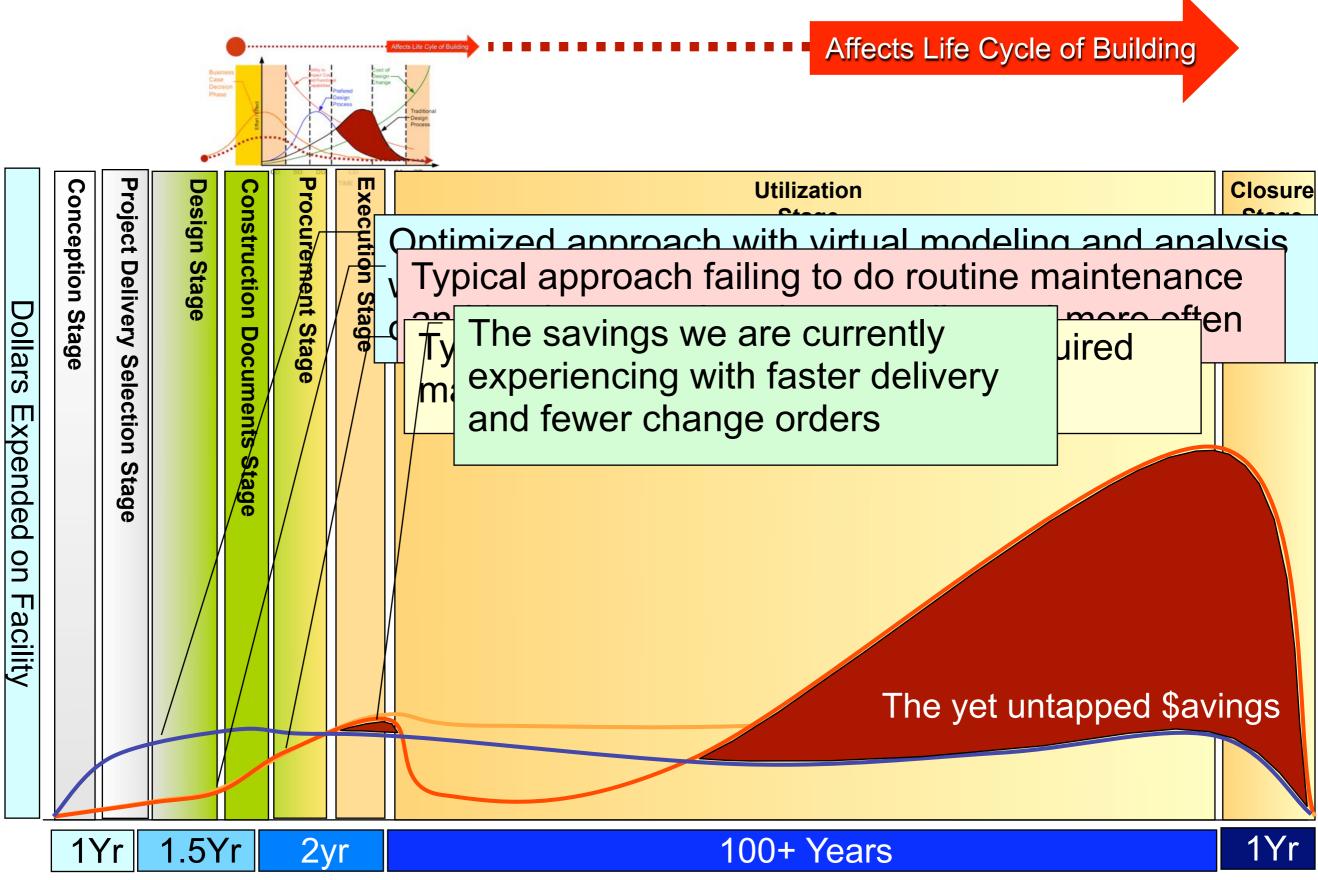


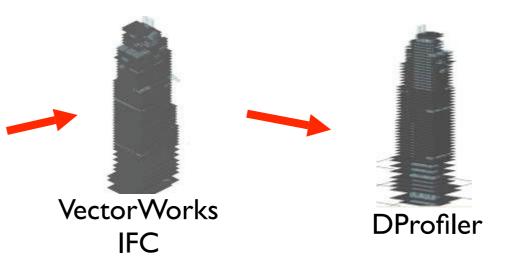
Presented by: Kimon Onuma, FAIA ONUMA, Inc.

Decisions Here Affect Life Cycle of Building Ability to Cost of Business mpact Cos **b**esign Case and Functional Change Capabilities Decision Prefered Phase Design Effort / Effect Process **Traditional** Design **Process** SD $\mathsf{C}\mathsf{A}$ CD DD CDOP TIME

US Coast Guard - David Hammond



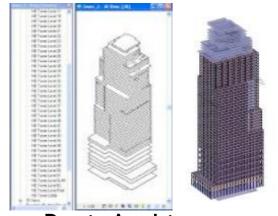






Archicad IFC

Open Standards in the Center



Revit Architecture & Structure - IFC









Onuma Planning System IFC



SketchUP IFC

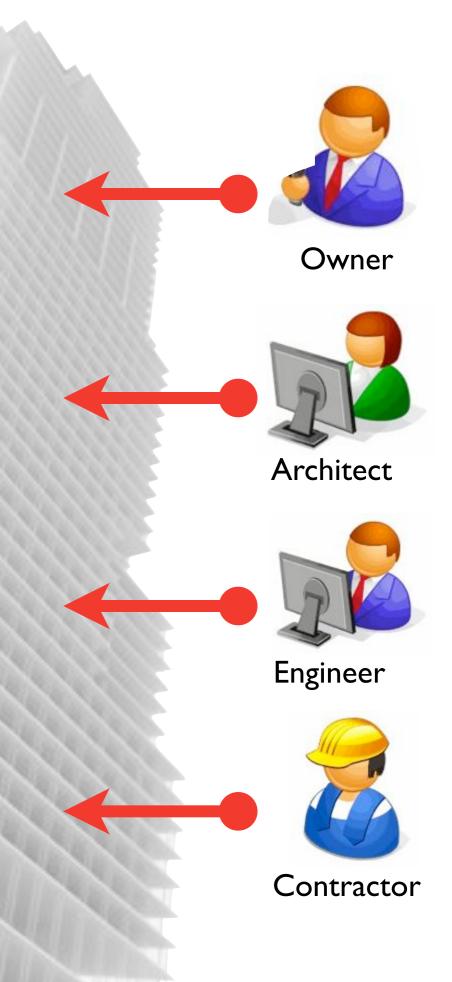




Solibri - IFC



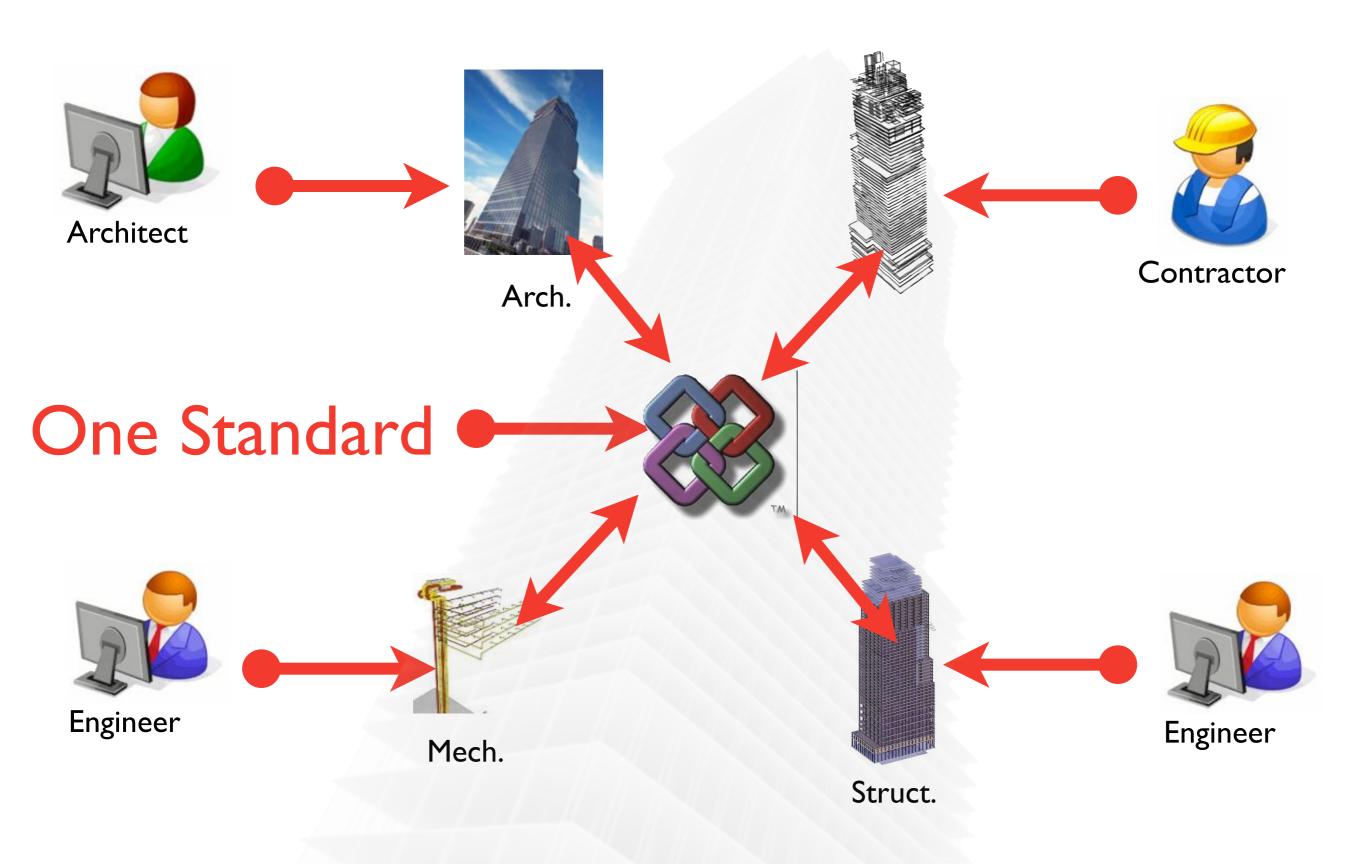
Who Owns The BIM?





