
WHAT DOES CIS/2 MEAN TO THE STEEL DESIGN AND FABRICATION INDUSTRY?

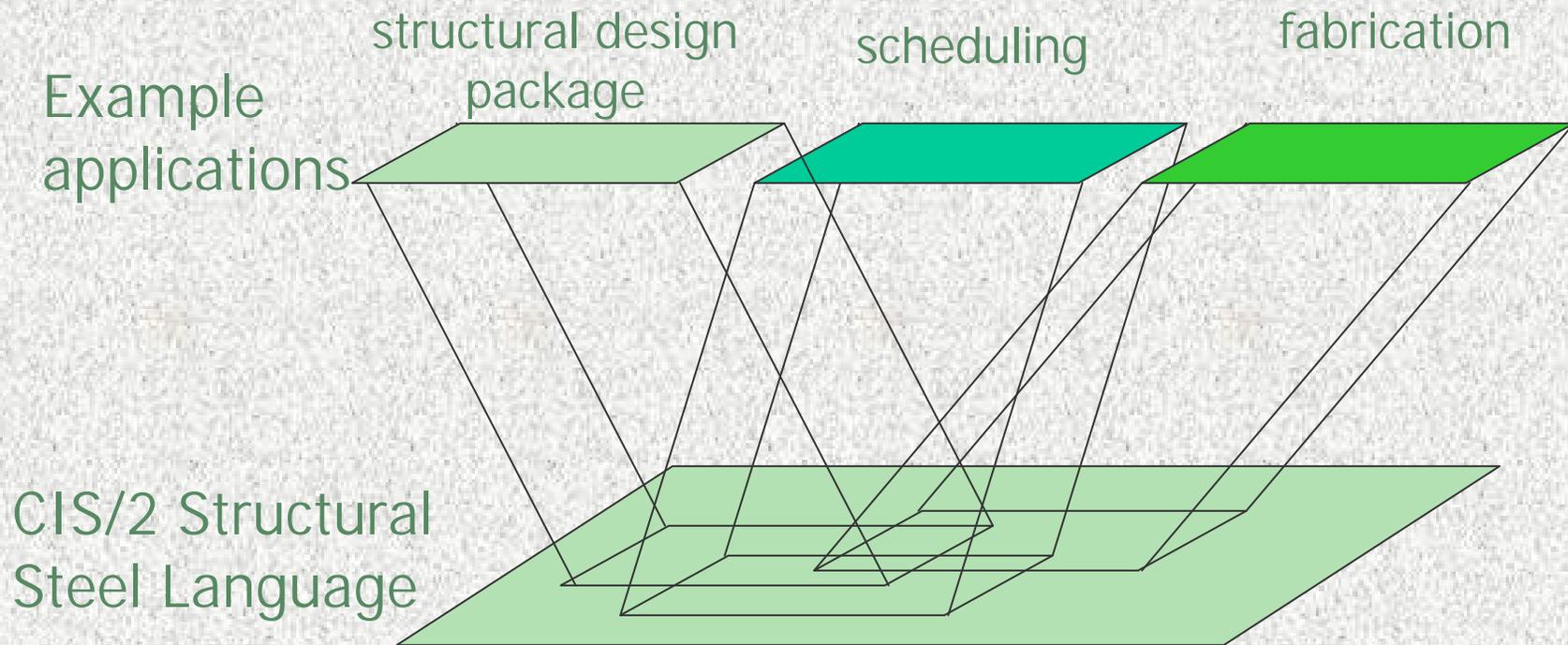
By Chuck Eastman, Professor
leader of the AISC CIS/2 support effort
Georgia Institute of Technology

OVERVIEW

- What is CIS/2?
- How does it help the steel industry
 - designers/contractors?
 - fabricators?
 - erectors?

