

Broadening the Perspective of Technology in Architectural Practice

October 19, 2012 | Stanford, CA
Stanford University Center for Integrated Facility Engineering

Practice Management KC

Update via GoToMeeting

Rena Klein, FAIA



Broadening the Perspective of Technology in Architectural Practice is registered with AIA CES.

Online + Components: **TAP101912W**

Stanford CIFE Live Event: **TAP101912S**

Questions? Contact tap@aia.org

Practice Management

AIA Knowledge Communities



AIA Practice Management Knowledge Community

- **10,800+ members**
- **Dedicated to sharing practice management knowledge**
 - www.aia.org/pm
- **Practice Management Digest**
 - Quarterly by email (free)
- **Best Practices**
 - Hundreds online at aia.org/practicing/bestpractices/index.htm (free)

Practice Management

AIA Knowledge Communities



AIA Practice Management Knowledge Community

- **Webinars**
 - Approx. 6 per year (free)
- **Web Presence and Outreach**
 - Architect's Knowledge Resource and LinkedIn (free)
- **Convention Programming**
 - Practice Management Lunch, Marketing Media Exchange and Seminars
- **Annual Fall Conference**
 - 2013 Hybrid Conference PM/TAP/PD

re·inventing practice

September 19, 2012

Atlanta, Georgia

re: re·inventing architecture
atlanta, GA
loews atlanta hotel

2012

 **AIA** **SAR**
Georgia | North Carolina | South Carolina
South Atlantic Regional Conference
september 19-22

PMKC

Workshop Schedule

8:30 – 9:45 a.m.

Session I: Keynote Address

James Cramer, Hon. AIA *Emerging Trends in Practice*

10:00 – noon

Session II: Overview and Tools

Linda Reeder, AIA

Emerging Practices Overview

Tony Rinella, AIA

Emerging Collaborative Technology

noon – 1:00 p.m.

Lunch

PMKC

Workshop Schedule

1:00-2:30 p.m.

Session III: Case Studies

Gustavo Berenblum, AIA *Berenblum Busch Architecture,*
Miami, FL

Aaron Greven, AIA *AG Design Works, Chicago, IL*

2:30-2:45 p.m.

Break

2:45-4:15 p.m.

Session III: Case Studies, cont.

James MacManus, FAIA *S/L/A/M Collaborative,*
Glastonbury, CT

Karen Pitsley, AIA &
David Nicks, AIA *Transforming Architecture,*
Highland, MD

4:15-5:00 p.m.

Concluding Session

Elements of Successful Collaboration:

Firms and People

- Choose appropriate collaborators
- Familiarity between some players from different firms
- Trust and respect between firms and people

Elements of Successful Collaboration:

Emotional Intelligence of Groups

Three essential conditions:

- Trust among members
- Sense of group identity
- Sense of group efficacy

(Druskatt and Wolff, 2009)

Elements of Successful Collaboration: Communication

- Determine preferred method of communication early
- Virtual tools
- Face-to-face meetings
 - Kick off
 - Progress
- Recognize and accept different firm cultures, decision-making styles

When considering collaboration...

...be able to answer the following questions:

- What is the value proposition of the collaboration—the value to be created?
- How will you share the reward?
- What are the risks, and how will we manage them?
- What are the disruptive impacts on the collaborative venture that need to be anticipated prior to its establishment?
- How do we build a collaborative mind-set?

-Adapted from Welborn and Kasten, 2003

re:inventing practice



AIA PMKC SAR Conference, Sept. 19, 2012

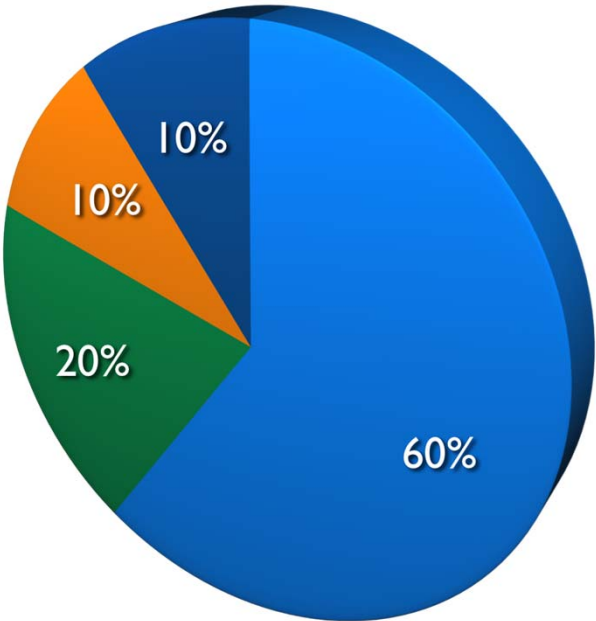
Gustavo Berenblum, AIA



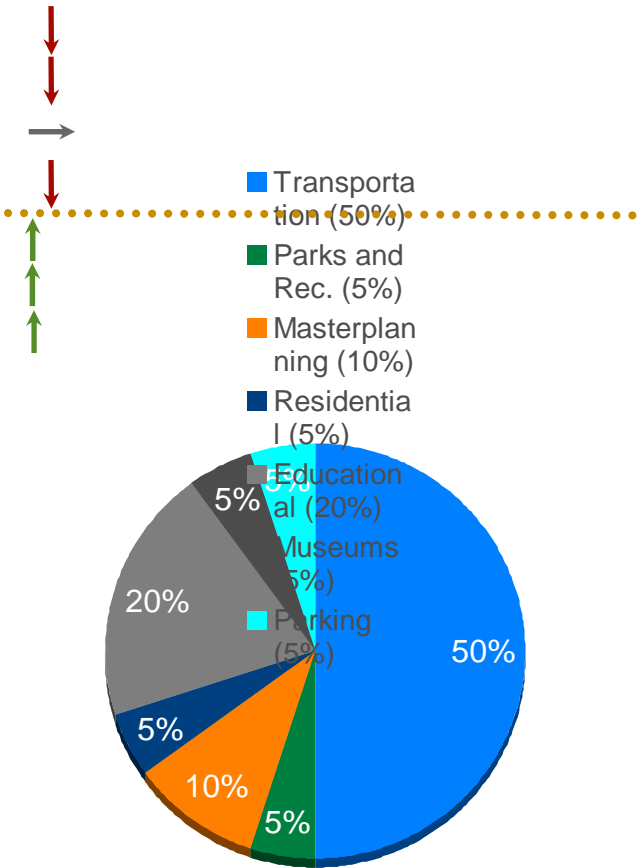
Project Distribution

Before Partnering

- Transportation (60%)
- Parks and Rec. (20%)
- Masterplanning (10%)
- Residential (10%)

