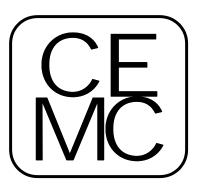
Technology for the Real World



April 27, 2001 Washington, DC

John D. Macomber BuildingVision.net

Objectives



- Help with technology decisions
- Offer model for value system
- Discuss adjacent technologies
- Propose a "real world approach"
- Lead into Q & A session

Growing the Bottom Line

• Grow the top line: more of the same

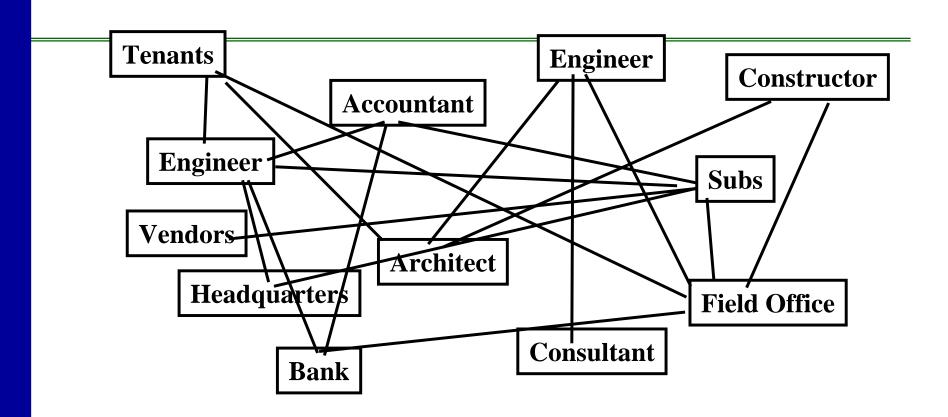
• Increase margins: do something differently

Decrease risk: be more consistent

Any other ways?



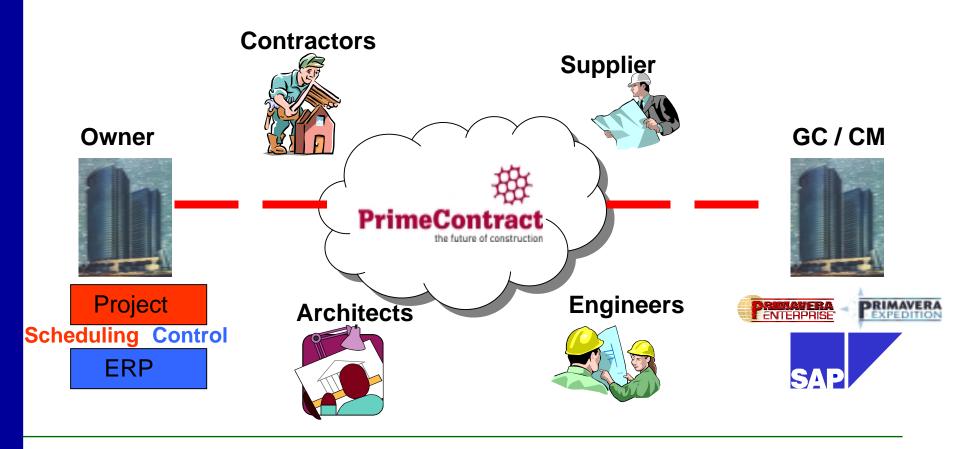
The Communication Problem: Many Participants, No Common Communication Place



Before Extranets: There is no common way to track, communicate, and organize information, view outstanding items, and provide accountability.

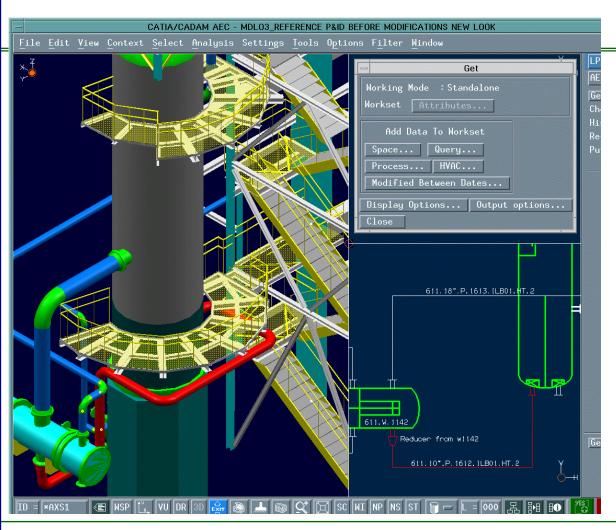
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The Goal: Peer to Peer Project Management