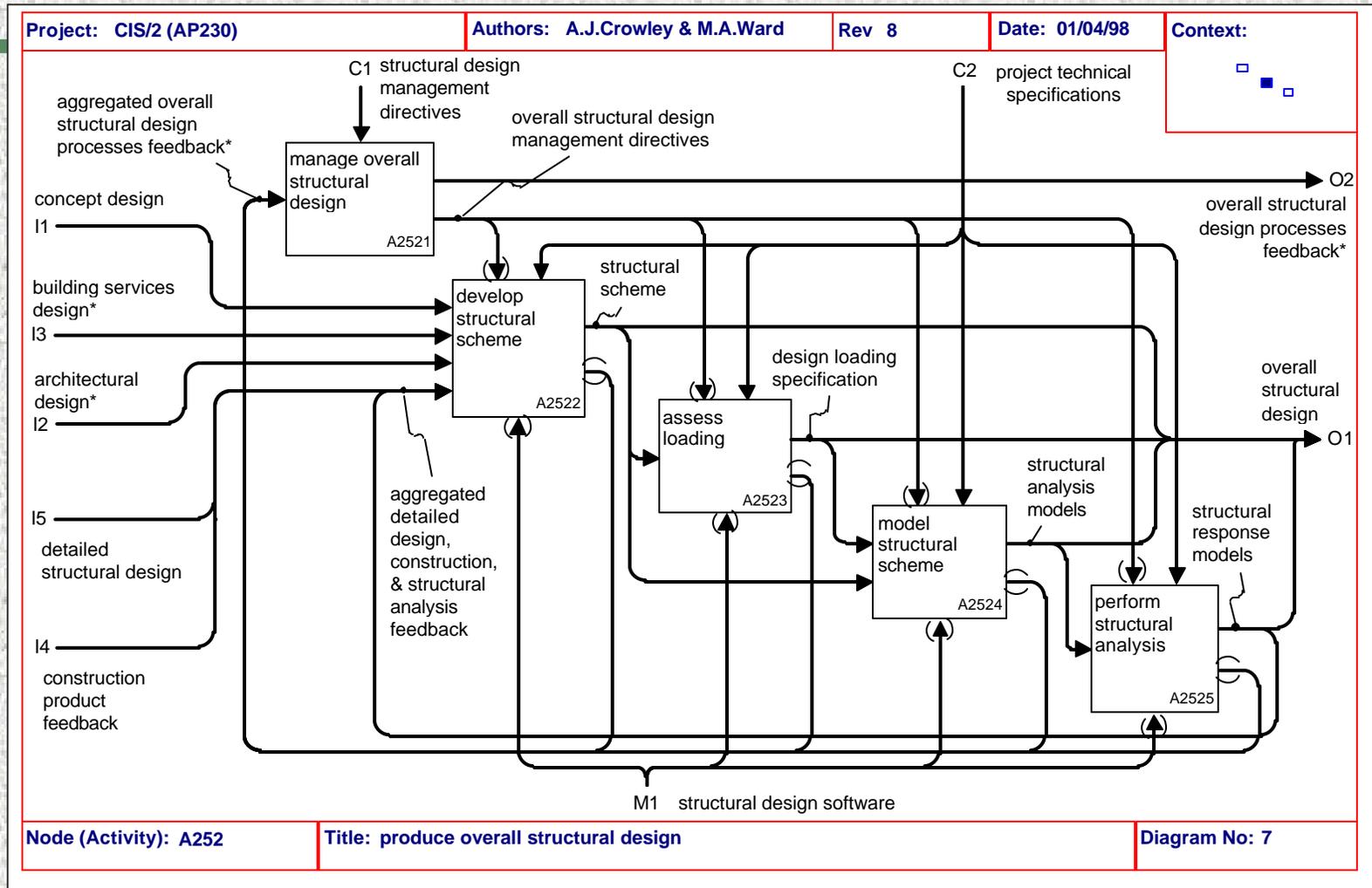
- Why your firm should consider using CIS/2 on a project

What is CIS/2?



