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AIA Technology in Architectural Practice

Scholarship Sponsor:

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All attendees at your site will submit for credit by completing the webinar survey/report form. The URL to the survey/form will be emailed to attendees/ registrants at the end of the presentation. Certificates of Completion can be download at the end of the survey.

Continuing education questions can be directed to tap@aia.org.



BIG BIM Bang – Enterprise BIM

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AIA Technology in Architectural Practice

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

AIA/CES Learning Objectives

- 1. Learn what type of BIM data owners are providing to AEC teams and what type of results they are hoping for.
- 2. Learn how interoperability will enable sharing of data across any tool and how you can help to accelerate the capability of the BIM tools.
- 3. Learn how sharing of data with remote teams can foster collaboration in a charrette environment.
- 4. Learn what is possible today using BIM to collaborate. See how obstacles in sharing of data are overcome.



BIG BIM Bang – Enterprise BIM

AIA TAP Leadership 2012



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Chair - 2012

Skripac



Kimon Onuma Chair - 2013



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Timothy Blatner, AIA



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Please use the Chat box in the GoToWebinar app pane to submit a question.

Kimon Onuma, FAIA Onuma Inc



John Roach Foundation for California **Community Colleges**

900



Kurt Maldovan **Balfour Beatty**



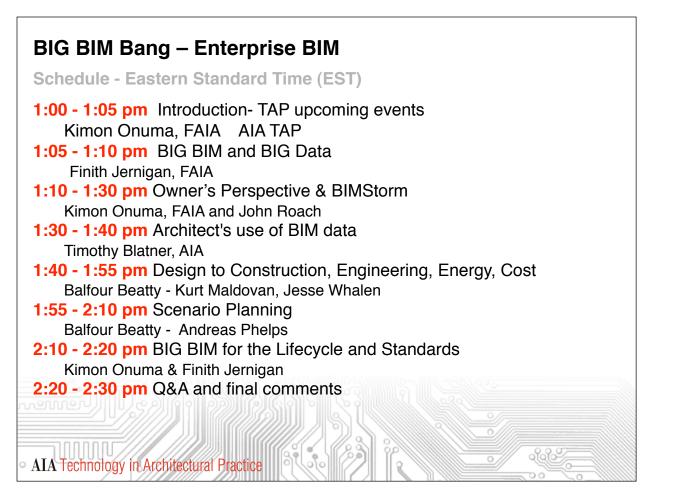
Andreas Phelps **Balfour Beatty**

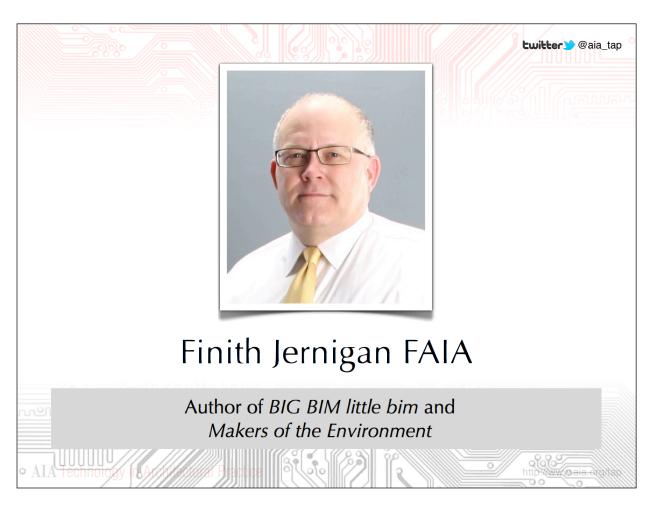


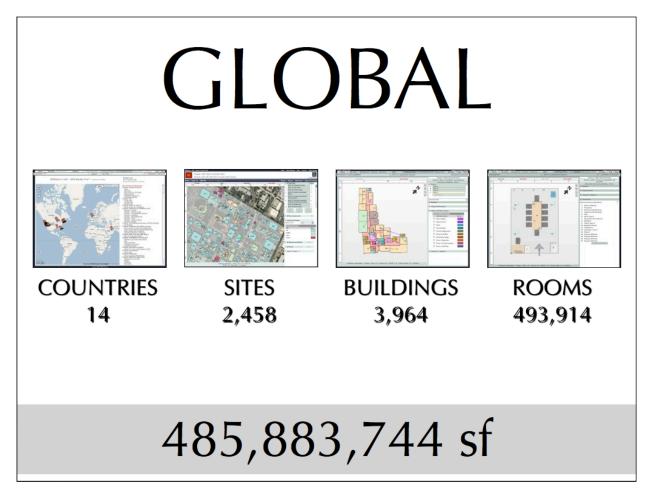
Jesse Whalen **Balfour Beatty**

Questions will be answered at the end of the webinar as time allows. When able, all questions will be sent to the speakers for written response and published on the TAP website.

AIA Technology in Architectural Practice









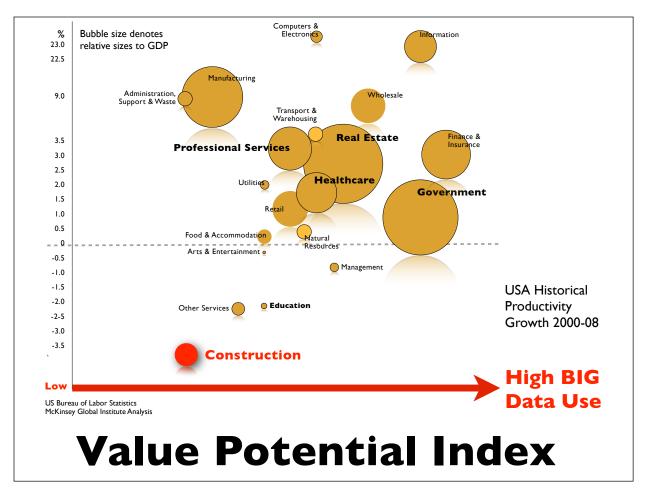


Entire State of California Community College System

Largest System of Public Higher Education in World

- 71 Million Square Feet
- 2.75 Million Students
- 112 California Locations

Cloud Computing



Owner's Perspective & BIMStorm

AIA Technology in Architectural Practice



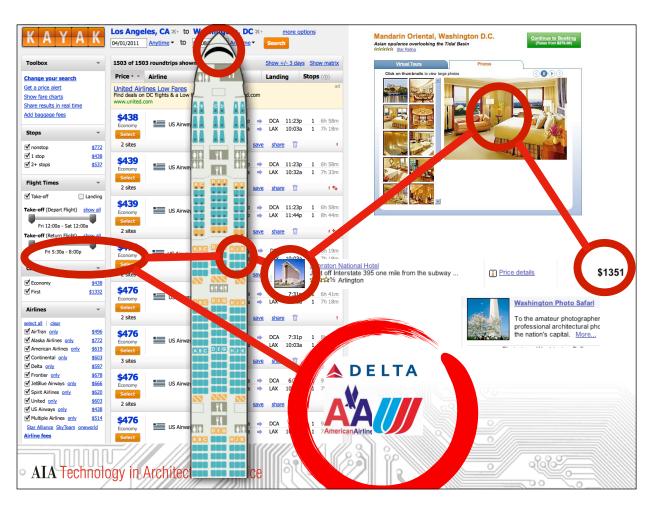
Kimon Onuma, FAIA Onuma Inc



John Roach Foundation for California Community Colleges

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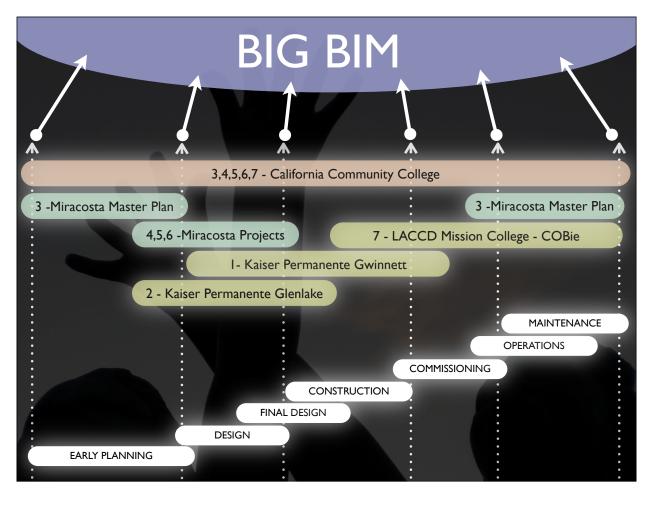


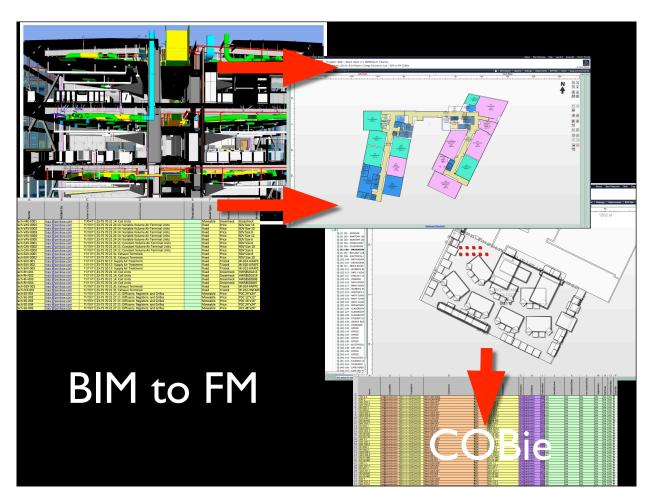


"Disruptive Technologies" Philip A. Pizzo Dean of the Stanford University School of Medicine

AIA Technology in Architectural Practice







Some of the Software used in BIMStorm

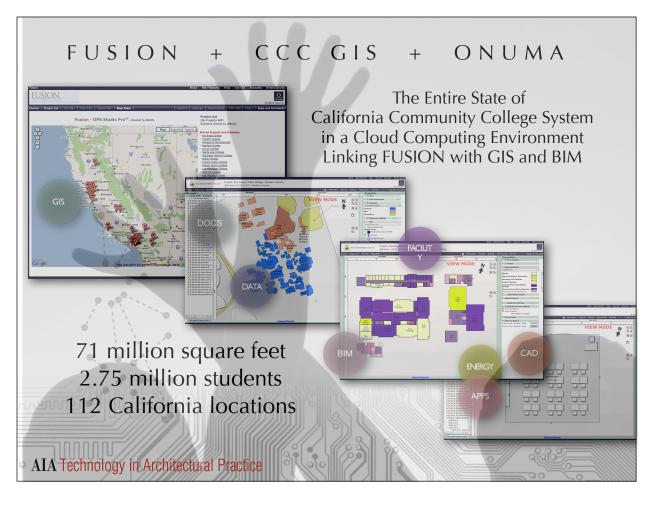
- Autodesk Architectural Desktop
- Autodesk Navisworks
- Autodesk Revit
- Autodesk Vasari
- BIMScore
- CCC GIS
- DDS
- Drofus
- Ecodomus
- Ecotect
- Energle Byucksan
- ESRI ArcGIS
- Fastbridge
- Filemaker
- 4Projects
- FUSION+GIS+ONUMA

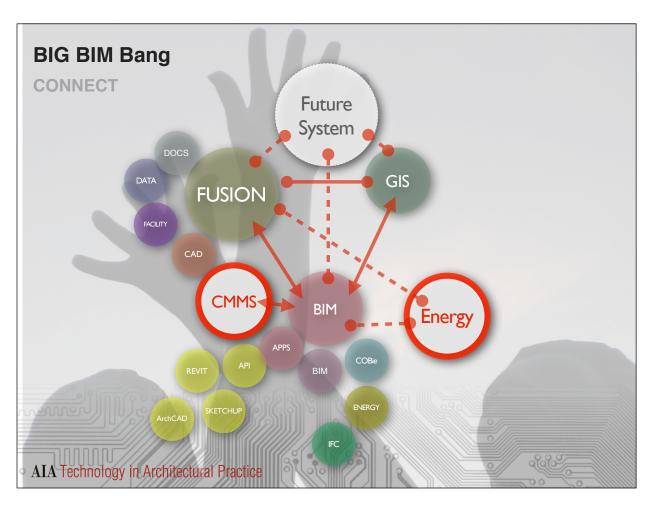
AIA Technology in Architectural Practice

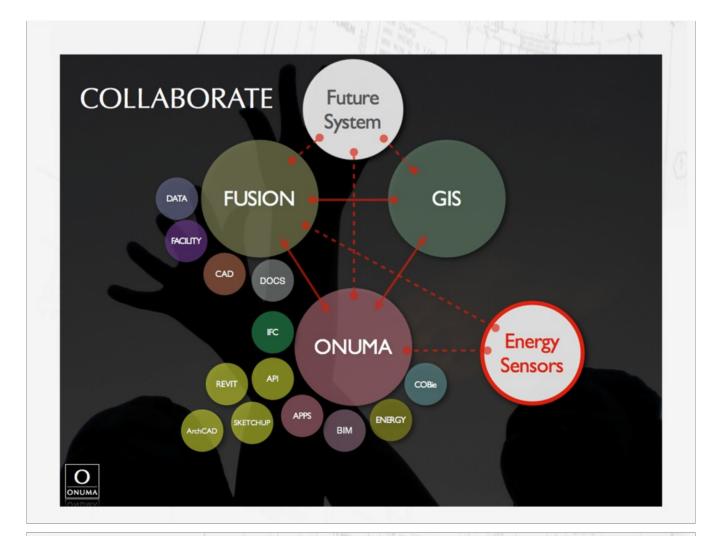
- Gehry Technologies GTX
- Google Docs
- Google Earth
- Google SketchUp
- Graphisoft Archicad
- Green Building Studio
- IES
- InfoComm
- Microsoft Bing
- Microsoft Excel
- Onuma System
- PowerSmiths
- Synchro
 - Tekla
 - TMA
 - Trelligence Affinity Vela

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Topics
About the California Community Colleges and the Foundation
Our Integrated Facilities Platform
FUSION for Facilities Reporting
CCC GIS for location and map information
Onuma for building information modeling
How It Is Used
Why It Works...Shared Data on the Web

About the

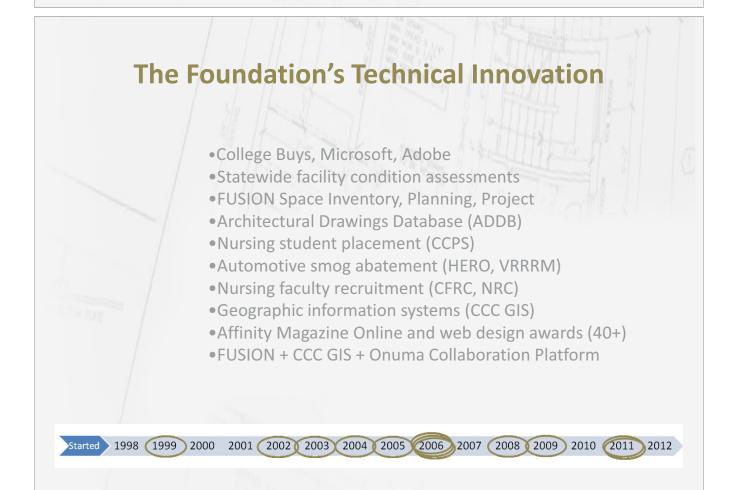
CALIFORNIA COMMUNITY COLLEGE SYSTEM

The California Community Colleges make up the largest higher education system in the nation

- 72 Districts
- 112 Colleges
- Nearly 300 sites
- 24,000 acres
- 5,000 buildings
- 71 million square feet
- 2.75 million students

The Foundation for California Community Colleges

- Official foundation of the California Community Colleges' Board of Governors and Chancellor's Office
- \$40 million annual revenues
- Programs in
 - Facilities & GIS
 - College Buys Purchasing Program
 - Health Care Education
 - Workforce Development
 - Fiscal Services & Resource Development



About Annual Reporting & Workflow of



FUSION: Facilities Maintenance & Reporting On The Web Using Interlinked Modules

Change Planning Year: 2013-14, SI 10-
Sunday, December 11, 2011
CHARTS STORAGE /
Planning Project 😯 Emanual
Planning Year: 2013-14, SI 10-11 🔻
College System
sments module tree view may not match those used in the include all facilities in their condition assessments. These have questions or need further assistance, please contact News section of the FUSION Home page.

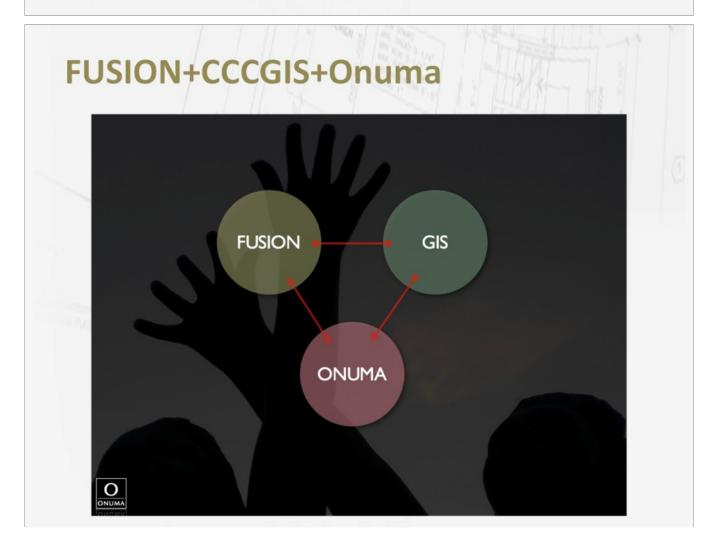
Sixteen Community College Districts Funded The Original Development Of FUSION

- Chaffey
- Citrus •

- Los Rios
- Marin

- Peralta
- Riverside
- Contra Costa
 San Francisco
 - Foothill-De Anza San Joaquin Delta
- Los Angeles
 San Jose-Evergreen
 - San Mateo County
 - Santa Clarita
- Mt. San Antonio
 Sonoma County

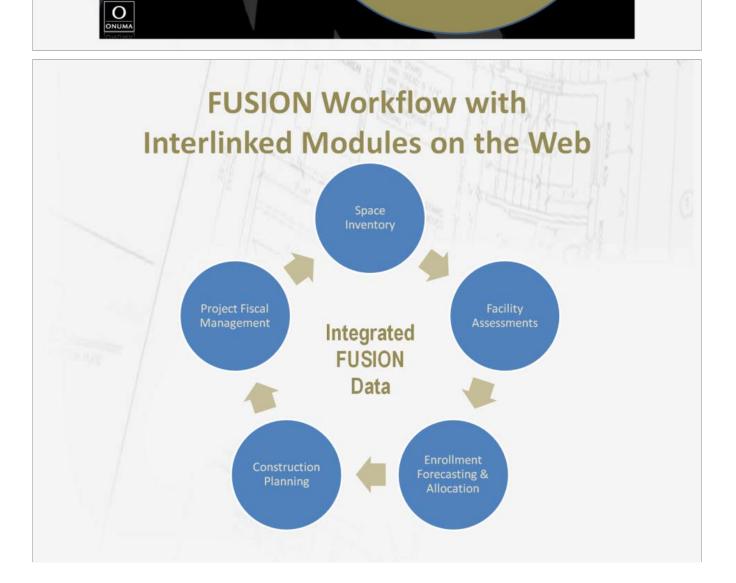
Ongoing Annual O&M Funded by all 72 Districts

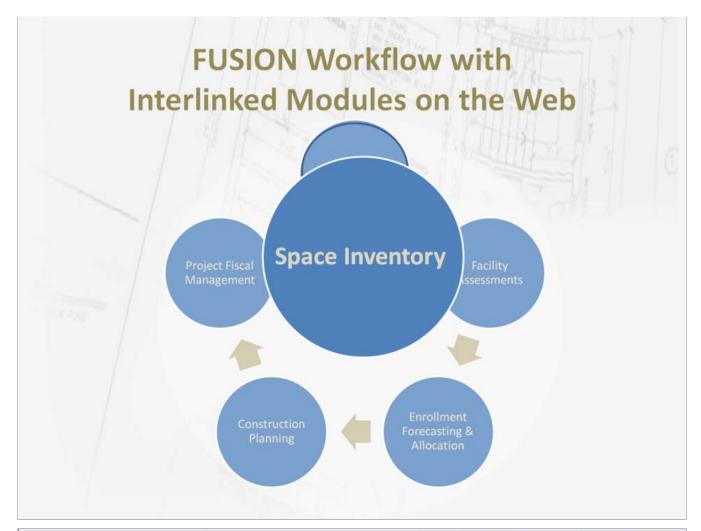


FUSION+CCCGIS+Onuma

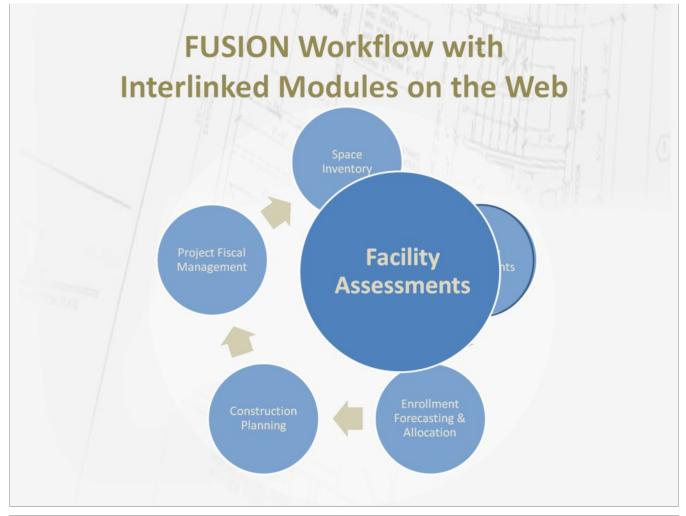


FUSION Provides: •Web interface •Common, central database •Unified facility reporting •Annual updates by districts •Annual approvals by State •Roll-up capability for reporting

