BIM and the Structural Steel Business Model

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AISC’s First Technology Effort
Establish a uniform telegraphic code for use of the entire industry, including the mills and the fabricators, to establish a uniformity of reference and to contribute to the economy of telegraphic correspondence in this industry.

AISC Objective November 1922
BIM 1999
ERECTION

DETAIL
FURNISH
FABRICATE
DELIVER

ERECTION

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DETAIL
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#BIMForumED
B + I = M

Design + Means & Methods = Model
Who has information and when?

- Source
- Timing
- Risk
Project Structure and information flow
Who Knows What?

**Design Team:** Geometry & Materials

**Owner:** Transportation, HVAC, Exterior

**General Contractor:** Site Conditions, Sequence

**Steel Team:** Connections, Efficiency, Stability, Safety
Process Efficiency

- Managing XML files – vs. Manually Checking Files
- Simulating Process Work
- Production Planning
- Production Flow
- Bar Coding to MRP software
Challenges

- File Size
- Version Control
- Software Consistency
- Balance Most Efficient with Flexibility
- Knowing if Cart is in Front of the Horse
1922  Telegraphic Standard

2002  Early Involvement

It takes a team and collaboration!
AISC is moving
90% Schematics
Contractor on Board
There’s always a solution in steel.