CIS/2 covers all information needed for design, analysis, procurement, fabrication planning and fabrication automation

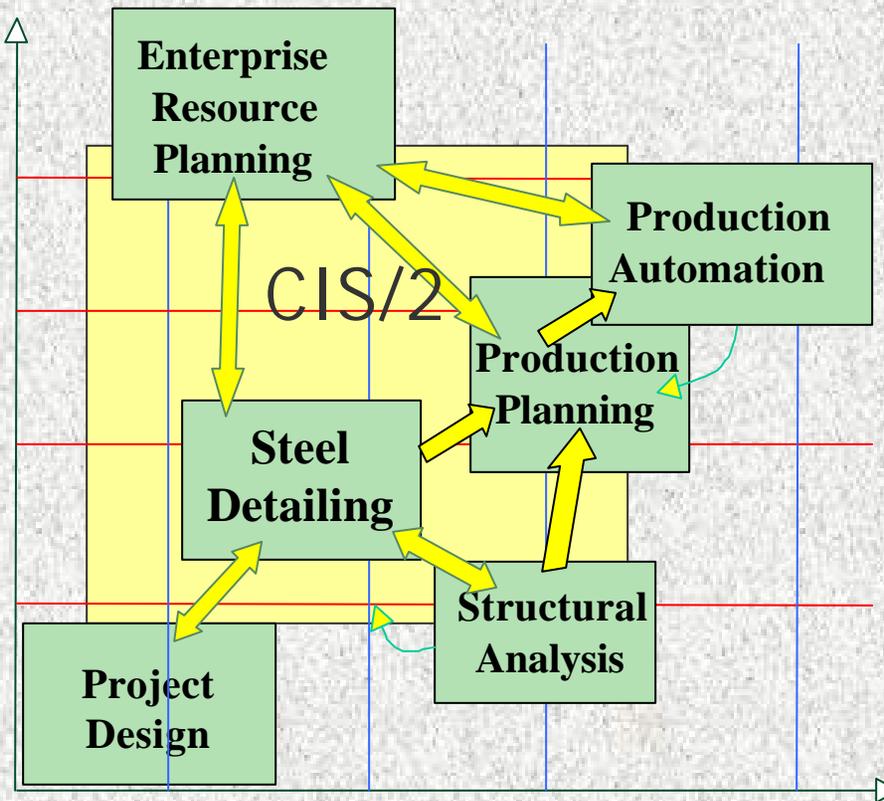
CIS/2 Based on a Detailed Process Model of Structural Steel Activities



What Does CIS/2 Do?

CIS/2 represents information to automate steel design/fabrication at the project level

- allows correctness checking against other systems
- allows fully detailed fabrication planning
- interfaces to structural analysis
- interfaces to ERP and scheduling
- supports NC fabrication