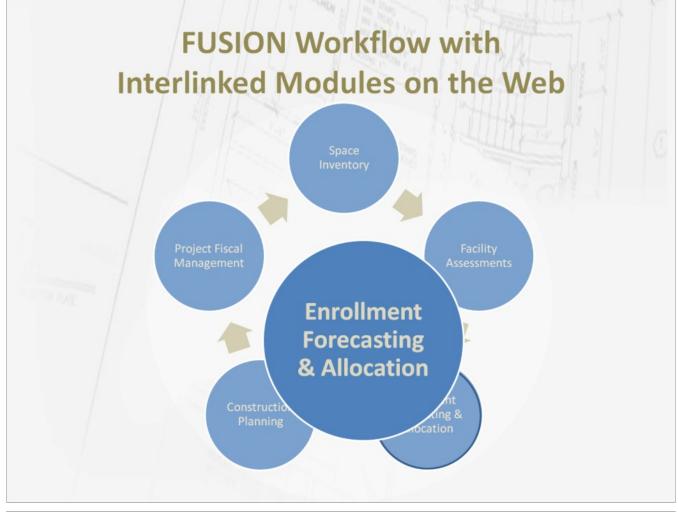




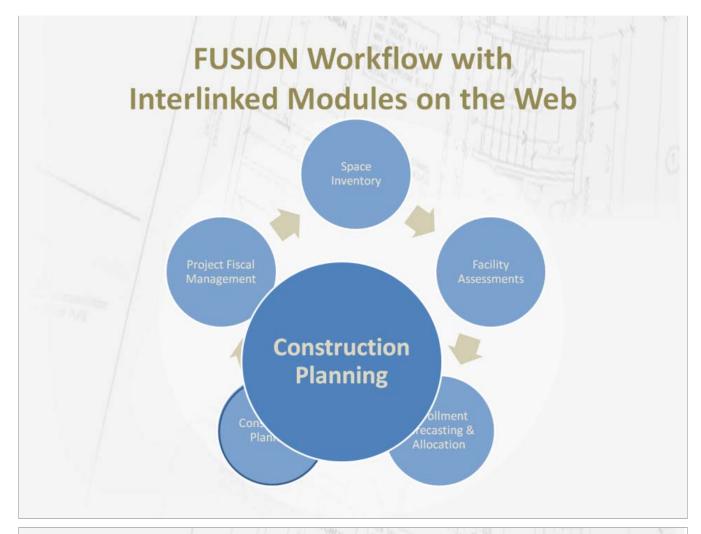
FUSION					🙆 Hom	e Assessment Space Inventory Planning Proje Change Planning Year: 20		Emar
ohn Roach - District Level is signed in: Access Your In	1fo Sign Out					Change Planning Year: 20	15-16, 51 1	12-1
Dolone (2012-13)								
Palo Verde (2012-13)	CUNNINGHAM	CEN	TER					
Palomar (2012-13)	Building Profile						(8)	-
Pasadena (2012-13)	Building No.:		51			Year Built	1973	-
Peralta (2012-13)	Name:			NGHAM CEN	TED	Last Addition:	1313	
Rancho Santiago (2012-13)	Abbrev:		CUNN		ILK .	Building Status:	A	
Redwoods (2012-13)	Plan Type:		Perma			Total Outside Gross Sg Ft:	92.504	
Rio Hondo (2012-13)	Location Code:			e/Campus				
Riverside (2012-13)	Ownership Code:			d in fee simp	le	Total Rooms:	171	
San Bernardino (2012-13)	Condition Code:			tisfactory	~	Total Assign Stations:	1877	
San Diego (2012-13)	Construction Code:			sistive - Con	crete	Total Assignable Sg Ft	63.574	
San Francisco (2012-13)	Efficiency:		68.73		50 TMA			
San Joaquin Delta (2012-13)	100000000		1000	100				
E San Joaquin Delta College	Rooms AS	SF Summ	nary					
ADMINISTRATIVE WING (55)								
AUDITORIUM (60)						[Edit Room Profile]		1
Baseball Dugout Storage (139)					Room Prefix:	Room Status: A		
BASEBALL SCORE BOOTH (64)								
Belarmino Data Center (159)	Ref Rm Cuto	Room		Top/CSS	Room No.:	108		
BUDD CENTER (52)	Prfx. No. Sufx.	Use#	Room Use	#	Room Suffix:			
CENTER OF MICROSCOPY & A (101	110	Classroom	0099	¢			
CENTRAL PLANT (79)	102	110	Classroom	0099	Description:			
CHILD DEVEL CENTER (68)	103	620	Exhibition	6140	Department No.:	45		
CITY FIRE STATION (99)	103 A			0099	Coparament No.	-5		
COTTAGE (75)		625	Exhibition Service		Assignable Stations:	30		
Cottage Garage (76)	103 B	625	Exhibition Service	6140	0.0			
CUNNINGHAM CENTER (51)	104	625	Exhibition Service	6140	/ Sq. Ft.:	1231		
DANNER HALL (59)	105	620	Exhibition	6140	Program No.:	11 General Academic Instruction	-	
DERICCO (Gateway) (156)	107	310	Office	0099	Room Use:	210 Charlish		
EQUIPMENT WAREHOUSE (78)	108	210	Class Lab	0401	koom use:	210 Class Lab 👻		
FIELD BUILDING (62)	110	210	Class Lab	0401	E TOP/CSS:	0401 Biology, General	-	4
FOOTBALL SCORE BOOTH (63)	111	215	Class Lab Service	0401	Assessment Note:	1	Clear No	a ba
FORUM HALL (57)	111 A	215	Class Lab Service	0401	Assessment note:		Cicar No	
GOLEMAN LIBRARY (54)	111 B	215	Class Lab Service	0401	P No	n-assignable Deactivate Save Cancel		
HOLT CENTER (53)	112	210	Class Lab	0401				
LOCKE CENTER (58)								
MANETCA CTR (FARM OFC) (80)	114	210	Class Lab	0401	Biology, General	30 1,240 45 General Academic Instruction	A	
MANTECA CTR (FARM BARN) (8:	114 A	215	Class Lab Service	0401	Biology, General	0 203 45 General Academic Instruction	A	
MANTECA CTR (FARM DMGRG)	115	210	Class Lab	0401	Biology, General	32 1,348 45 General Academic Instruction	A	
	115 A	215	Class Lab Service	0401	Biology, General	1 311 45 General Academic Instruction	A	1.1



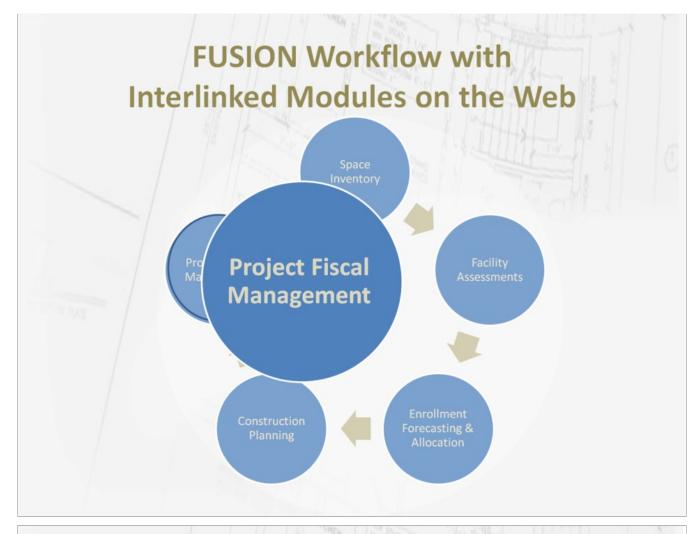
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Roach - District Level is signed in: Access You	r Info Sign Out							
ssment 👩 🚿 1.0 Facility 🛛 2.0 D	eficiencies							
Long Beach								
Los Angeles	ASSESSMENT > Facility > 0051 CUNNINGHAM CENTER	(Esci	lity Condition - W	Vindo 🖂	(I) X	D		
Los Rios		C raci	ity condition - w	rindo	In the second			
1 Marin	General Info:	e htt	p://fusion.deltaco	ollege.edu/co	de/contents/			A.
Mendocino-Lake	Type: Building	Eacilit	y Condition:			1		34 1
E Merced MiraCosta	Gross Area: 92504 S. F.	racian		+5 455	700 50			No. The sum
MiraCosta Monterev Peninsula	Year Bult: 1973		Estimate Cost:	2 A 199	,768.52			and the second
Monterey Peninsula	Last Renovation:		Additional Cost:	1000	,119.02			
Mt. San Jacinto			Repair Cost:		,887.54		- 0	
Napa Valley		Res	blacement Value: FCI%:		,601.12			P
North Orange	Facility Description:		PC1%;				-	
Ohlone		Inte	ernet Protected	√a • €	100% 🔹			
Palo Verde	51 Cunningham Center is located on the San Joaquin					Th Stockton,	, CA. The four s	tory with partial
Palomar	basement, 92,504 square foot building contains class	srooms, class labs a	nd offices. Original	ly constructed	in 1973.			
Pasad ASSESSMENT > Deficiencies >								
Peralta 51 CUNNINGHAM CENT								
Ranch			5- F ()				100 - 000 - 000 - 000 - 000	Constanting of the local division of the loc
Redwo Major C		Deficier	dead _ d				Estimate	the state of the s
Rio Ho Asphalt Roof Shingles	Asphalt Shingle Roof: Carpet: Damaged or F		ng				3	\$157,201.20 - \$8,921.44
Rivers Carpet Tile	Carpet: Damaged or F							\$3,202.28
San B Carpet Tile	Carpet: Damaged or F							\$3,812.75
San D Carpet Tile	Carpet: Damaged or F	ailing						\$8,474.47
San Fr Carpet Tile	Carpet: Damaged or F							
San Jo Ceiling Tile	Glue on ceiling tile: Da	maged or failing	life					\$8,870.61
 San Jo ⊡ San Drinking Water Fountains, 		maged or failing expected useful	life				1	
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 San Jo San Jo Double Hung Drinking Water Fountains, AL Flooring 	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish:	maged or failing d expected useful maged or failing eyond expected u Damaged or Fail	iseful life					\$8,870.61 \$606,826.24 \$9,899.54 \$43,708.14 \$10,034.69
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 San Jo Celling Tile Double Hung Drinking Water Fountains, AL Entrance Doors And Frames AL Fooring BA Framing, Stud Walls BA Hydrants 	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Fire Protection S {L1} Fire Protection S	maged or failing l expected useful maged or failing eyond expected u Damaged or Fail t useful life ystem Past usefu	useful life ing					\$8,870.61 \$606,826.24 \$9,899.54 \$43,708.14 \$10,034.69 \$654,928.32 \$228,484.88
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 San Jo Celling Tile San Jo Double Hung Drinking Water Fountains, AL Entrance Doors And Frames AL Flooring BA Framing, Stud Walls B4 Hydrants B4 Partitions, Toilet 	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Wall framing pas {L1} Fire Protection S Tollet Partition: Dama Tollet Partition: Dama	maged or failing I expected useful maged or failing eyond expected u Damaged or Fail t useful life ystem Past usefu ged ged	iseful life ing I Life					\$3,870.61 \$606,826.24 \$9,899.54 \$43,708.14 \$10,034.69 \$554,928.32 \$228,484.88 \$4,812.60 \$4,812.60
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San Ja Celling Tile San Diniking Water Fountains, At Entrance Doors And Frames At Forring Ba Hydrants Ba Partitions, Toilet Ba Partitions, Toilet Ba Roof Hatch Options Ct Water Closets Ct Water Closets	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Wall framing pas {L1} Fire Protection S Toilet Partition: Dama Toilet Partition: Dama {L1} Roof openings b {L1} Plumbing fixtures {L1} Pluctical System {L1} Pluctical System	maged or failing l expected useful maged or failing eyond expected i Damaged or Fail t useful life ystem Past usefu ged ged eyond expected i ; past useful life Beyond Expecte	iseful life ing I Life useful life				\$1 \$1	\$3,870.61 \$506,826.24 \$9,899.54 \$43,708.14 \$10,034.69 \$554,928.32 \$228,484.88 \$4,812.60 \$4,812.60 \$4,812.60 \$21,090.91 ,130,398.88 ,859,330.40
 San Jo Celling Tile San Jo Double Hung Drinking Water Fountains, AL Entrance Doors And Frames AL Flooring B4 Framing, Stud Walls B4 Hydrants B4 Partitions, Toilet B4 Roof Hatch Options C4 Water Closets 	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Wall framing pas {L1} Fire Protection S Toilet Partition: Dama Toilet Partition: Dama {L1} Roof openings be {L1} Plumbing fixtures	maged or failing l expected useful maged or failing eyond expected i Damaged or Fail t useful life ystem Past usefu ged ged eyond expected i ; past useful life Beyond Expecte	iseful life ing I Life useful life				\$1 \$1	\$8,870.61 \$606,826.24 \$9,899.54 \$43,708.14 \$10,034.69 \$654,928.32 \$228,484.88 \$4,812.60 \$4,812.60 \$21,090.91 \$130,398.88
San Ja Celling Tile San Diniking Water Fountains, At Entrance Doors And Frames At Forring Ba Hydrants Ba Partitions, Toilet Ba Partitions, Toilet Ba Roof Hatch Options Ct Water Closets Ct Water Closets	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Wall framing pas {L1} Fire Protection S Toilet Partition: Dama Toilet Partition: Dama {L1} Roof openings be {L1} Plumbing fixtures {L1} Pluctical System {L1} Pluctical System	maged or failing l expected useful maged or failing eyond expected i Damaged or Fail t useful life ystem Past usefu ged ged eyond expected i ; past useful life Beyond Expecte	iseful life ing I Life useful life		- 1 Tatala 40	(10 Sh-	\$1 \$1	\$8,870.61 \$606,826.24 \$9,899.4 \$43,708.14 \$10,034.69 \$654,928.32 \$228,484.88 \$4,812.60 \$4,812.60 \$4,812.60 \$21,090.91 ,130,398.88 ,859,330.40 \$554,003.28
 San Jo Celling Tile San Jo Double Hung Drinking Water Fountains, AL Entrance Doors And Frames AL Fooring BF Framing, Stud Walls BF Partitions, Toilet BL Roof Hatch Options CL Water Closets CL Wing Devices Elements CL 	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Fire Protection S Tollet Partition: Dama {L1} Poly Poly Constant {L1} Plumbing fixtures {L1} Electrical System {L1} Interior doors pa	maged or failing l expected useful maged or failing syond expected u Damaged or Fail t useful life ystem Past usefu ged ged syond expected i past useful life Beyond Expecte st useful life	useful life ing I Life useful life d Useful Lif	_	[Total: 19	(19 Shown	\$1 \$1 1) Amt: \$	\$8,870.61 \$606,826.24 \$9,899.54 \$43,708.14 \$10,034.69 \$654,928.32 \$228,484.88 \$4,812.60 \$4,812.60 \$4,812.60 \$4,812.60 \$4,812.60 \$4,812.60 \$4,812.60 \$4,812.60 \$4,90.91 ,130,398.88 ,859,330.40 \$554,003.28
San Ja Celling Tile San Duble Hung Drinking Water Fountains, At Entrance Doors And Frames At Ba Hydrants Ba Partitions, Toilet Ba Roof Hatch Options Ct Water Closets Ct Wood Doors Decorator Ct	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Wall framing pas {L1} Fire Protection S Toilet Partition: Dama Toilet Partition: Dama {L1} Roof openings be {L1} Plumbing fixtures {L1} Interior doors pa	maged or failing l expected useful maged or failing eyond expected u Damaged or Fail tuseful life ystem Past useful ged eyond expected st useful life Beyond Expecte st useful life	useful life II Life useful life d Useful Lif	10076	40 <i>%</i>	1	\$1 \$1 1) Amt: \$	\$8,870.61 \$606,826.24 \$9,899.54 \$43,708.14 \$10,034.69 \$654,928.32 \$228,484.88 \$4,812.60 \$21,090.91 ;130,398.88 \$4,812.60 \$21,090.91 ;130,398.88 \$54,003.28 \$54,003.28
San Ja Celling Tile San Duble Hung Drinking Water Fountains, AL Entrance Doors And Frames AL Framing, Stud Walls BA Hydrants BB Partitions, Toilet BB Roof Hatch Options C Water Closets C Wing Devices Elements C Wing Devices Elements C C	Glue on ceiling tile: Da {L1} Windows beyond Drinking Fountain: Da {L1} Exterior doors be Concrete Floor Finish: {L1} Wall framing pas {L1} Exterior doors be Concrete Floor Finish: {L1} Fire Protection S Tollet Partition: Dama Tollet Partition: Dama {L1} Roof openings bi {L1} Plumbing fixtures {L1} Interior doors pa Couso Cealing Finishes D1010 Elevators and Lifts	maged or failing l expected useful maged or failing eyond expected u Damaged or Fail tuseful life ystem Past useful ged eyond expected of past useful life Beyond Expecte ist useful life <u>au.ou</u> \$0.00	useful life II Life useful life d Useful Lif	1057e 75%	40%	1	\$1 \$1 \$1 1	\$8,870.61 \$506,826,24 \$9,899.54 \$43,708.14 \$10,034.69 \$554,928.32 \$228,484.88 \$4,812.60 \$21,090.91 ;130,398.88 \$4,812.60 \$21,090.91 ;130,398.88 \$4,812.60 \$21,090.91 ;30,398.88 \$5,425,768.52 \$5,425,768.52 \$0,00
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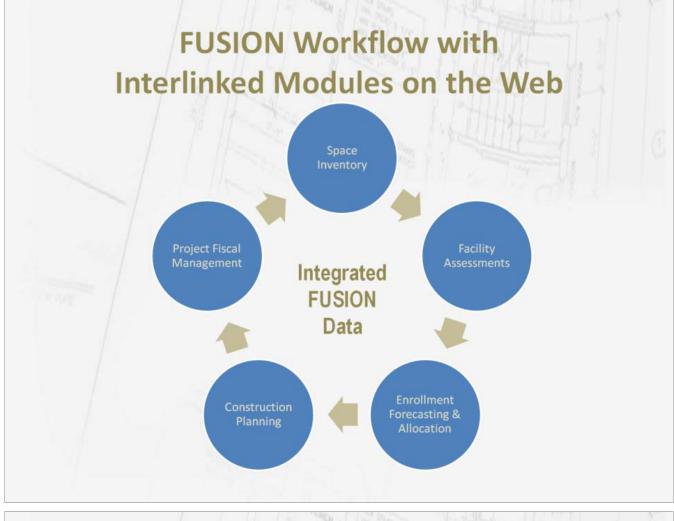
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h - District Level is signed in: Access Yo									Change Planning	Year: 2014-1
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rial Valley (2014-15)	San Joaquin Delta Co	mmunity College								
Tahoe (2014-15)	Projects	Forecast	Reports	Att	achments					
n (2014-15)	WSCH Forecast			First Year.	2012 - To	tal Years To	Plan: 5 👻	Go		
Beach			2012	2013	2014	2015	2016	2017	2018	
ngeles	District Forecast		241,273	248,773	256,507	264,480	272,702	281,179	289,920	
os (2014-15)	San Joaquin Delta	% of Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
(2014-15)	College	Campus Forecast	241,273	248,773	256.507	264,480	272.702	281,179	289.920	
cino-Lake (2014-15)	South Center Campus	% of Total								
sta (2014-15)	at Mountain House	Campus Forecast								
rey Peninsula		%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
n Antonio (2014-15)	Total:	Forecast	241,273	248,773	256,507	264,480	272,702	281,179	289,920	
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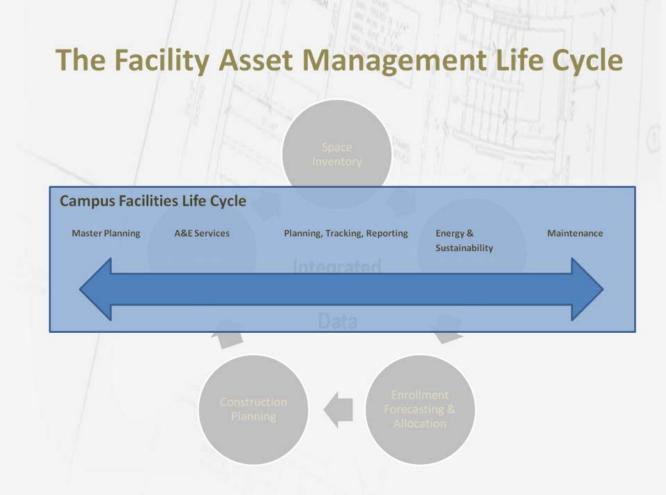