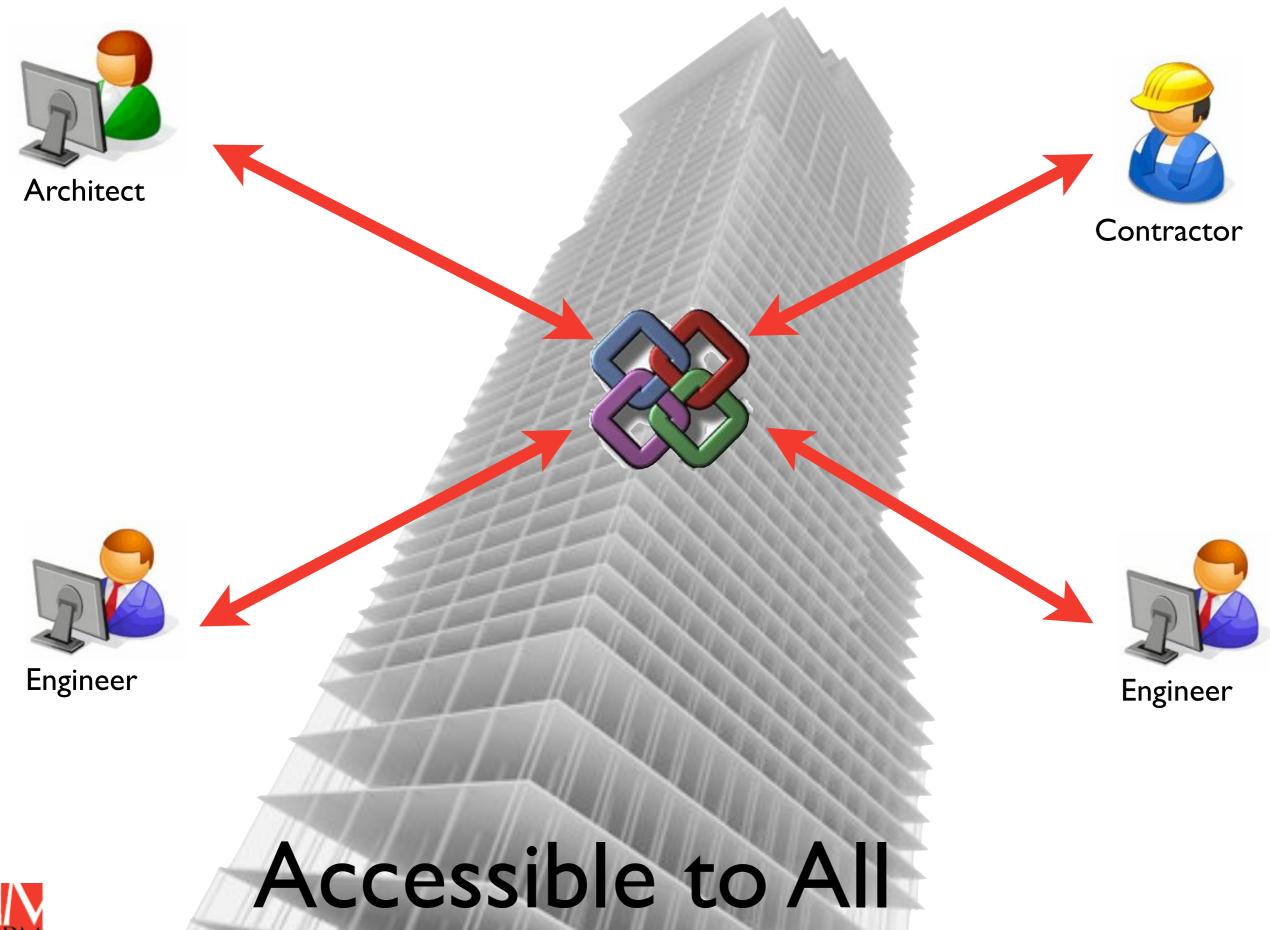
It is NOT One BIM



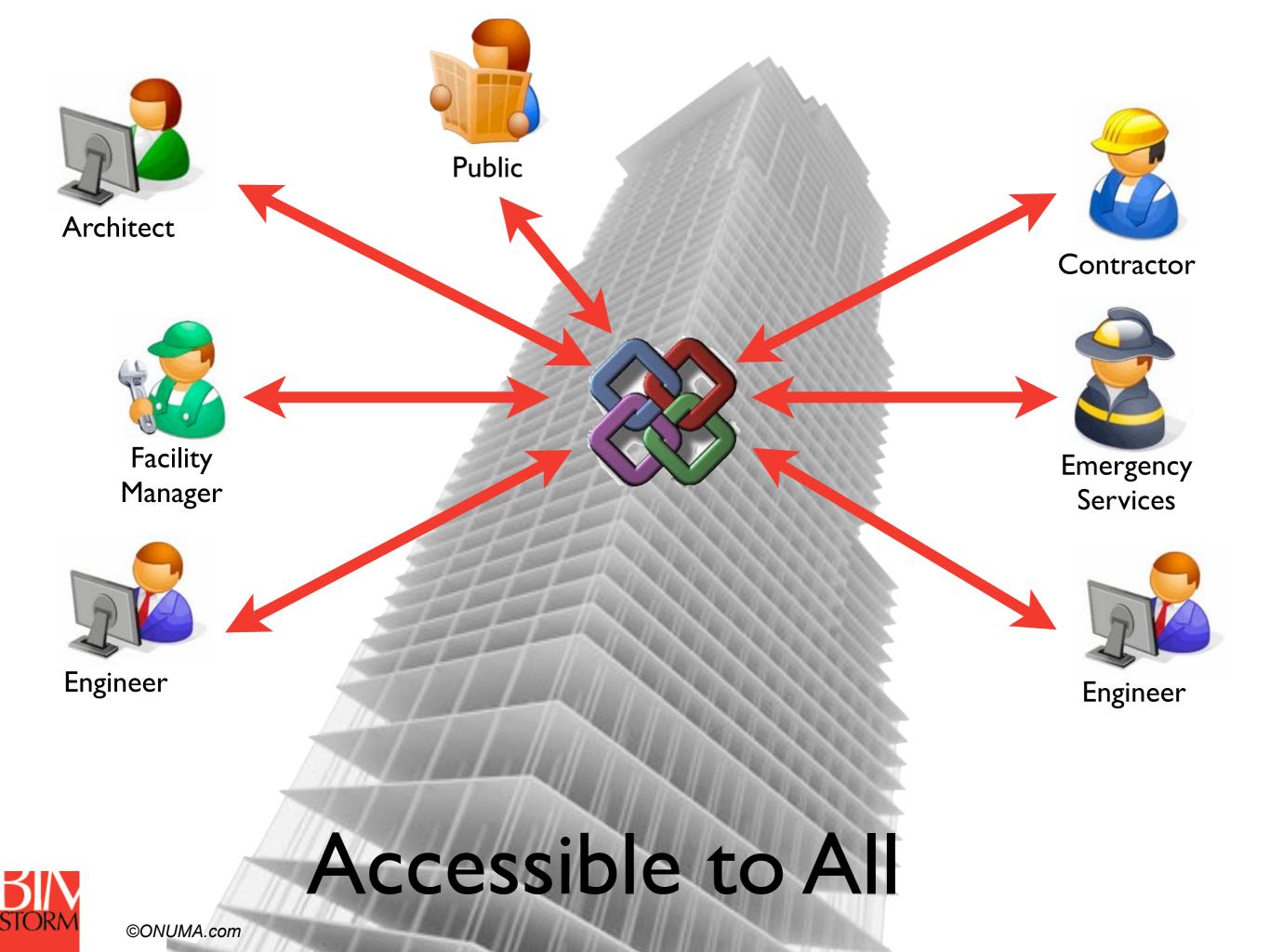


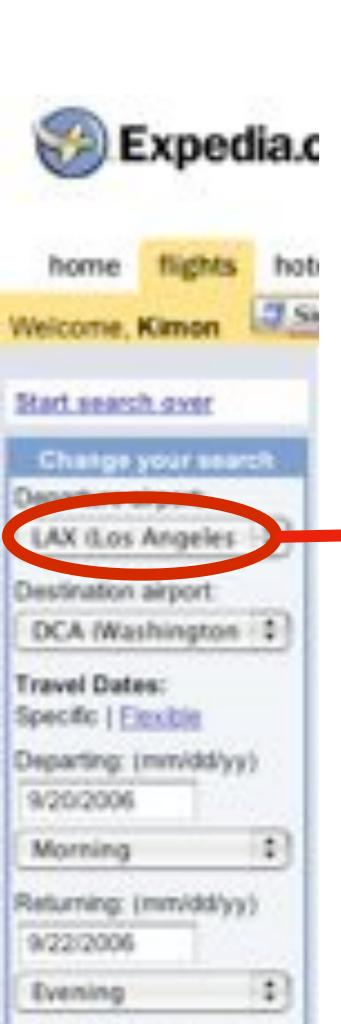


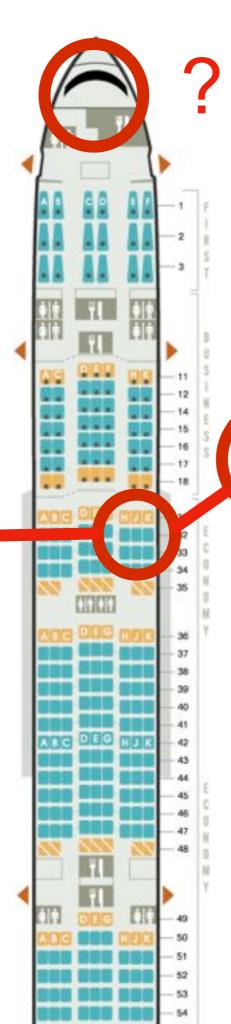
Many BIMs

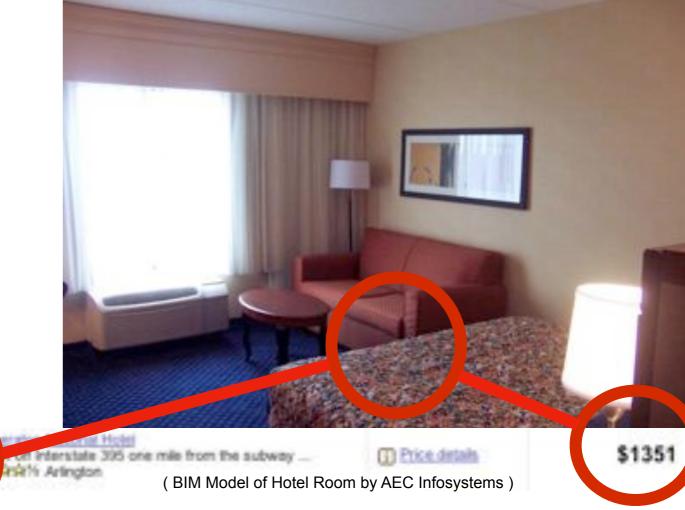






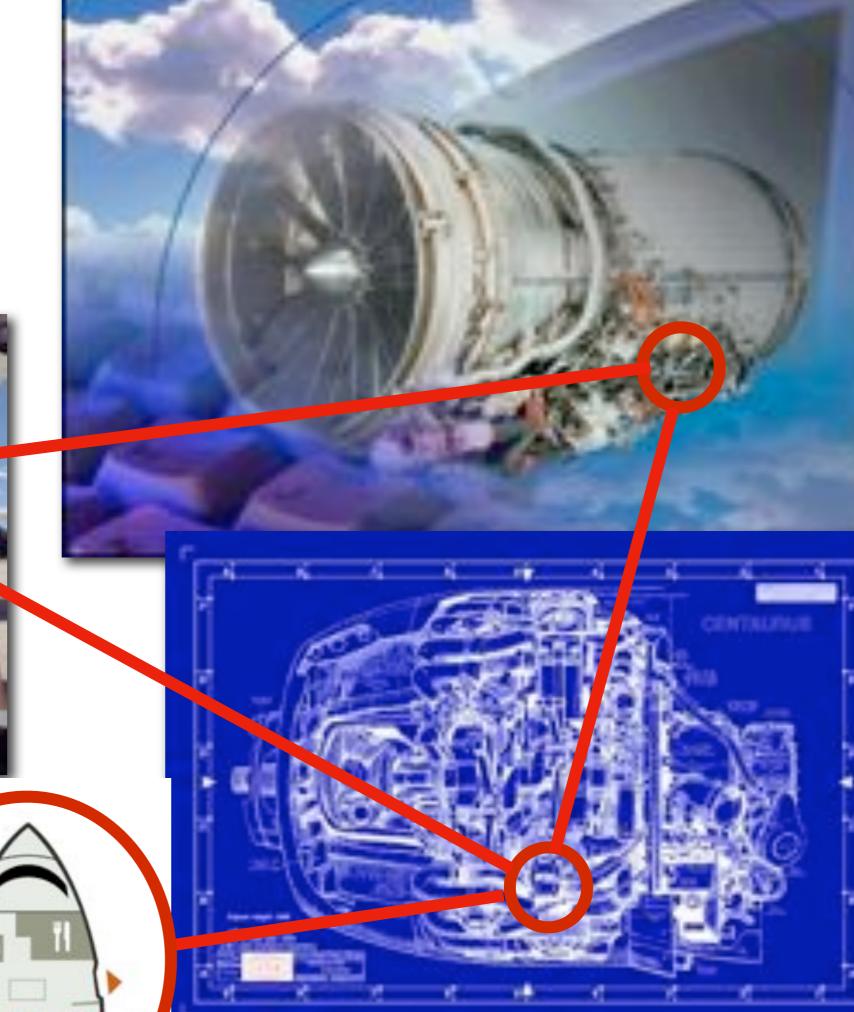








Expedia does it.