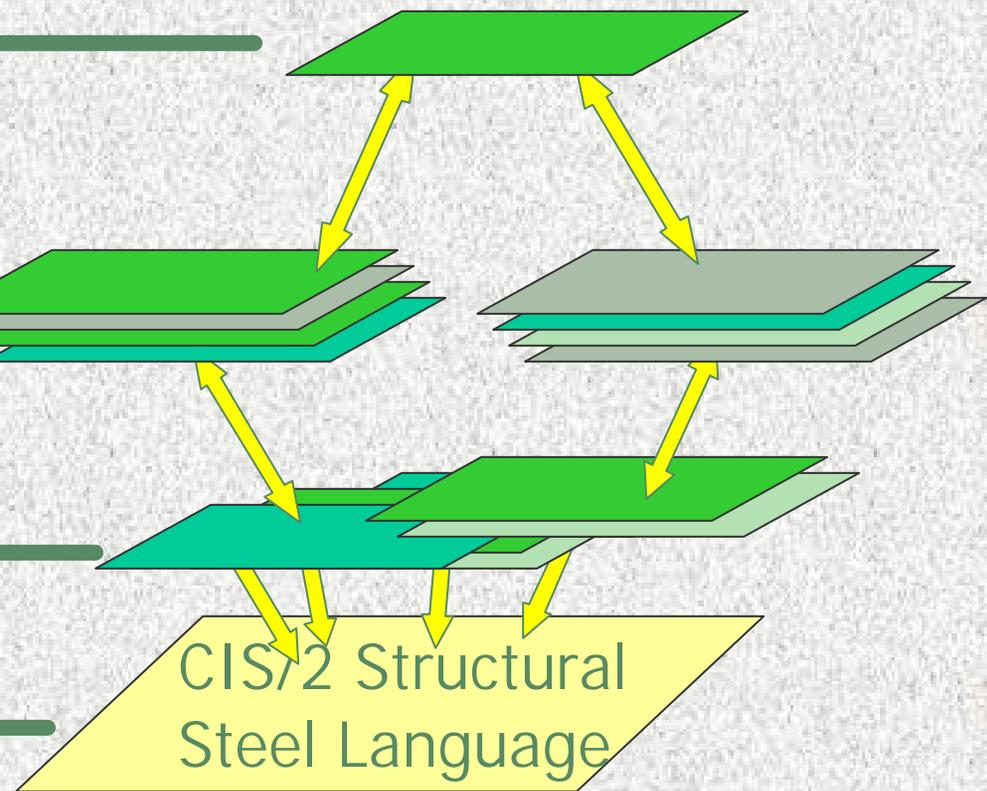
The Beneficiaries of CIS/2

Client/owners

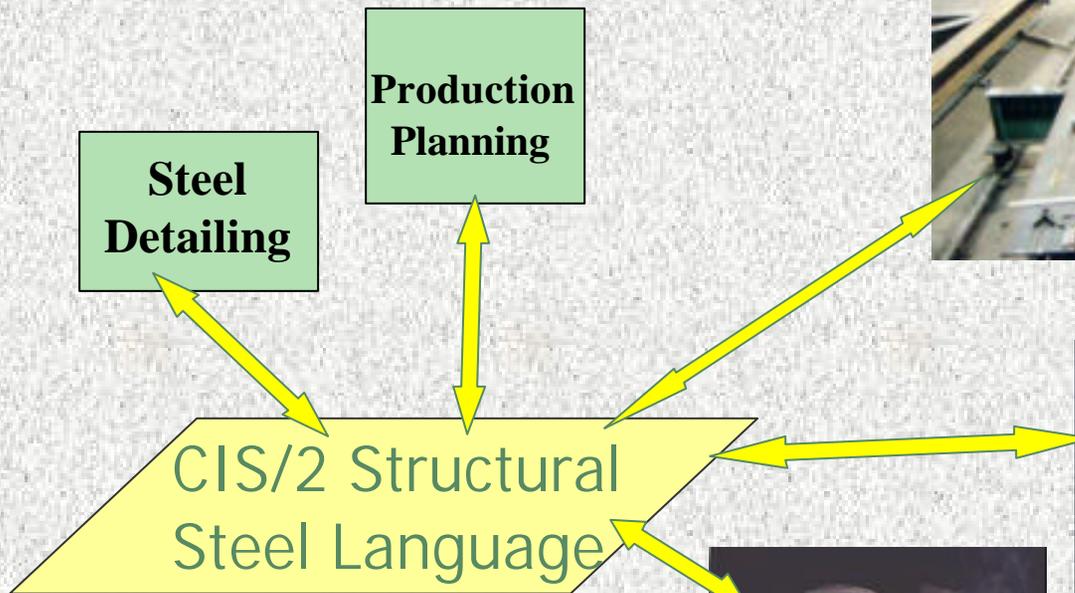
design engineers
fabricators erectors

software developers

industry
standard



What does CIS/2 mean to a design or fabrication shop?



