

2008 Open Forum for Standards Developers

building SMARTalliance **

Standards Development Collaboration in the Facilities Industry

Presented by

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Open Forum for Standards Developers June 24–25, 2008

National Institute of Building Sciences

- 1974 NIBS Public Law 93-383, Sect. 809
 - Bridge between Private and Public Construction
 - Non-governmental Unique 501(c)3 Organization
 - Unique in that it represents all disciplines in industry
- 1992 Facility Information Council Mission
 - "improve the performance of facilities over their full life-cycle by fostering common and open standards and an integrated life-cycle information model for the A/E/C & FM industry."
- **NIBS Related Products**
 - Construction Criteria Base
 - Whole Building Design Guide
 - National CAD Standard
 - National BIM Standard











NATIONAL BUILDING INFORMAT

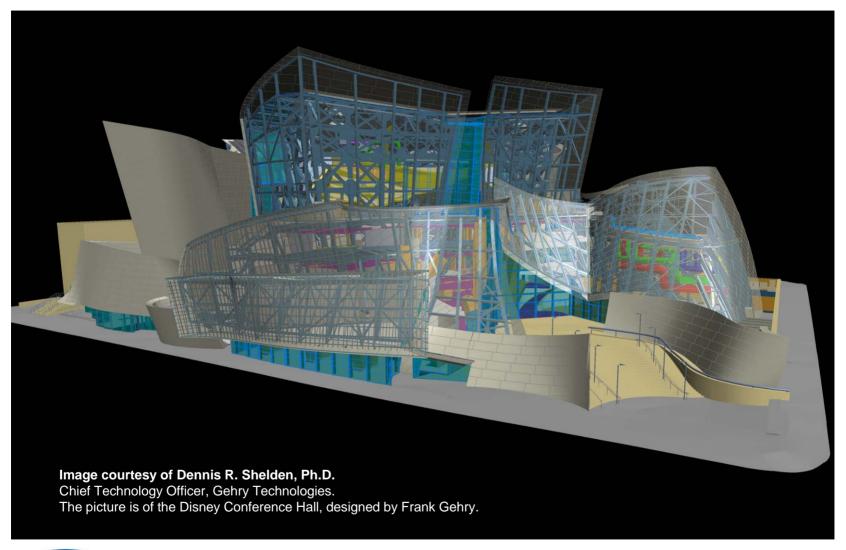
Simple Message

building SMART will deliver...

- a facility sooner
- a lower cost higher quality facility
- a facility with few or no change orders
- a significant reduction in RFI's
- a more energy efficient facility
- a more sustainable facility
- a more environmentally friendly facility