Source: Primavera

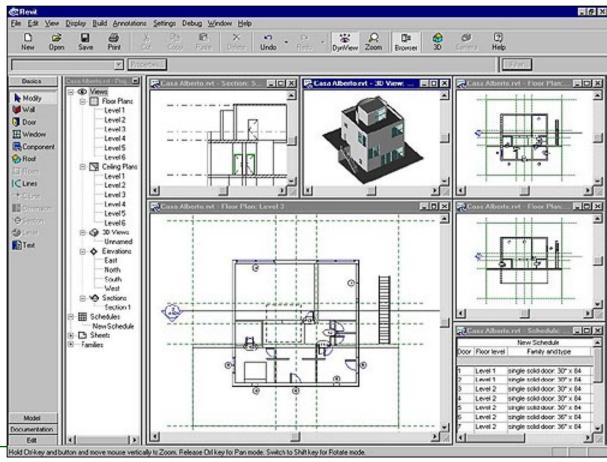
Other ways to have a central communication standard: Shared 3D Model tied to Database



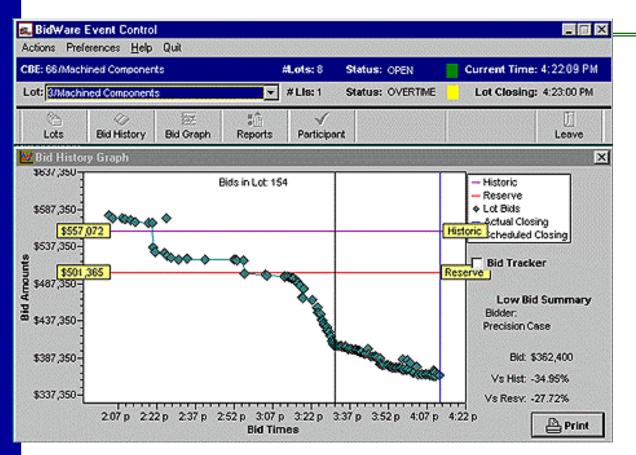
- Image captures design intent in 3D
- All components are tied to database with further information
- This can be changed in real time
- This can be shared with the team in real time
- This is different than static 2D contracts!

Source: IBM/Catia

2D Representation to 3D: Parametric Building Modeling Tied to Shared Data (revit.com)



Other steps to capture value: B2B Internet Bidding

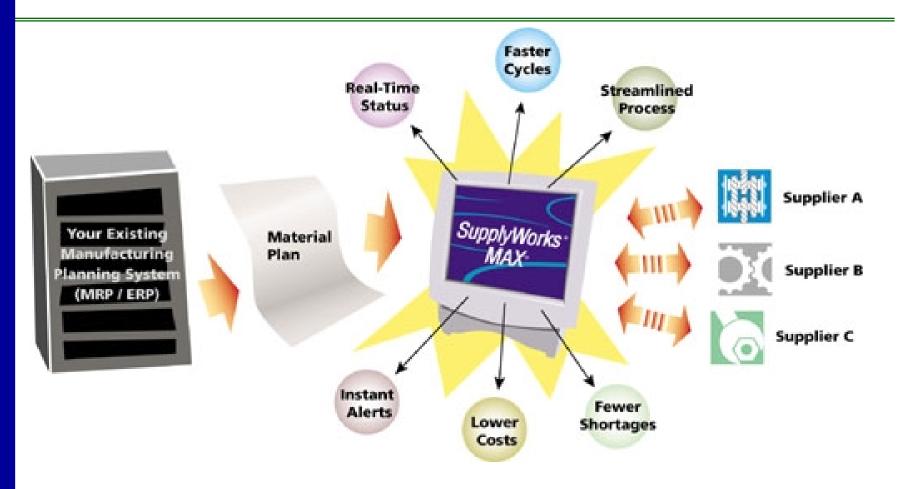


- Graph shows subcontractor price declining in open bid
- Today, Freemarkets.com targets Fortune 100
- Materials and labor are harder than industrial components
- Only big companies can do this
- Project managers could take advantage of the system yet still control the buy locally

