The BIM effect

-WARNING -
Some objects seen in this Presentation may not apply to California Hospitals

Frank Peters, Corp Construction Modeling Mgr
• Banner Gateway Medical Center
• 383,000 sq-ft, ~$200+ Million
• 5-story, 171-bed tower
• 3 level Diagnostic and treatment
Traditional Delivery: Decreasing Productivity

Construction & Non-Farm Labor Productivity Index (1964-2003)

Sources: US Dept. of Commerce, Bureau of Labor Statistics
Traditional Delivery: Waste

Manufacturing
- Productive Time
- Waste 12%

Construction
- Waste 57%
- Productive Time
Benefits experienced

• 3D coordination = “field fix” avoidance.
• High level of predictability.
• Reduced number of RFI’s and the time wasted waiting for answers.
• 15% time savings to schedule.
• Higher level of fabrication and installation Quality.
In Summary …

• MEP 3D Coordination as Standard-Operating-Procedure (how could we do it any other way?)

• Design-for-Constructability into Design Documents (bridge the means and methods divide).

• Need to get Coordinated models into a single BIM source (Design<->Shops Drawings)