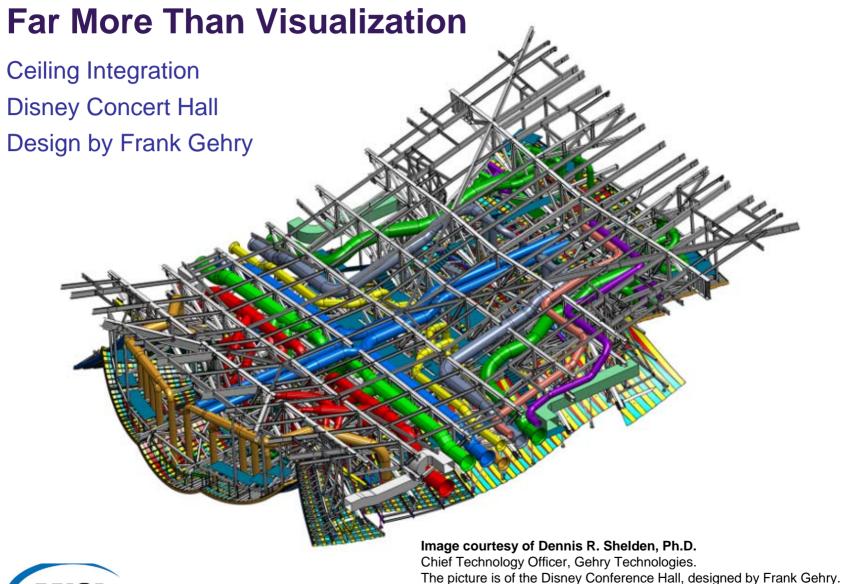
Building Electronically First





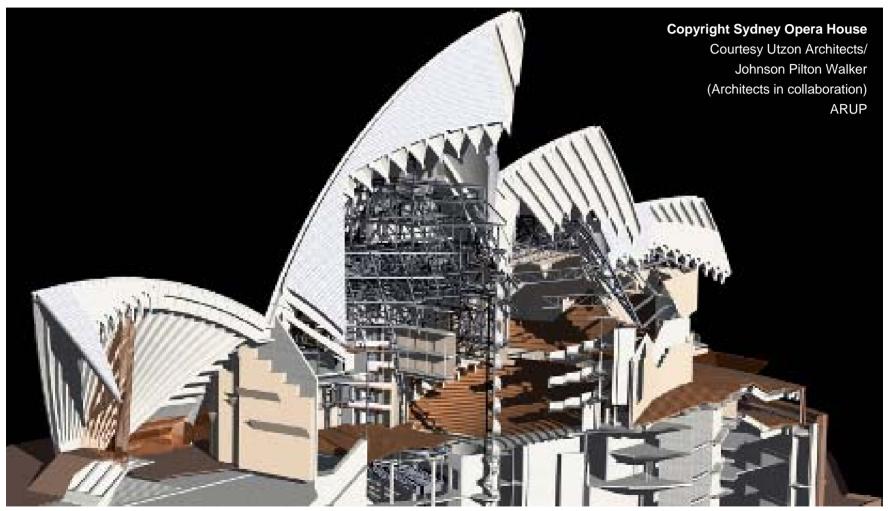
Case Studies:

