

IPD: Lessons from the Trenches

AGC of America Project Delivery Committee

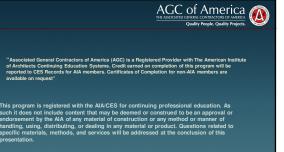
IPD Working Group

February 26, 2009

Moderator: Michael Kenig, Chair – AGC Project Delivery Committee, Vice Chairman, Holder Construction Company

John Tocci, Sr., Chief Enabling Officer, Tocci Building Companies, Chair of AGC BIMForum

Jim Frey, Sr. Vice President, Alberici Group, Inc, AGC IPD Working Group





AGC of America

Learning Objectives

- Define Integrated Project Delivery (IPD)
- Recognize the advantages and disadvantages of IPD
- Identify IPD best practices
- Explain how the project and stakeholders benefit on IPD projects



Overview

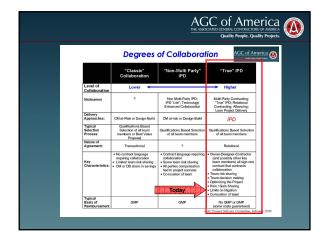
- · Welcome and Webinar Instructions
- Brief Introduction to Integrated Project Delivery
- Case Study: Alberici Constructors
- Case Study: Tocci Building Companies
- Moderated Discussion
- Wrap Up





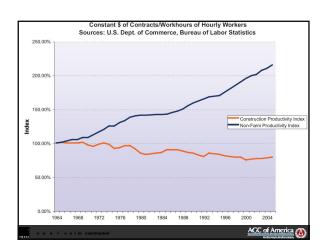
Introduction John Tocci, Sr., CEO, Tocci Building Companies

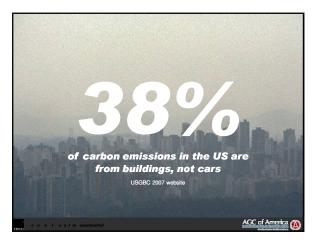


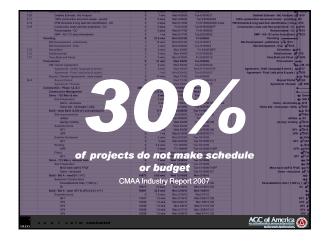








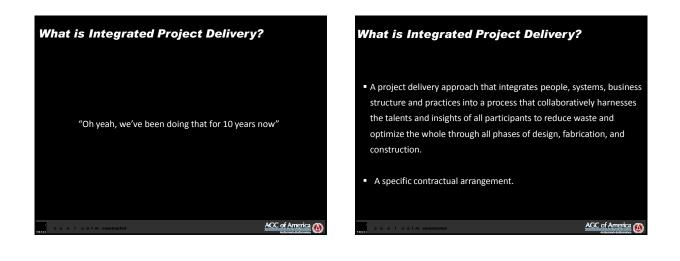


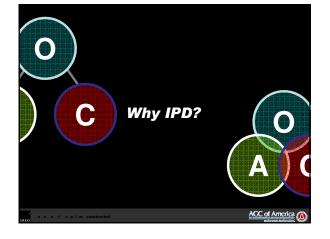


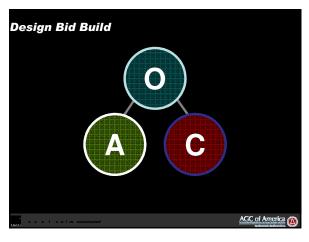


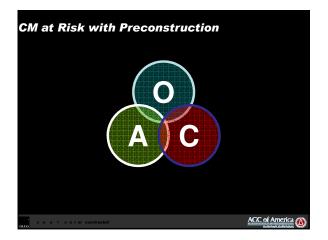


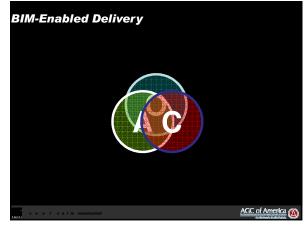




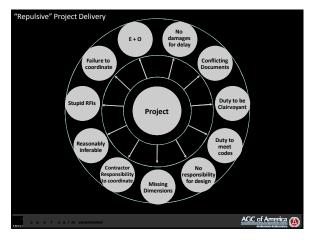


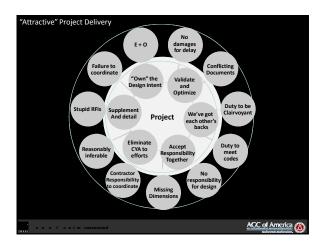










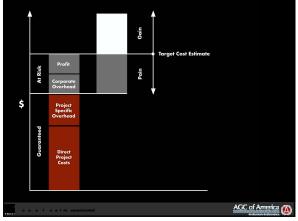






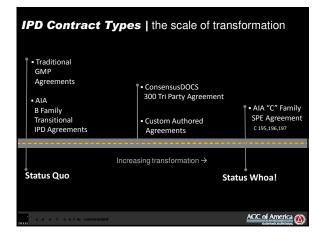






Typical Performance Goals List • Delivering the Owner's Program • Design Quality • Schedule • Sudget • Sustainability • Lean delivery • Long term value • Conference Conference