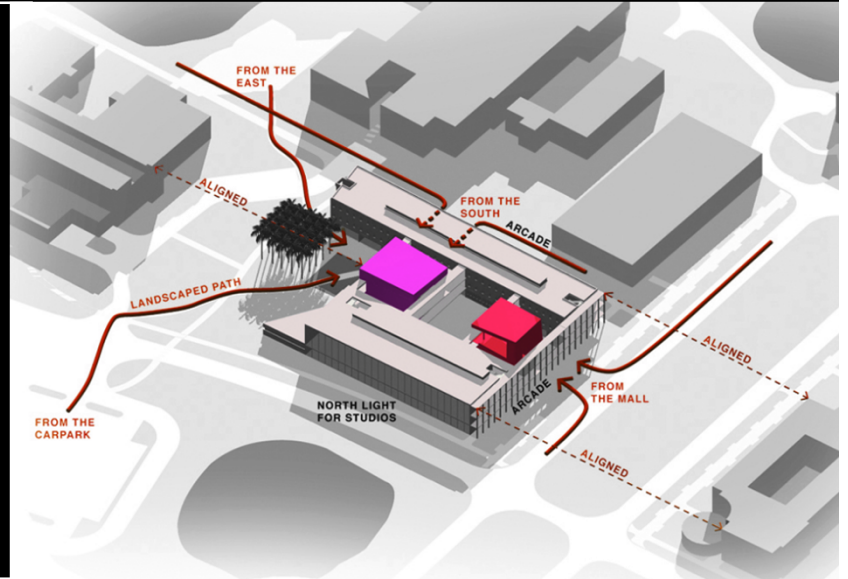
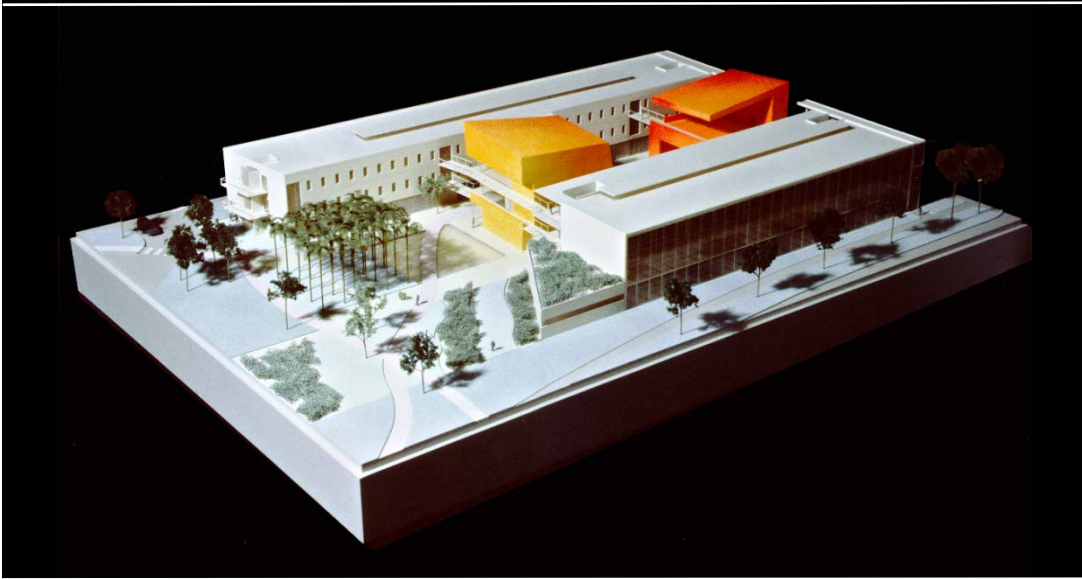


After Partnering



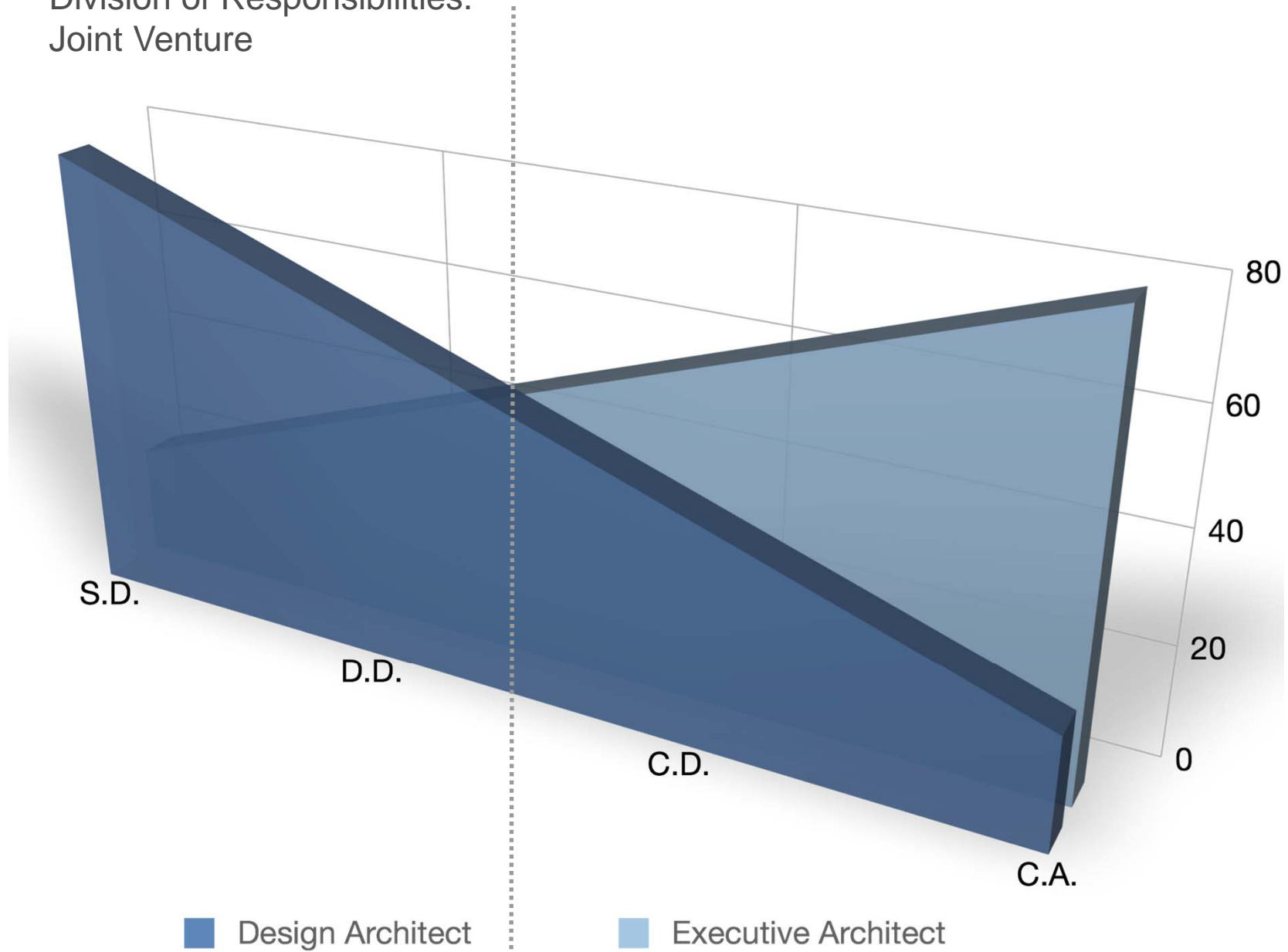
Case Study 1

Florida International University. New School of Architecture. 1999-2002.
J.V. with Bernard Tschumi