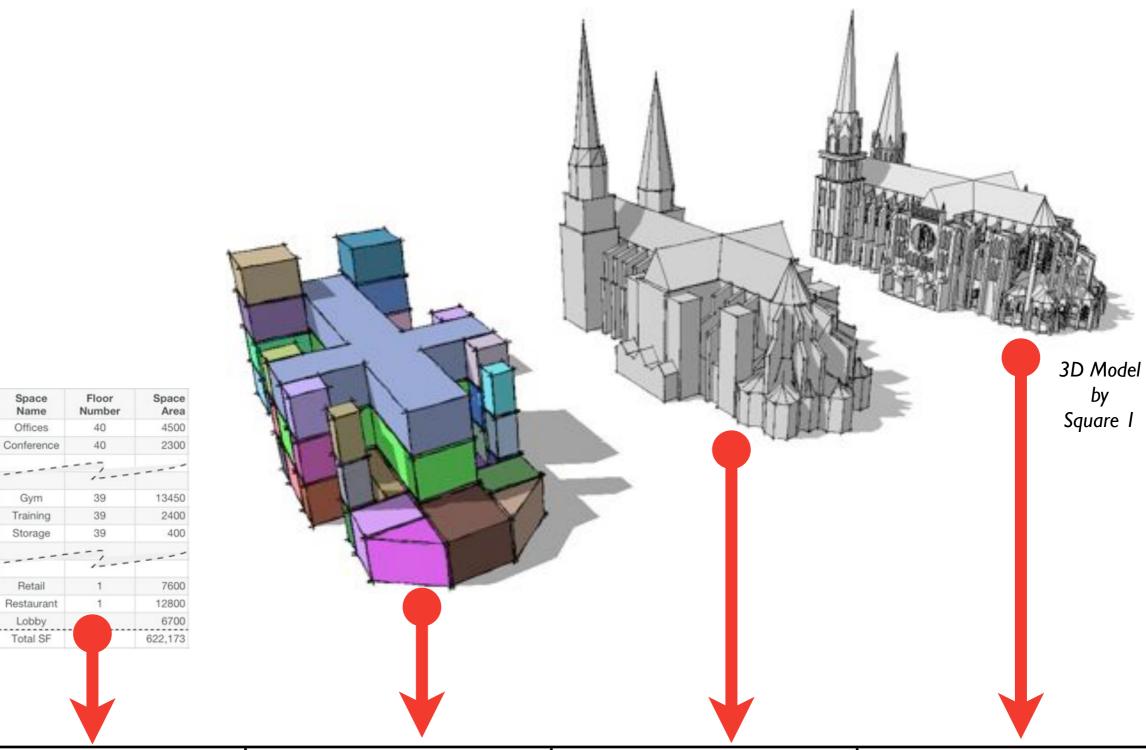
BIN STORM

Onuma Planning System





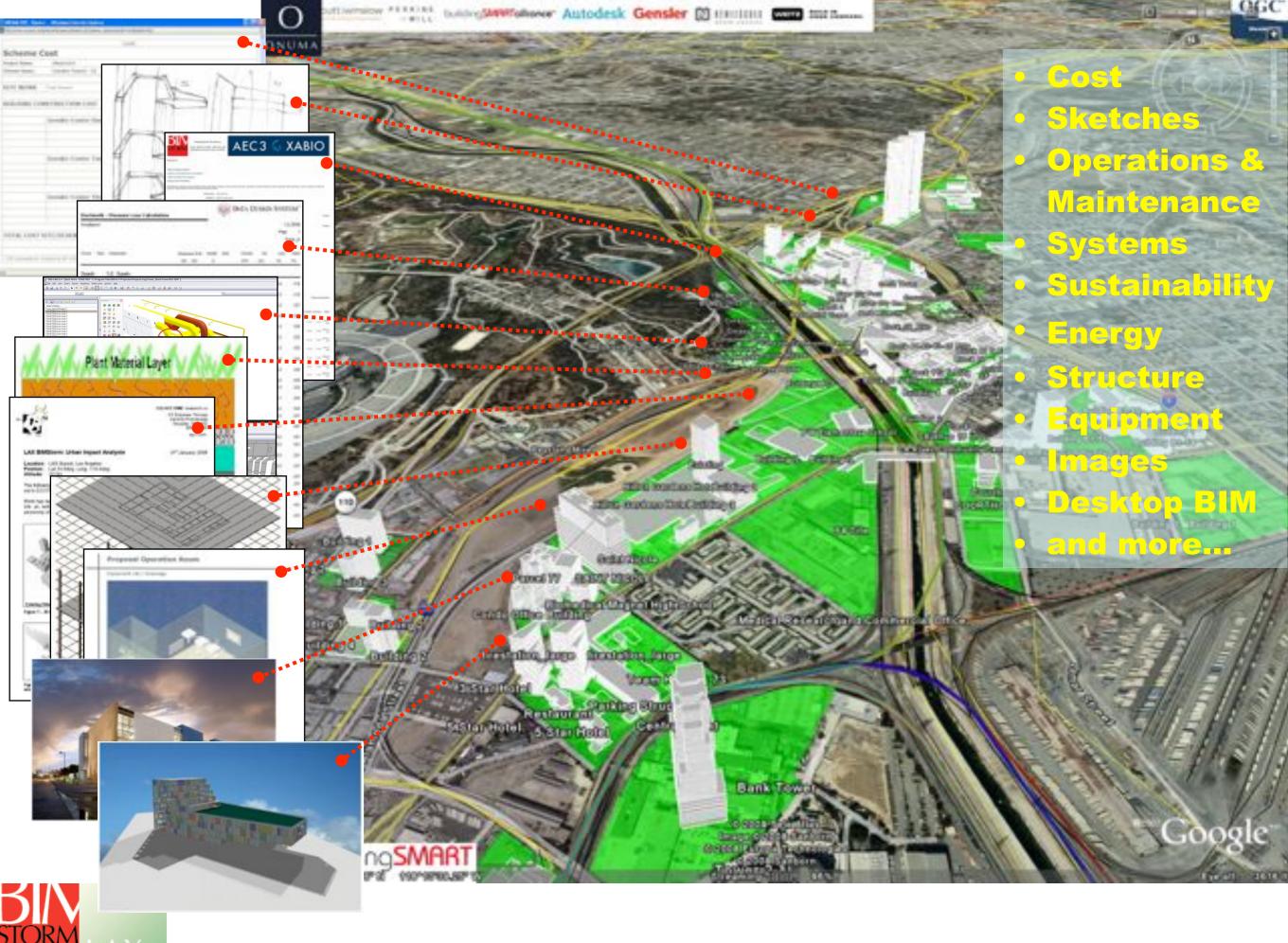
OPS

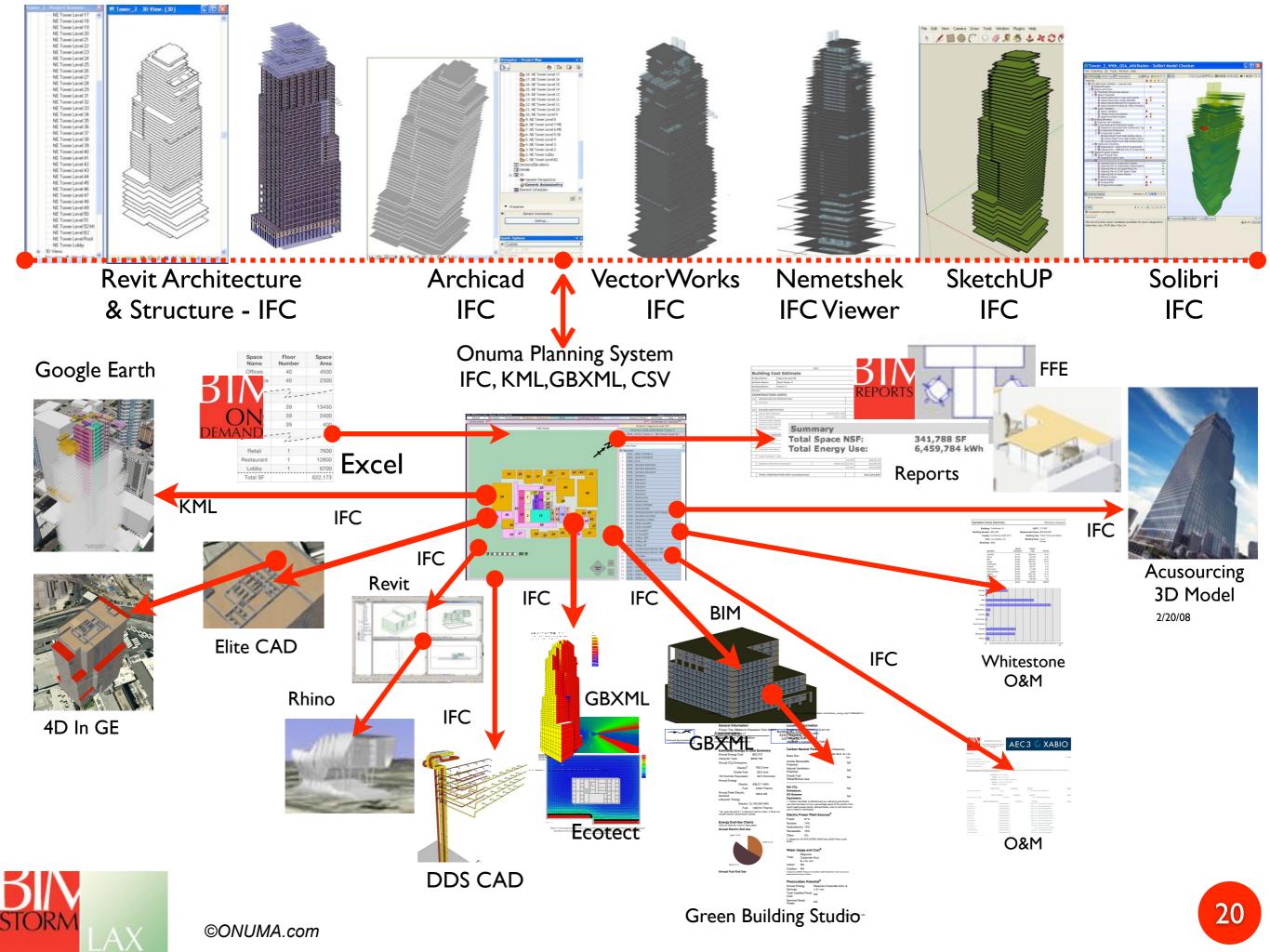


Budget: \$80,000,000	Budget: \$80,500,000	Budget: \$81,600,000	Actual: \$79,567,231
Floor Area: 85,000 SF	Floor Area: 85,000 SF	Floor Area: 85,700 SF	Floor Area: 84,540 SF
1	Glazing Area: 20,000 SF	Glazing Area: 19,000 SF	Glazing Area: 21,242 SF
-	5 Floors	6 Floors	6 Floors



- 24 Hours
- II Countries
- I 33 Players
- 420 Buildings
- 54,755,153 SF
- Equivalent of 2,800,000 pages of documents.
- Zero Miles Travelled to assemble in one location....



