- Fast design coordination
- Faster detailing/engineering
- fabrication automation

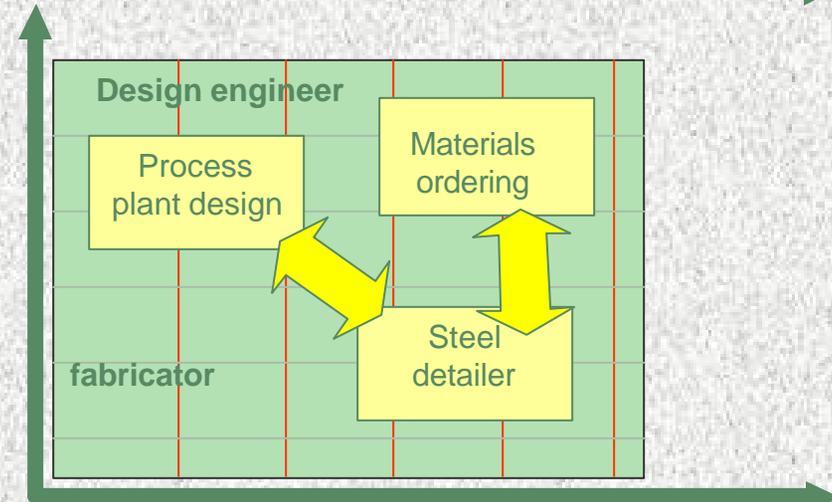
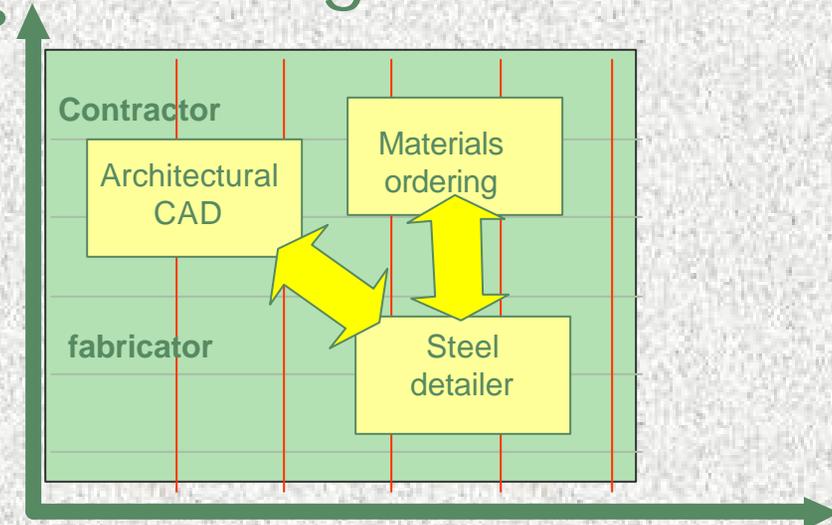
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A critical information flow cluster : pass-off between external design and fabricator

- Faster coordination/ conflict resolution across systems
- Fewer iterations
- Start shop drawings during bidding
- Order materials upon contract signing



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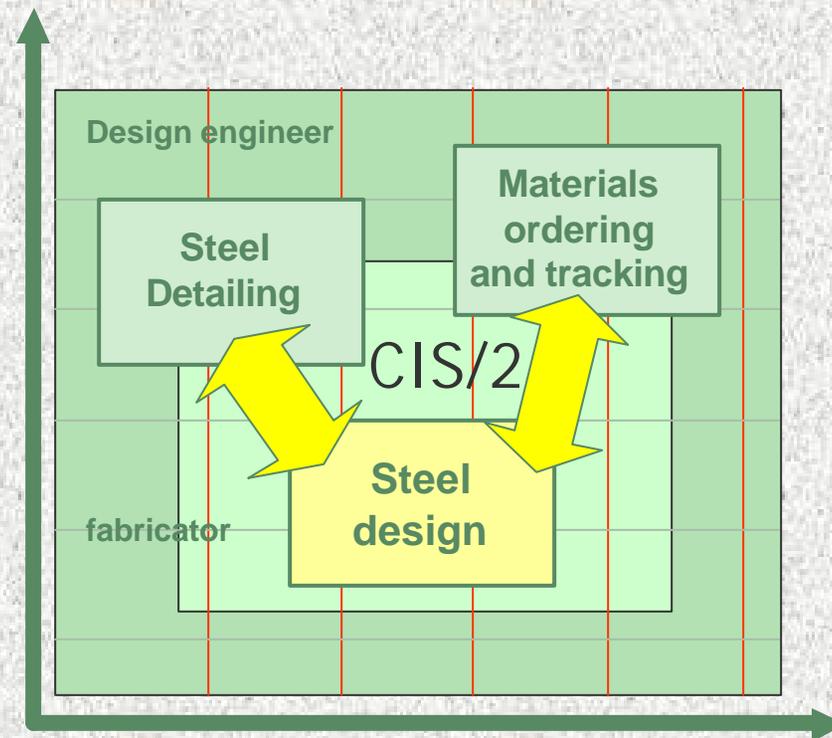
Relevant Systems for Design Engineers/Contractors

