Presented by:
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ONUMA, Inc.
Affects Life Cycle of Building

- Design Stage
- Conception Stage
- Project Delivery Selection Stage
- Construction Documents Stage
- Procurement Stage
- Execution Stage
- Utilization Stage
- Closure Stage

Optimized approach with virtual modeling and analysis with reduced change orders & delivery time and lower operating and sustainment costs

Typical approach failing to do routine maintenance and having to replace items earlier and more often

The savings we are currently experiencing with faster delivery and fewer change orders

The yet untapped savings

1Yr
1.5Yr
2yr
100+ Years
1Yr

buildingSMART Alliance
National BIM Standard - Dana K. Smith
Open Standards in the Center
Who Owns The BIM?
It is NOT One BIM
One Standard

Many BIMs
Accessible to All
Accessible to All
Expedia does it.
Onuma Planning System
<table>
<thead>
<tr>
<th>Space Name</th>
<th>Floor Number</th>
<th>Space Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offices</td>
<td>40</td>
<td>4500</td>
</tr>
<tr>
<td>Conference</td>
<td>40</td>
<td>2300</td>
</tr>
<tr>
<td>Gym</td>
<td>39</td>
<td>13450</td>
</tr>
<tr>
<td>Training</td>
<td>39</td>
<td>2400</td>
</tr>
<tr>
<td>Storage</td>
<td>39</td>
<td>400</td>
</tr>
<tr>
<td>Retail</td>
<td>1</td>
<td>7600</td>
</tr>
<tr>
<td>Restaurant</td>
<td>1</td>
<td>12800</td>
</tr>
<tr>
<td>Lobby</td>
<td>1</td>
<td>5700</td>
</tr>
<tr>
<td>Total SF</td>
<td></td>
<td>622,173</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Budget: $80,000,000</th>
<th>Budget: $80,500,000</th>
<th>Budget: $81,600,000</th>
<th>Actual: $79,567,231</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Area: 85,000 SF</td>
<td>Floor Area: 85,000 SF</td>
<td>Floor Area: 85,700 SF</td>
<td>Floor Area: 84,540 SF</td>
</tr>
<tr>
<td>-</td>
<td>Glazing Area: 20,000 SF</td>
<td>Glazing Area: 19,000 SF</td>
<td>Glazing Area: 21,242 SF</td>
</tr>
<tr>
<td>-</td>
<td>5 Floors</td>
<td>6 Floors</td>
<td>6 Floors</td>
</tr>
</tbody>
</table>
• 24 Hours
• 11 Countries
• 133 Players
• 420 Buildings
• 54,755,153 SF
• Equivalent of 2,800,000 pages of documents.
• Zero Miles Travelled to assemble in one location....
Revit Architecture & Structure - IFC

Archicad IFC

VectorWorks IFC

Nemetshek IFC Viewer

SketchUP IFC

Solibri IFC

Google Earth

Onuma Planning System IFC, KML, GBXML, CSV

Excel

IFC

KML

IFC

IFC

IFC

BIM

FFE

Requiring Corporate Acct. & v.3+

Requires Corporate Acct. & v.3+

Green Building Studio

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Develop a Wide Range of Project Information
BIMstorm Los Angeles used OPS, a web-based BIM application. Teams were encouraged to share their projects online with the rest of the entire virtual team early in their design process.
Enter Data Once - Use it Many Times
Sustainable Use of Data and Knowledge
MISSIONS

Connected to:

PORTFOLIO Management

FACILITIES

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United States Coast Guard
BIM for Life-Cycle Planning and Design

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