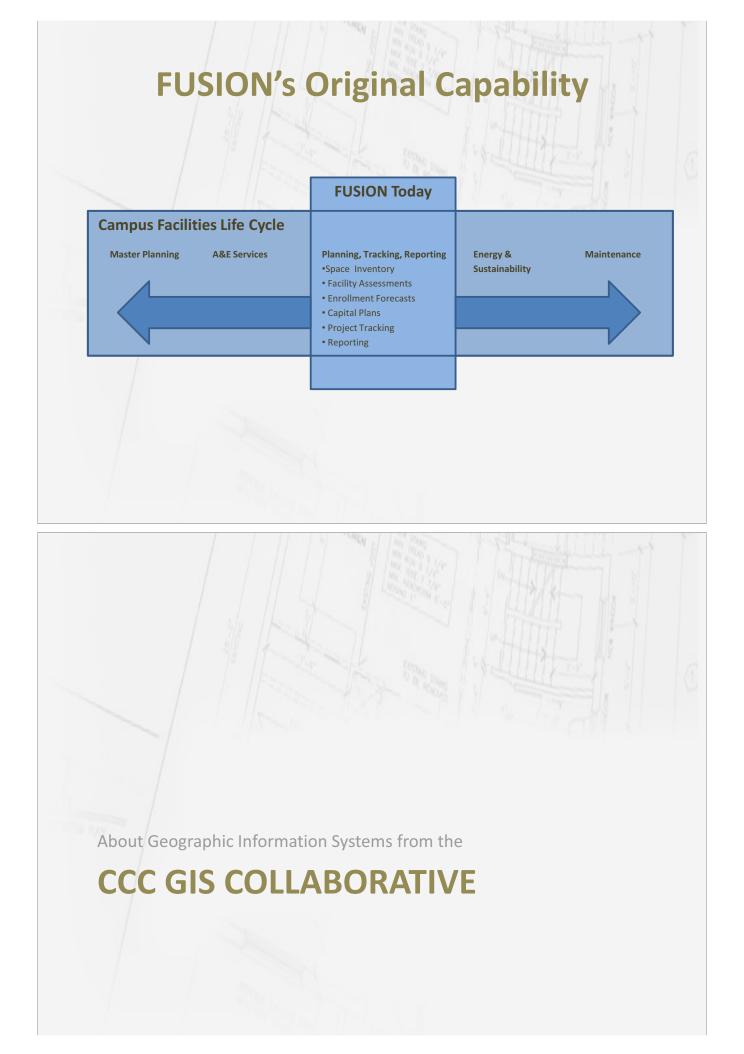
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ohn Roach - District Level is signed in:	Access Your Info	Sign Ou	ıt					Chan	ge Planning Yea	ar: 2014-15, SI
anning 1 <u>Hide 1</u>	iree >> 1.0	Capital	Outlay 5	YP :: 2.0 Local Assis	tance					
Hartnell (2014-15)	PLAN	NNING >	District 5	Year Plan >						
Imperial Valley (2014-15)	San	Joaqu	uin Del	ta Community Colle	ge District - 2014/2015					
Kern		Pro	jects	Forecast	Reports Attac	hments				
Lake Tahoe (2014-15)								1	Add Project 1	[View/Edit Proj
Lassen (2014-15)		Save	e Priority	Arrangement					-sourropeer j	(<u>Herneda Prop</u>
Long Beach		0011	e i morrej	(and generic)						
Los Angeles		1	Priority	Project	Title Car	npus Cat	Occupy Date	Status I 3	1 32 33 Fu	inded Att Cnt
Los Rios (2014-15)										IFC
Marin (2014-15)			1	Goleman Learning Resou Modernization	rce Center San Joaqu College	in Detta C	2008/2009 FPP	-Approved 🗹 [2
Mendocino-Lake			14	Cunningham Mathematics		in Delta				-
Merced (2014-15)			2	Replacement	College	В	2009/2010 FPP	-Approved 🗹 🛛		63
MiraCosta (2014-15) Monterey Peninsula		-			Project Details - Window	s Internet Explo	rer			
Monterey Peninsula Mt. San Antonio (2014-15)		1	3	Manteca Renovation			-			
Mt. San Antonio (2014-15)					http://fusion.deltacolleg	ge.edu/code/pla	nning/project/mai	n.asp?id=1506		
Napa Valley (2014-15)		1	4	Shima/CAT	Cunningham Mathe	ematics / Se	cience Replac	ement		^
North Orange (2014-15)					Project Details					_
Ohlone (2014-15)		1993	5	Planetarium						
Palo Verde			č		Campus: San Joac			CFIS #: 40.49.109		
Palomar (2014-15)		100	R	Holt Bidg / Budd Shops M	Project Title: Cunning					
Pasadena (2014-15)			0	now bidg / budd shops w	Occupy Date: 2009/201		Build	ling No: 51 - CUNN	INGHAM CENT	ER
Peralta (2014-15)					Project Type: New Cor	struction				
Rancho Santiago		(FT)	7	Establish Center in Lodi/C	Project Category: B					
Redwoods					CCI Index: 4421					
Rio Hondo		1223	8	Business Service Reloca	Project Description: The labo	ratory spaces (or	iginally built in 1974)	in the existing Cur	ningham	
Riverside (2014-15)			0	Submices Service Reloca	building	cannot support m	odern science progra	ms. The laborator	ries were built	E
San Bernardino (2014-15)							eling to floor height modern laboratory.			
San Diego (2014-15)		1	9	Restroom Modernization	the deliv	ery of techonlogy	to the building has l	peen minor and no	t enough to	
San Francisco							layout of the laboral ience and math proc			
San Joaquin Delta (2014-15)		177	10	Danner Safety - Site Infra	En alter akte		ence and madriprog		minute and	•
San Jose-Evergreen (2014-1	5)			same samey - and inte	Status: FPP-App	roved				
San Luis Obispo (2014-15)					Project Phase Distribution of	f Space Score	Forms Reports			
San Mateo		1	11	Forum Modernization	Project Phase					
Santa Barbara (2014-15)							State Funds	Non State		
Santa Clarita (2014-15)		1	12	South Center Campus @		Funding Date	Requested	Funds	Project Cos	t
Santa Monica (2014-15)				Repurposing	Land Acquisition					
					Preliminary Plans	2007/2008	\$1,048,000	\$1,048,000	\$2.096.000	
					Premimary Plans	200112008	\$1,048,000	\$1,048,000	32,030,000	



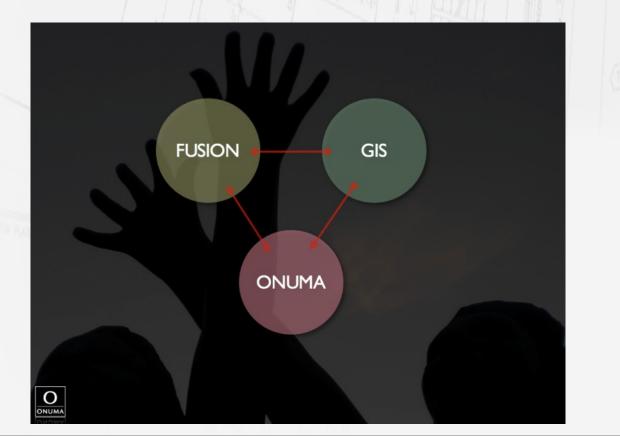
				🟫 Hor	me Assessment	Space Inventory		Project	😯 Ema
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apital Outlay Projects 1 Hide Tr	ree >>> 1.0 Capital Plann	ing Projects	:: 2.0 Local Assistance Projects						
1 Pasadena	Project > Capital (
Peralta	Cunningham	Mathematics / Scien	nce Replacement						
Rancho Santiago		Project Detail	Actions						
Redwoods	Cumping	ham Mathematics /	Claims	il '					
Rio Hondo									-
Riverside	Project De		Quarterly Report						
San Bernardino	Campus:	San Joaquin Delta College	Change Request						
] San Diego	Project		Form 14D						
San Francisco	Priority:		Form 14D						
San Joaquin Delta	Project Title:	Cunningham Mathematics	s Re-Appropriation						
E San Joaquin Delta College			Augmentations/Reversions						
 Cunningham Mathematics / S Goleman Learning Resource 		2009/2010							
→ Planetarium	Con Date.		visionally hullt in 4074) in the evinti	on Cuppingham hu	Iding append support	modern aclease arr	arama Tha la	harsterias	the built
San Jose-Evergreen			riginally built in 1974) in the existi g to floor height (13 feet) to meet						
San Luis Obispo			has been minor and not enough						
San Mateo			m is fractured among instructiona						
		Additionally, there are no	t enough suitable instructional spi	aces to fit the grow	wing program. The car	mpus is currently ha	as a capacity	load of 73% in	the lab
Santa Barbara		catagony							
		category.							
Santa Clarita			demolition of the existing Cunning		02 ASF) and the cons	truction of a new C	unningham bu	ilding (ASF) n	ear the
3 Santa Clarita 3 Santa Monica		The project includes the o Shima center. This location	on is just northwest of the existing	ham building (63,7 g location. The new	w building will provide	for a combined mat	th and science	academic pr	ogram ii
 Santa Clarita Santa Monica Sequoias 		The project includes the of Shima center. This location modern laboratory enviro	on is just northwest of the existing mment. It will also provide a learni	ham building (63,7) g location. The new ing resource area	w building will provide devoted to math and s	for a combined mat science to help mee	th and science t the need for	academic pro Library space	ogram i e on car
 Santa Clarita Santa Monica Sequoias Shasta-Tehama-Trinity 		The project includes the of Shima center. This location modern laboratory environ well as strengthen the curr	on is just northwest of the existing	ham building (63,7) g location. The new ing resource area building and its ac	w building will provide devoted to math and s	for a combined mat science to help mee	th and science t the need for	academic pro Library space	ogram i e on car
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Santa Clarita Santa Monica Sequoias Shasta-Tehama-Trinity Sierra Siskiyou		The project includes the of Shima center. This locatic modern laboratory enviro well as stregthen the cur science) will support imp The College plans to supp	on is just northwest of the existing mment. It will also provide a learni ment academic program. The new	ham building (63,7) g location. The new ng resource area building and its ac ds.	w building will provide devoted to math and s	for a combined mat science to help mee	th and science t the need for	academic pro Library space	ogram ii e on car
Santa Clarita Santa Monica Sequoias Shasta-Tehama-Trinity Sierra Siskiyou Solano	Funding	The project includes the of Shima center. This location modern laboratory enviro well as stregthen the cur science) will support imp The College plans to supp	on is just northwest of the existing nment. It will also provide a learni rent academic program. The new roved instructional delivery metho port this project with 50% of the o	ham building (63,7) g location. The new ng resource area building and its ac ds.	w building will provide devoted to math and s djacency to the Shima	for a combined mat science to help mee building (that house	th and science t the need for es programs d	academic pro Library space	ogram i e on car in math
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Santa Clarita Santa Monica Sequoias Shasta-Tehama-Trinity Sierra Siskiyou Solano Sonoma South Orange		The project includes the d Shima center. This location well as strengthen the cur science) will support imp The College plans to supp Phase State Fund P \$1,048,000	on is just northwest of the existing nment. It will also provide a learn rent academic program. The new roved instructional delivery methor port this project with 50% of the or Local Fund Appropriation Ant \$1,048,000 \$1,048,000	ham building (63,7) g location. The new ng resource area building and its ar dds. cost. Encumber Amt \$1,048,000	w building will provide devoted to math and s djacency to the Shima Fund No. 6870-301-6049 (38)	for a combined mat science to help mee building (that house Fund Yea 2007	th and science t the need for es programs d	Encumbe By 6/30/2008	ogram in e on car in math r Rev 6/30
Santa Clarita Santa Monica Sequoias Shasta-Tehama-Trinity Sierra Siskiyou Solano Sonoma South Orange Southwestern		The project includes the cost modern laboratory enviro well as stregthen the cur science) will support imp The College plans to supp Phase State Fund P \$1,048,000 W \$1,254,000	n is just northwest of the existin nment, it will also provide a learnin rent academic program. The new roved instructional delivery metho port this project with 50% of the or Local Fund Appropriation Ant \$1,048,000 \$1,254,000 \$1,254,000	ham building (63,7) g location. The new ng resource area building and its ar ds. cost. Encumber Ant \$1,048,000 \$1,254,000	w building will provide devoted to math and s diacency to the Shima Fund No. 6870-301-6049 (38) 6870-301-6049 (38)	for a combined mat science to help mee building (that house Fund Yea 2007 2007	th and science t the need for es programs d	Encumbe By 6/30/2008 6/30/2008	ogram in e on car in math r Rev
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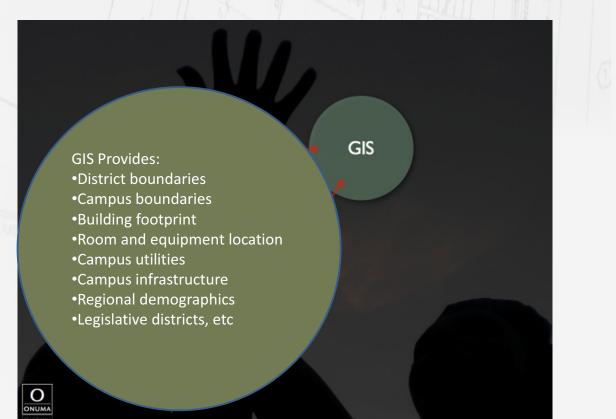


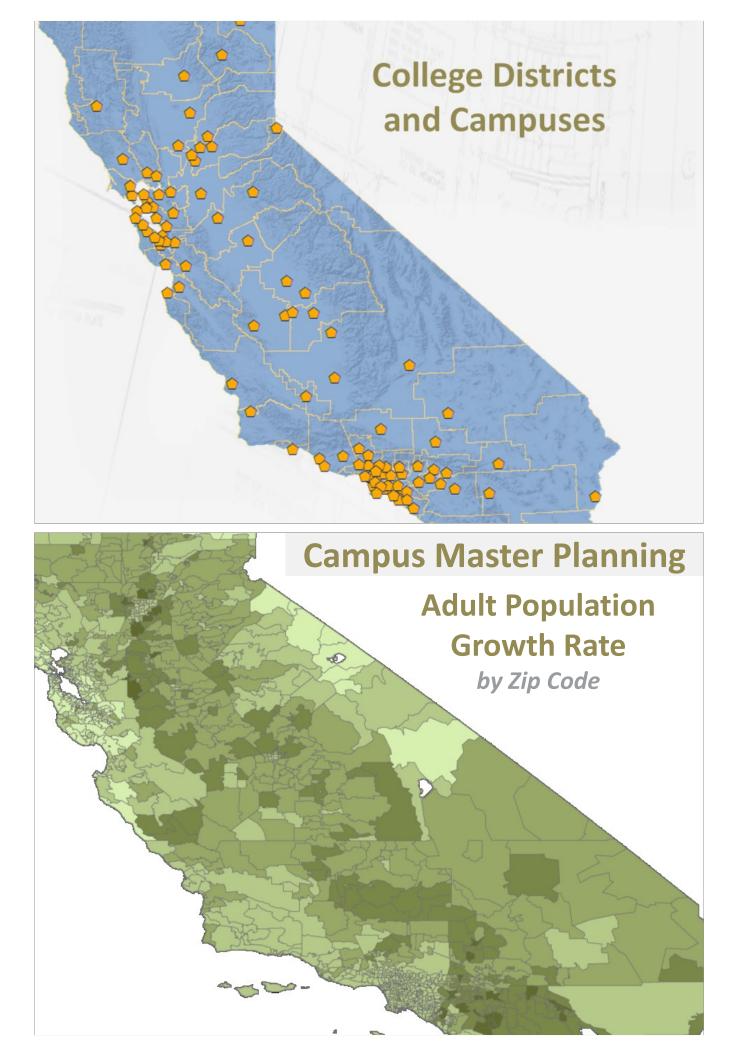


FUSION+CCCGIS+Onuma



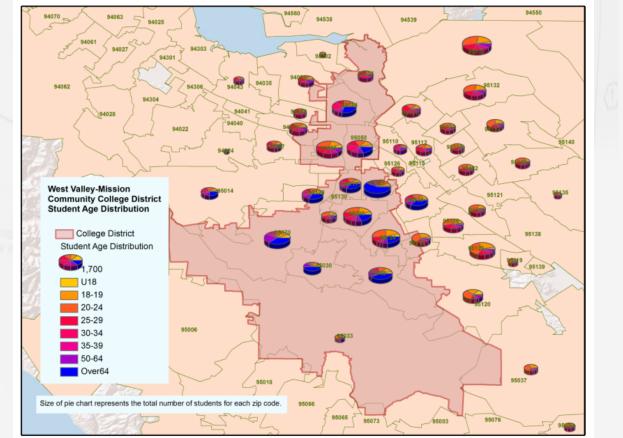
FUSION+CCCGIS+Onuma



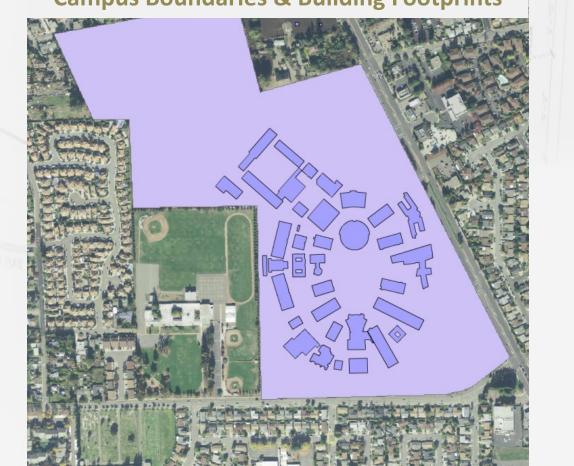


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Enrollment Demographics





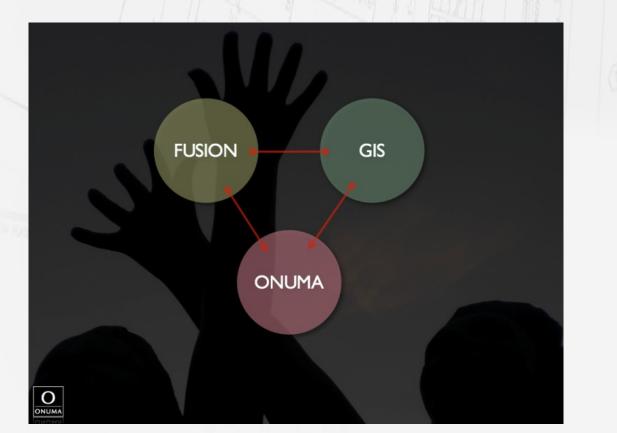


Campus Infrastructure Utilities, sidewalks, roads, easements.... EB GR SC SC SC SC EB sc ET) EB (HY) ₿ SM F EB BB. EB EB EBH EB SC GL . P ep Hy СМ EV (FH) SM WL EP WL)

Web Integration and Building Information Modeling

ONUMA SYSTEMS

FUSION+CCCGIS+Onuma



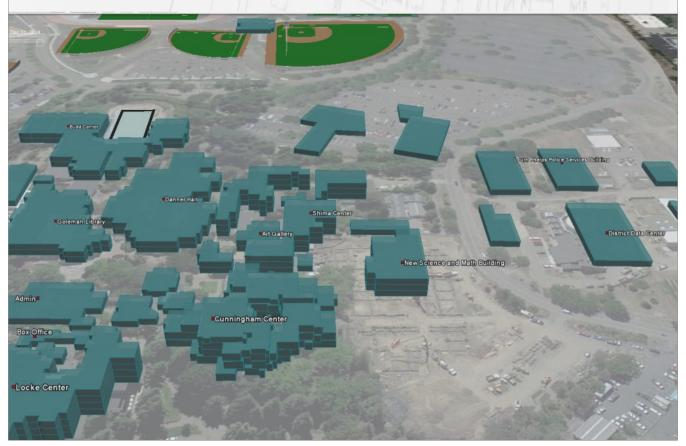
FUSION+CCCGIS+Onuma

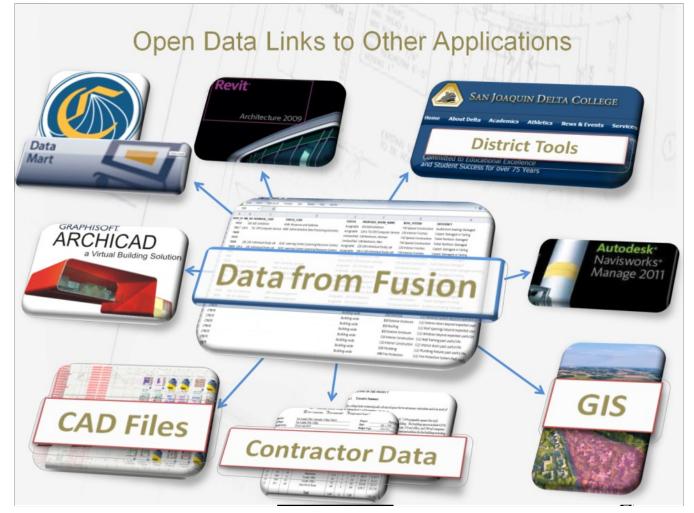
ONUMA

Onuma System Provides: •Building information modeling •Web-based data integration •Visual, intuitive navigation •Links to other tools and data •Enables global collaboration

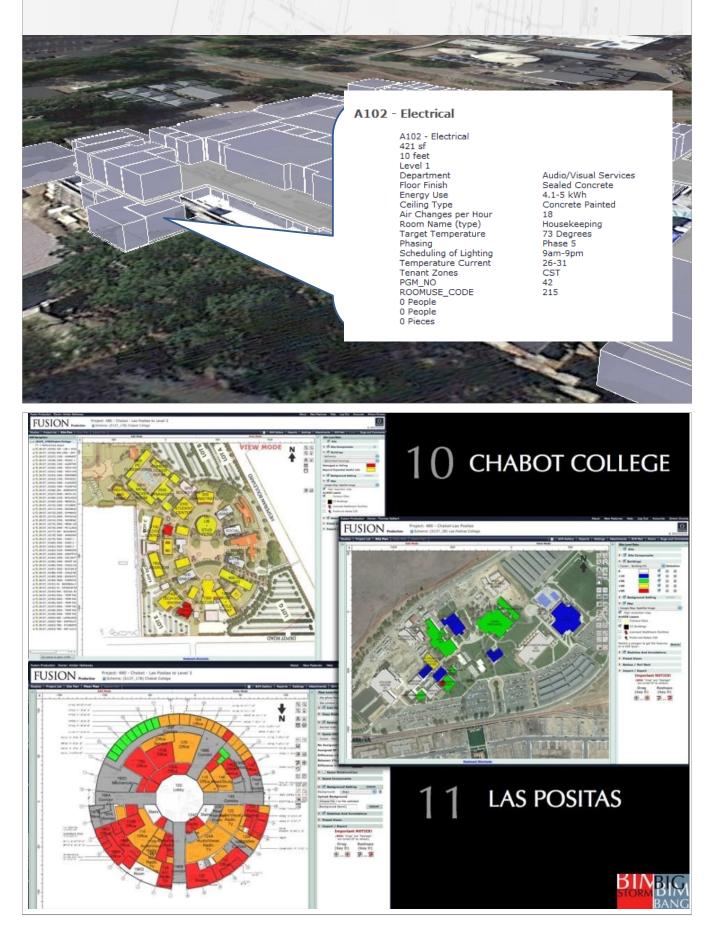
ONUMA

San Joaquin Delta College





San Joaquin Delta College New Science & Math Building

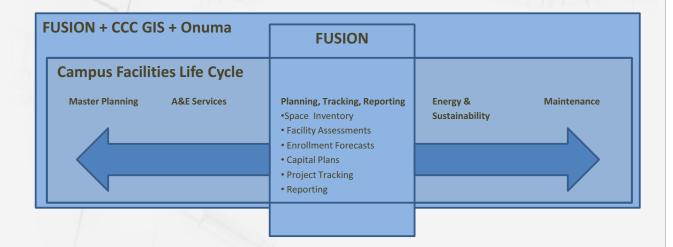


All together...