Relevant Design Systems:

- Intergraph Frameworks+
- Bentley Structural Triforma

Relevant Materials Ordering and ERP Systems:

- Fabtrol
- BAAN
- J.D. Edwards

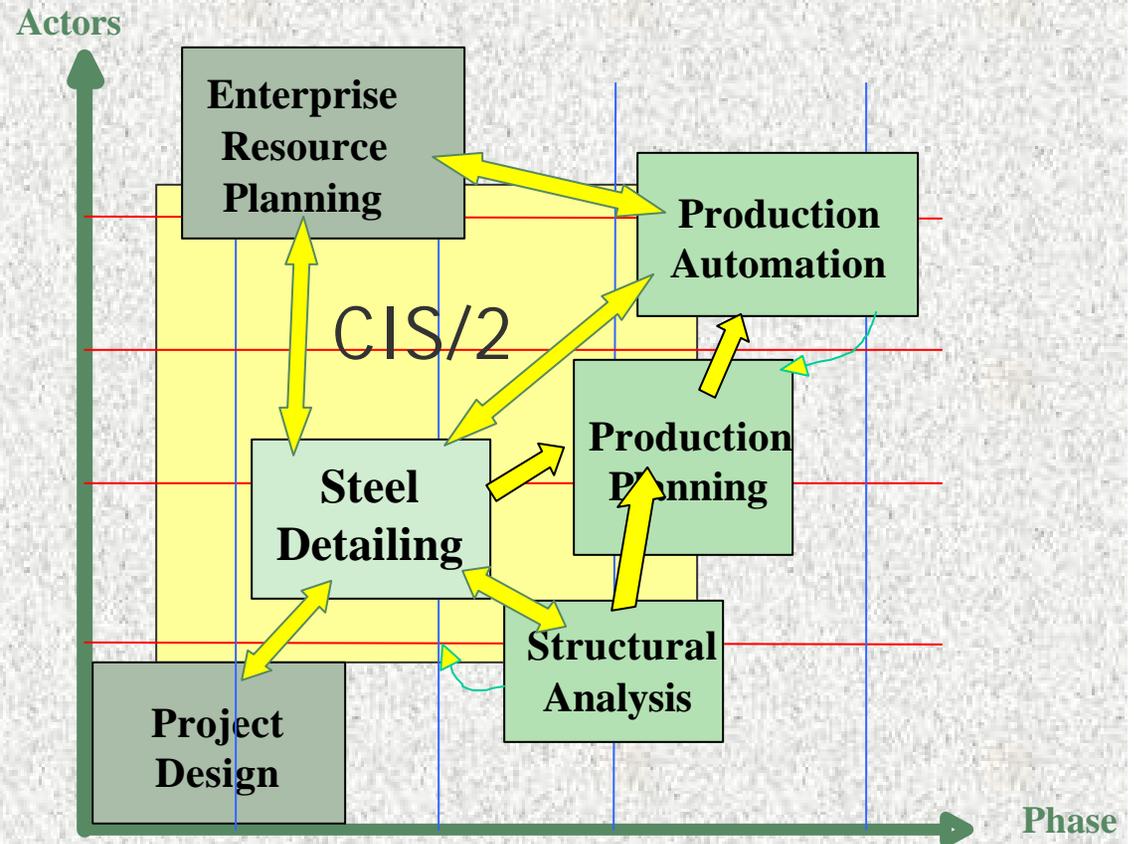


Benefits of CIS/2 for Fabricators

CIS/2 represents information to automate steel fabrication

- allows fully detailed fabrication model
- interfaces from structural analysis for automatic joint detailing
- supports NC fabrication:
 - bending,
 - cutting,
 - drilling,
 - welding,
 - crane movements