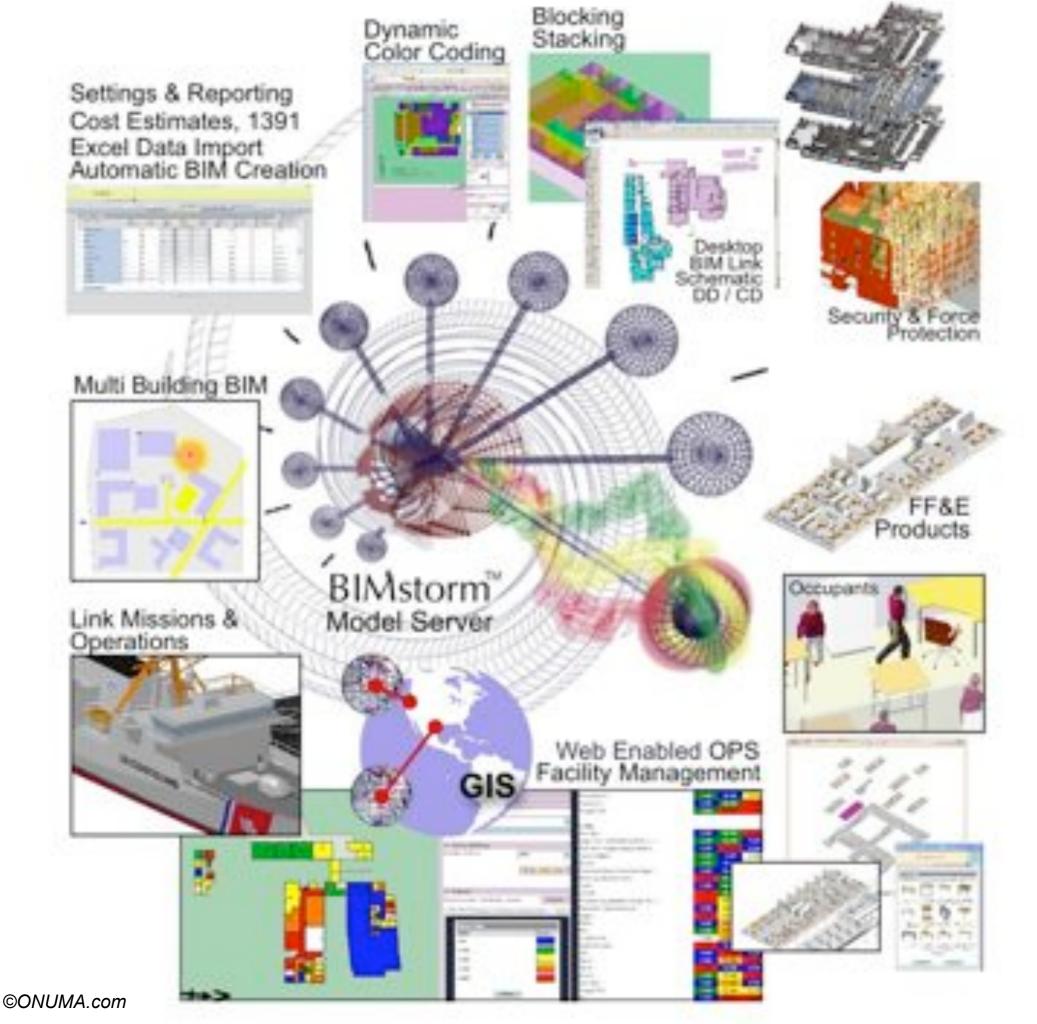


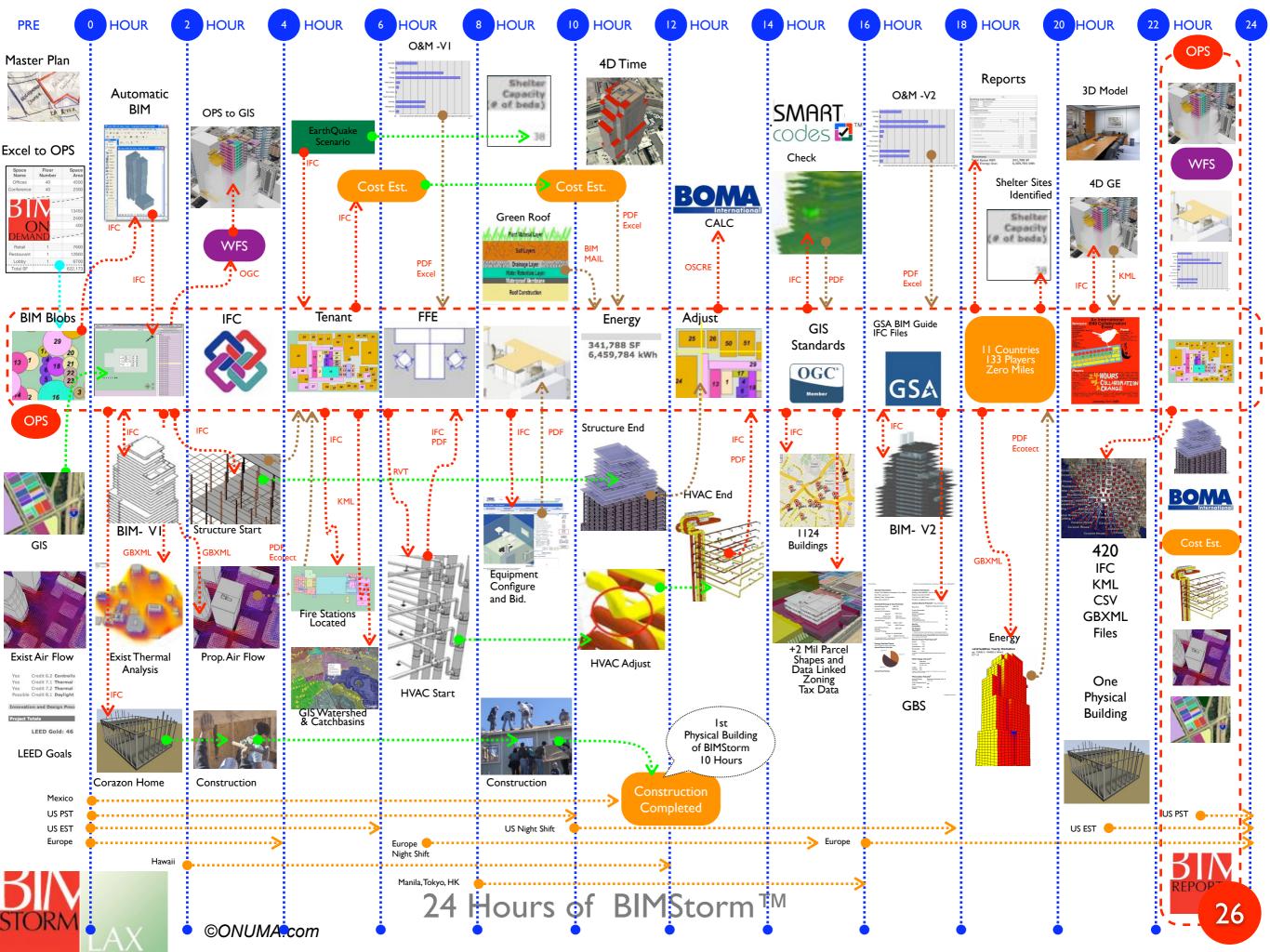


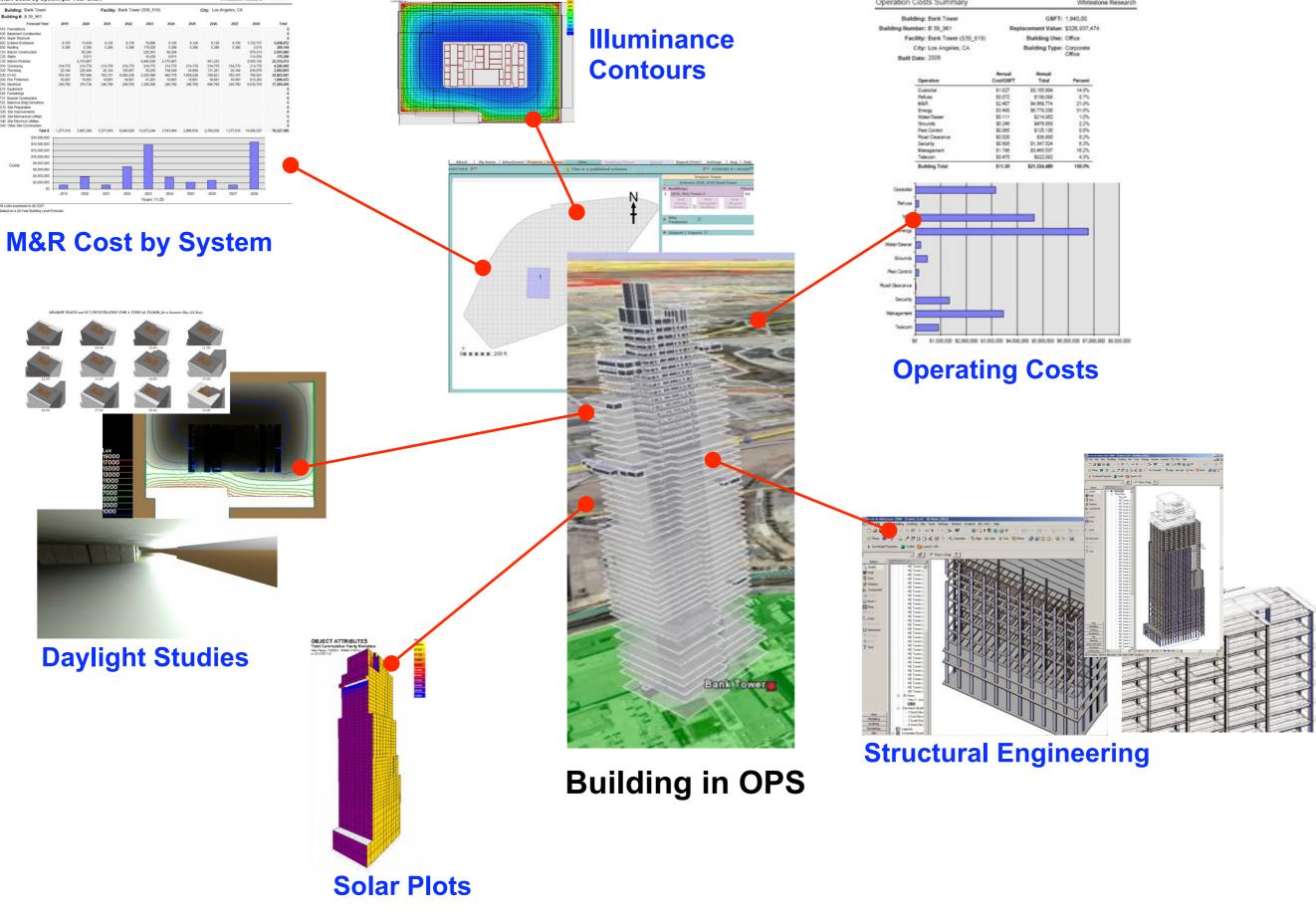




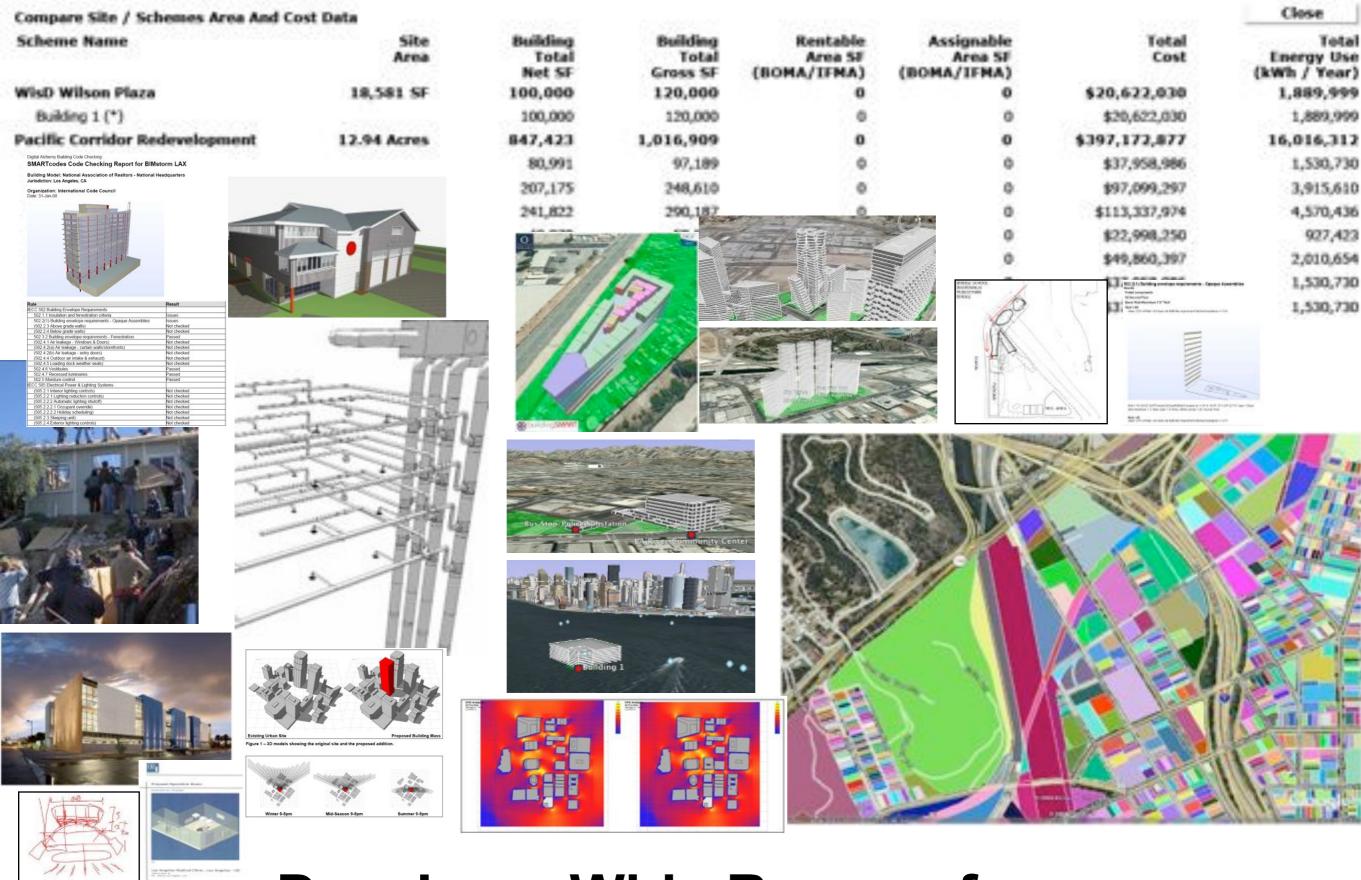




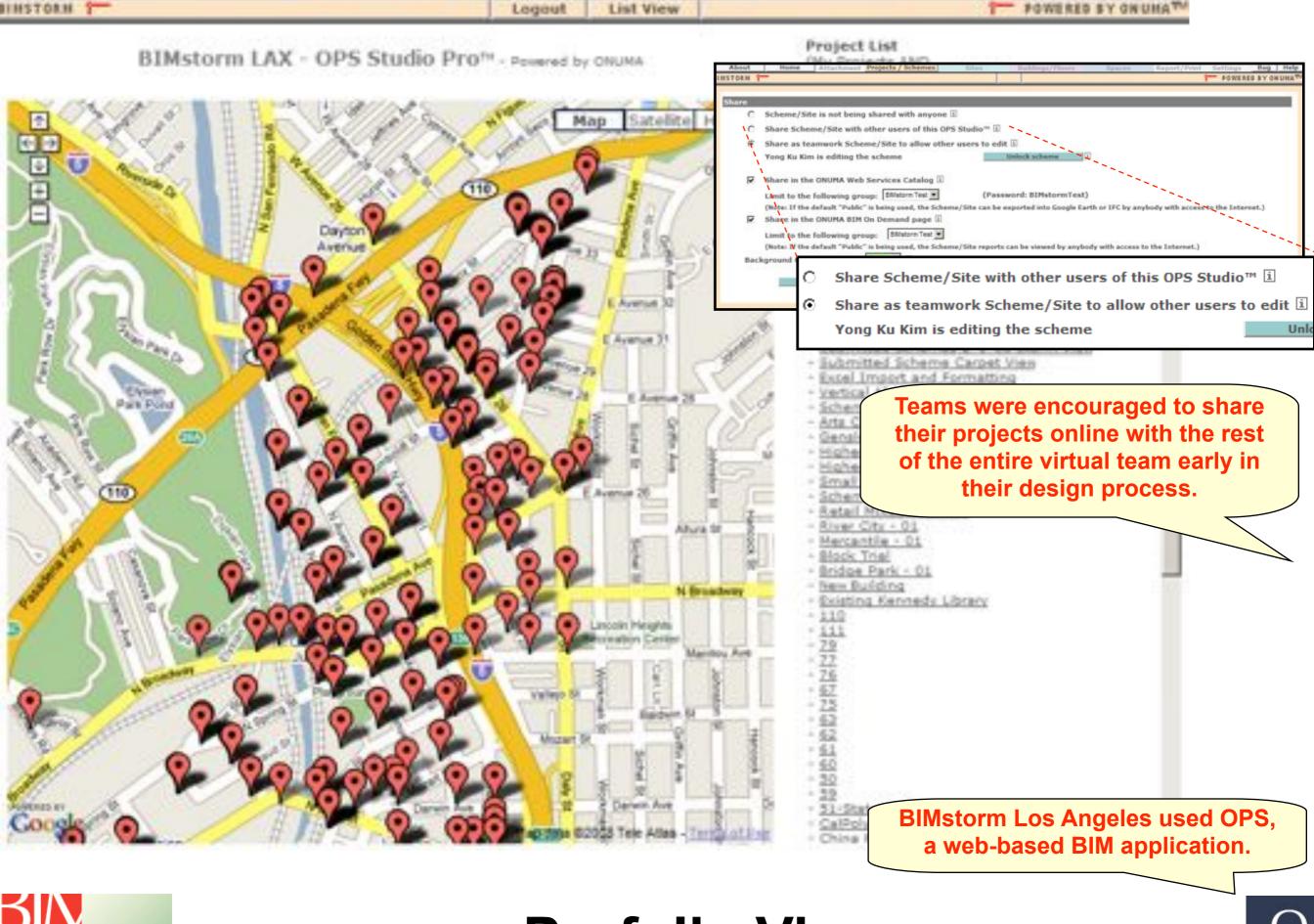