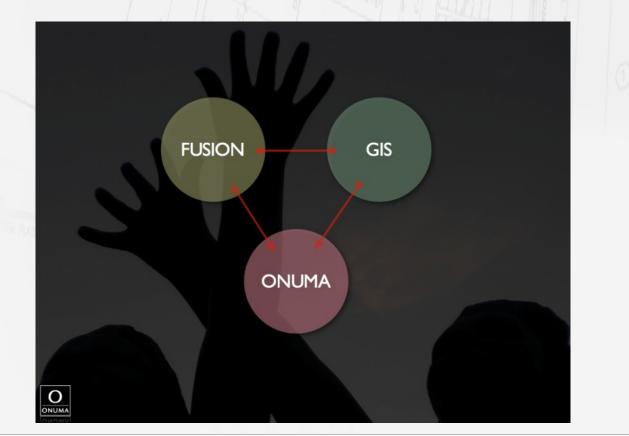
FUSION+CCCGIS+ONUMA

Linking FUSION + CCCGIS + Onuma

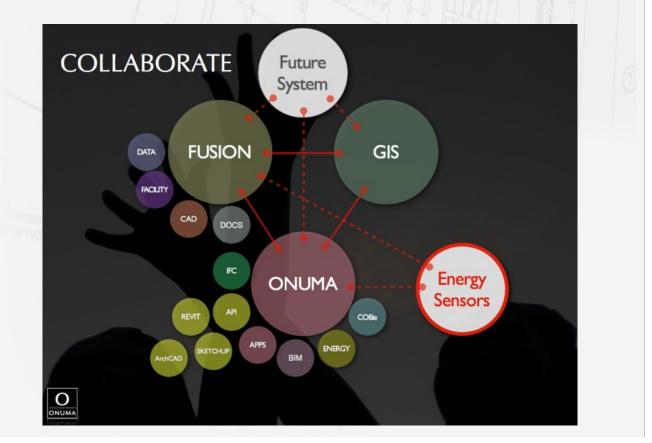
... the facilitator making FUSION data accessible

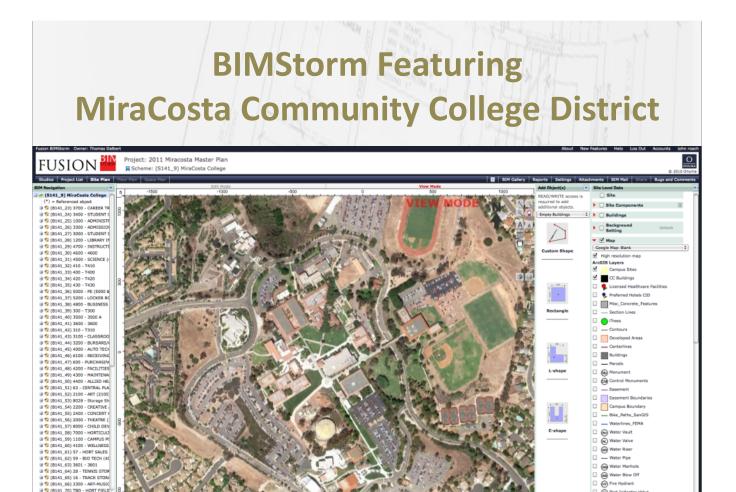


FUSION+CCCGIS+Onuma



FUSION+CCCGIS+Onuma





BIMStorm Featuring MiraCosta Community College District

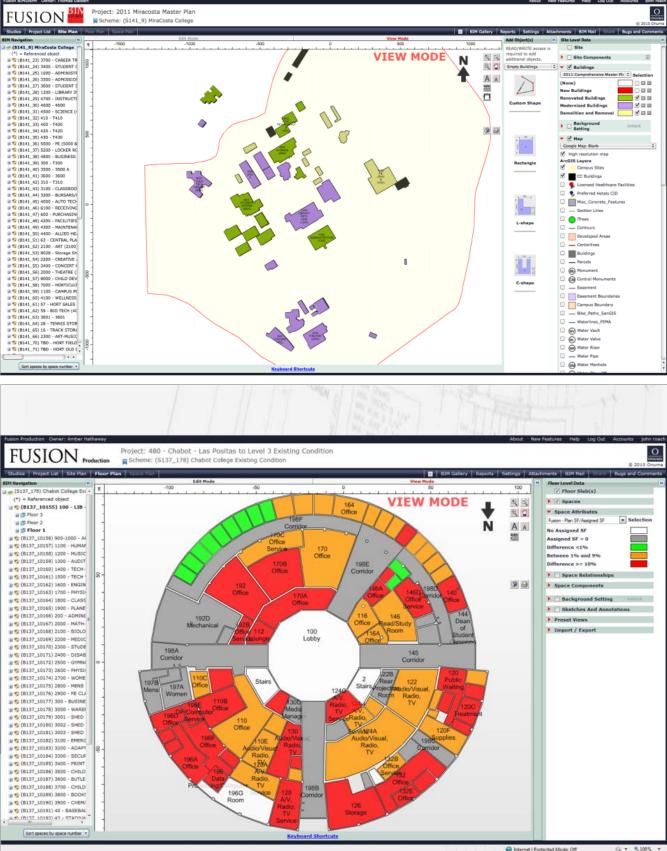
41_70) TBD - HORT FIELD 41_71) TBD - HORT OLD 1414

6 Fire Hydrant Post Indicator

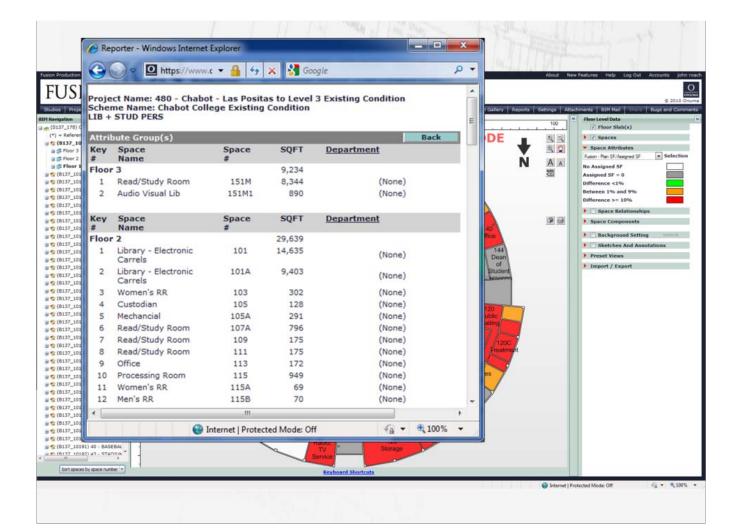
fsPumpHk

Project List Site Plan Floor Plan Space Plan	raCosta College			BIM Gallery	Reports Settings Att	achments BIM Mail Share Bugs and Con
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41_9) MiraCosta College n 1 -1500	-1000	-500 0	500	1000	READ/WRITE access is	🗆 Site
Referenced object			VIEW MODE		required to add	Site Components
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8141_34) 420 - T420				SP 🗃		CC Buildings
8141_35) 430 - T430					· · · · · · · · · · · · · · · · · · ·	Licensed Healthcare Facilities
8141_36) 5000 - PE (5000 B					1 .	Preferred Hotels CID
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8141_40) 3500 - 3500 A 8141_41) 3600 - 3600						O ITrees
8141_42) 310 - T310						Contours
8141_43) 3100 - CLASSROO						Developed Areas
8141_44) 3200 - BURSAR5/1						
8141_45) 4000 - AUTO TECH	· · ·					Centerlines
8141_46) 6100 - RECEIVING					3	Buildings
8141_47) 600 - PURCHASIN						Parcels
8141_48) 4200 - FACILITIES					L-shape	Monument
8141_49) 4300 - MAINTENA						
3141_50) 4400 - ALLIED HE						Control Monuments
8141_51) 63 - CENTRAL PLA						Easement
3141_52) 2100 - ART (2100)						Easement Boundaries
8141_53) 8028 - Storage Sh 8141_54) 2200 - CREATIVE					· · · · · · · · · · · · · · · · · · ·	Campus Boundary
8141_54) 2200 - CONCERT)			1			Bike Paths SanGIS
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3141_57) 8000 - CHILD DEV						Waterlines_FEMA
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8141_59) 1100 - CAMPUS PC				1		Water Valve
3141_60) 4100 - WELLNESS				/		
8141_61) 57 - HORT SALES				/		Water Riser
8141_62) 59 - BIO TECH (40						Water Pipe
8141_63) 3601 - 3601 -						Water Manhole
8141_64) 28 - TENNIS STOR						Water Blow Off
8141_65) 16 - TRACK STOR/						
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BIMStorm Featuring MiraCosta Community College District



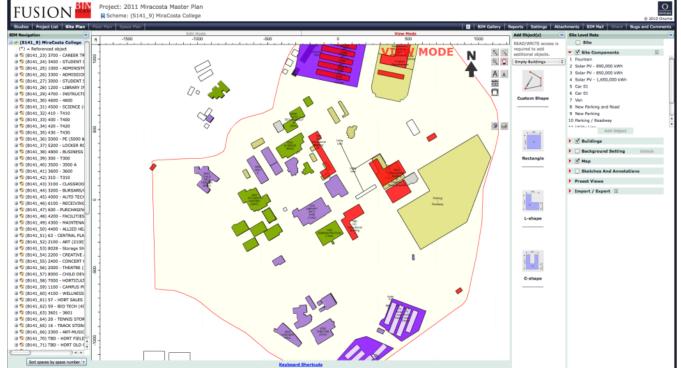
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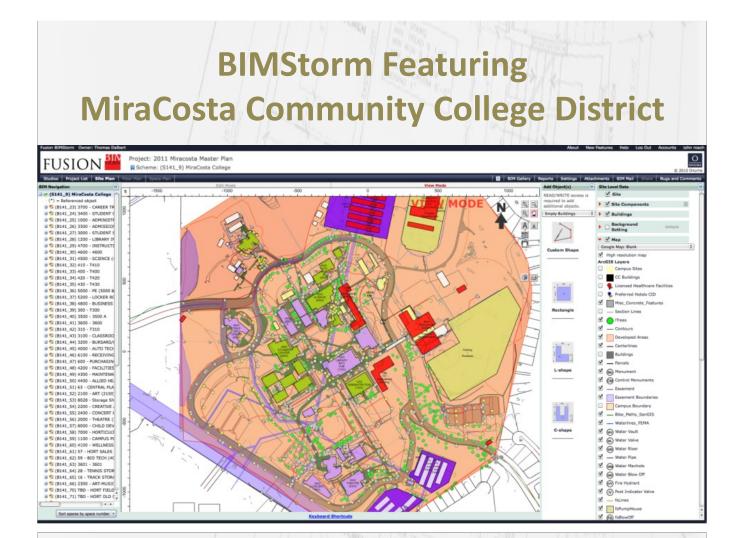


BIMStorm Featuring MiraCosta Community College District

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Project: 2011 Miracosta Master Plan Scheme: (S141_9) MiraCosta College





Topics
About the California Community Colleges
Our Integrated Facilities Platform

FUSION for Facilities Reporting
CCC GIS for location and map information
Onuma for building information modeling

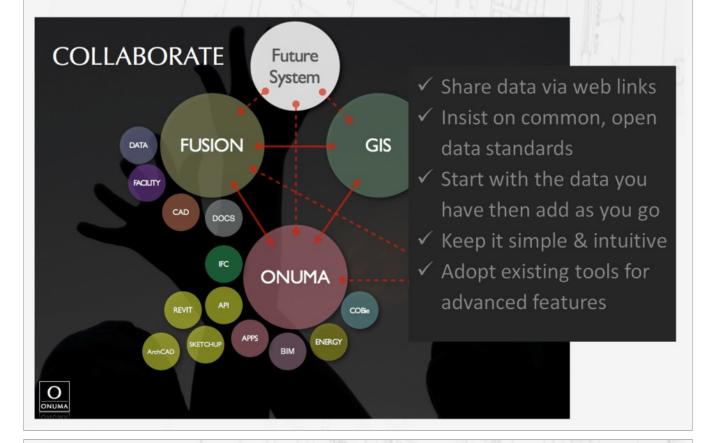
How It Is Used
Why It Works...Shared Data on the Web

How the California Community Colleges Use FUSION+CCCCGIS+Onuma

- All 72 districts with 5,000 simple buildings models
- 6 districts completed pilots or demonstrations
- 4 districts for master planning
- 3 districts for energy assessments
- Import detailed design BIM
- Export space requirements for detailed design
- Room sensors
- Evaluating links to CMMS, ERP, job ticketing, class scheduling, space utilization, asset inventory...

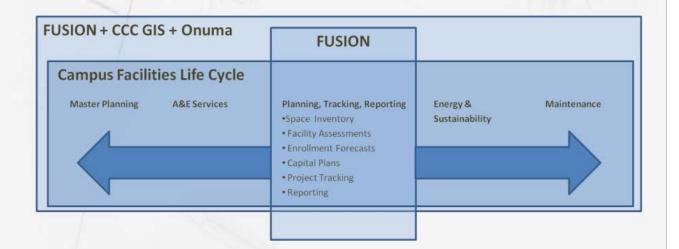


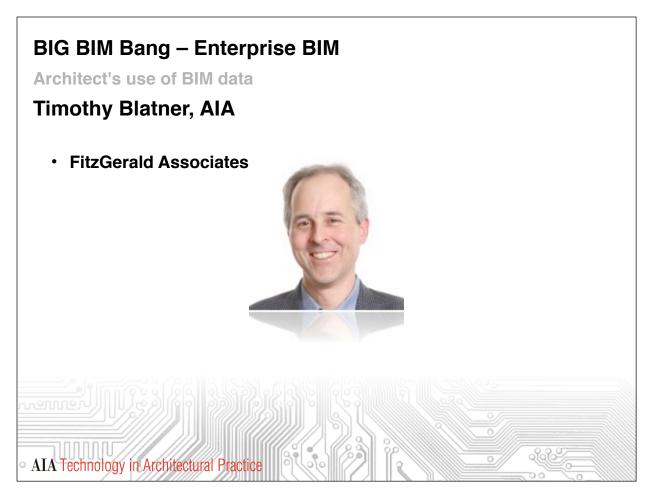
Why It Works...Shared Data on the Web

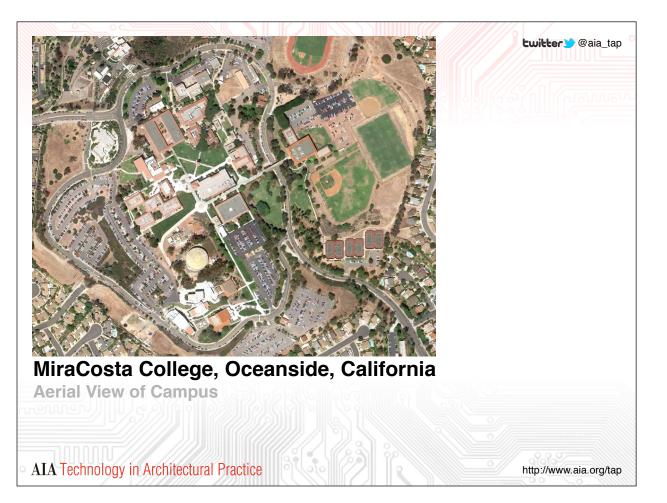


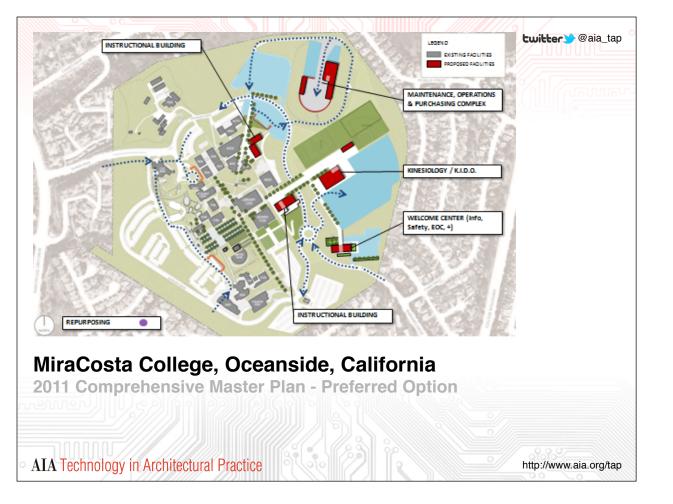
Linking FUSION + CCCGIS + Onuma

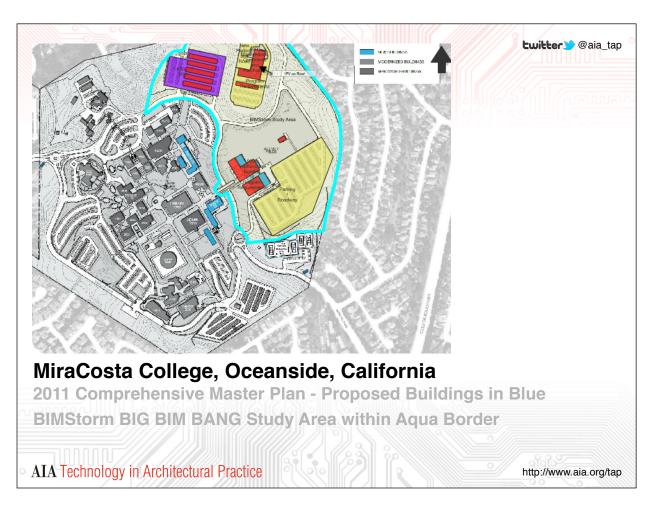
... the facilitator making FUSION data accessible