- Won through an International Design Competition
- Joint Venture between: Bernard Tschumi Architects and BEA International
- 87,000 sf building for a Public University located within the University Campus
- Extremely tight budget!!!! Less than \$200sf in today's \$

Division of Responsibilities. Joint Venture



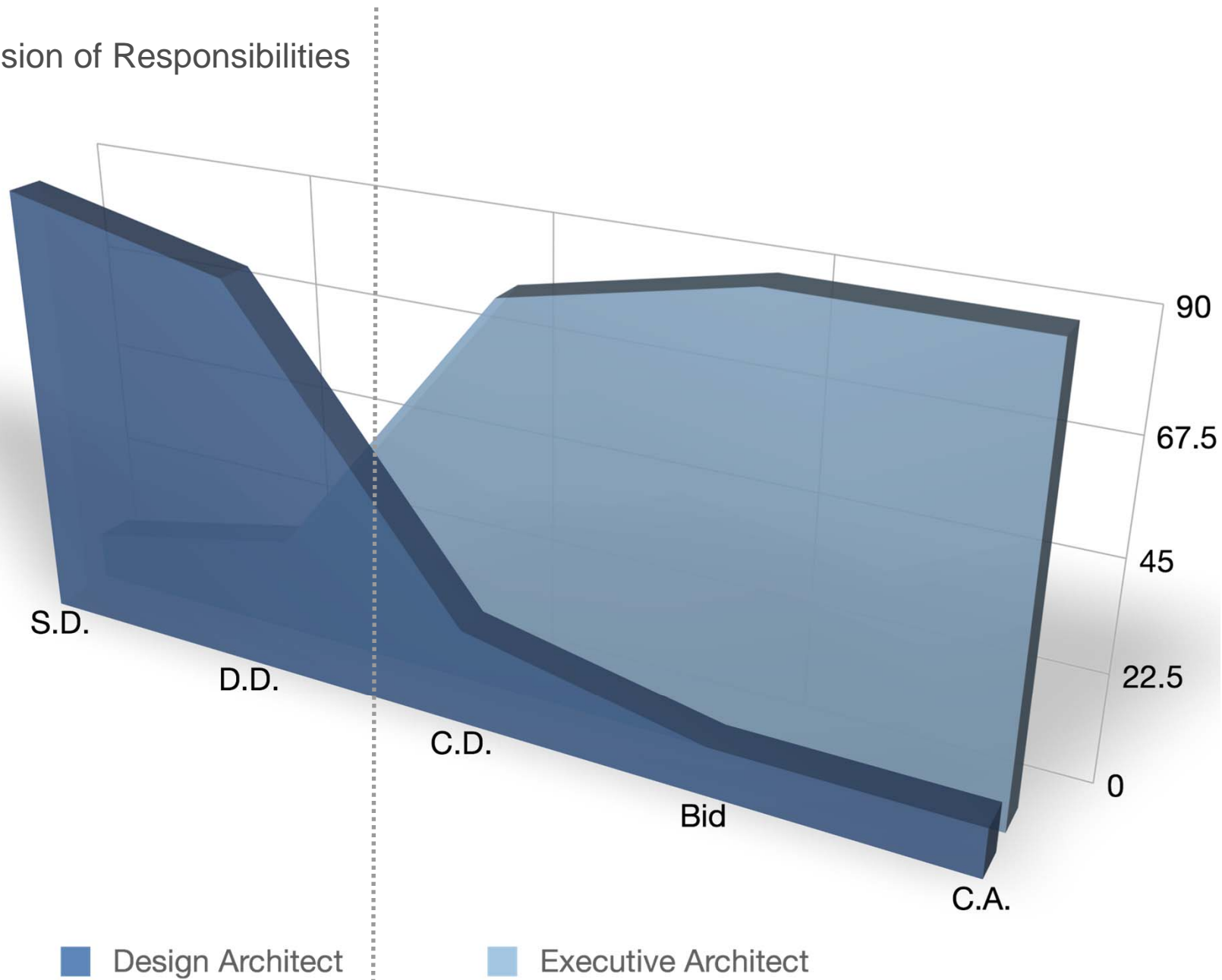
Case Study 2

Florida International University. Graduate School of Business. 2003-2007
J.V. with K.P.F.



- Same University, different user group.
- Similar approach to find appropriate partner.
- Cold call to KPF, no contacts or previous experience of working together.
- Similar approach as previously used to pursue the RFQ.