American National Standards Institute





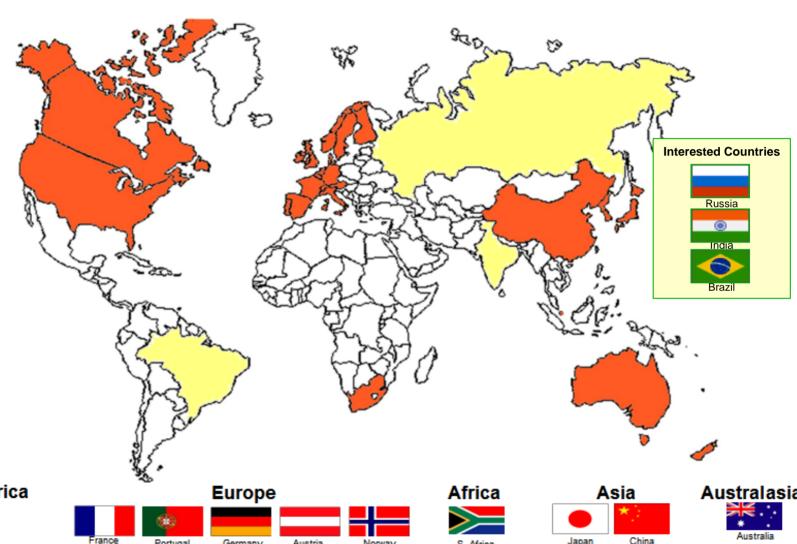
Case Studies: Facility Management





Sectional View of Sydney Opera House

buildingSMART International



North America





Ireland

Italy





S. Africa

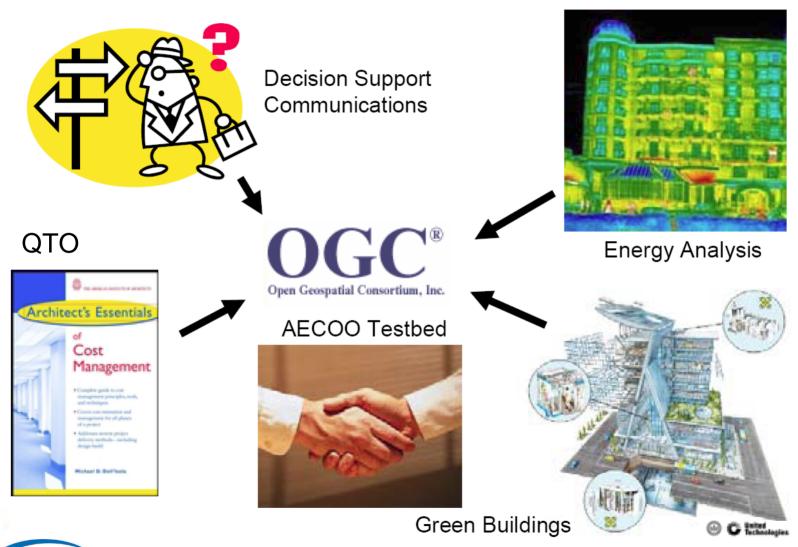




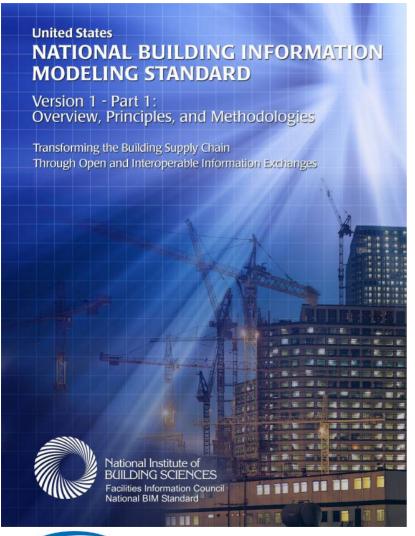


Courtesy of Patrick MacLeamy, HOK

OGC AECOO Testbed – Direct to ISO



National BIM Standard V1 P1



- □ Delivered Dec 27, 2007
- International ISO-based Core
- National Specific
 - OmniClass
- Over 30 contributors
- Being used in Australia and Norway

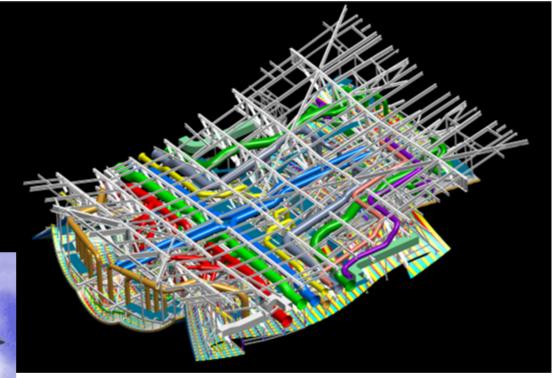
190,000 DOWNLOADS in the first four months



ISO 15926 and ISO/PAS 16739

Both approaches are based on changing business processes.





They have many more similarities than differences.



Image (above) courtesy of Dennis R. Shelden, Ph.D.
Chief Technology Officer, Gehry Technologies.
The picture is of the Disney Conference Hall, designed by Frank Gehry.

Relationships

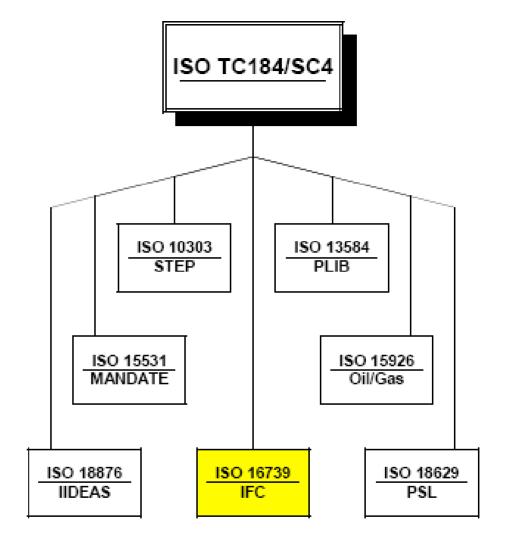


Figure 2 - IFC in the ISO family



Projects: Coordinating Object Definitions



ISO/PAS 16739 (Industry Foundation Class)



ISO 15926 (Process Industry)



Issues and Challenges

- Effort is under resourced
- ☐ ISO standards not well respected in U.S.
- Standards not in forefront of significant problems
- Work is being done on IFC's in Europe and they are currently representing our needs
- Work is outside ANSI chain
 - OGC direct to ISO
 - IFC work direct ISO
- Value not perceived
- □ Not seen as a crisis . . . yet