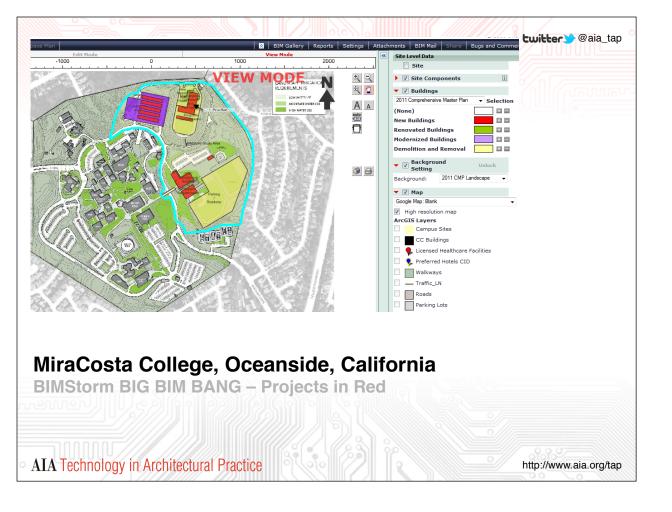


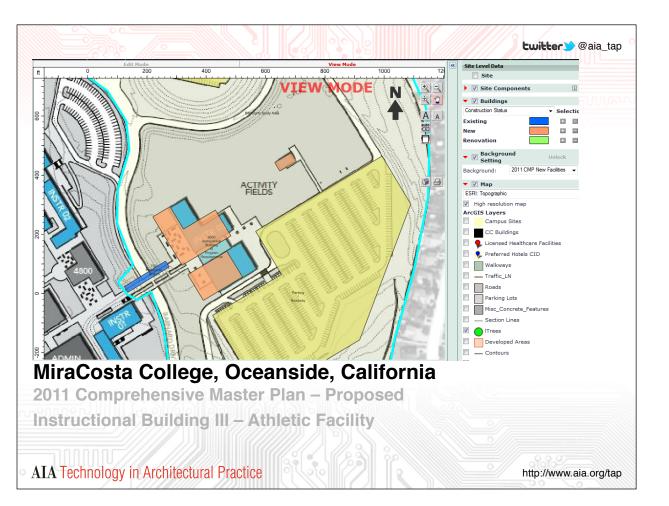


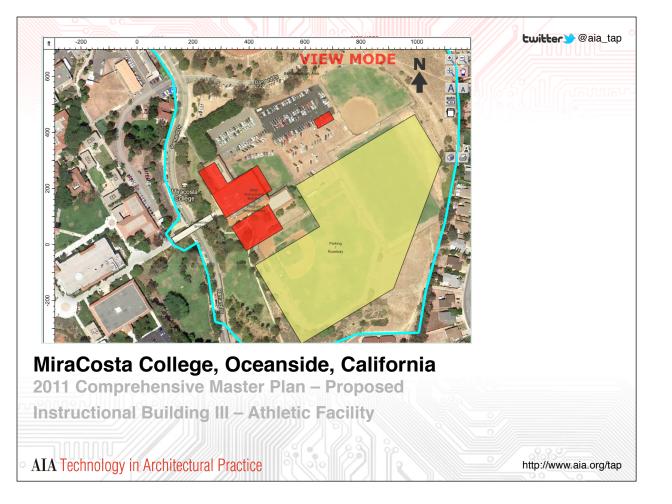


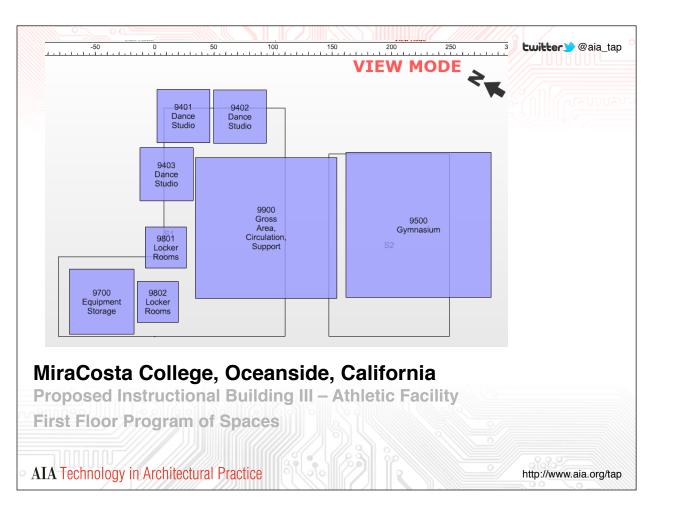


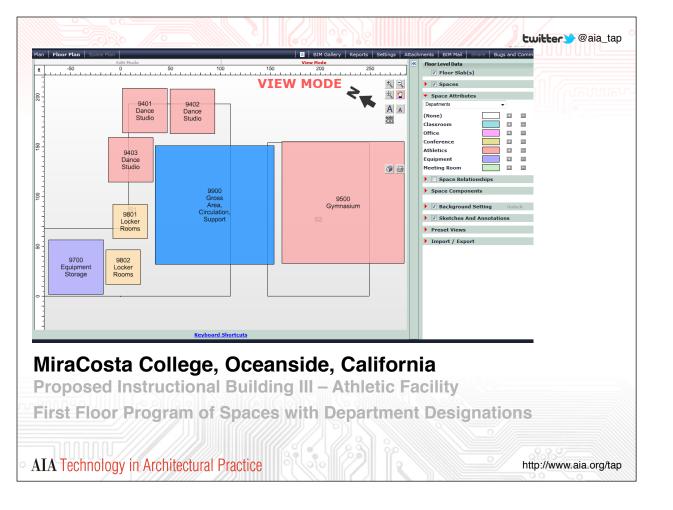


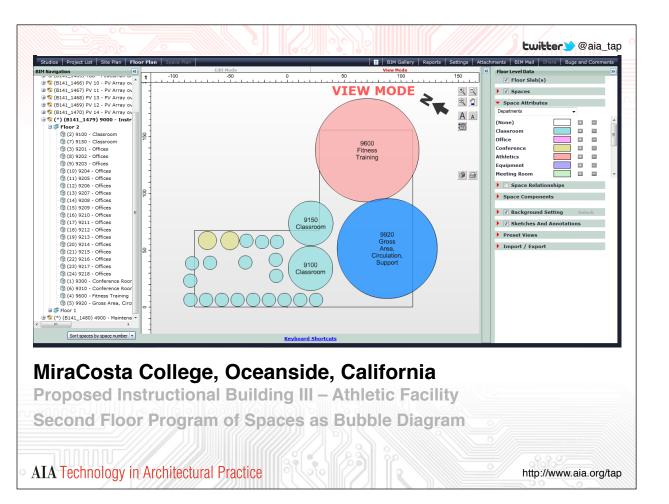


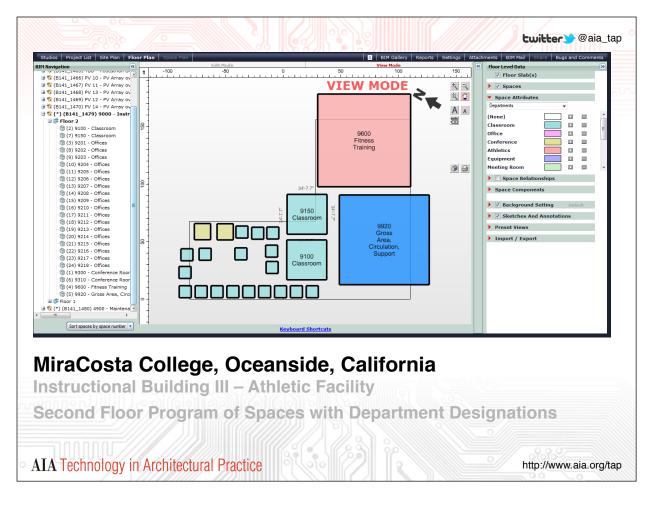


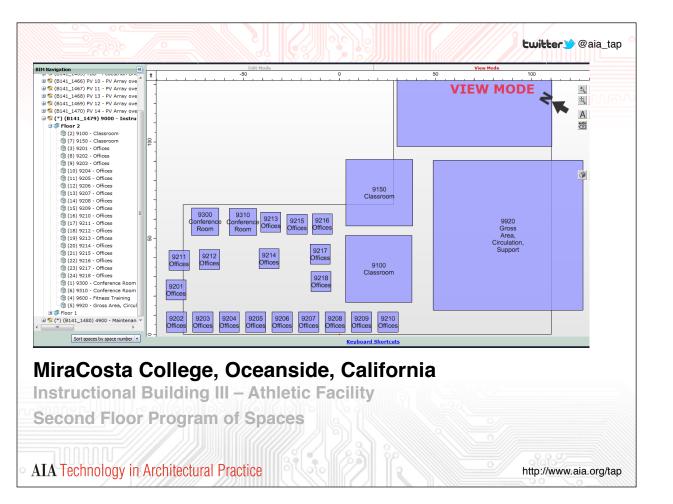


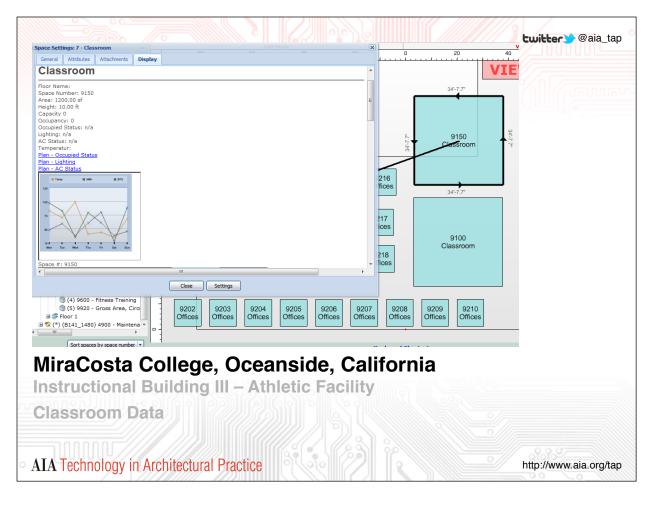


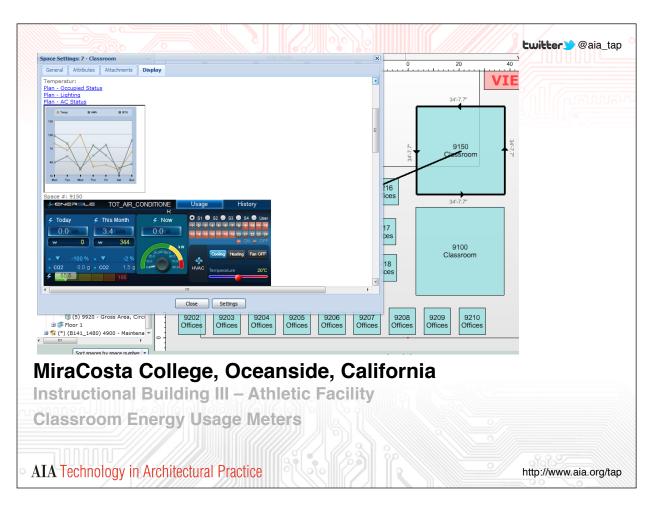


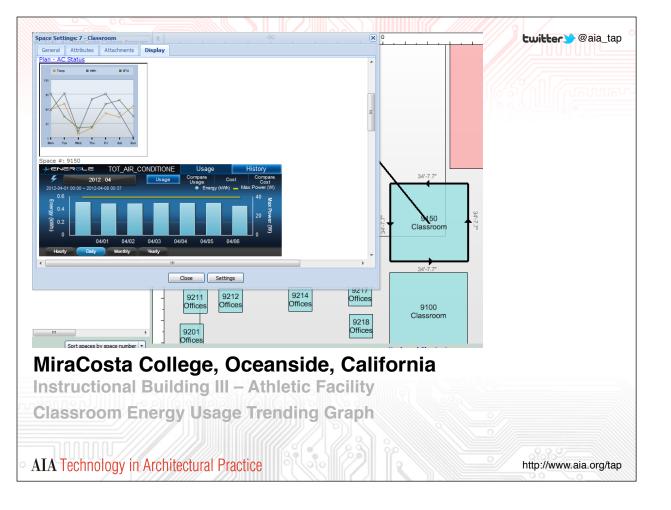


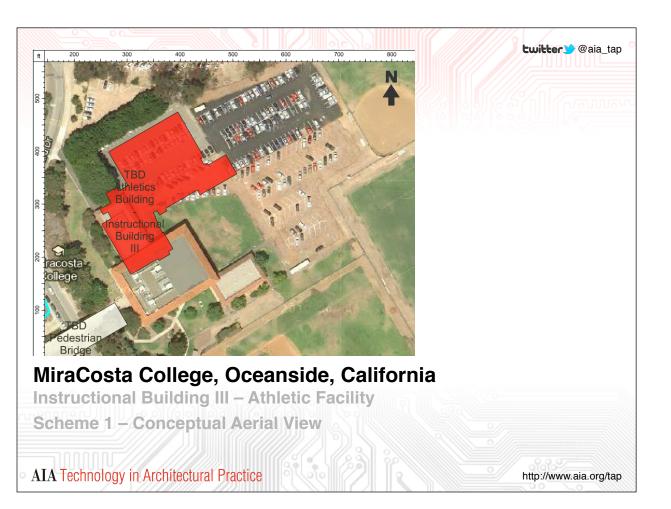


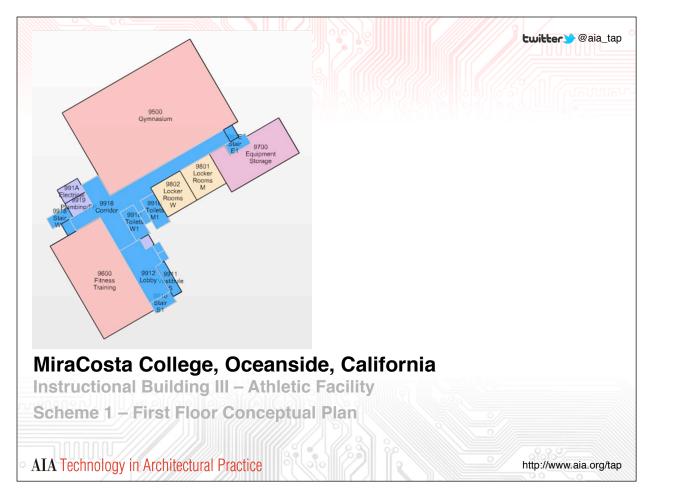


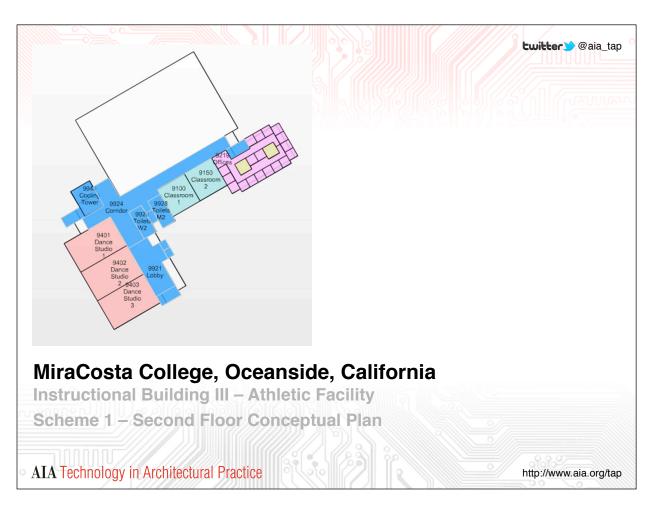


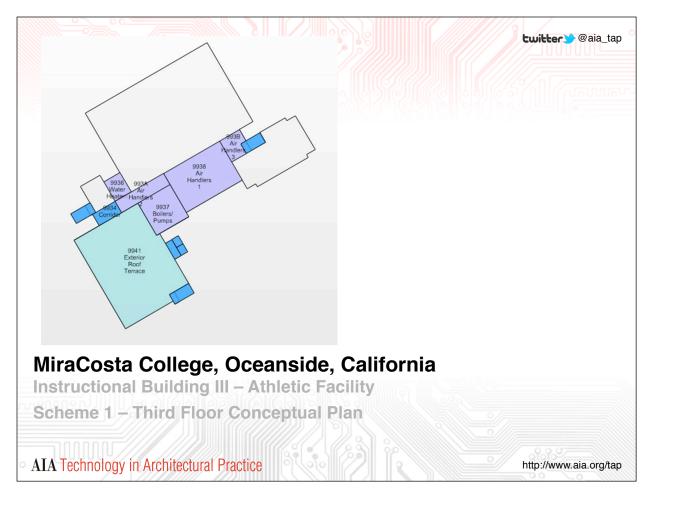


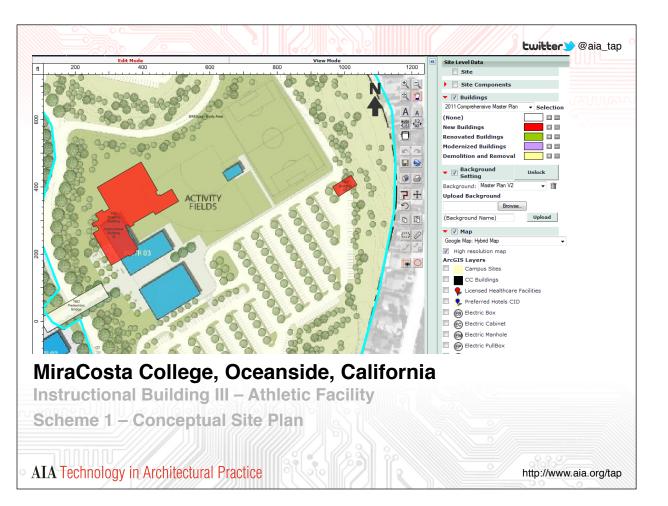


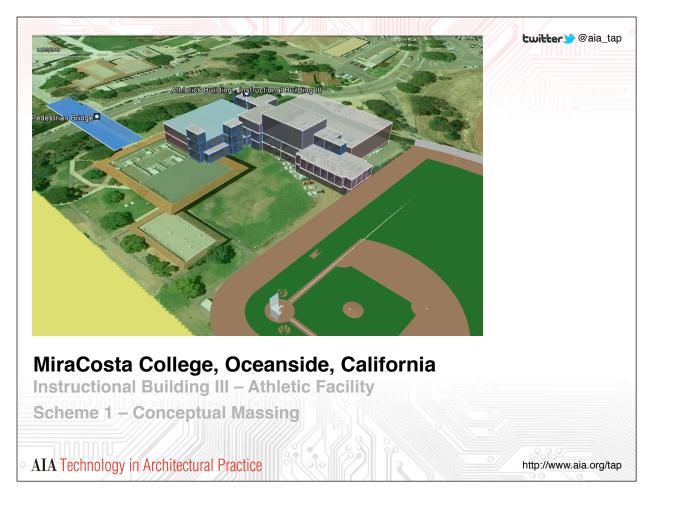


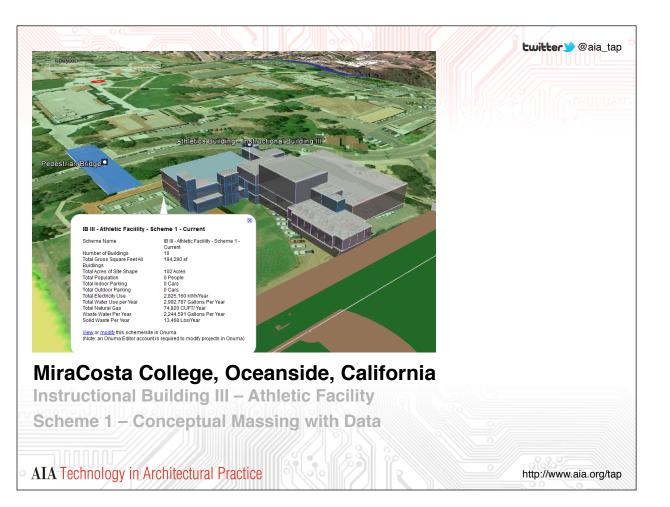


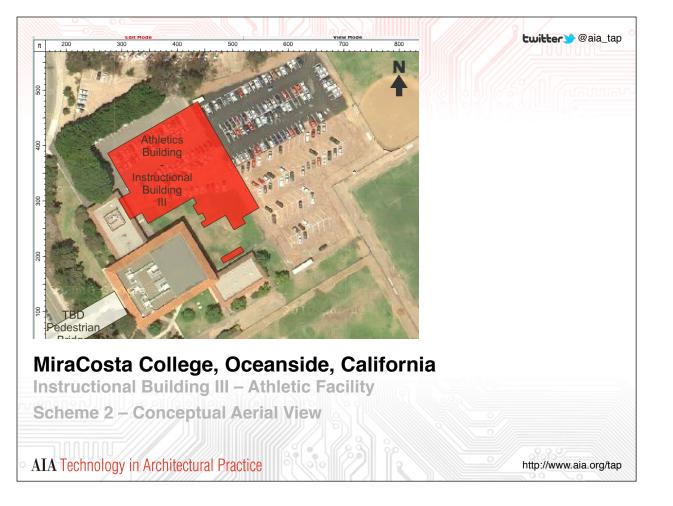


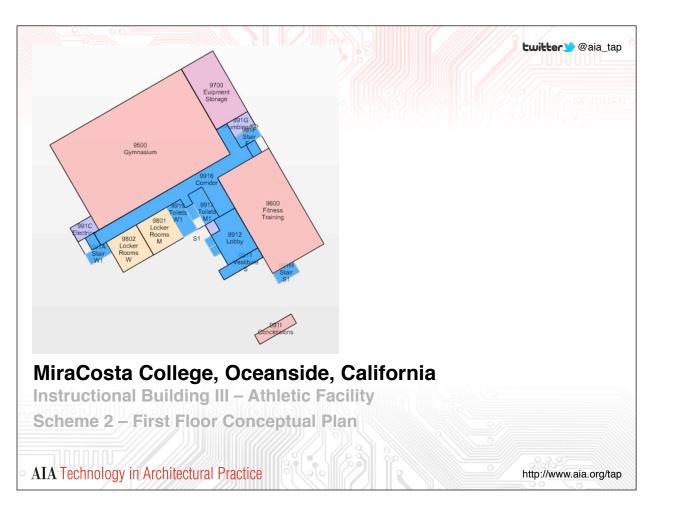


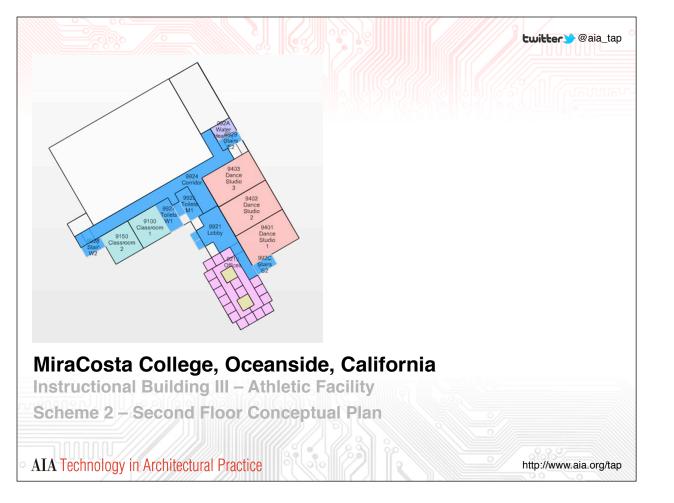


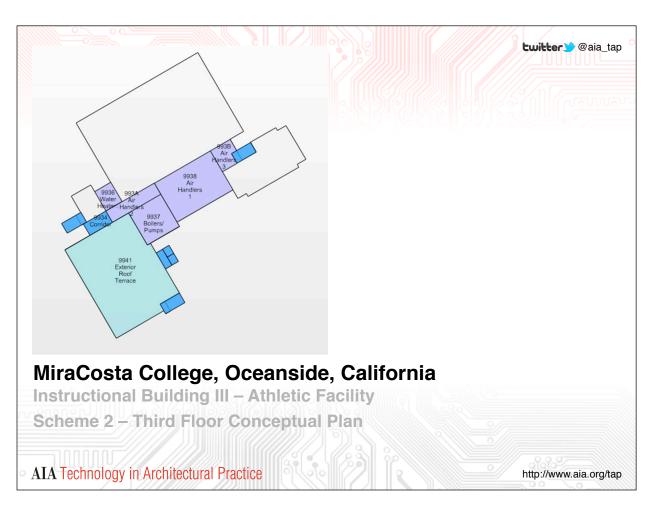


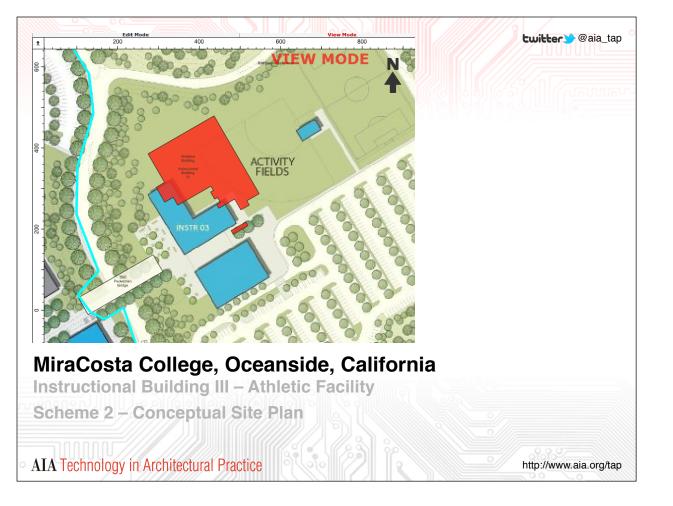


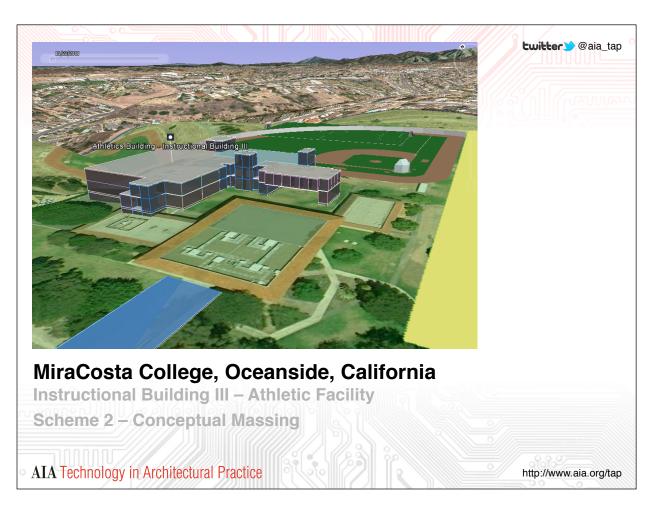


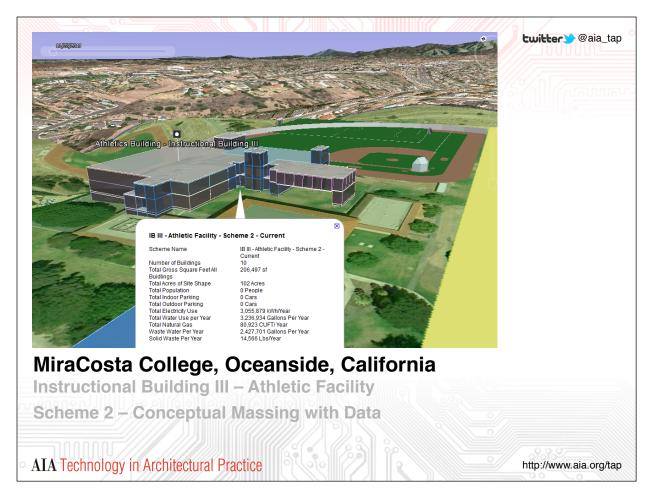


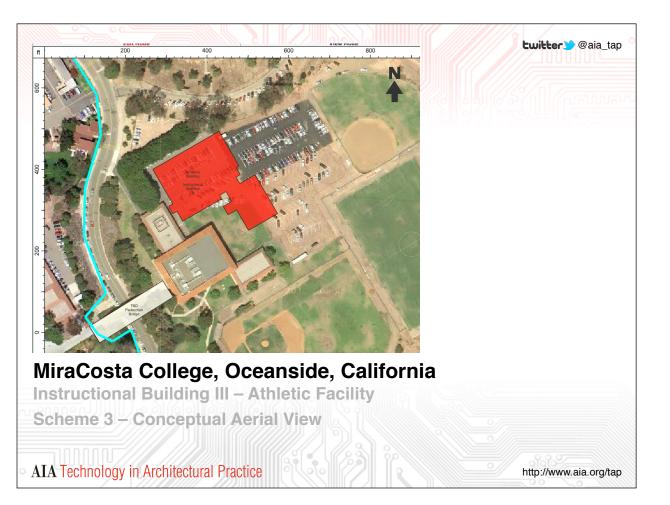


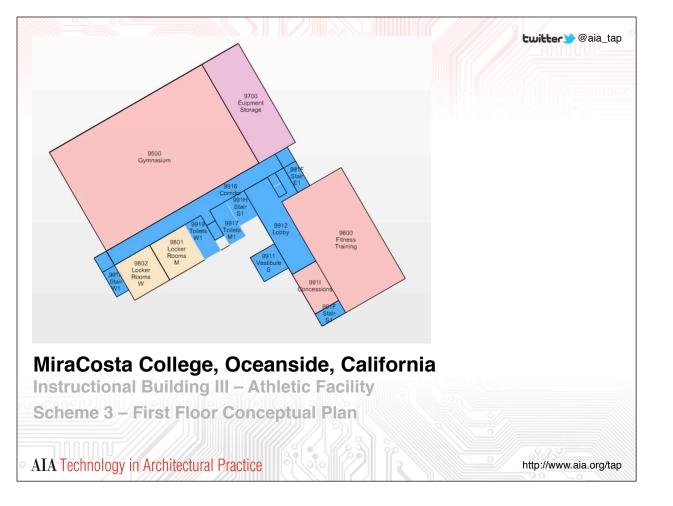


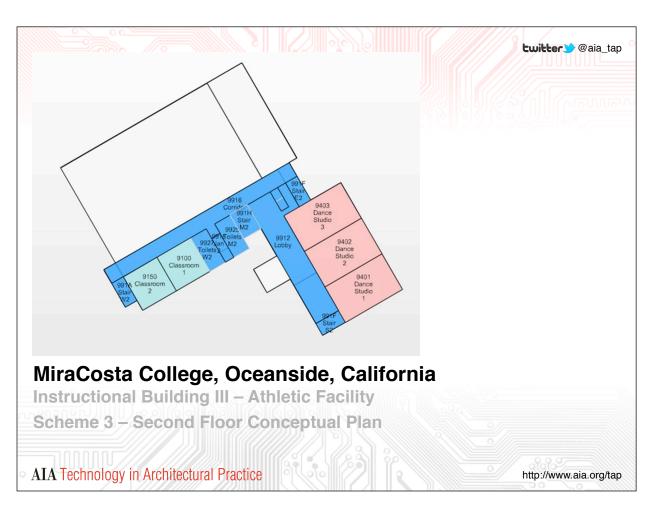


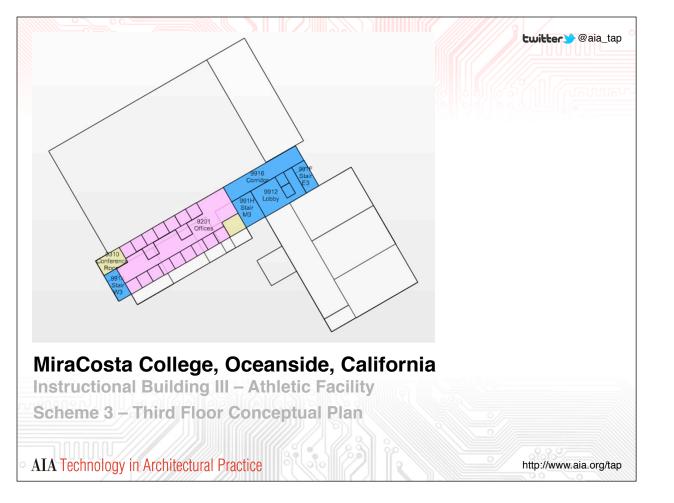


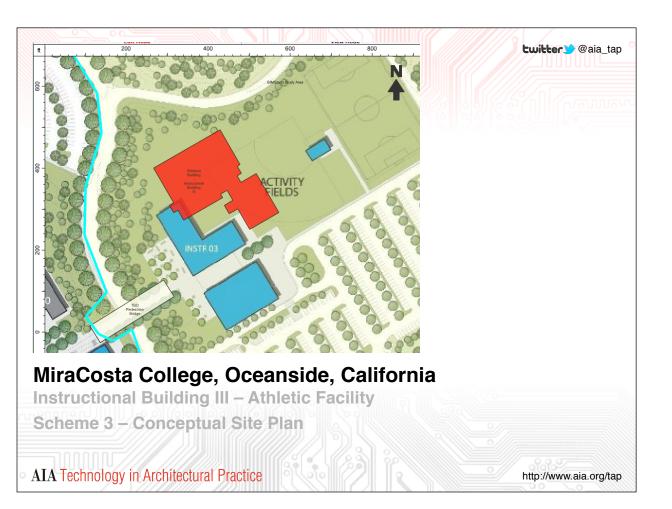


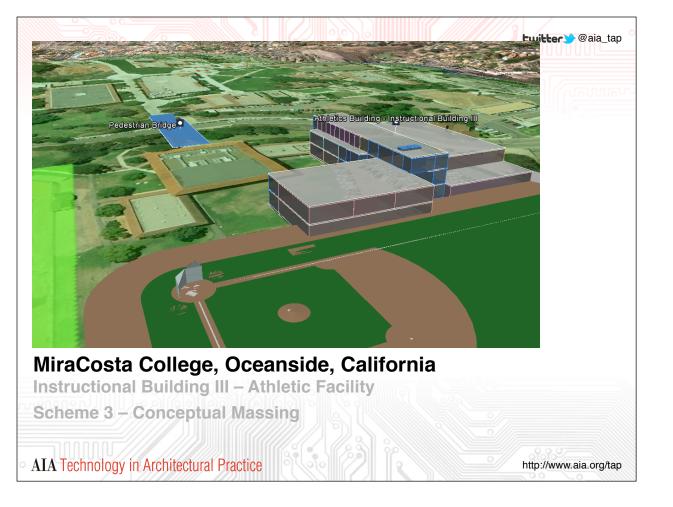


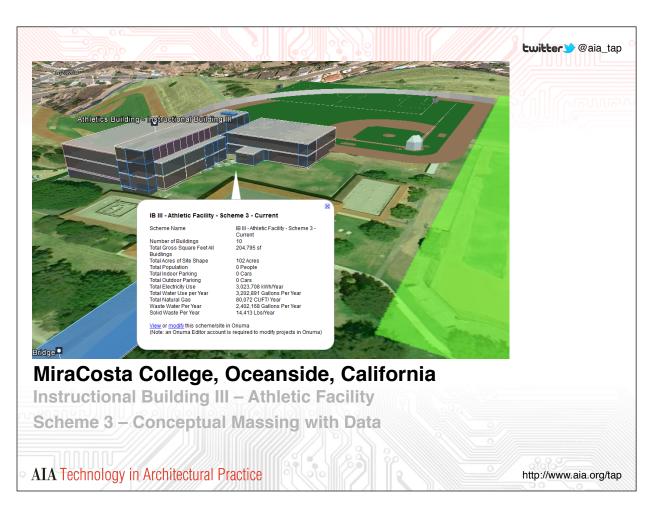


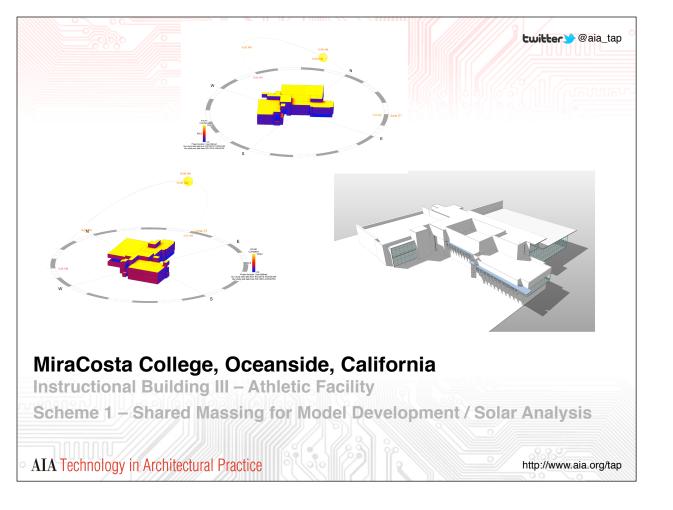


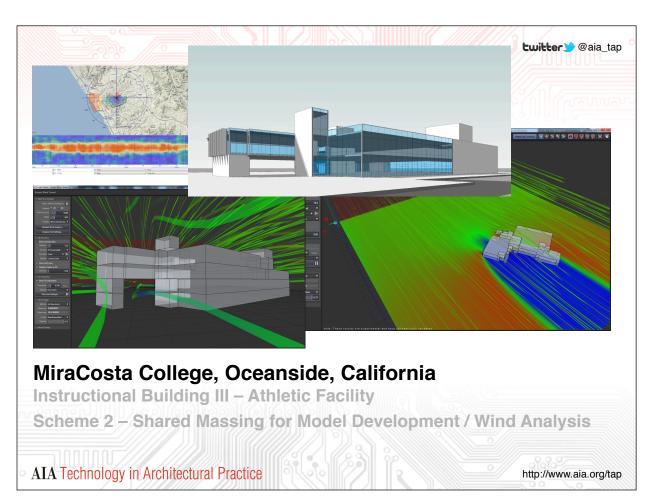






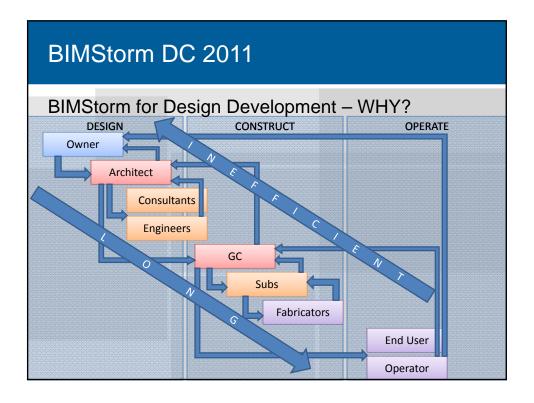


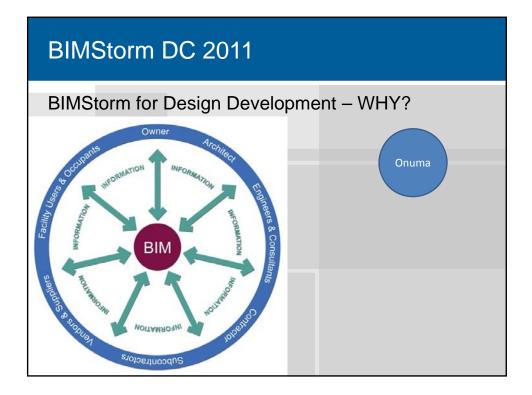








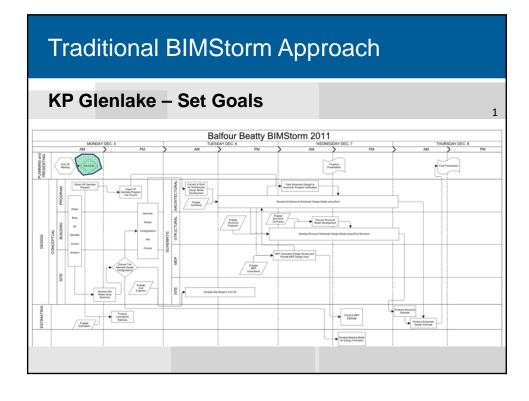


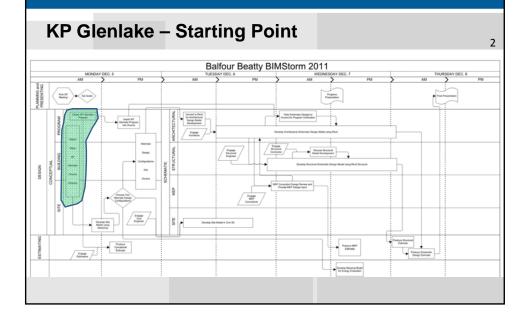


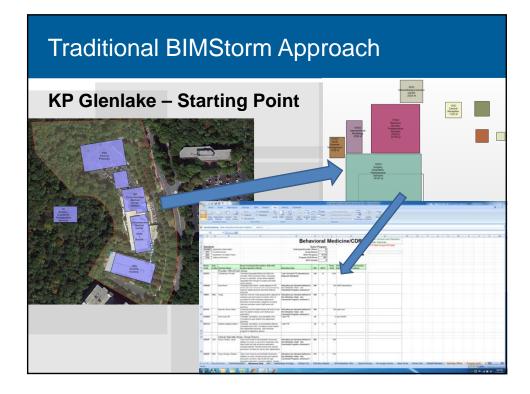


KP Glenlake – Goals

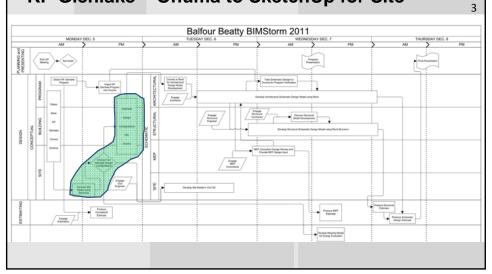
- •Get program data into Onuma
- Develop two different design options
