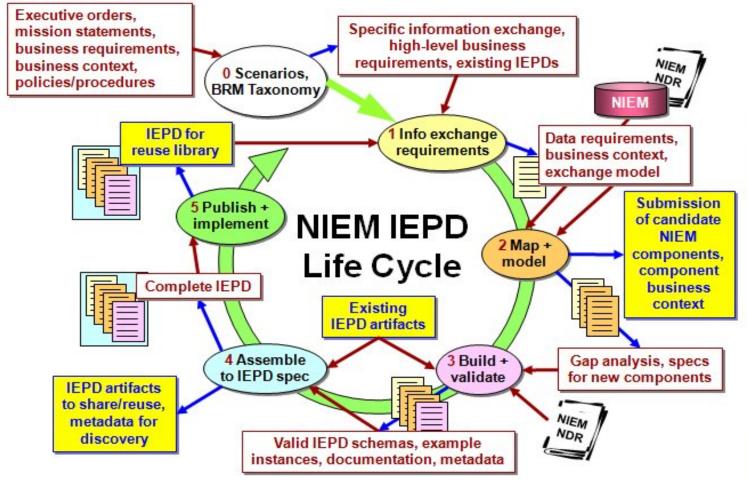
Spatial Connection





*Image from IFC2x4 documentation

Information Exchange Package Documentation Life Cycle



^{*} http://www.niem.gov/pdf/HLTA-1_14pdf



