GET REAL WITH BIM
DELIVERING PROFOUNDLY
IMPROVED FACILITIES

NWCC Conference
Tulalip, WA - 11/17/10

Kimon Onuma, FAIA
President - Onuma, Inc.
ONUMA.com
626 793 7400
Animation #1
Play Here:
http://vimeo.com/16687982
ONUMA Inc.
GSA BIM IDIQ Team

“8A Status”

Booz | Allen | Hamilton

Digital Alchemy

BECK

Broaddus & Associates

LEO A DALY

PBS&J
Public Owners
“The data about our facilities, is more valuable than the physical facility itself”
US Coast Guard - Excel to BIM

MISSIONS LINKED TO FACILITIES

DEMAND

DECISIONS

SUPPLY
Data from BIMs, Metrics & Other Sources
Case Study: BIMStorm
LOS ANGELES 24 hrs.

420 BUILDINGS
DETAILED STUDIES

- REVIT Structure
- TEKLA Structure
- VICO Cost Estimate
- AUTOCAD MEP Mechanical
From Sketch to Excel to BIM

Note: Sample data, not from actual GSA Project
Automatic BIM from Data

Note: Sample data, not from actual GSA Project
Room Data

- Excel or dB Spaces
- List of Spaces to Import Furniture
- Quick Confirm in Onuma Layout of Space
Reports

Note: Sample data, not from actual GSA Project
Create BIM

Note: Sample data, not from actual GSA Project
Drill Down to Equipment Data
Technology Overview: Data Portals

Google Earth Desktop

PBS&J Web Portal with Google Earth API
Visual Conflict
Collaboration Enabling/Data Sharing and Integration

Data Mash-Up: Onuma System/BIM, SketchUp, ArcGIS Server, CAD, External Resources/Databases
Input

AutoCAD
Google 4D Planner
Primavera Schedule
GRAPHISOFT ARCHICAD
Revit
Excel

Output

Google earth
Google SketchUp
GRAPHISOFT ARCHICAD
Revit
Excel
IFC
BIMXML
COBIE2

Layering BIM & GIS in the Cloud

2010 · ONUIMA.com
Geospatial Energy Data
Geospatial Building Data
Real Time BIM Data in Google Earth

Southwest Scheme 1 All Sample Data:
- Site Area: 4.04 Acres
- Building Total Net SF: 412,014
- Building Total Gross SF: 1,447,634
- Total Cost: $464,133,221
- Total Energy Use: 7,804,071 kWh
- Rentable Area: BOMAJFMA: 358,259 SF
- Roof Roll Total Area All Buildings: 241,272 SF
- Last Edited: 09/25/2010 - 10:43 AM
- Scheme Owner: Kimon Onuma
- Scheme ID: (S13228)
- Studio: GSA

This Google Earth file is generated from the ONUMA Planning System (OPS) - Model Server. Changes the owner makes to this project will be visible in this Google Earth file in real time.

For creating other Network Linked Google Earth ties or for outputting other file formats such as Excel, BIM, and SketchUp from OPS:


View or modify this scheme/site in OPS
(Note: an OPS Editor account is required to modify projects in OPS)

For more information on OPS:
Real Time Web Cams Linked to BIM

Video Surveillance B148
Lawson Computer Science Building Rm B148 05/07/2010 18:39:29

Directions: To here - From here
Real Time Occupancy Sensors
Real Time Energy Sensors

Office
Office 4032.03 sf Capacity: 38 Occupancy: 38

Sub Function: Vinyl Composite Tile
Energy Use: 12.1-14 kWh
Hours of Operation: 7am-11pm
Natural Lighting Levels: Not Required

Discharge_Air_Temp 61.4

Return_Air_Temp 72.0

Air_Handler_CFM 9841.2
Real Time Sensor Data
Automatic Out of Range Warnings
Drill Down to Equipment Data

Lenfant Plaza - Building 9

Temperature

Energy Demand

Zoom: 1' 5' 1h 1d 5d 1m 3m 6m 1y Max e 426 07:45 June 08, 2010

powered by pachube pachube.com
ONUMA and COBIE

Live Sensor Web Services

Live BIM Web CAM

Geo Reference
BIMStorm™ Washington DC

BIMStorm™ Connects the World

In a world where we must make decisions that impact our environment, the only way to connect the dots is through collaboration. This requires a different way of thinking and process. BIMStorm™ are part of the answer to this challenge. They allow global teams to collaborate in real time. Get Real with BIM at BIMStorm.

BIMStorm™ Returns Live at the Ecobuild Conference in Washington DC.

- December 6-10, 2010
- Information here.

BIMStorm™ Theater at the Conference on Dec. 6-10, 2010

- Several thousand people regardless of technical expertise have participated in BIMStorms and created 4,000 buildings totaling 485 million square feet.
- Live demonstration of BIM using Low Carbon Collaboration techniques featuring speaker Kimon Onuma, FAIA, Principal, Onuma, Inc.
- Live from the show floor with the BIMStorm Teams.
- Some of the tools that are used in a BIMStorm include: Archicad, Excel, Elite Cad, ESRI, Google Earth, Google Maps, Google Sketchup, Onuma Planning System, Revit, Solibri, Telligence Affinity, VectorWorks, Paper and Pencil and other tools.

- On the show floor
- Live projects were run for the duration of the show
- Sign Up here to participate with us in Washington DC or Virtually.
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