List of IPD projects in the USA SSM Cardinal Glennon Children's Medical Center SSM St. Clare Health Center, St. Louis Multiple Sutter Health projects Autodesk Waltham Autodesk Waltham Morthbay Healthcare BJC Healthcare



Consensus Documents and Others

ConsensusDOCS

- ConsenusDOCS 300 Standard Form of Tri-Party Agreement for Collaborative Project Delivery
- ConsensusDOCS 301 BIM Addendum

Privately Authored Docs

- Sutter Health Templates by Will Lichtig
- Autodesk and other private contracts by Howard Ashcraft, Pat O'Connor and others
- Surgically modified two-headed dogs

ACC of America

AIA Contract Documents

Transitional Agreements

- A195 Standard Form of Agreement Between Owner and Contactor for IPD
- B195 Standard Form of Agreement Between Owner and Architect for IPD
- A295 General Conditions of the Contract for IPD

Single Purpose Entity

- C195 Standard Form of Single Purpose Entity Agreement for IPD
- C196 Standard Form of Agreement Between SPE and Owner for IPD
- C197 Standard Form of Agreement Between SPE and Non-owner Member for IPD

cool calm constructed

AGC of America 🙆

IPD Benefits for Owners

- Designers and contractors together "own" your program and vision
- Continuous design validation and optimization
- Zero non-discretionary change orders
- Faster
- Lower final cost
- Owner advocates everywhere
- More building for the dollar

I c a Im constructed

AGC of America 🚳

IPD Benefits for <u>Architects</u>

- True Alignment with your Builder
 - Joint 'ownership' of your Design
 - Design quality is the builders (financial) goal
- Eliminates out of pocket losses
- 85% liability risk reduction
- Significant upside fee potential
- More building for the money
- IPD magic

ACC of America

IPD Benefits for Contractors

- Eliminates conflict
- Participation in the creative process
- Higher quality subcontractors
- Smarter, leaner, safer and faster
- Builds relationships and repeat clients

Unemployment of your attorneys

- Lowers risk







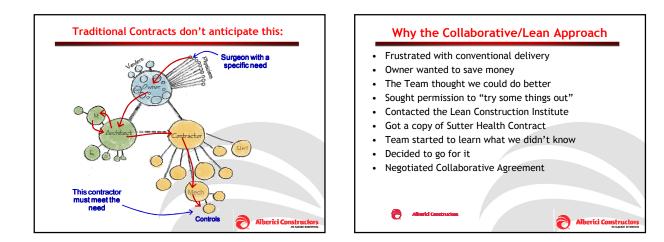


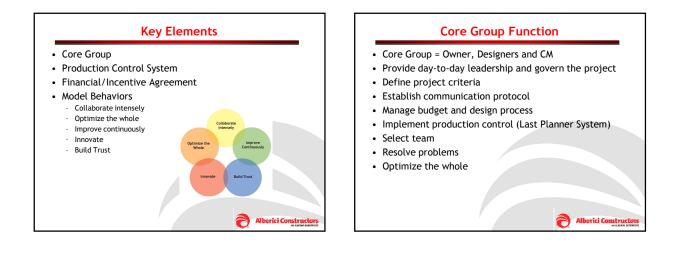


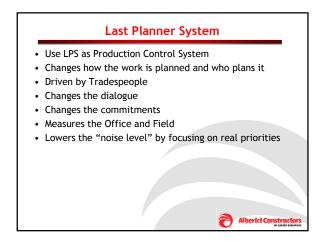
Alberici Case Study Jim Frey, Sr. Vice President

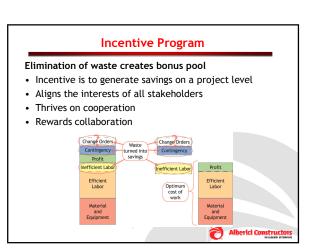


Cardinal Glennon Case Study Project • \$46M 117,000 SF expansion on a congested urban campus with ongoing operations • 60 Bed neo-natal intensive care unit (NICU) • 10 new surgical suites • 10 bay pediatric acute care unit (PACU) • Radiology • Clinical Lab • Central Sterile