Division of Responsibilities



Current Collaboration
with Zaha Hadid

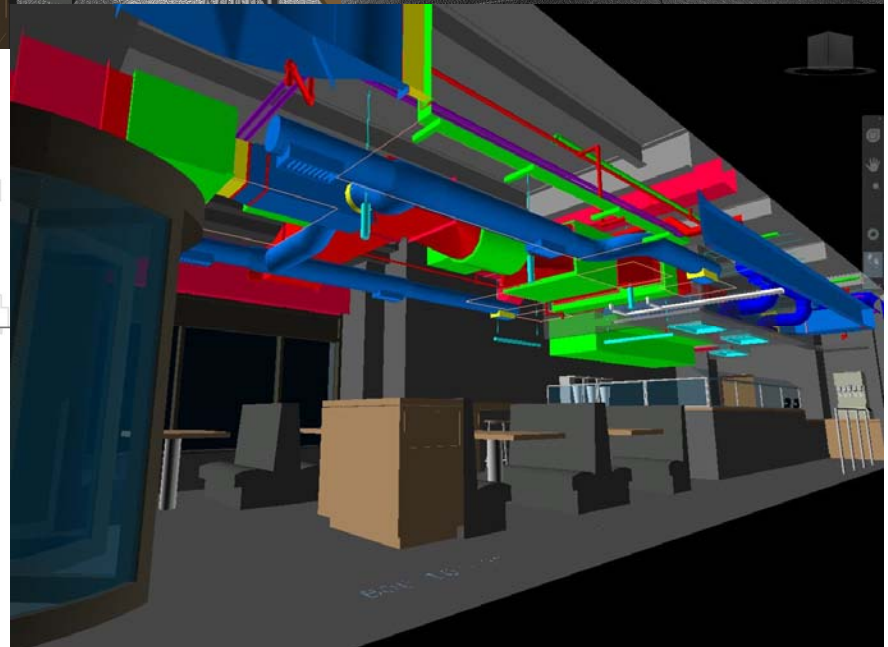
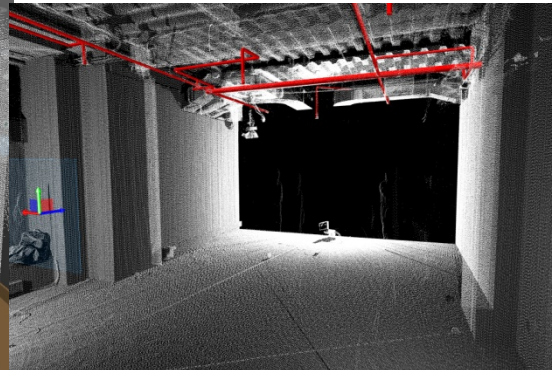
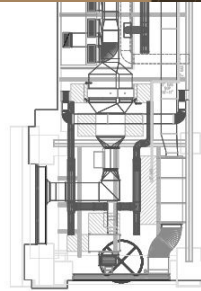
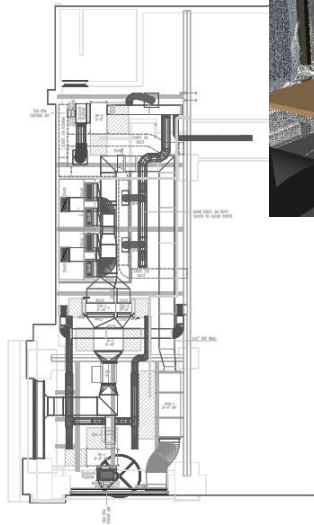
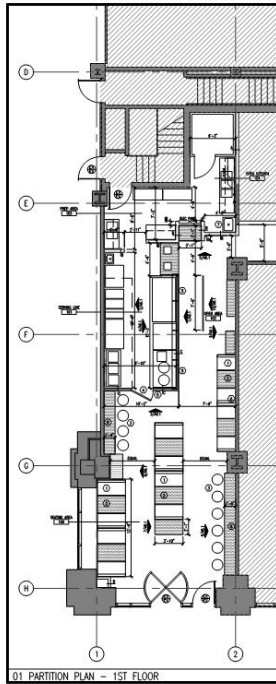




Conclusions

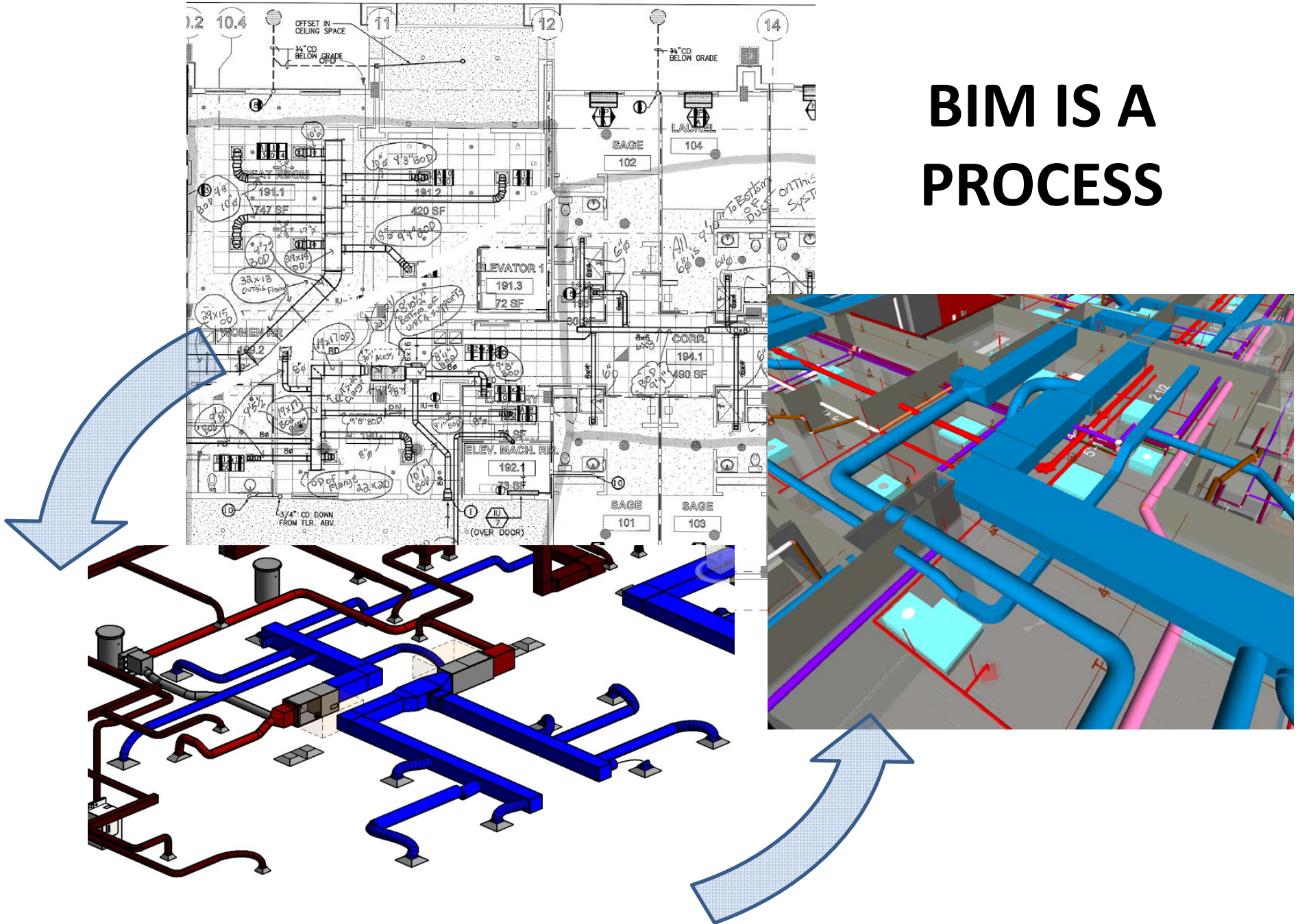
COLLABORATIONS/PARTNERSHIPS

- Are about being **proactive**.
- Searching for **opportunities** to create your own projects.
- **Opening doors** where there were solid walls before.
- Being completely devoted to **Team Work**.
- And very **passionate** at what we do.
- Delivering **Outstanding Architectural Quality** that represents a tangible value to our Clients.