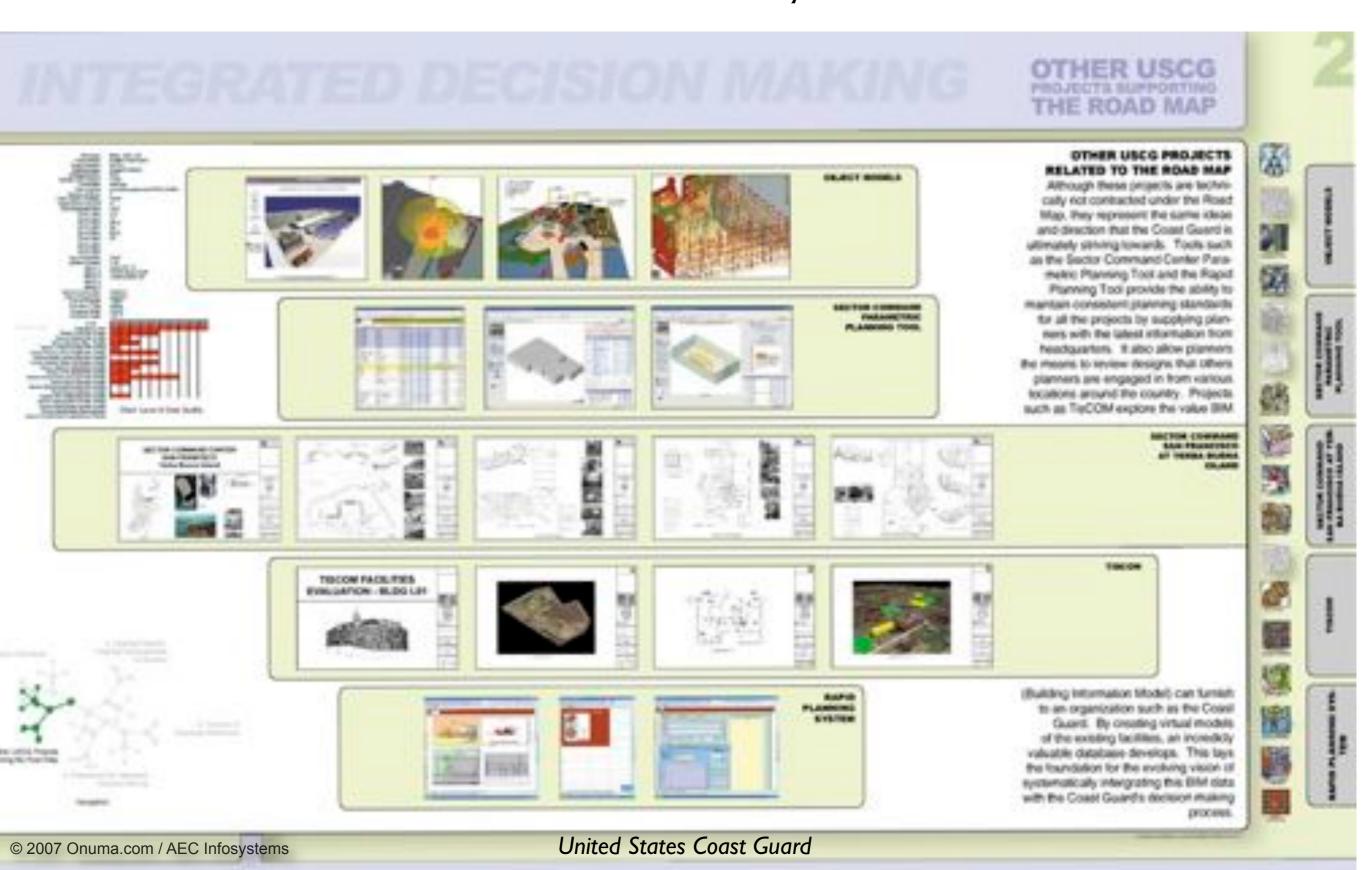


My Home Attachment



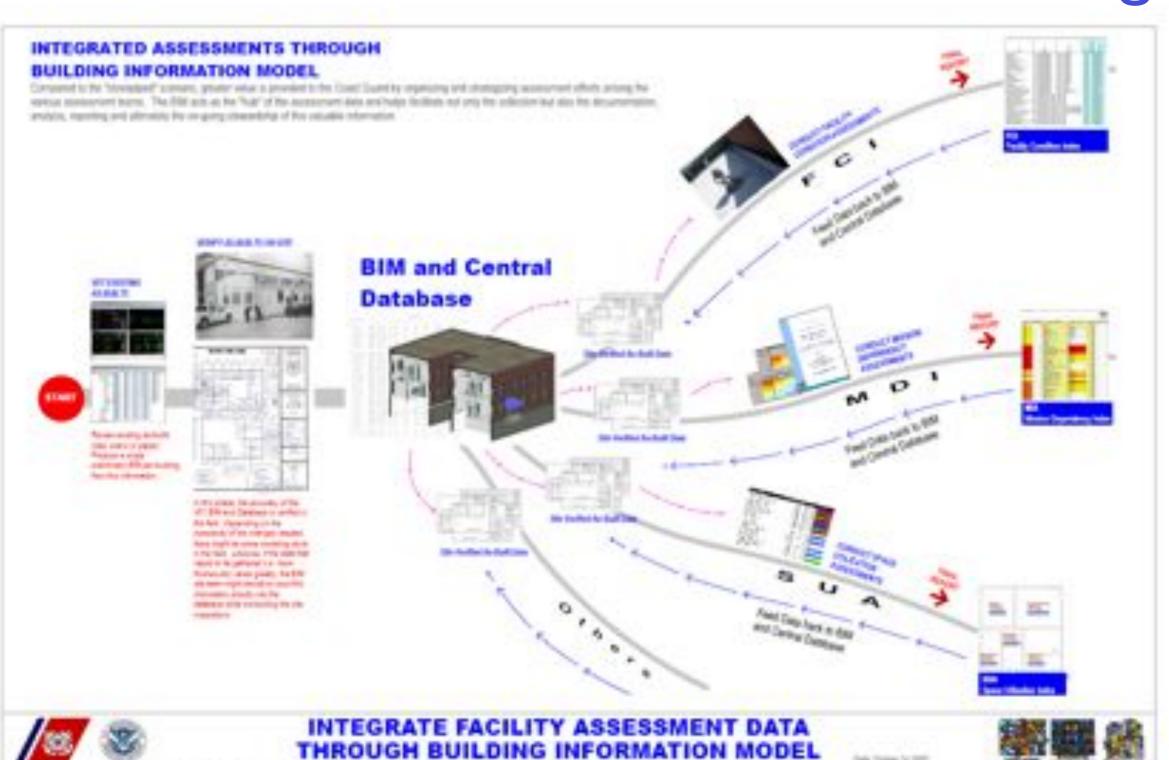


Enter Data Once - Use it Many Times





Sustainable Use of Data and Knowledge