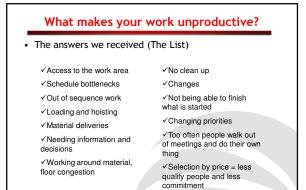




Select Subcontractors

- Team selection is critically important
- Criteria for selecting Contractors and Designers
 - Willingness to embrace innovation
 - Use Open Book approach
 - Select early enough to participate in design
 - Selected on value, not necessarily low priceProvide confidence-inspiring expertise
 - Willing to collaborate
- Interviewed contractors including field personnel (The
- List)

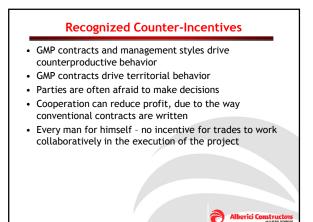
Alberici Construc

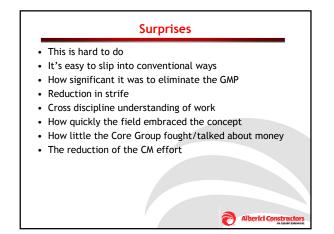


Alberici Construc

2

What makes your work unproductive? • The answers we received (The List) continued ✓No consequence for failure to ✓Lack of accountability by meet commitments other team members ✓ Sequence, wall studs too early ✓"Show" work, show pipe ✓Redoing and undoing work ✓Jumping around ✓Moving material ✓Late drawing approvals ✓Uncoordinated design drawings ✓ Other trades in the way ✓Compressed time and spiking ✓Not having answers to manpower questions ✓ Real issues not addressed in ✓ Conflicting motivations coordination meetings ✓Waiting ✓Lack of schedule commitment Alberici Construct

















The Results
Only 63 RFIs
2.1% savings from original construction budget
Owner re-invested its portion of savings in added scope
No change orders that added cost
No disputes or claims
Project completed 45 days ahead of schedule even with additional scope of work
High morale - a preferred site
High quality
8 minor first aid cases and no Lost Time Injuries
Alberici Constructors





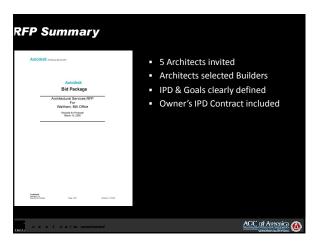
Tocci Case Study John Tocci, Sr. , Chief Enabling Officer