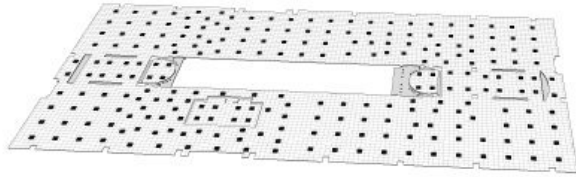
MAKING PROJECT TEAM COLLABORATION A REALITY USING VIRTUAL TOOLS

BIM IS A PROCESS



FLOOR 3

CEILINGS



CASEWORK



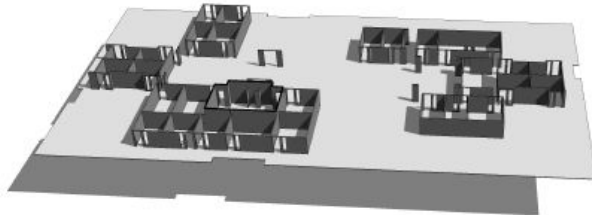
FLOORS



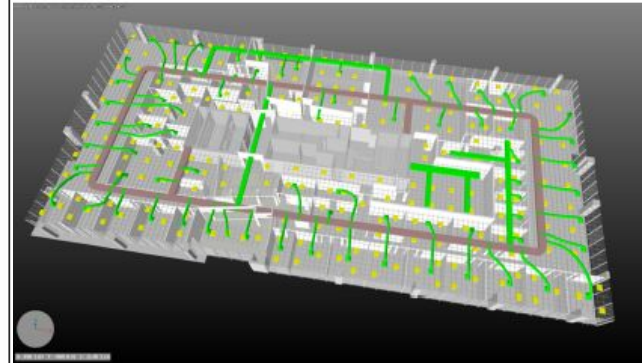
DOORS



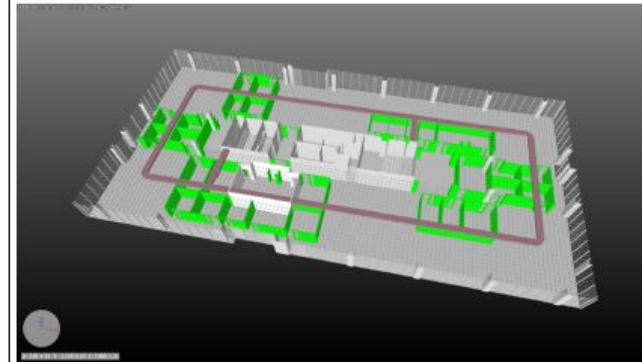
WALLS



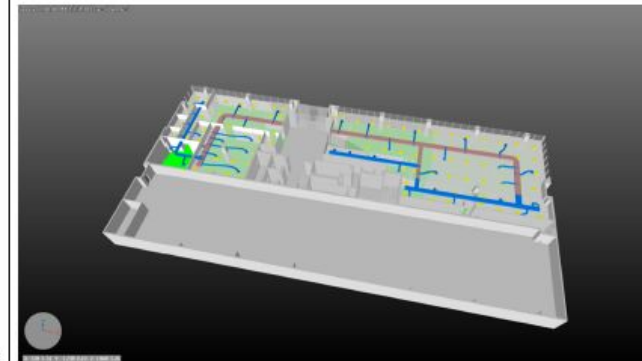
10/1



FLOOR 4

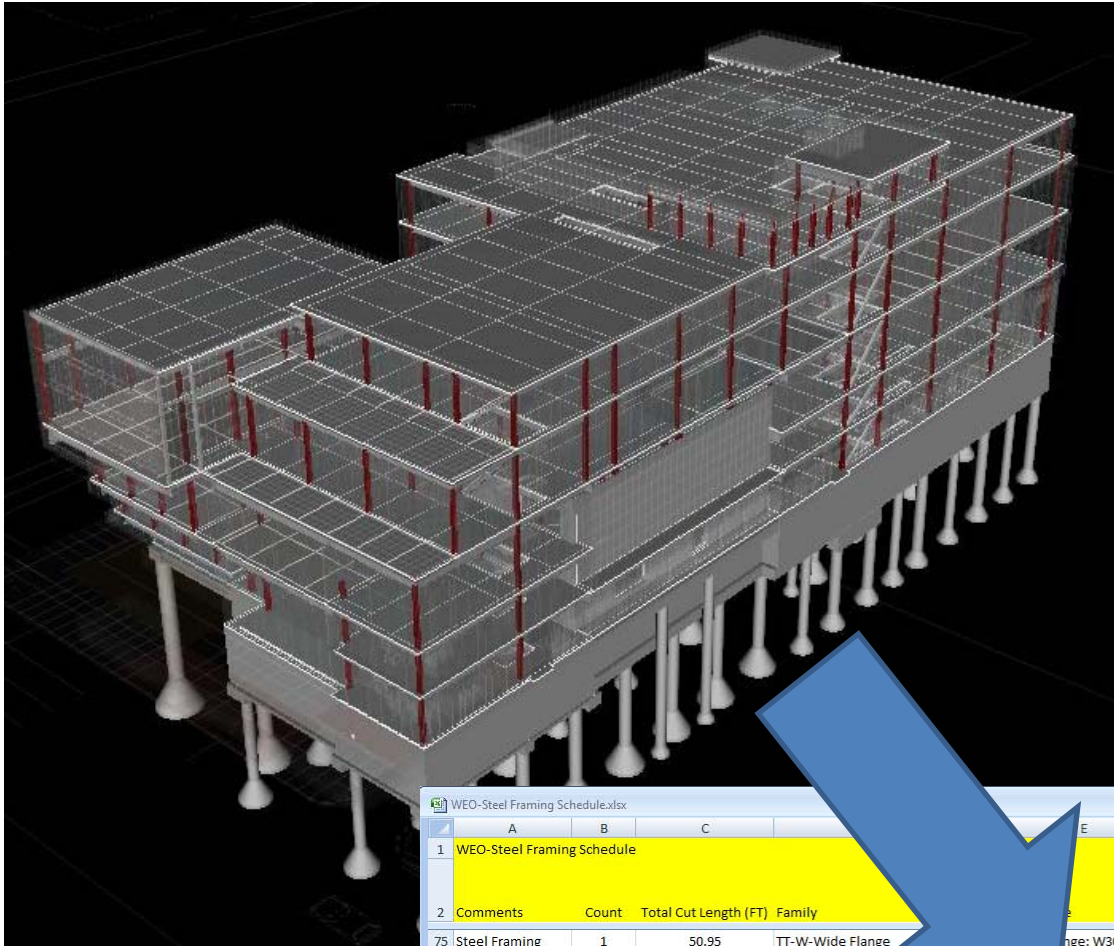


FLOOR 3



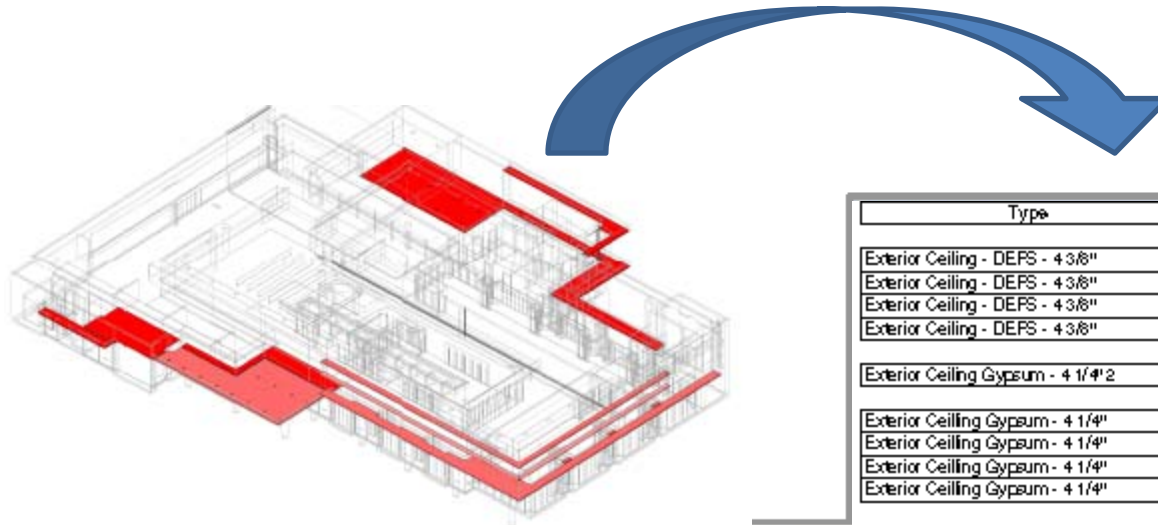
FLOOR 1

10/1



USE THE DATA

WEO-Steel Framing Schedule										
1	WEO-Steel Framing Schedule									
2	Comments	Count	Total Cut Length (FT)	Family	Total Length (FT)	Shape	Type	W	W	Weight in tons (= cut length x W / 1' / 2000)
75	Steel Framing	1	50.95	TT-W-Wide Flange	50.95	W30X132	W30	W30X132	132	3.3627
76	Steel Framing	12	391.86	TT-W-Wide Flange	404.42	W30X148	W30	W30X148	148	28.99764
77	Steel Framing	3	91.74	TT-W-Wide Flange	94.67	W30X173	W30	W30X173	173	7.93551
78	Steel Framing	5	193.72	TT-W-Wide Flange	198.44	W30X191	W30	W30X191	191	18.50026
79	Steel Framing	11	275.14	TT-W-Wide Flange	282.36	W30X211	W30	W30X211	211	29.02727
80	Steel Framing	1	31.11	TT-W-Wide Flange	31.11	W30X261	W30	W30X261	261	4.059855
81	Steel Framing	1	31.33	TT-W-Wide Flange	33	W33X118	W33	W33X118	118	1.84847