 - Configuration A
 - Configuration B
- •Schematic design Architectural
- •Schematic design Structural
- •Cost estimate of schematic design
- •Get early MEP input on schematic designs
- •Energy evaluation for both options
- •Civil / Site evaluation for both options







KP Glenlake – Onuma to SketchUp for Site

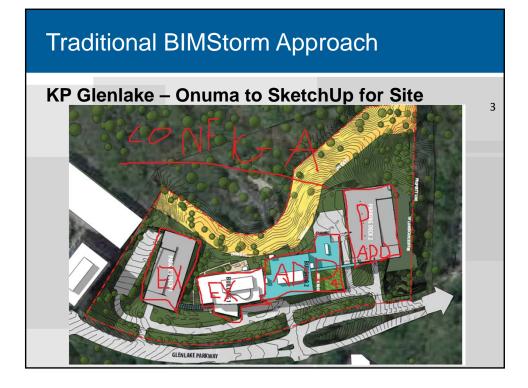


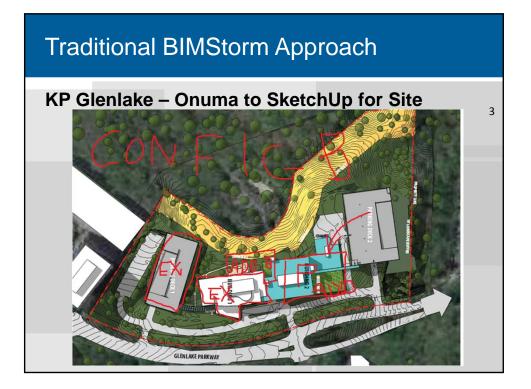
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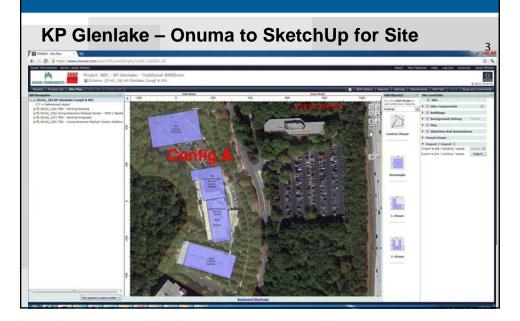


Traditional BIMStorm Approach

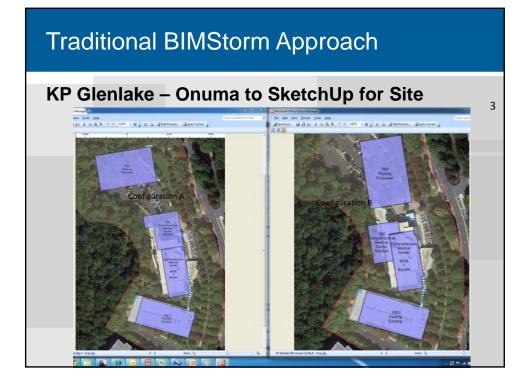






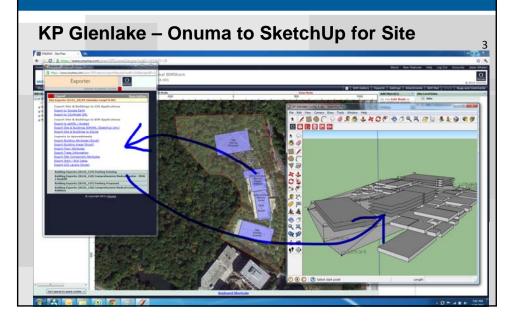


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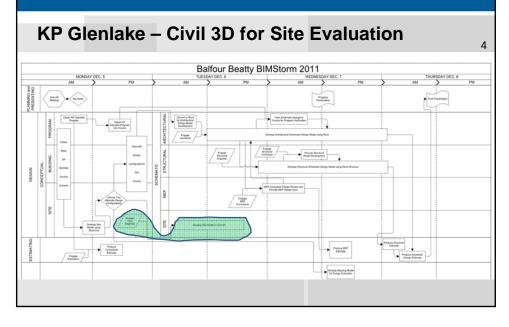
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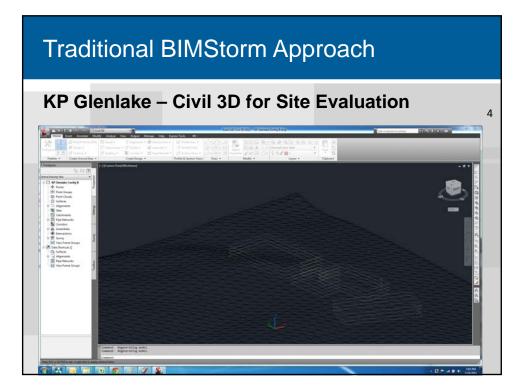


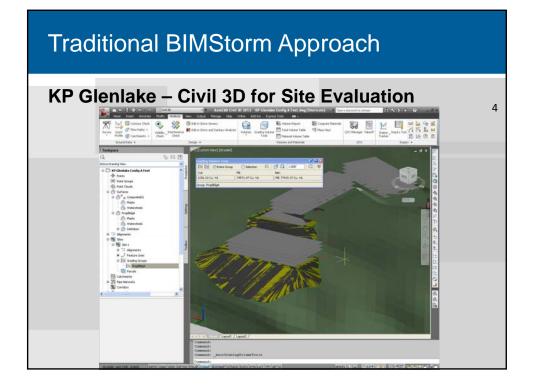


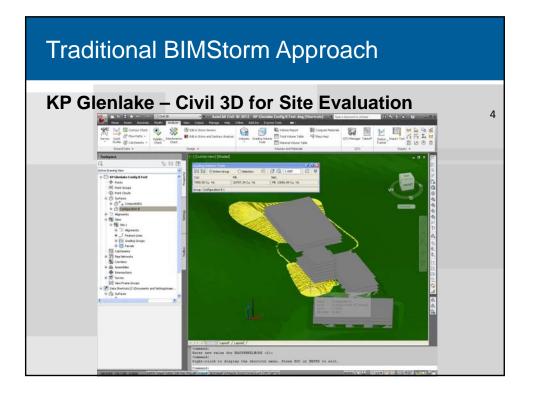


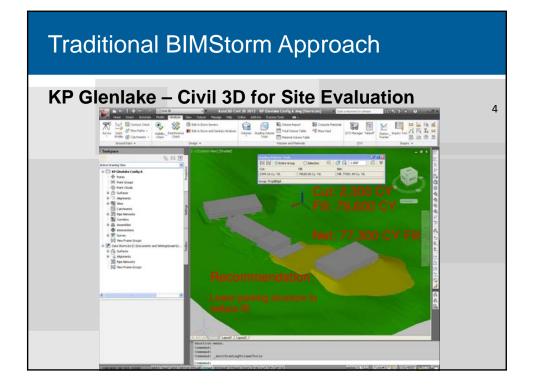
KP Glenlake – Civil 3D for Site Evaluation

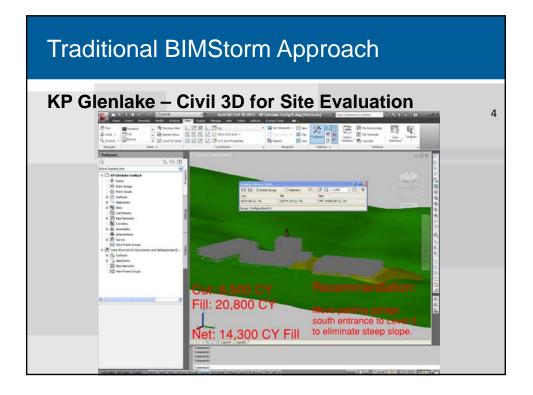






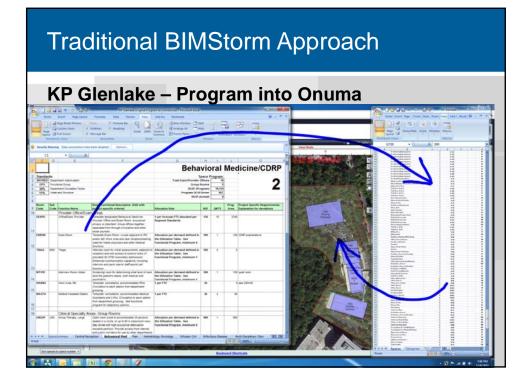


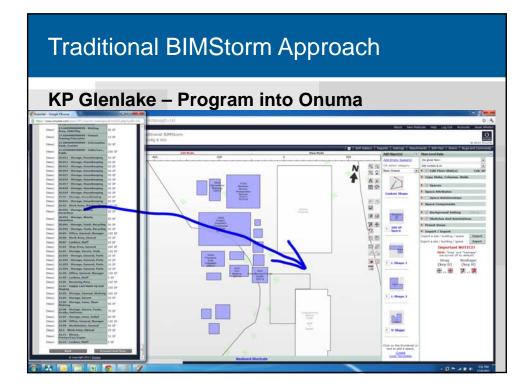


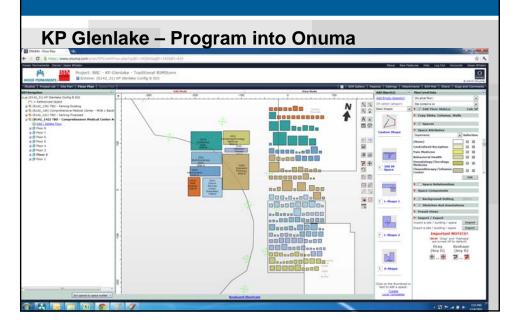


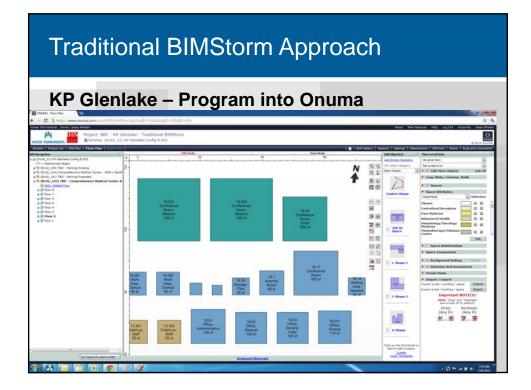
KP Glenlake – Program into Onuma 5 Balfour Beatty BIMStorm 2011 MON THURSDAY DEC. 8 DEC.5 TUESDAY D DEC. 7 Ph/ Non-Off Meeting Progress Presentation)•<= Convert to Revit for Architectural Design Model Development Engage / Obtain Basar AP Oberiak Engage Bitucharal Contractor Engage Bruchost Engineer Design • Date n Stuctural ٦ ESION -Onum MEP Consultant Design Review and Provide MEP Design Input Engage MEP Consultants Coper / He la Develop Site Model using ShatchUp Poduce Tinuture Estimate Poduce Schematic Design Extimate Protects MEP Estimate Protuce Conceptual Estimate Engage / Onversion Massing Worker Sir Energy Evaluation