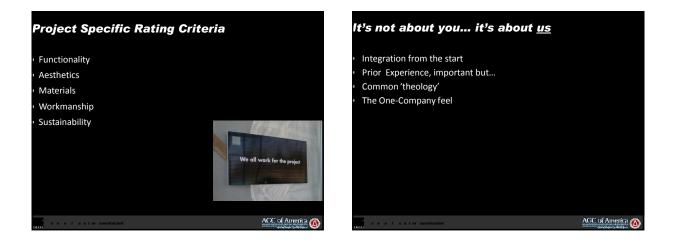


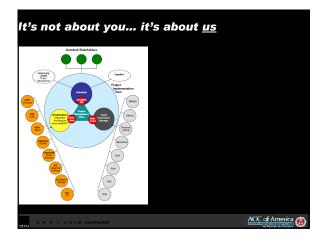


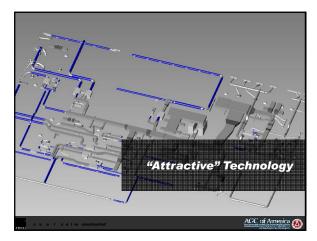




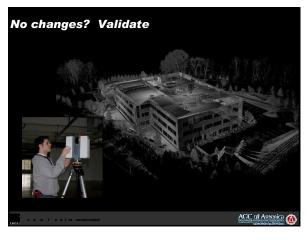


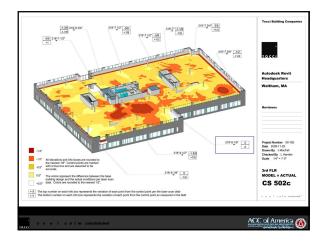


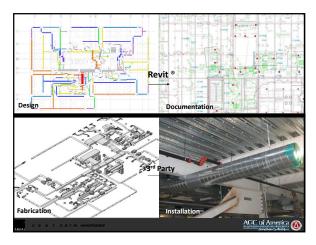








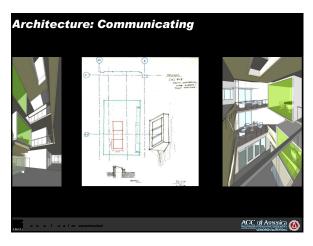


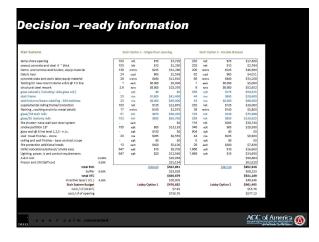


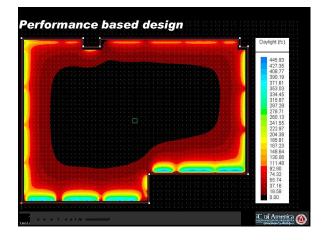






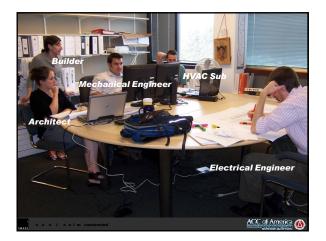




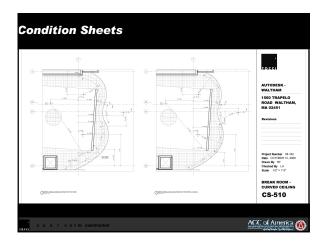


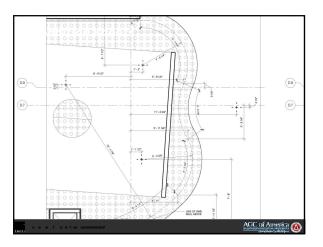




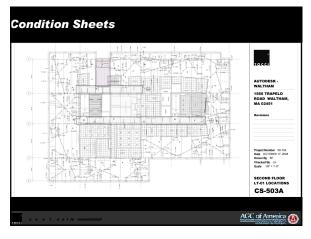


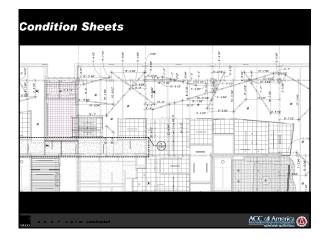






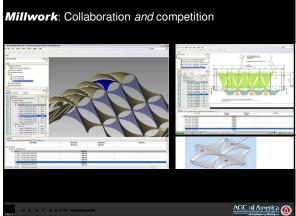


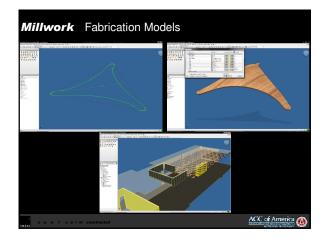






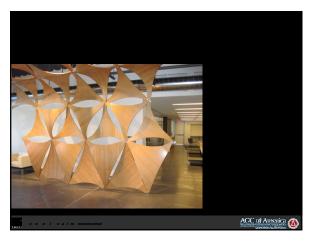


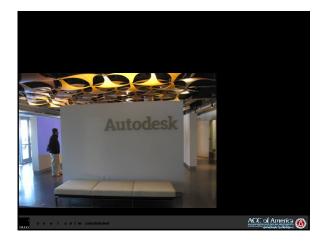


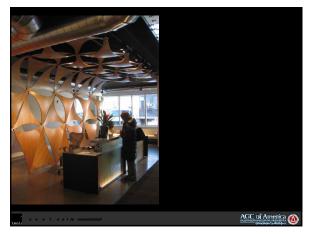














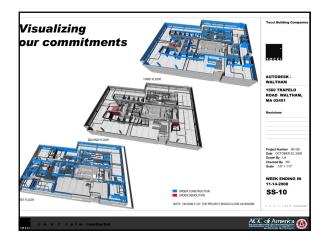




















ACC of America Resource county restrictions with the second of the seco



AGC of America

"IPD Related" Events - AGC Convention

- Thursday, March 5, 2009 8:30 AM 10:00 AM
 Construction Law Track: BIM, Integrated Project Delivery & Design Liability - Cashing in on Collaboration
 Speakers: Frank Musica and Gene Todaro, Victor O. Schinnerer & Co., Inc.
- Thursday, March 5, 2009 2:00 PM 3:30 PM
 Construction Law Track: An Overview and Comparison of the
 ConsensusDOCS 300 Tri-Party Agreement and the 301 BIM
 Addendum and the AIA document on Integrated Project Delivery
 Speakers: Rick Lowe, Duane Morris LLP and Patrick O'Connor, Duane Morris LLP
- Thursday, March 5, 2009 3:30 PM 5:00 PM
 Building Contractors Division Session: Lessons Learned from a Fully
 Integrated Project That is Utilizing a Six Party Agreement
 Speakers: Jeff Freese, Tarlton Corp. and Clay Goser, BJC Healthcare

AGC of America

Other AGC "IPD Related" Events

- AGC BIMForum Meetings (www.bimforum.org)
 - May 28-29, 2009 Dallas
 - October 8-9, 2009 Philadelphia
- ConsensusDOCS (www.consensusdocs.org)
- AGC of Massachusetts The Wave of the Future: IPD and BIM (https://www.agcmass.org/register.cfm?Evnt_ID=997)

More Questions?



On behalf of the AGC Project Delivery Committee, thank you for your time!

This concludes The American Institute of Architects Continuing Education Systems Program.