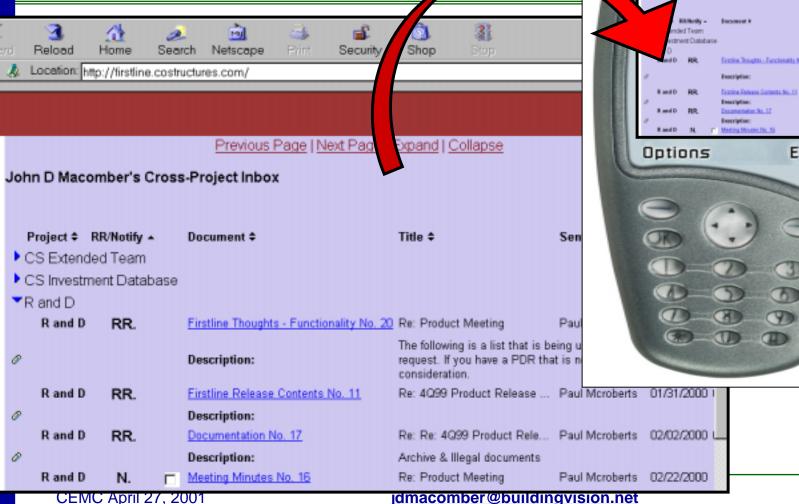
Source: Freemarkets

Planned Coordination with Algorithms: Supply Chain Integration

(supplyworks.com, i2)



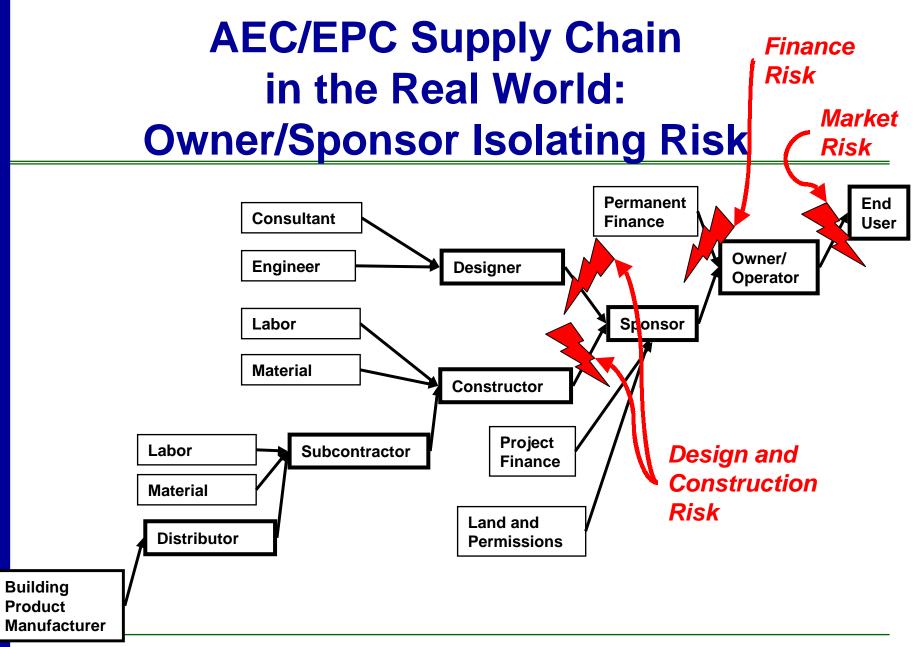
The real world: The field world. Future access = wireless