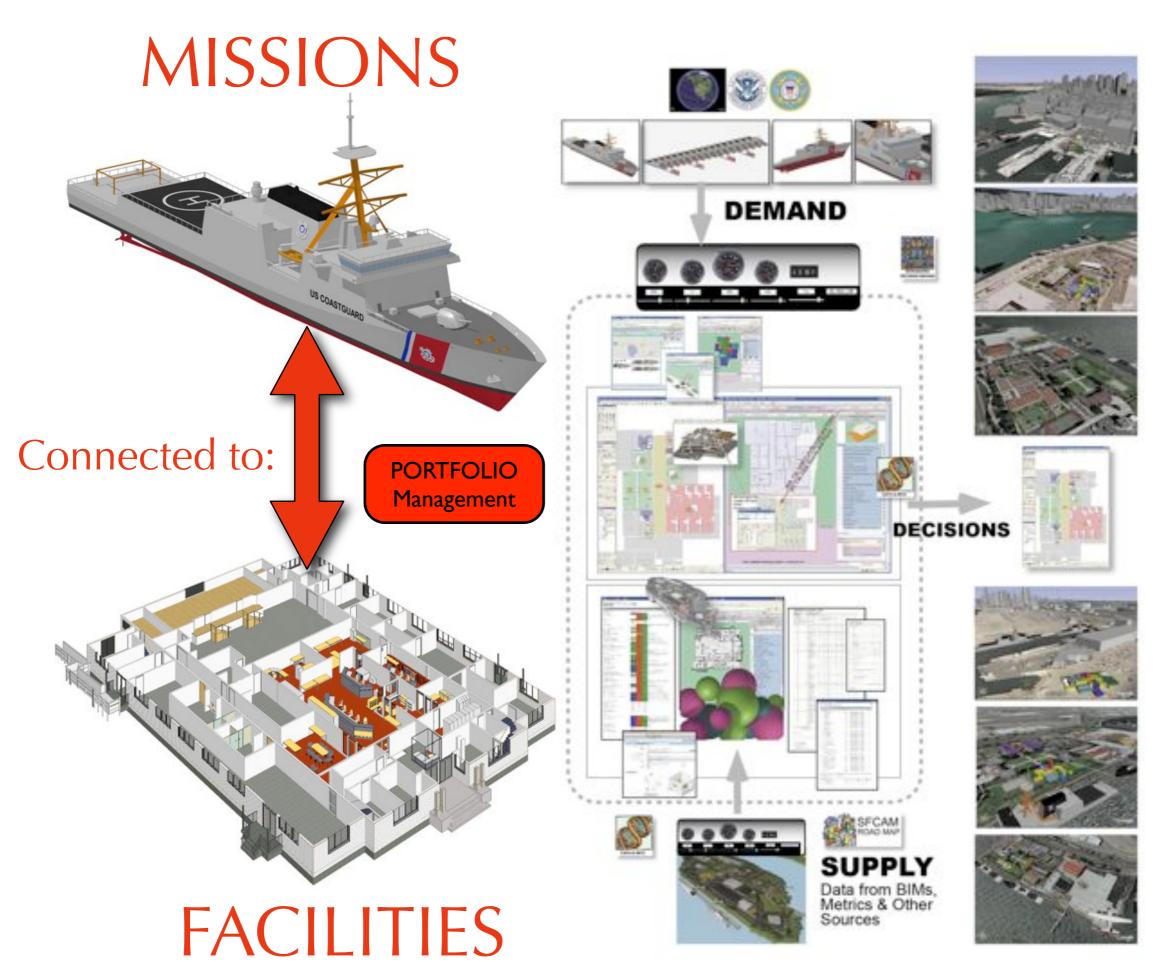




























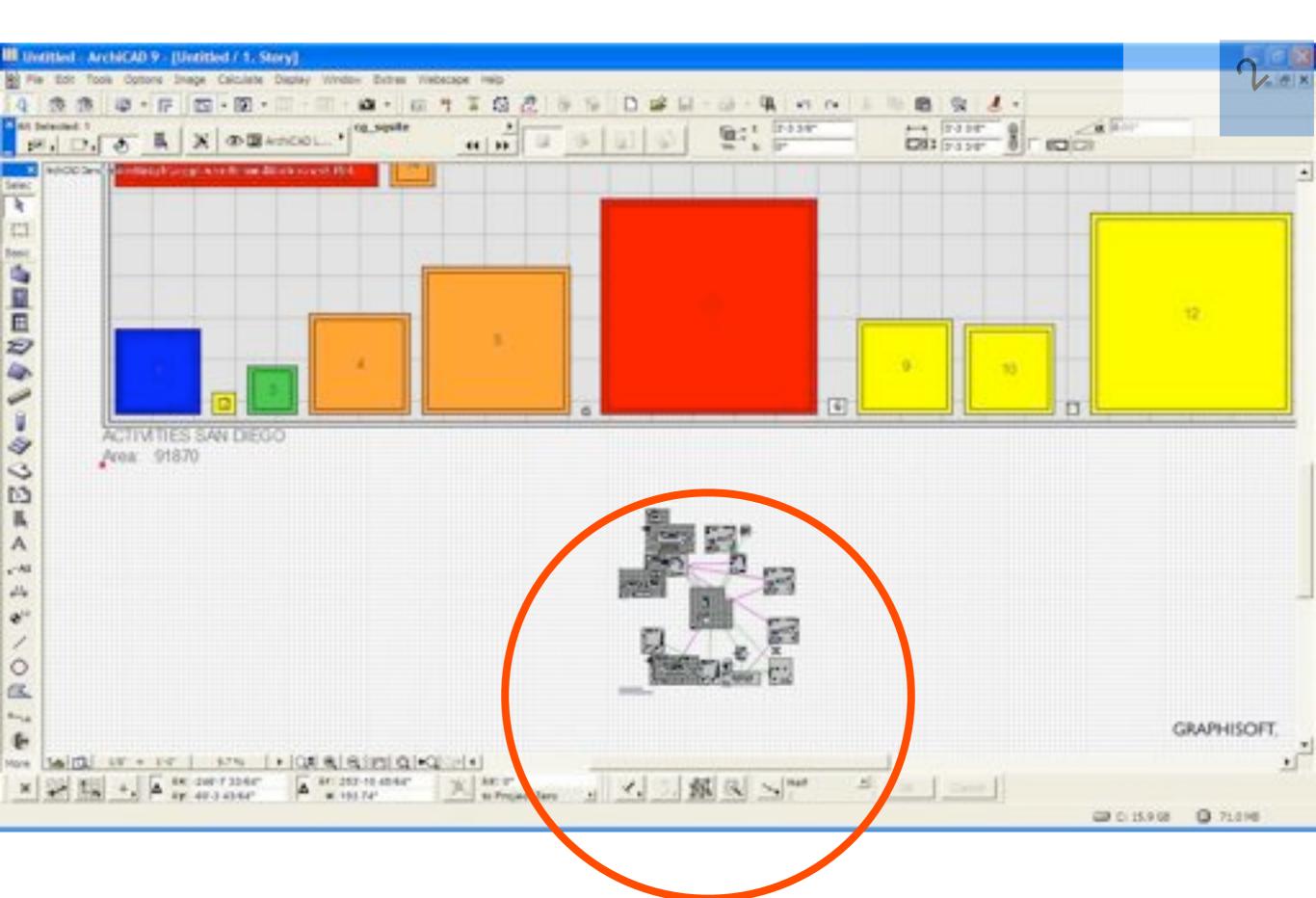




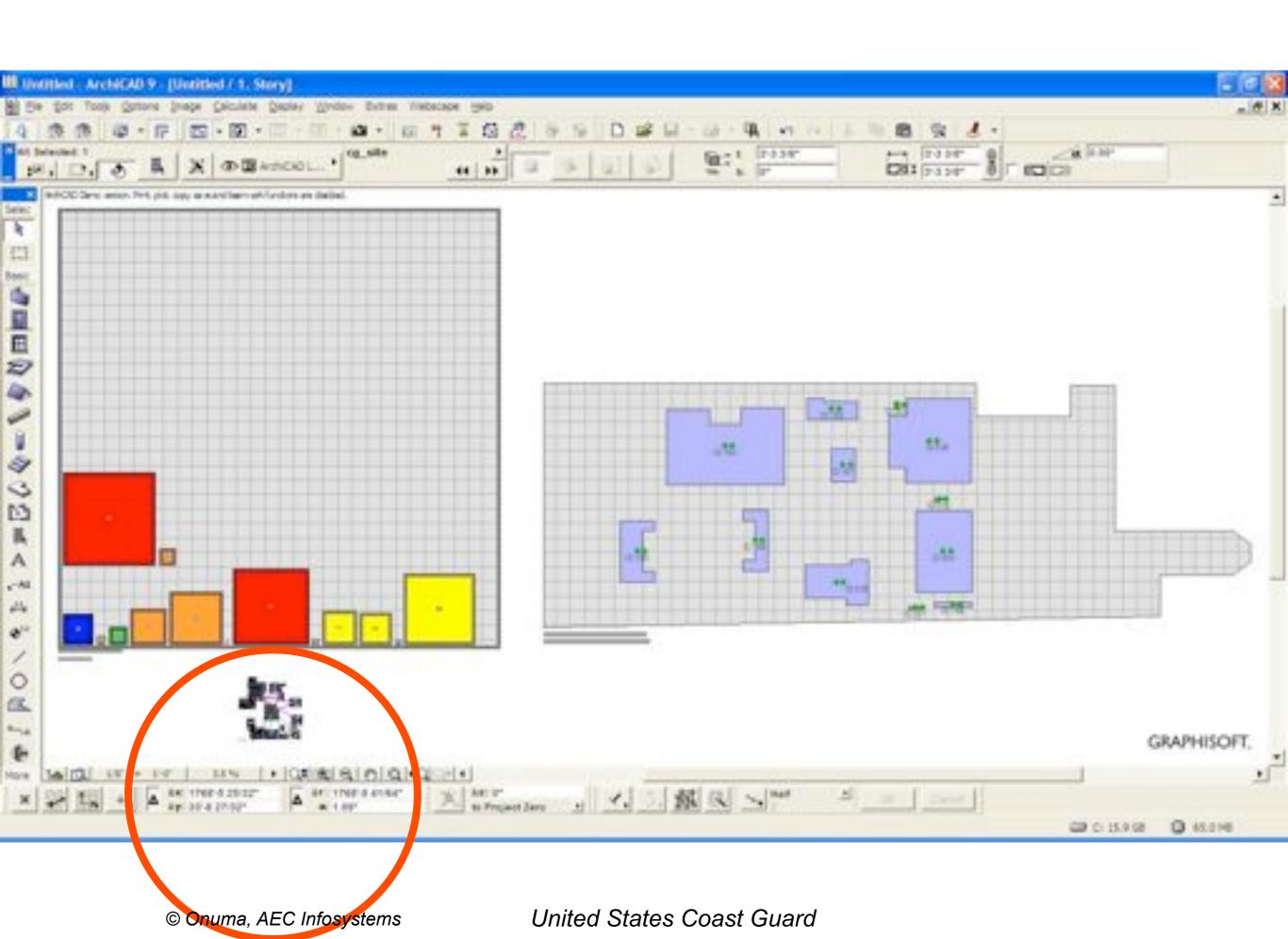


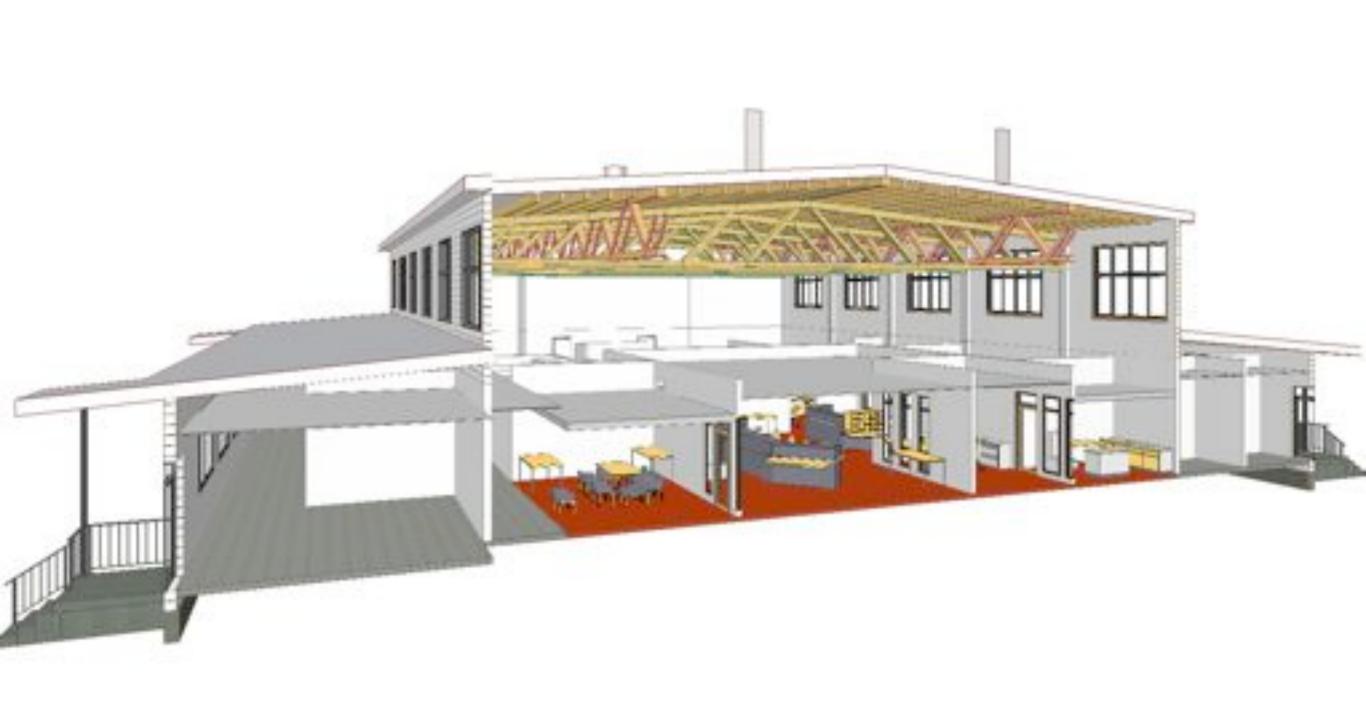