82	Steel Framing	1	38.36	TT-W-Wide Flange	39.5	W33X169	W33	W33X169	169	3.24142
83	Steel Framing	4	15.65	TT-W-Wide Flange	18	W36X135	W36	W36X135	135	1.056375
84	Steel Framing	1	34.68	TT-W-Wide Flange	36	W36X150	W36	W36X150	150	2.601
85	Steel Framing	1	31.36	TT-W-Wide Flange	32.58	W36X194	W36	W36X194	194	3.04192
86	Steel Framing	1	43.83	TT-W-Wide Flange	45.17	W36X210	W36	W36X210	210	4.60215
87	Steel Framing	2	69.5	TT-W-Wide Flange	72	W36X256	W36	W36X256	256	8.896
88	Grand total: 1481		28399.49		29813.2					1019.09 tons



Type	Area	Perimeter	Level	Color
Exterior Ceiling - DEPS - 4 3/8"	713 SF		9'-11 1/2"	darkred
Exterior Ceiling - DEPS - 4 3/8"	1364 SF		11'-11 1/2"	darkred
Exterior Ceiling - DEPS - 4 3/8"	183 SF	135' - 10"	T/ FIN. 2ND FLR	darkred
Exterior Ceiling - DEPS - 4 3/8"	204 SF	88' - 3 1/2"	PARAPET 1	darkred
	2465 SF			
Exterior Ceiling Gypsum - 4 1/4" 2	233 SF		T/O FIN. 1ST FLOOR	lightred
	233 SF			
Exterior Ceiling Gypsum - 4 1/4"	303 SF		T/O FIN. 1ST FLOOR	lightred
Exterior Ceiling Gypsum - 4 1/4"	849 SF	148' - 7 1/4"	9'-11 1/2"	lightred
Exterior Ceiling Gypsum - 4 1/4"	889 SF	353' - 6 1/4"	11'-11 1/2"	lightred
Exterior Ceiling Gypsum - 4 1/4"	182 SF	61' - 11 3/4"	T/ FIN. 2ND FLR	lightred
	2003 SF			

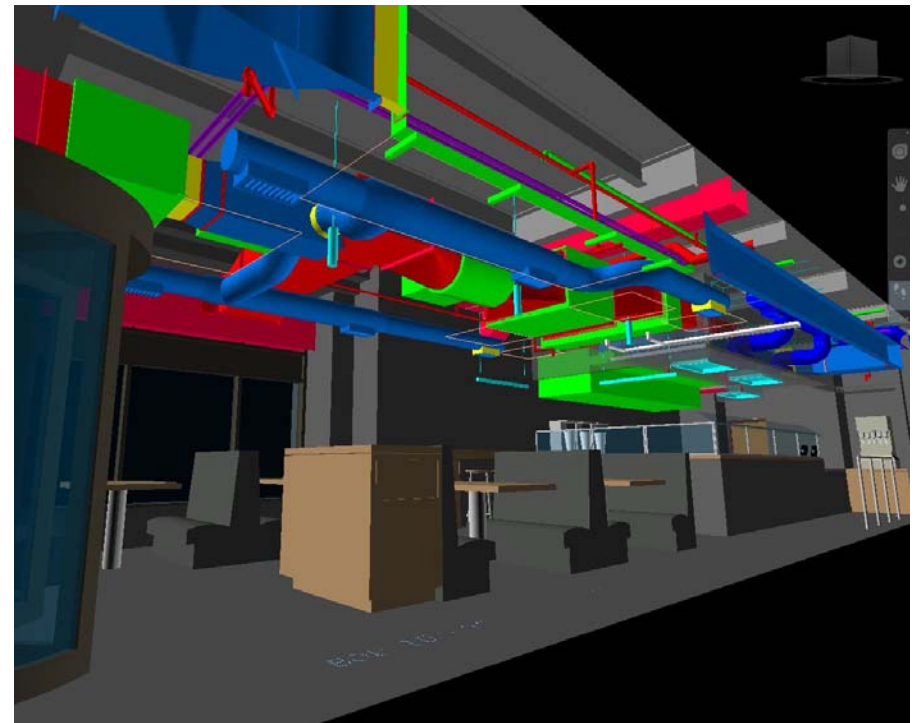
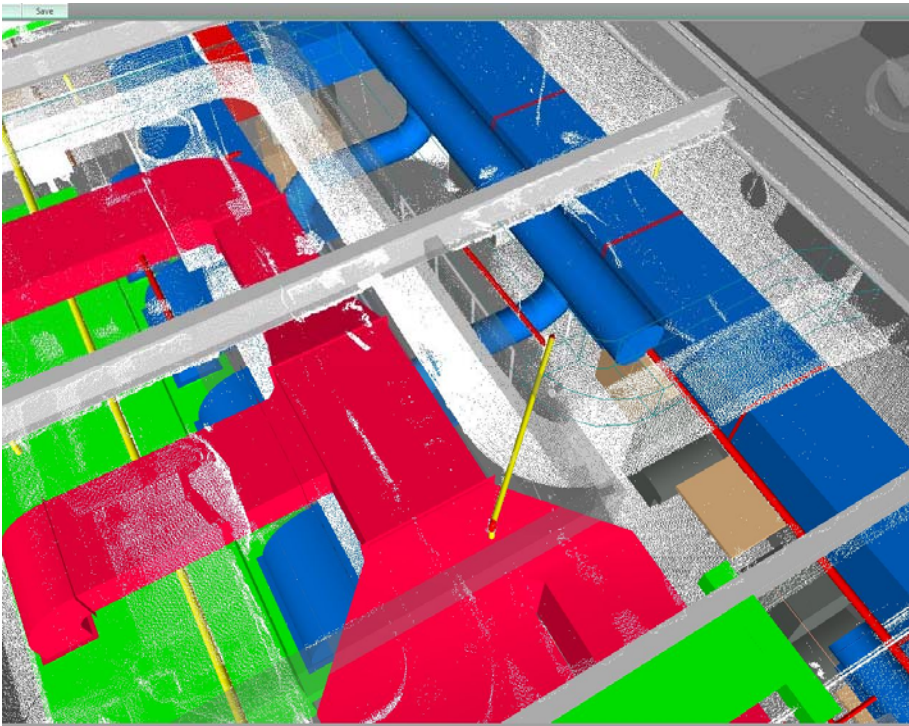
DESIGN BIM