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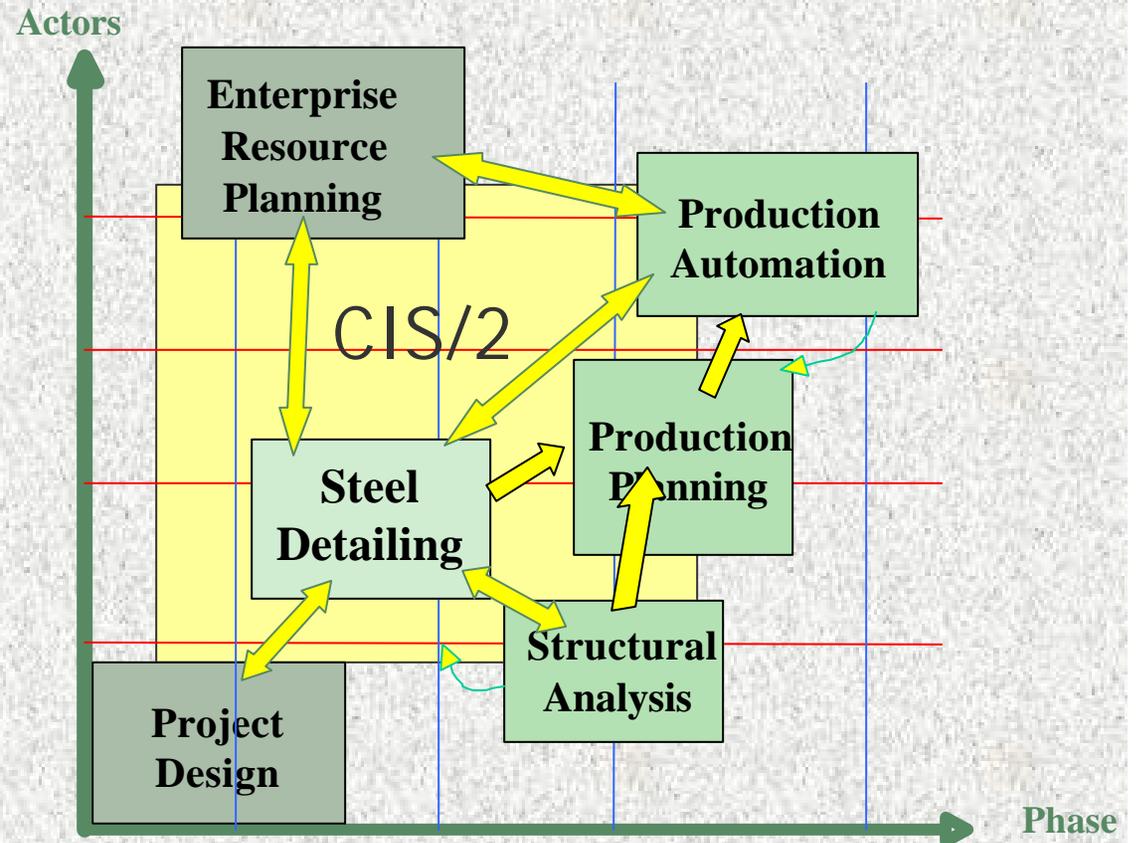
Xsteel, StruCad, SDS/2, 3D+

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Benefits of CIS/2 for Fabricators

Relevant Detailing Systems:

- Design Data SDS/2
- Tekla Xsteel
- CSC 3D+



Xsteel, StruCad, SDS/2, 3D+

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Summary

CIS/2 is a new technology that can provide important benefits to your company and to structural steel construction in general

CIS/2 supports business plan re-engineering, at the design, procurement, fabrication planning, fabrication levels

- lower costs
- higher safety (through automation)
- faster design, production