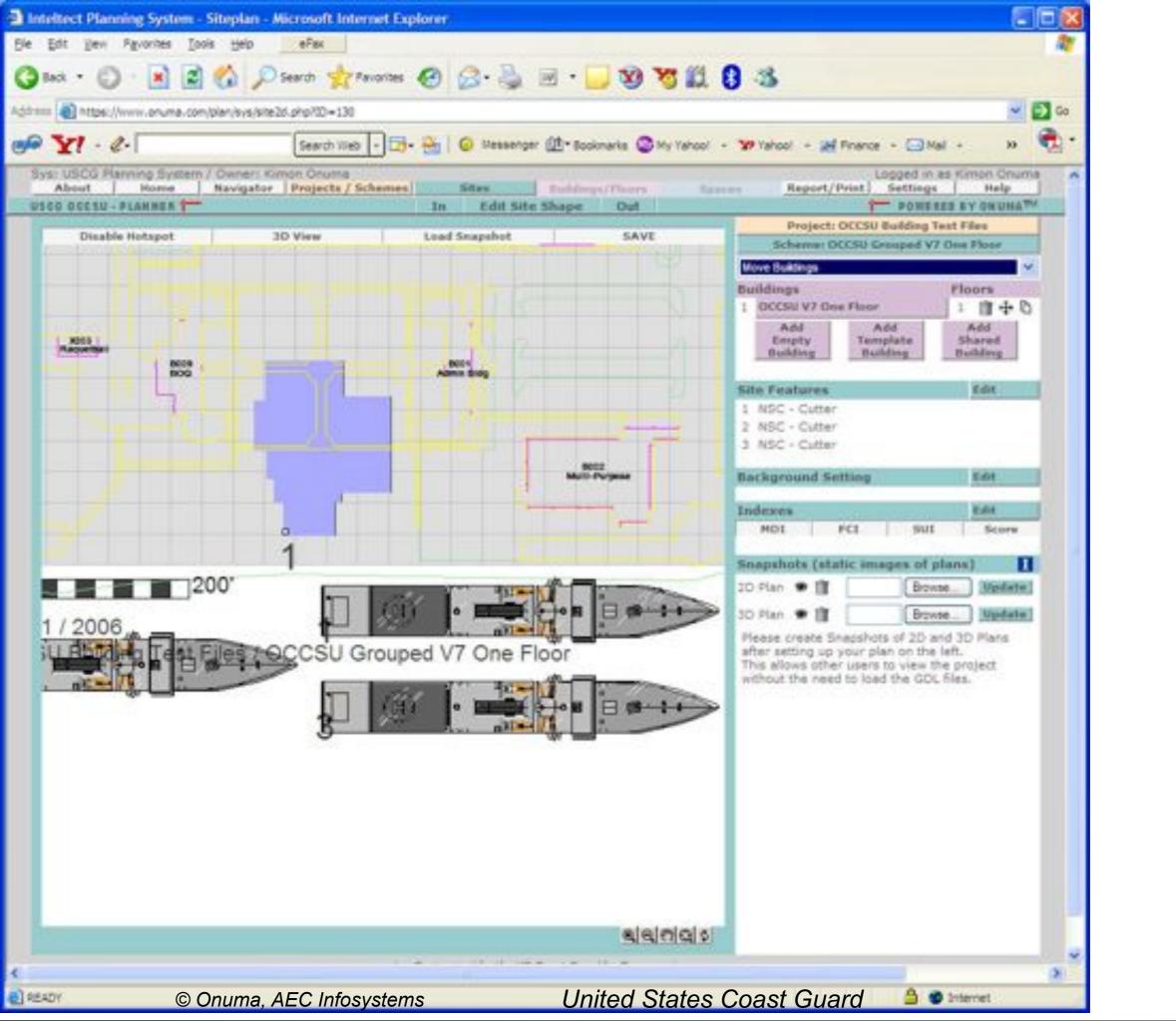


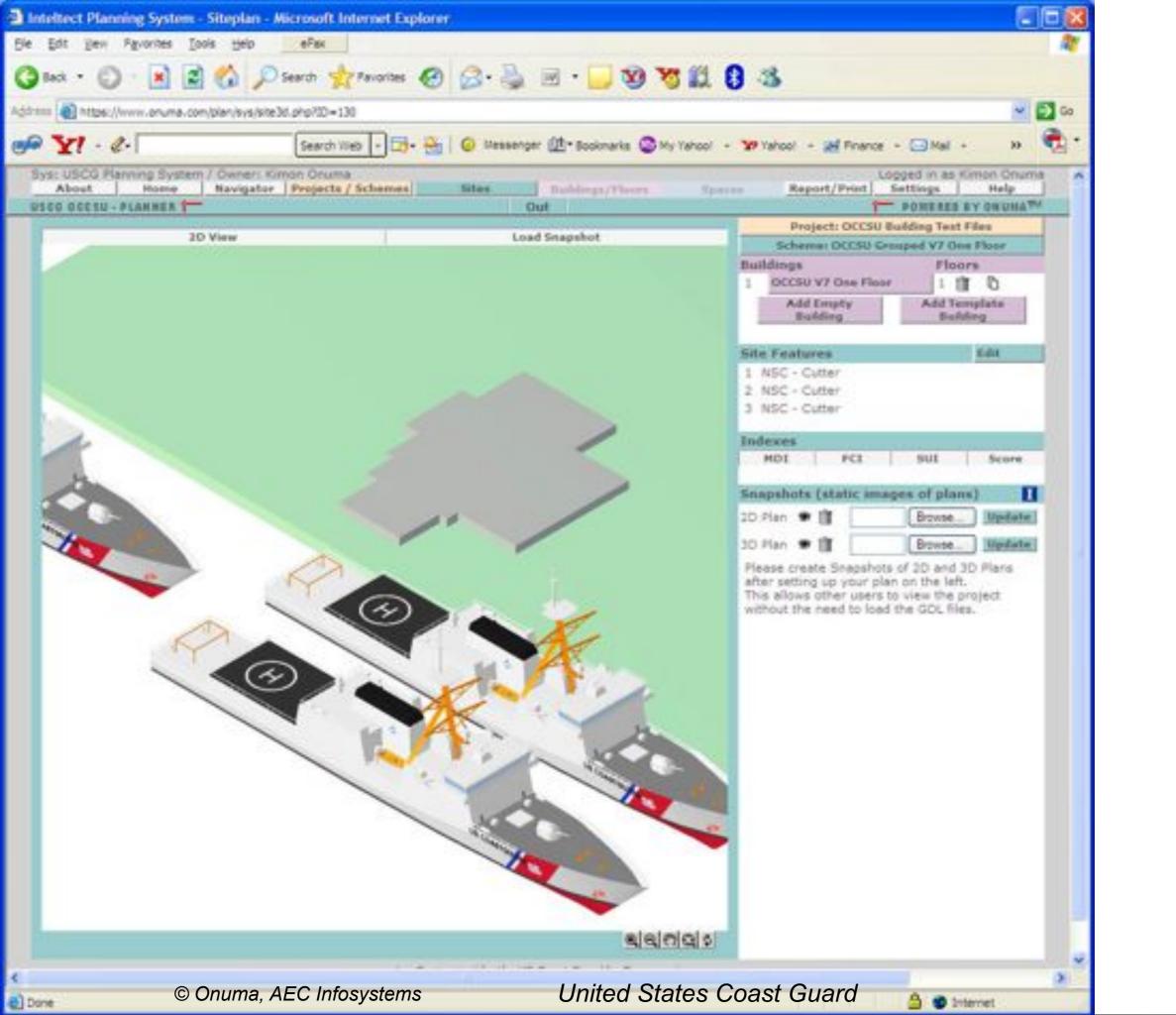


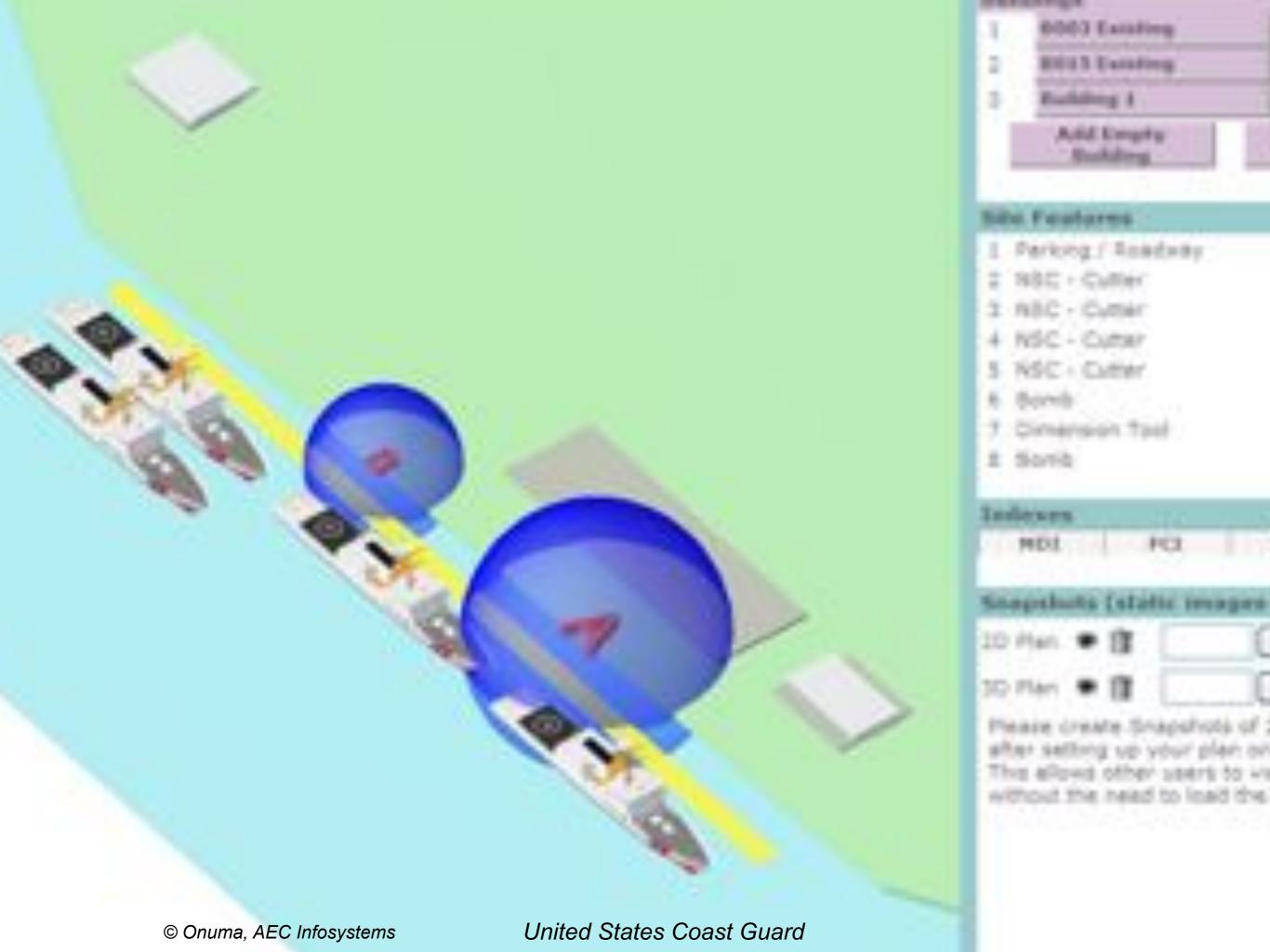
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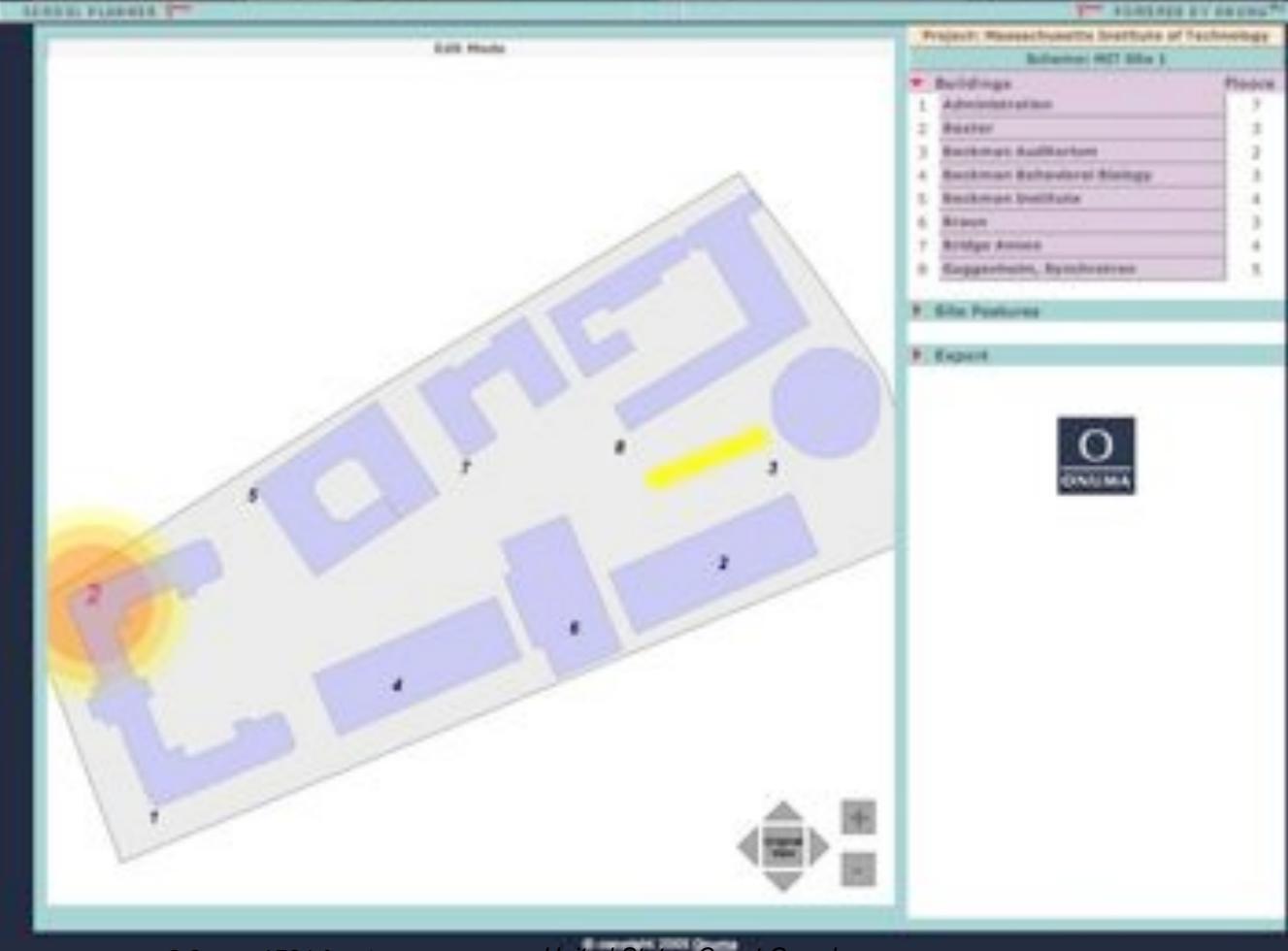