- Real-time quantity analysis

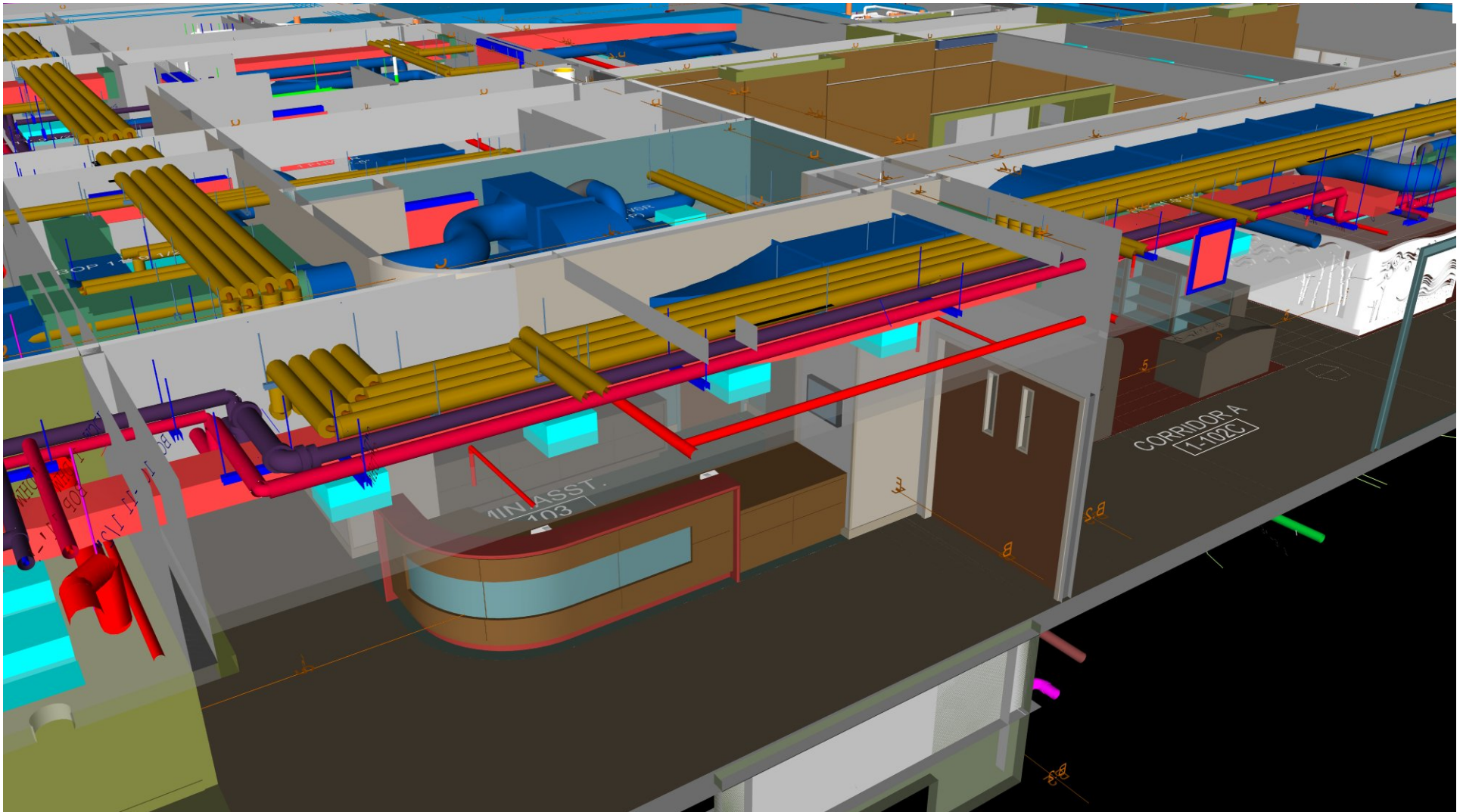
ID	Task Name	Start	Finish	On Critical Path
15	Install exterior masonry wall 1st flr	7/25/2002	8/8/2002	Yes
94	Install exterior masonry wall 2nd flr	7/25/2002	7/25/2002	No