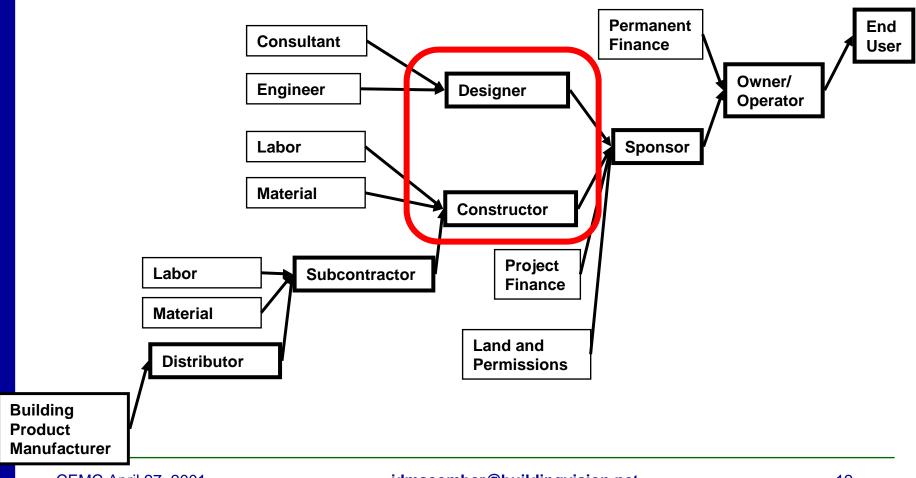
John D Macomber's Cross Project Inbox

End

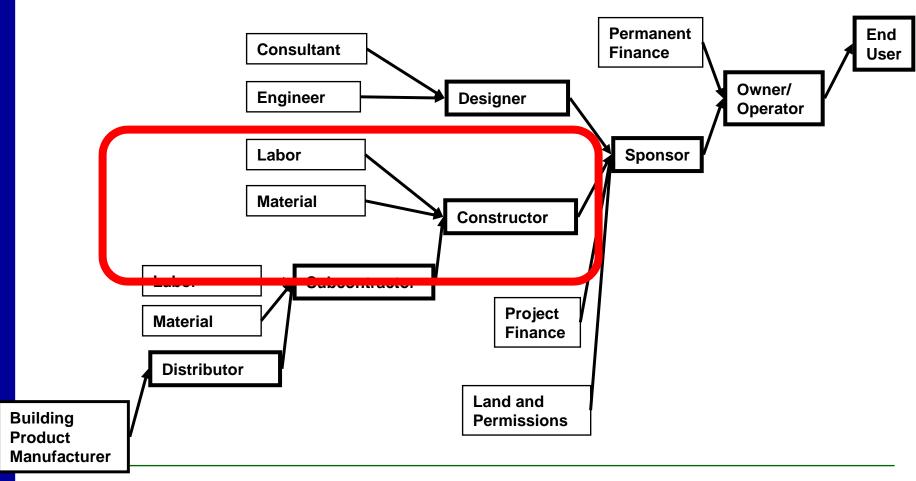
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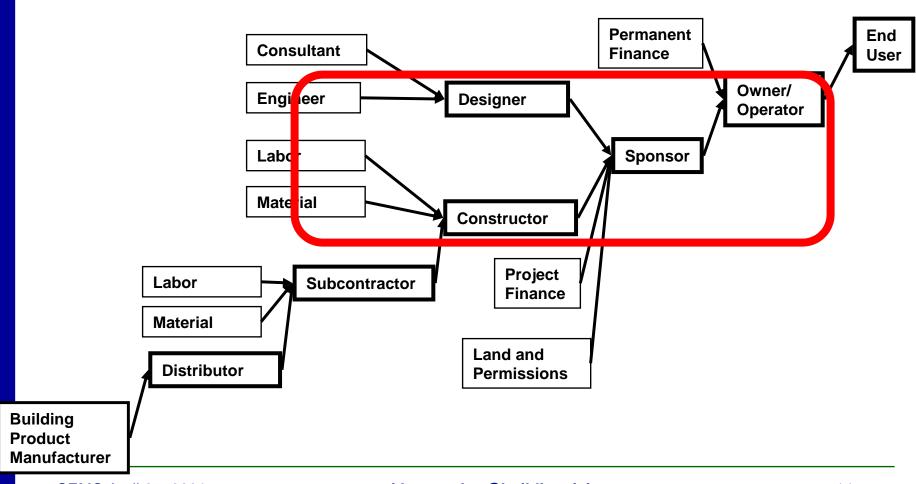
AEC/EPC Supply Chain Business Models: Design - Build with Brokerage



AEC/EPC Supply Chain Business Models: GC with Direct Hire



AEC/EPC Supply Chain Business Models: EPCOM



Technology for the Real World: Considerations for Businesses

Personal comfort Economic risk

Transparency of information Personal effectiveness