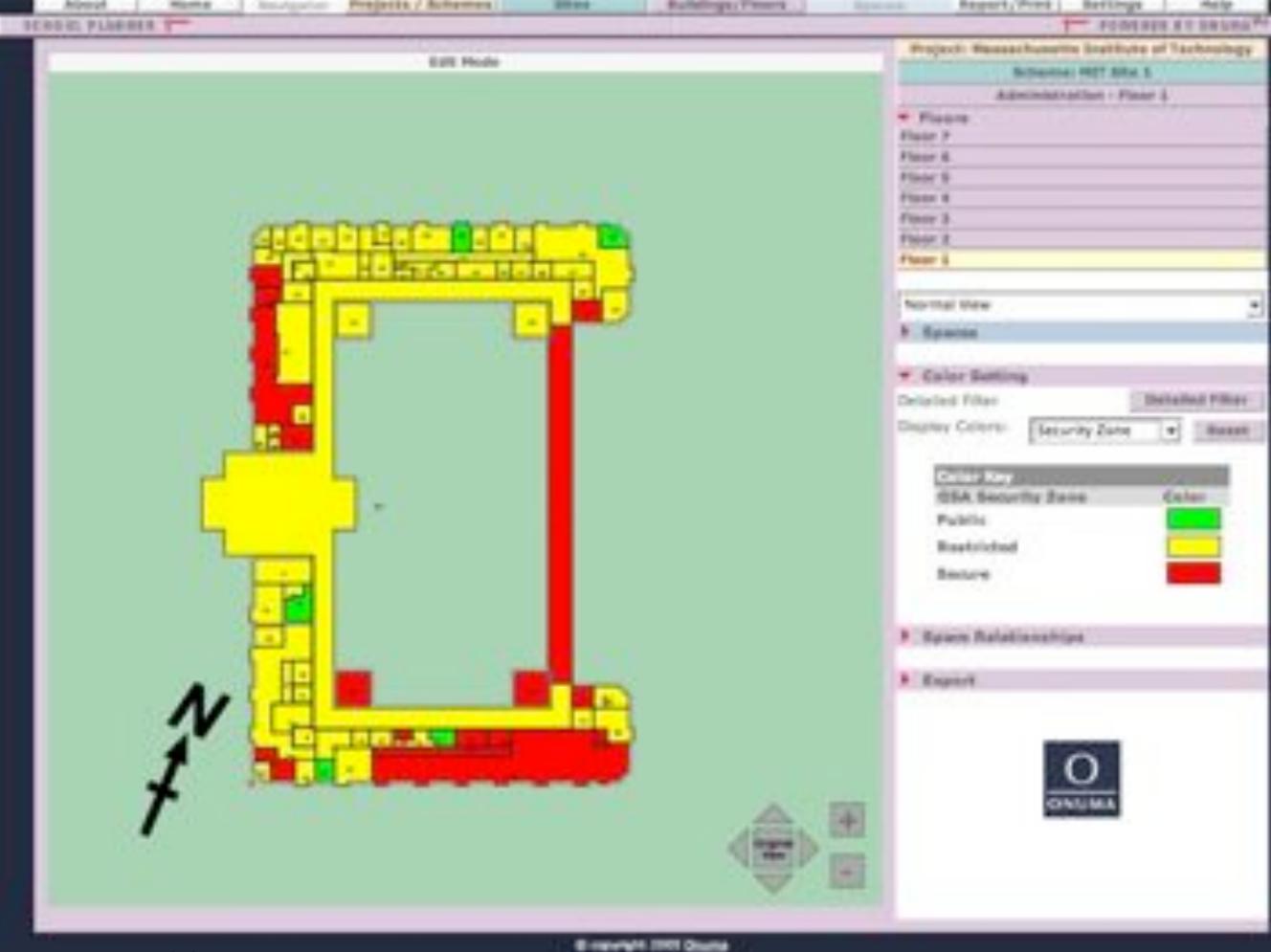


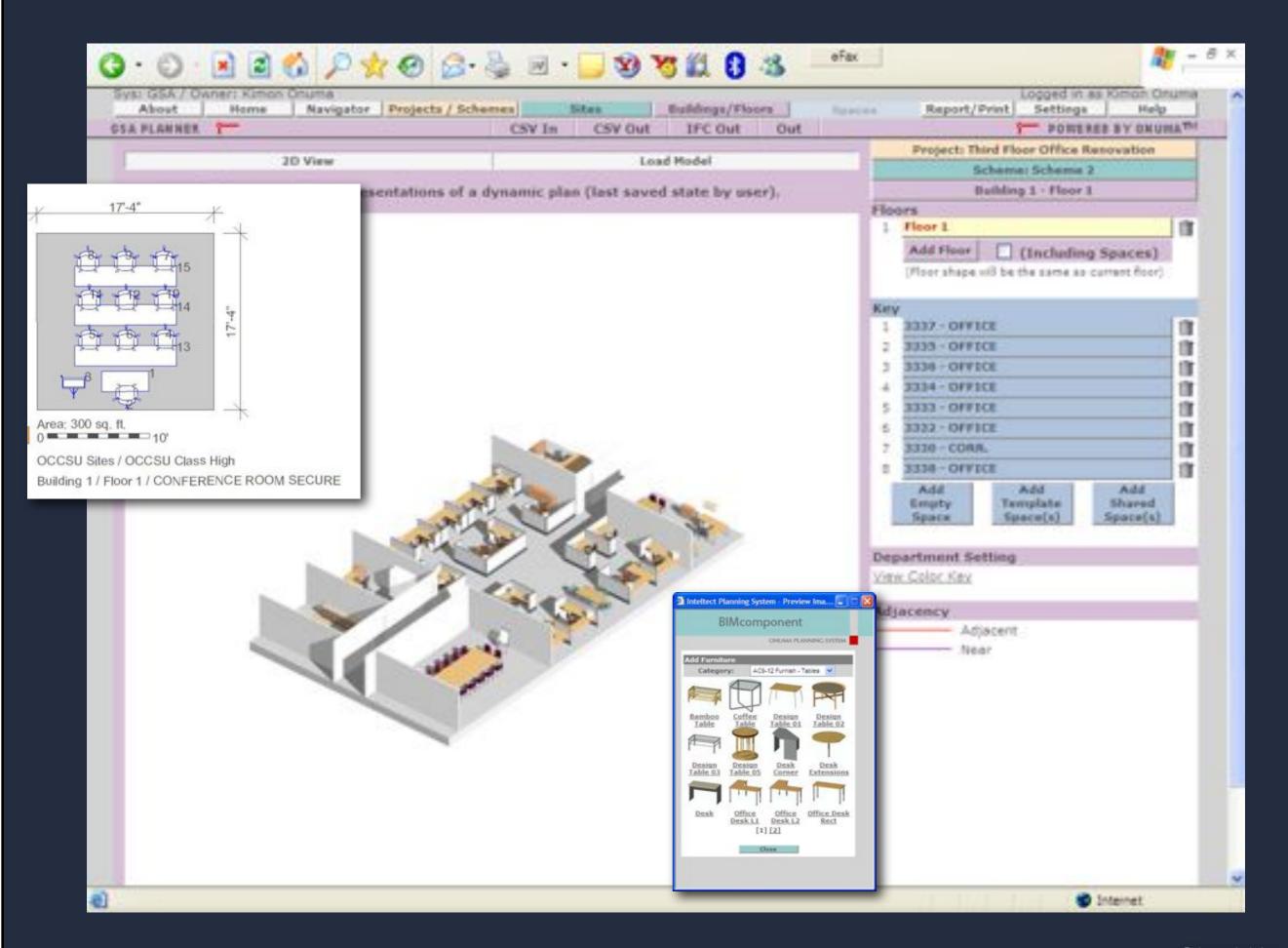


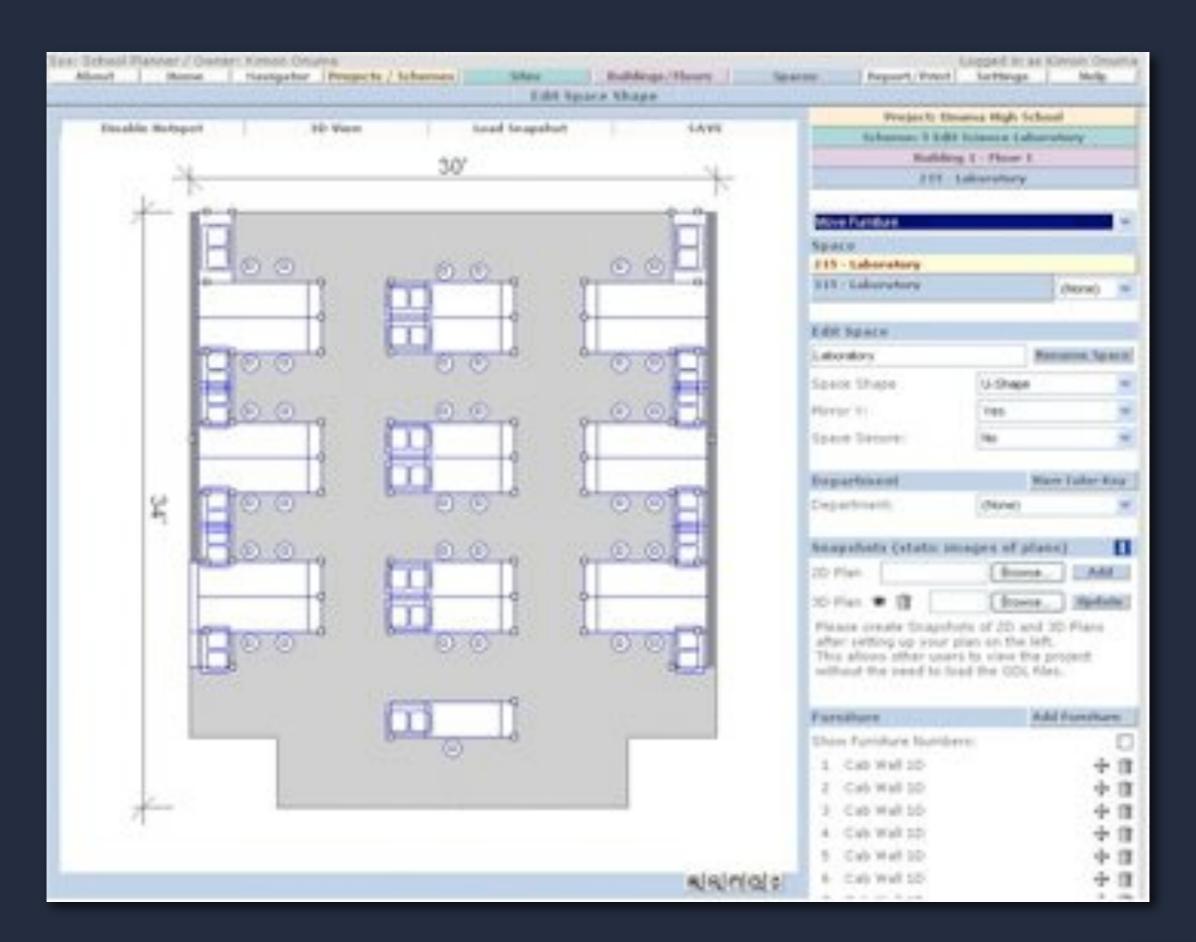


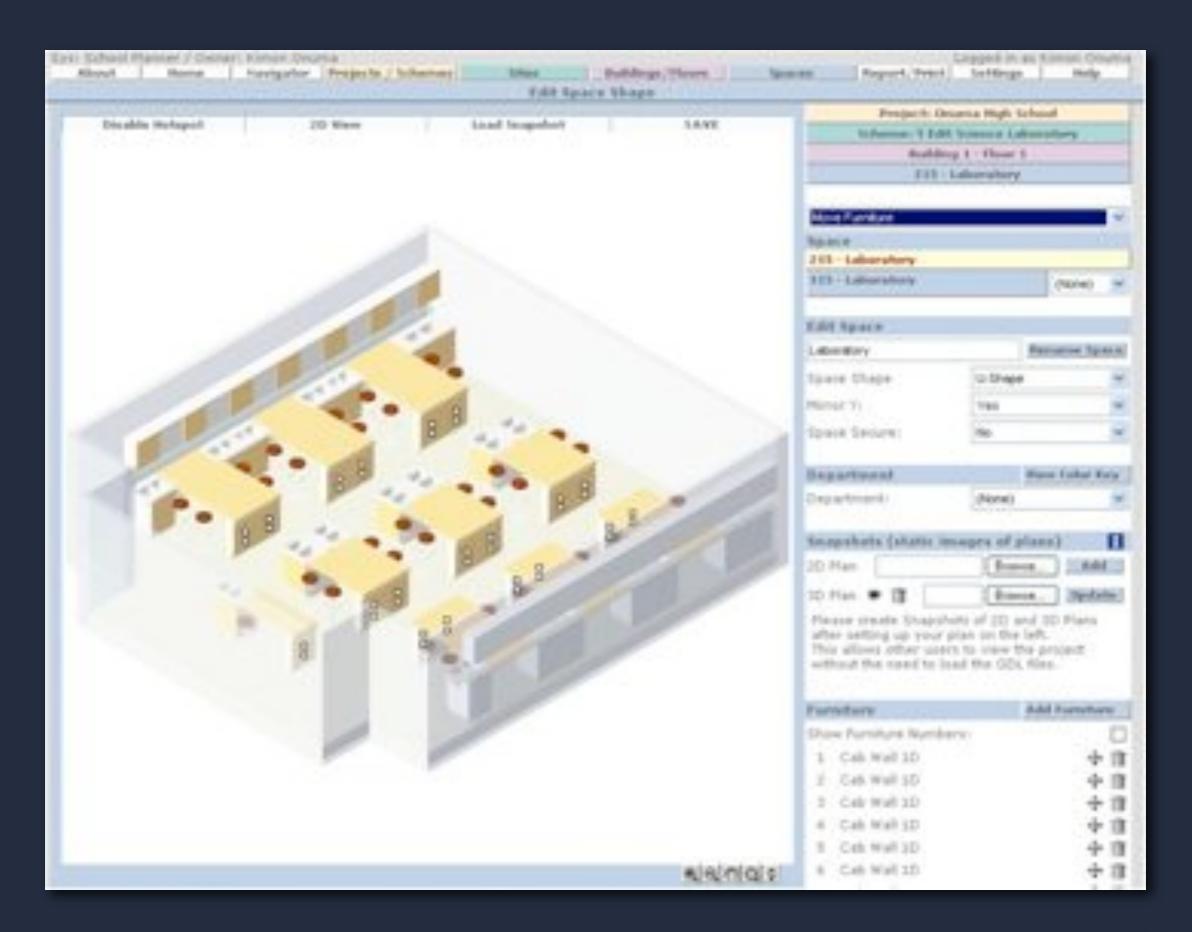


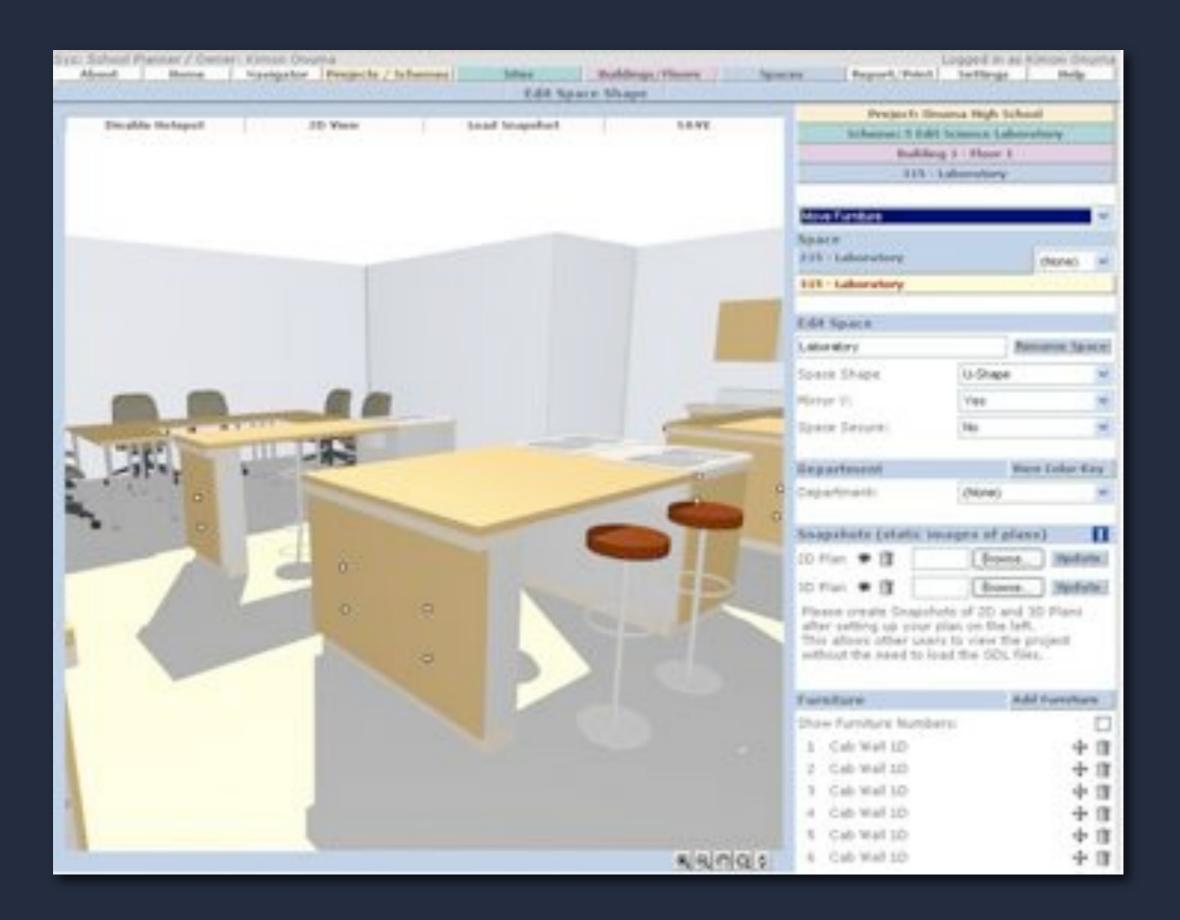














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