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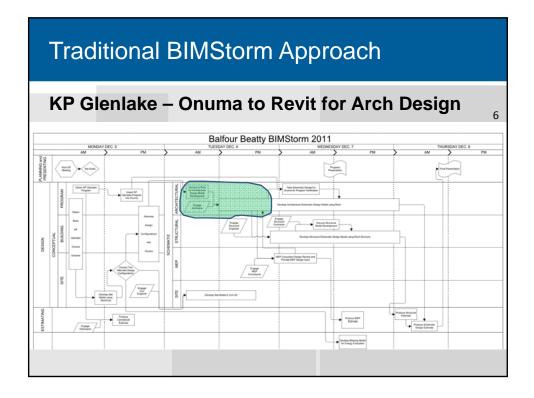


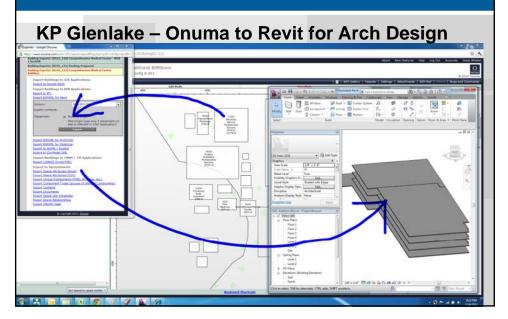






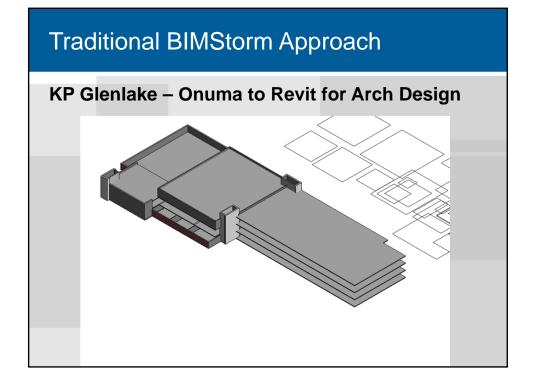
Traditional BIMStorm Approach								
Glenlake Team – Program into	Onuma							
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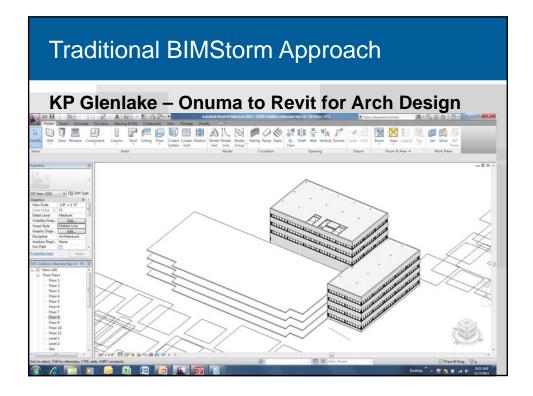




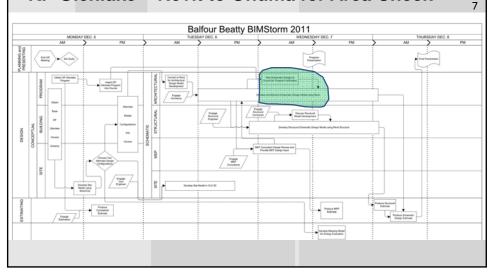
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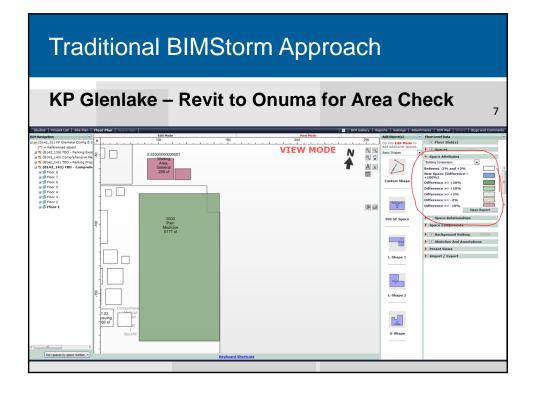




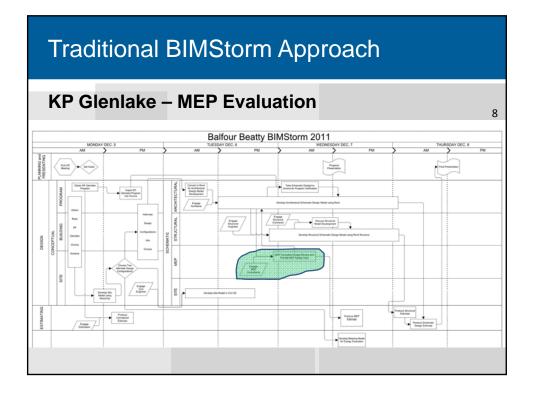


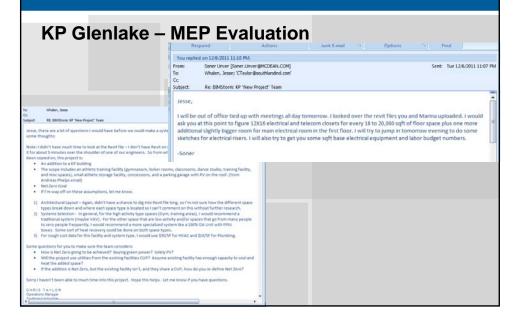
KP Glenlake – Revit to Onuma for Area Check

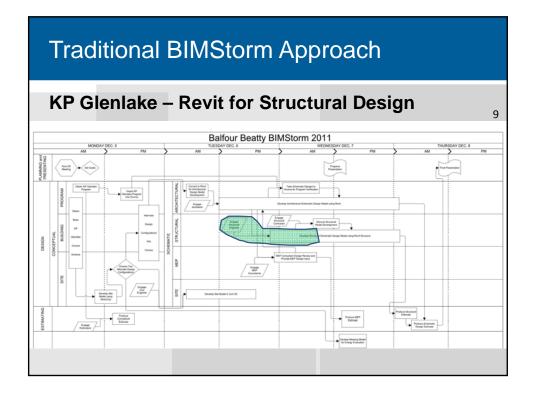


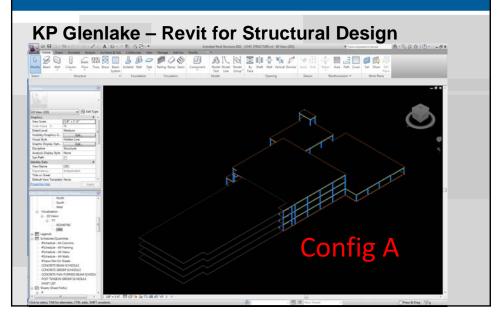


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Area Check	– Go Live	



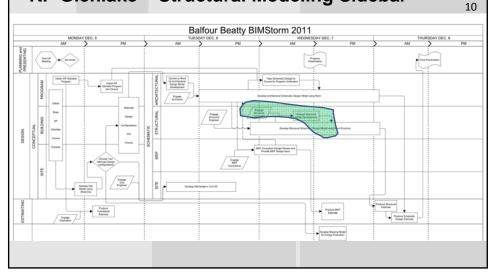


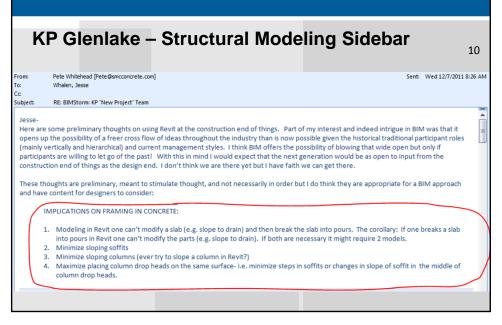






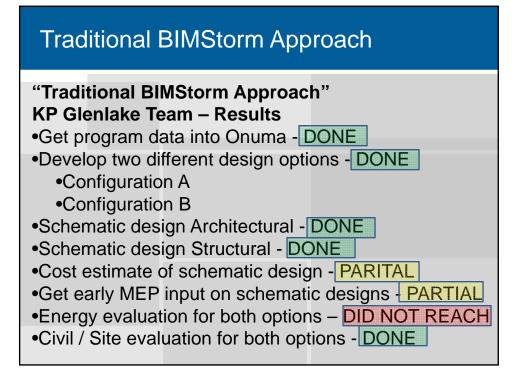
KP Glenlake – Structural Modeling Sidebar

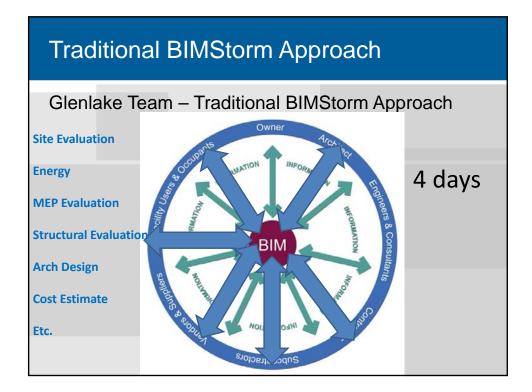




KP Glenlake – Schematic Estimate 11 Balfour Beatty BIMStorm 2011 MONG AM DEC.7 THURSDAY DEC. 8 DEC.5 TUESDAY DEC 3 Ph/ RAOF Hering Progress Presentation Convert to Revit for Architectural Design Model Development Input XP Osniana Program Andrea / Obtain Base 1/2 Atamata Design Engage Bruckeral Contractor Engage Bruchost Engineer • Date Student ٦ -ESION Onum MCP Consultant Design Review and Provide MCP Design Input Engage MEP Consultants Lange -He e Develop Site Middel using ShatchUp Produce MEP Estimate Density Massing Mobil Re Energy Evaluation Protuce Conceptual Estimate turner /

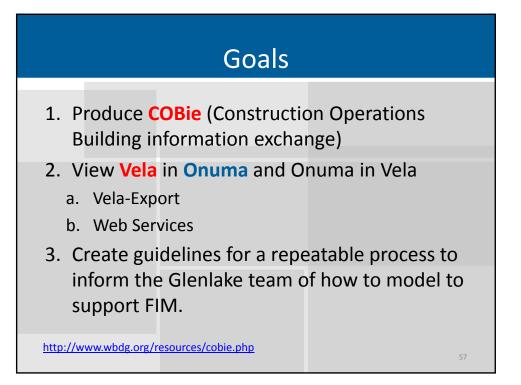
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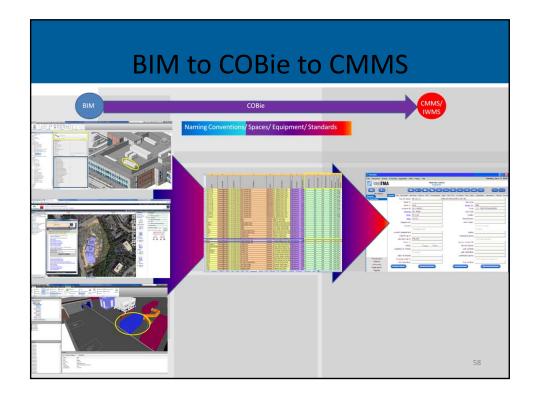


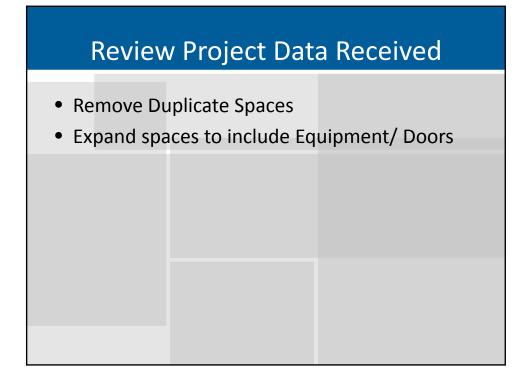


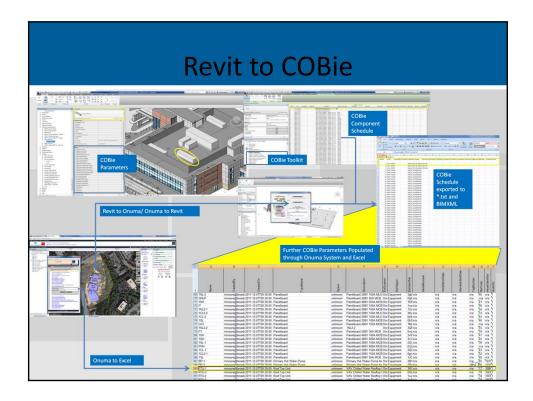
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	Team
 Kaiser Permanente Skanska Vela Onuma Broaddus and Associates Jacobs PB 	76 hrs total 16 hrs prior to BIMStorm 9 people
	Balfour Beatty

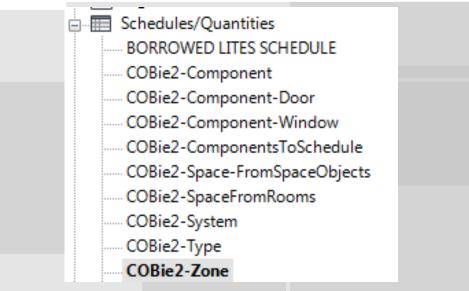












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BORROWED LITES SCHEDULE	39 PRST FL00	VECH_Supply Diffuser - Separa 24" x 24"	42016			
COBie? Component	40 PRST FL00	RECH_Exhaust Officer - Square, 12" a 12"	42018			
COBie2-Component-Door	41 PRST PL00 42 PRST FL00	REP, Soply Driver - Source 14" + 14"	40910			
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COBie2-SpaceFromRooms	46 PRST PL00	VECH_Suppy Diffuser - Square, 24" + 24"	42018			
COBie2-System	47 PRST PL00	HECH_Supply Diffuser - Square 24" x 34"	42018			
COBie2-Type	48 PIRST FL00 49 PIRST FL00	VECK_Suppy DMaker - Spare: 34" x 34" VECK_Return Register - Spare: 34" x 34"	42010 62010			
COBie2-Zone	49 PRST PL00	WCX, Return Register - Square 24" x 24" WCX, Return Register - Square 24" x 24"	0010			
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Copy of ROOM SCHEDULE	13 PRST PL00	etch_Skopy Driver - Spare 34" + 34"	4201E			
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DOOR SCHEDULE	15 PRST PL00	MCX_Suppy Driver - Square 24" e 24" MCX_Suppy Driver - Square 24" e 24"	31050			
Door Schedule - Working	17 PRST PL00	RECK_Suppy Driver - Sparry Jr + 24"	42010			
DOOR STYLE SCHEDULE	58 PRST PLOD	WECK, Supply Diffuser - Square, Diff is Diff	42910			
Door Style Schedule	- 99 PRST FL00	MECH Sough Diffuser - Source Diff + Diff	4291C			

Export Revit COBie Component Schedule as *.txt

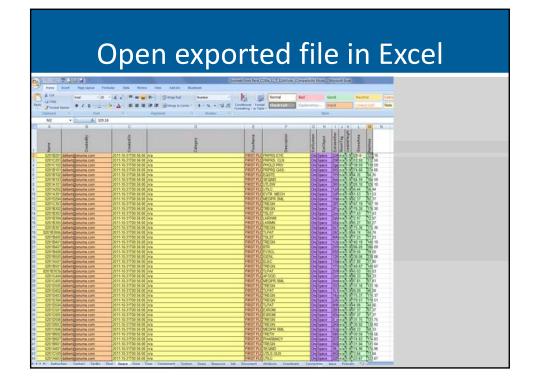
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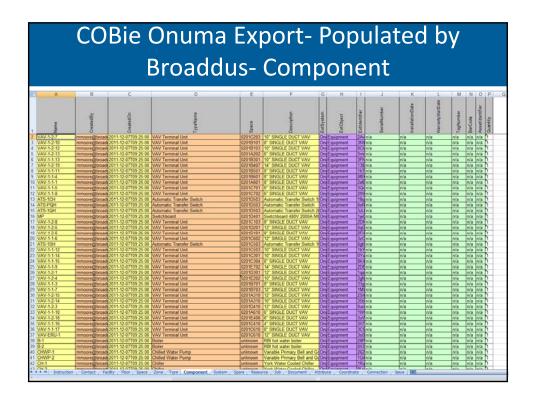
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Export Onuma Scheme (S142_11) to COBie

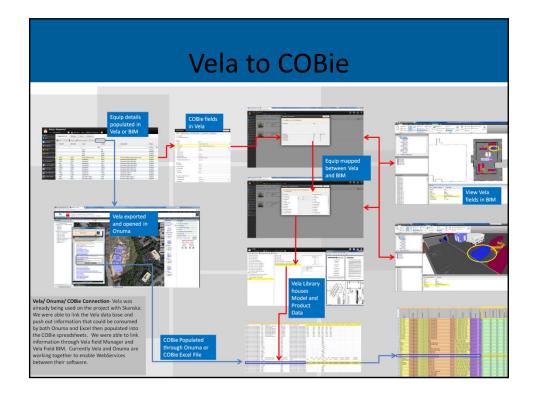


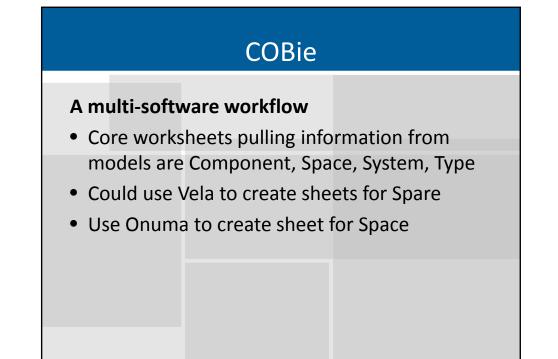


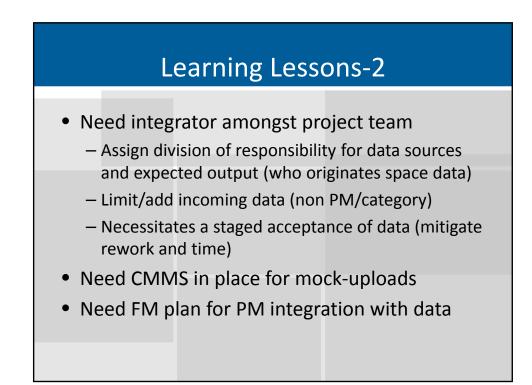


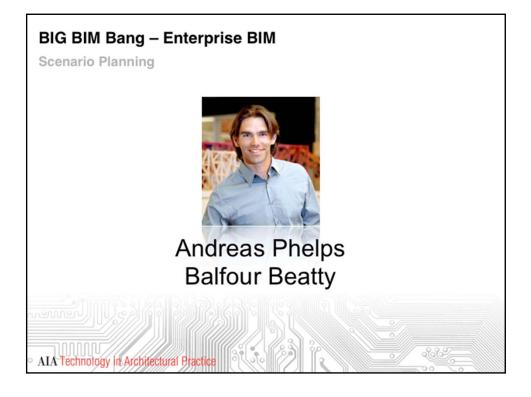
Multiple Paths/ Teams/ Schemes

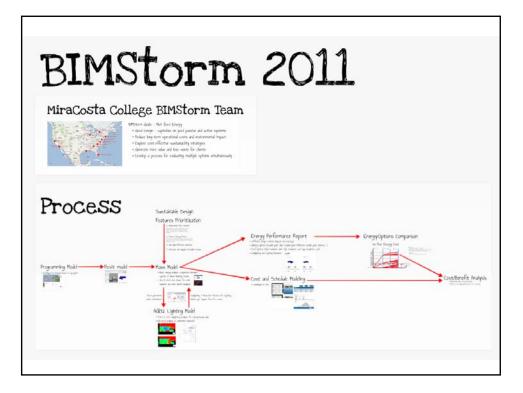
- Broaddus
 - Taking original Revit data and modifying adding COBie information through Onuma/ COBie spreadsheets
- PB/BBC
 - Modeling new Equipment/ Spaces in Revit, populating COBie Toolkit, exporting BIMXML
- Vela/ BBC
 - Creating Vela Equipment and pushing to Onuma
- Jacobs
 - Pushing model to EcoDomus and analyzing COBie