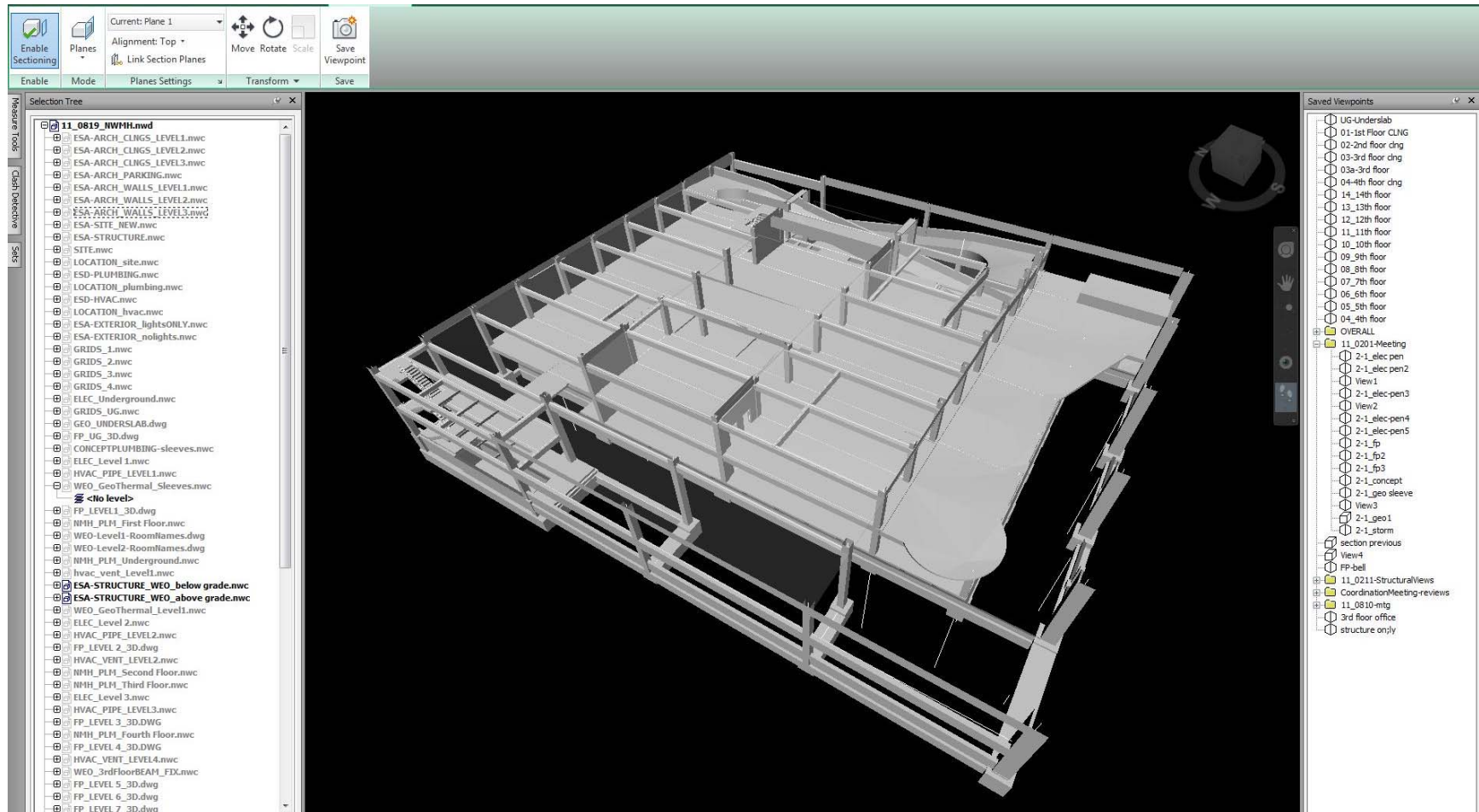
Task Name	% Done	Start	Finish	Resource Name	Crews
125 Rough-in electrical in drywall	94.29%	11/20/2002	12/24/2002	Electric Contractor	0
140 Install duct in building above 1st flr	22.22%	12/9/2002	12/19/2002	HVAC Contractor	0
117 Install exterior stud walls and 1st flr	35.71%	12/9/2002	12/17/2002	Drywall Contractor	0
104 Lay masonry of core, east end	77.14%	11/12/2002	12/10/2002	Masonry Contractor	0
135 Rough-in plumbing in drywall	54.29%	11/20/2002	12/24/2002	Plumbing Contractor	0
62 Floor 2nd floor including all flr	42.86%	12/9/2002	12/12/2002	G.C. Labor Crew	0
				G.C. Rough Carpenter Crew	0
Total Crews					8

COORDINATION USING NAVISWORKS



DESIGN vs. CONSTRUCTION MODEL





IPD

TODAY

Traditional
processes =
over-budget,
late delivery,
combative

More
collaboration
earlier, less risk,
more project
certainty

Single Entity,
shared
risk\reward
structures, true
team approach

TOMORROW



SLAM

redefining

ARCHITECTURE + CONSTRUCTION

Client

Project Executive

Design Team

Construction Management Team

Project Manager

Project Executive

Landscap
e Architect

Design
Architect

Structural
Engineer

MEP
Engineer

Civil
Engineer

Cost
Estimator

Superinte
ndent

Trade
Contractors





University of Hartford

Microsoft
Virtual Earth™

© 2008 Microsoft Corporation © 2008 NAVTEQ © AND
© 2008 Pictometry International Corp.





Economic Analysis Typical Project

- Project Cost \$10,000,000
- A/E Rev 7.5% \$750,000
- A/E Cost 85% \$640,000
- A/E Profit **\$110,000**

- CM Rev (GC 8%) \$800,000
- Cost of GC GC (90%) \$720,000
- CM Profit of GC **\$ 80,000**
- CM Fee (4%) \$400,000
- Home off cost in fee \$100,000
- CM Profit on Fee **\$300,000**
- **DNI shared savings or buy out potential**

Why change

We offer the client single source responsibility

We can control our risk

We can protect our design solutions

We can improve our profitability

We can correct systemic industry defects



Welcome to

A FRANCHISE MODEL

FOR ARCHITECTS

Karen Pitsley, AIA & David Nicks, AIA

Professional Service Franchises

Comfort dental®

WE'LL BE THERE WHEN YOU NEED US!

CONNECT WITH THE POWER OF...

PROforma

PRINTING • PROMOTIONS • E-SOLUTIONS

L&W

INVESTIGATIONS

Our People Make the L&W Difference



PEARLE VISION®



Righttime
MEDICAL CARE



Advantages of Arch. Franchise

- **Collective marketing and advertising**
- **Resume sharing**
- **A team of business owners to be a “board of directors” as needed who know your business**
- **Business coaching by licensed coaches**
- **Website**
- **Help with accounting & bookkeeping**
- **Forms and contracts**
- **Legal team**
- **Help in growing your firm in the direction you want**
- **Increase in profitability & reduction in costs through group buying (as in Prof. Liability) & proven systems**
- **Leads from being part of a national brand**
- **An exit strategy**

Our Mission:
***“To build a professional
community that provides clients
value through Expertise,
Education and Innovation.”***

Practice Management

AIA Knowledge Communities



AIA Practice Management Knowledge Community

2012 PMKC Advisory Group

- Scott Kuehn, AIA (2012 Chair)
- Donald Simpson, AIA
- **Rena Klein, FAIA** rena@rmklein.com
- Jason Pierce, AIA (YAF representative)
- Ray Kogan (2011 Chair)