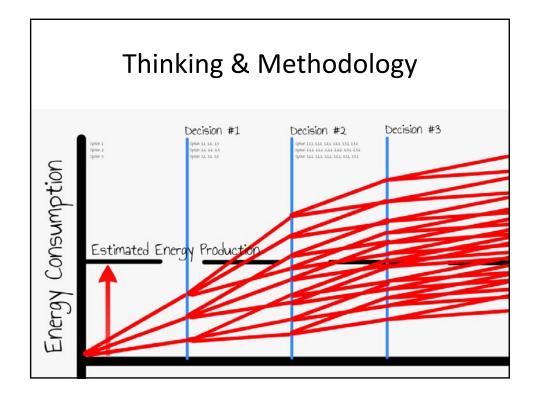




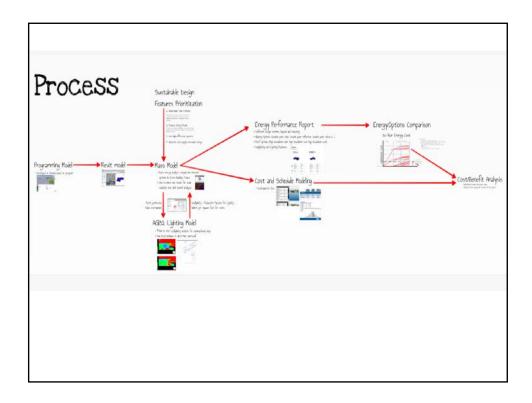


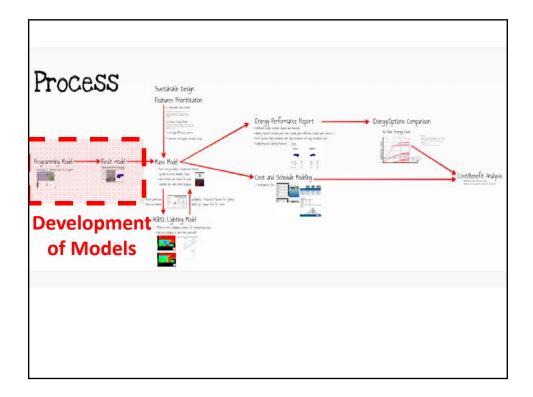


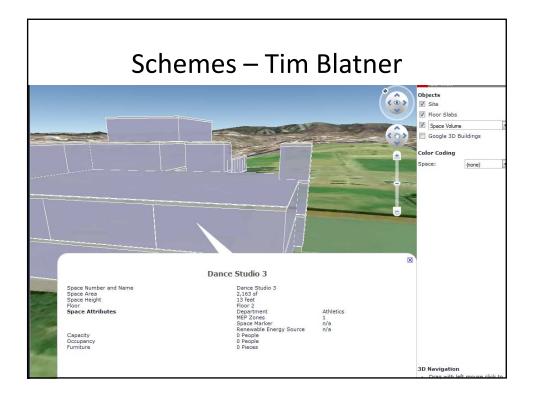


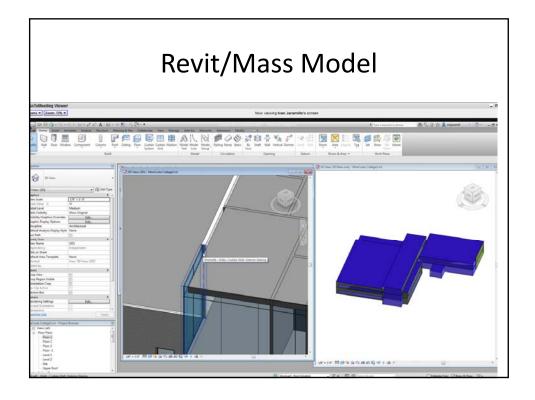


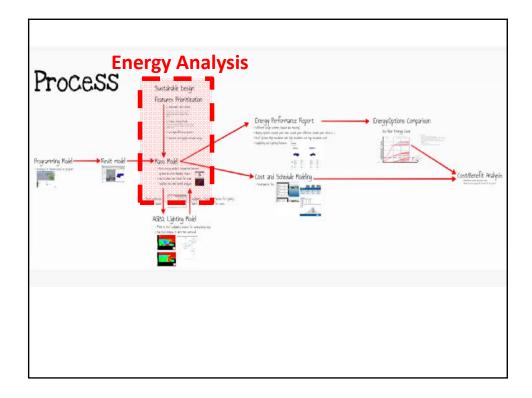


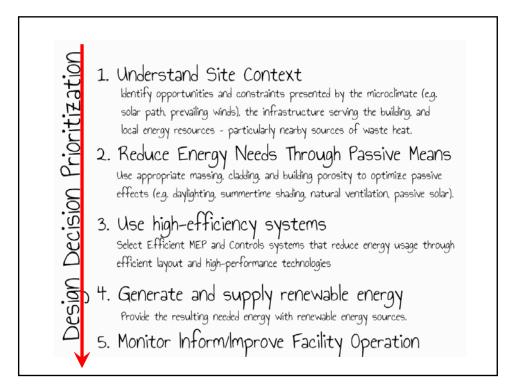


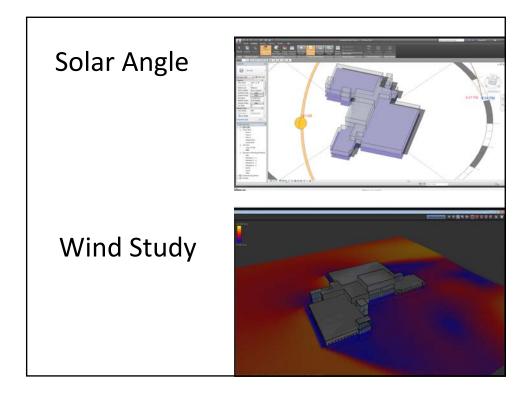


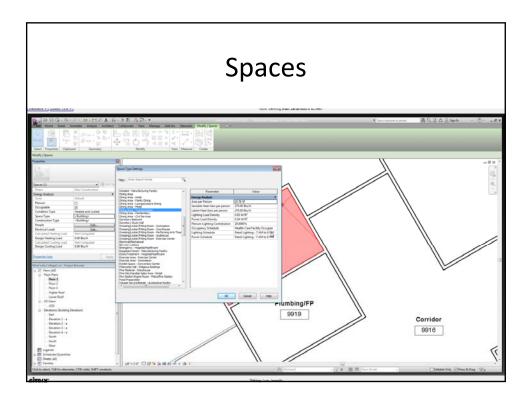


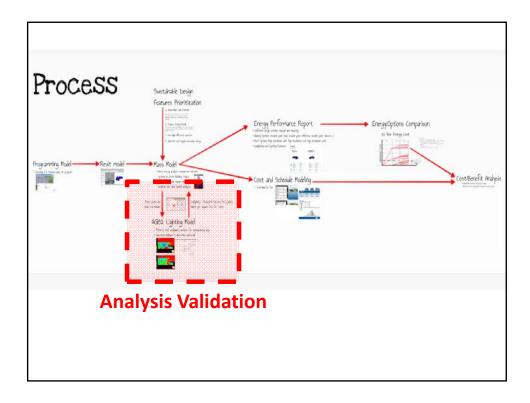


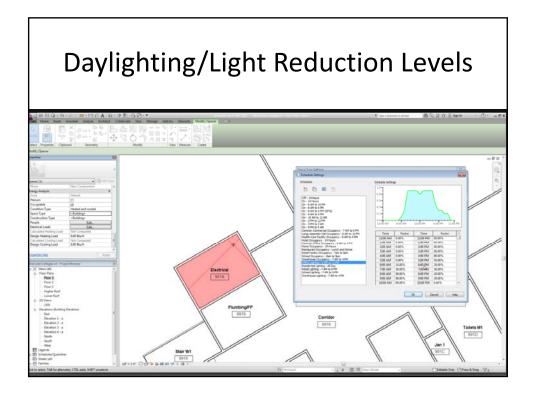


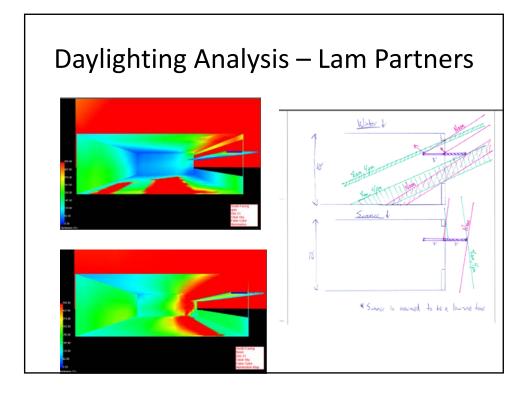


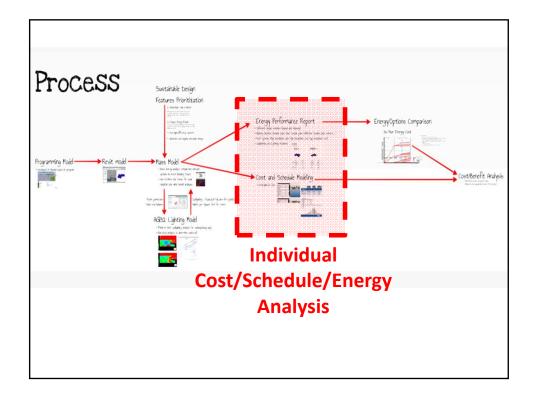




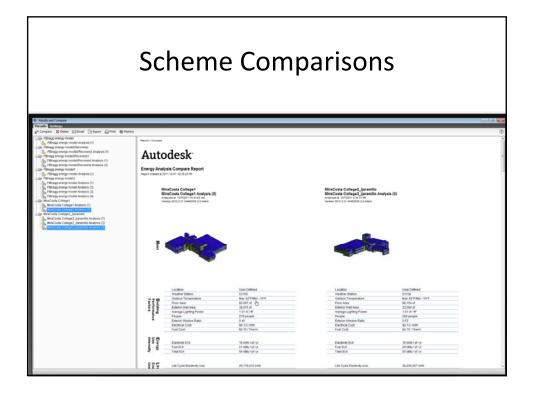






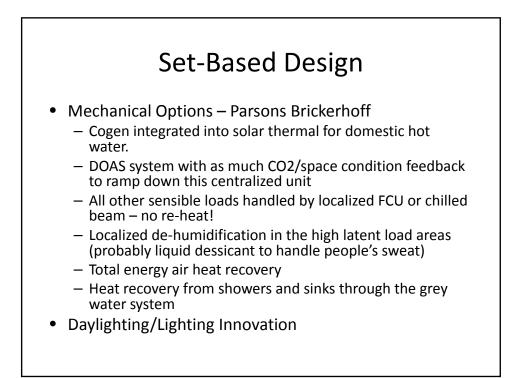


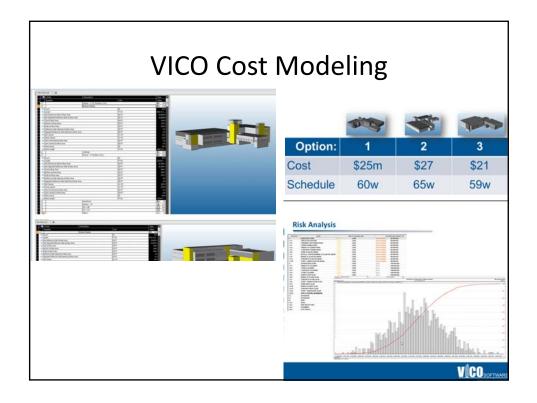
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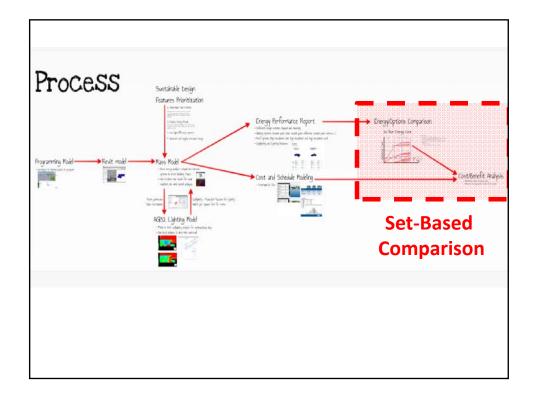


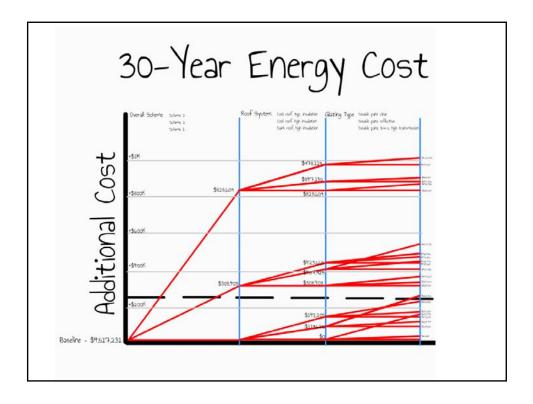
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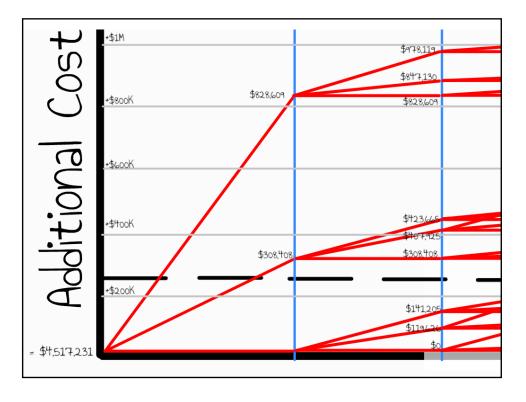
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- 3 Roofing Options
 - Standard Roof
 - Cool Roof
 - Green Roof
- 3 Types of Glazing
 - Double paned flat glass
 - Double paned reflective
 - Double paned low-e coating, High Vis Trans

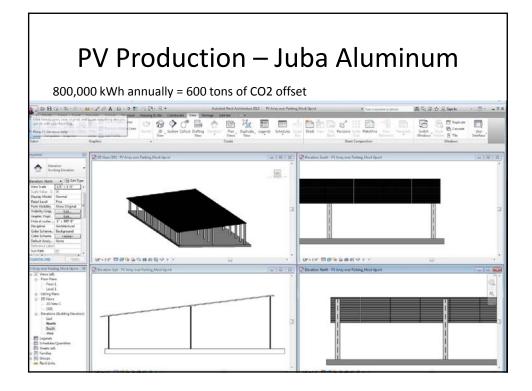


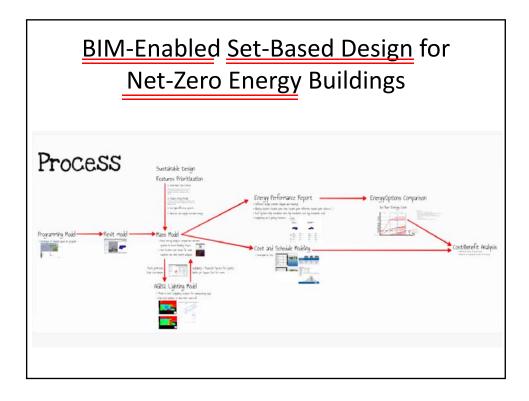












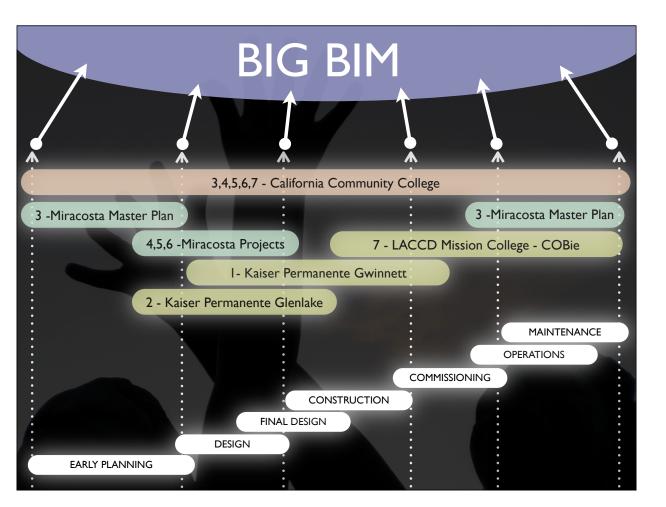
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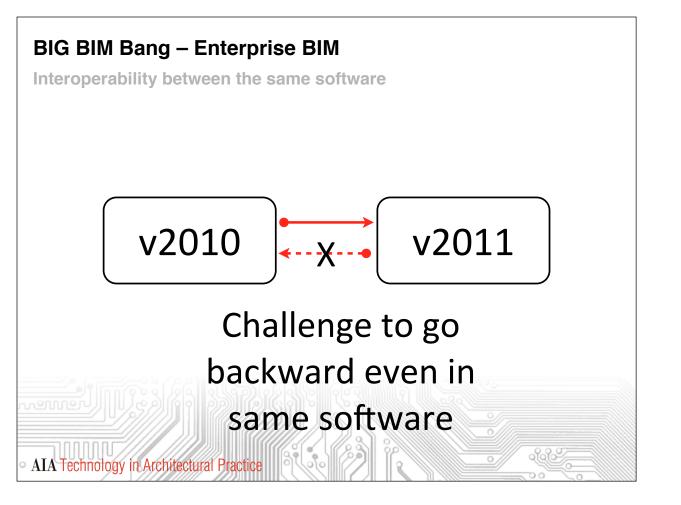
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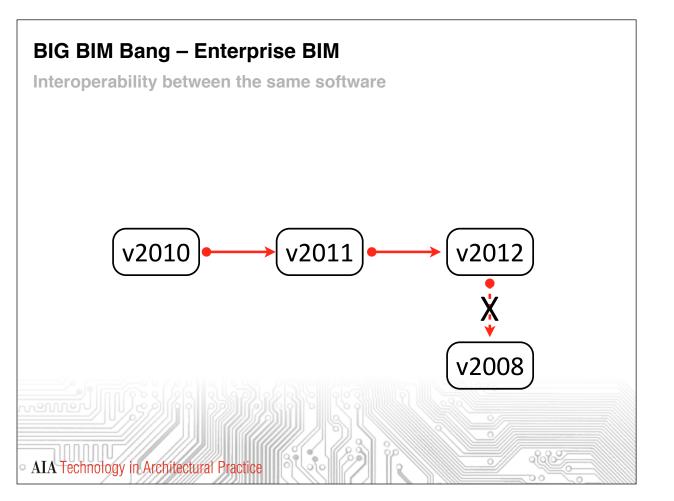
BIG BIM Bang – Enterprise BIM

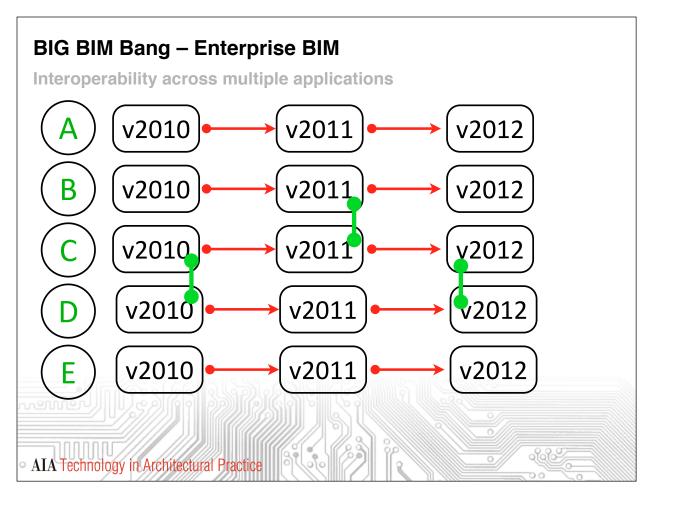
Owners' BIG BIM for the Lifecycle and Standards

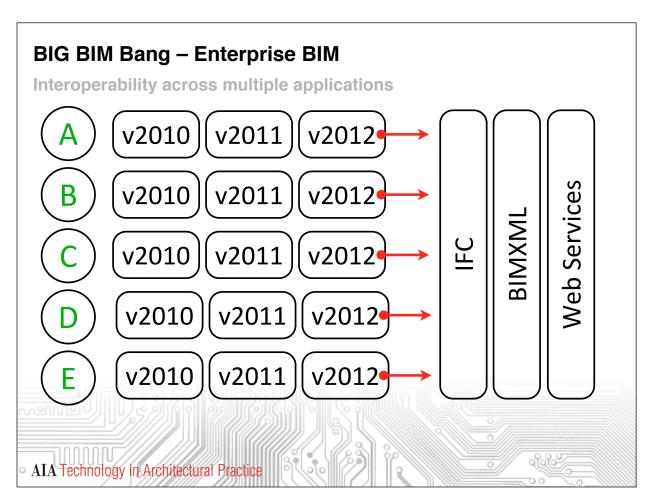


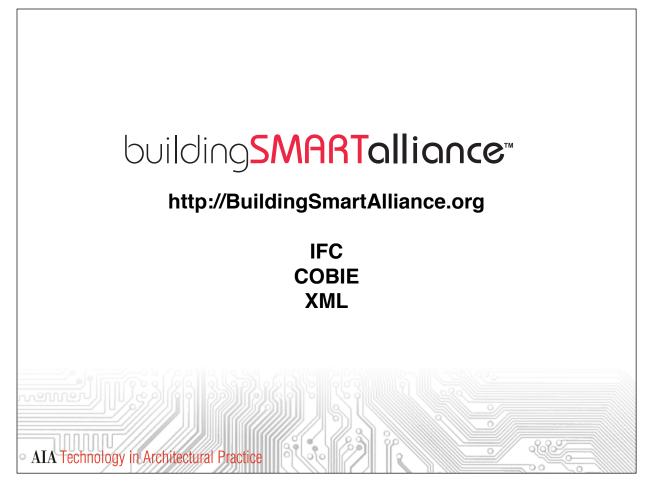


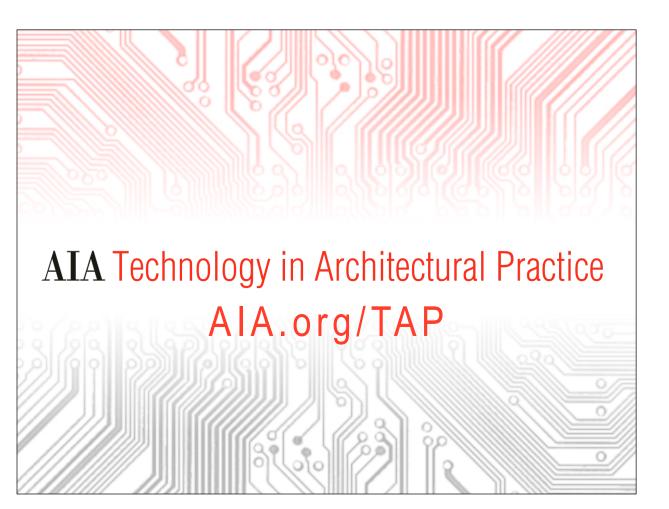


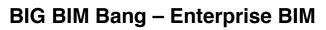














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Jesse Whalen Balfour Beatty

Questions will be answered at the end of the webinar as time allows. When able, all questions will be sent to the speakers for written response and published on the TAP website. AIA Technology in Architectural Practice

BIG BIM Bang – Enterprise BIM

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Contact Information

If you have a question about TAP programming, please feel free to contact us at: tap@aia.org

Contact with the 10,000+ members of TAP on the AIA KnowledgeNet <u>TAP Discussion Forum</u>.

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