



From CAD Monkey to BIMpanzee: The Evolution of Design Technology at BDP

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Class summary

- Learn how BDP has developed in recent years while addressing UK Government BIM requirements; a case study of a £330m project to explore progress to date.

Key learning objectives

At the end of this class, you will be able to:

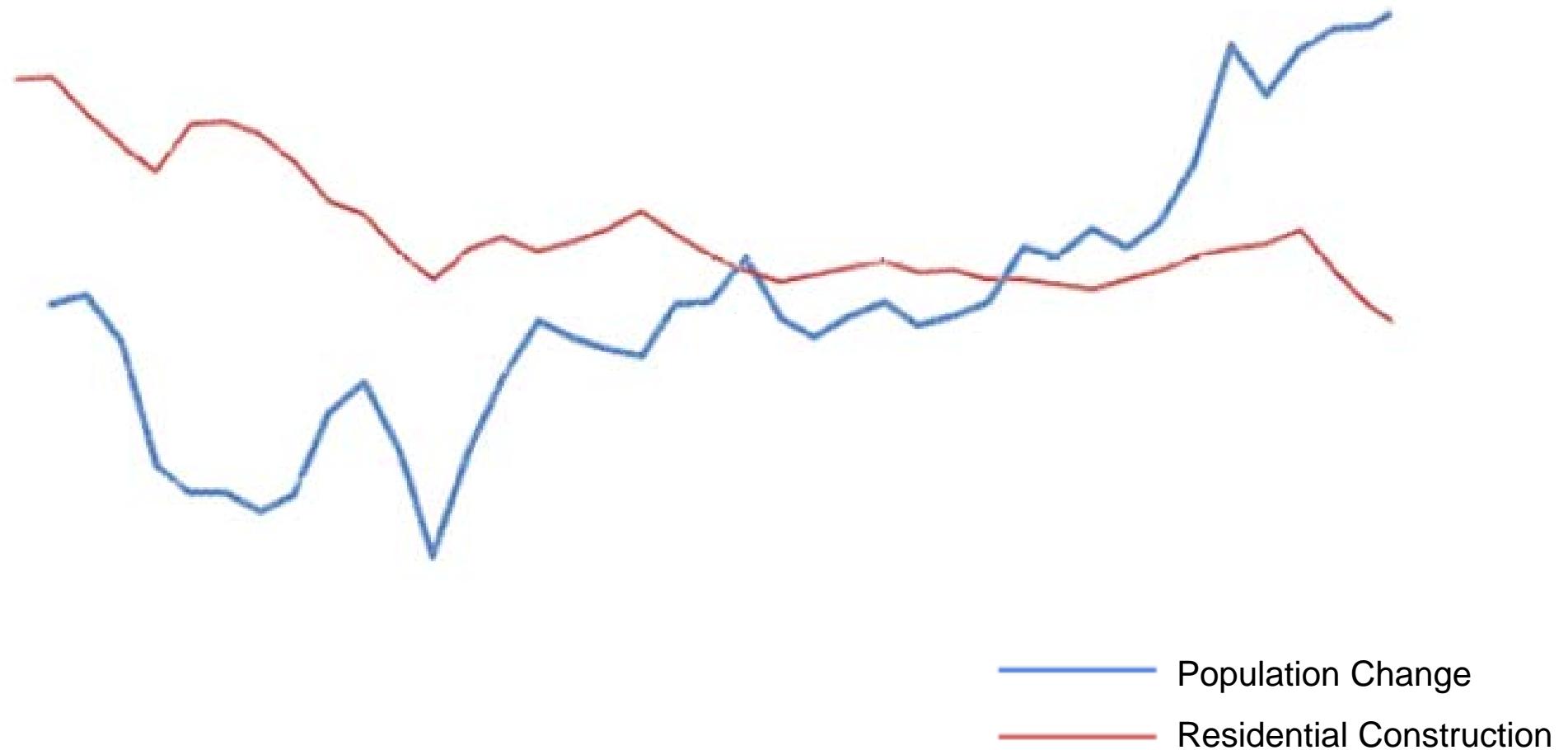
- Understand the approach of a multi-disciplinary practice to meet UK BIM 'Level 2' and the efficiencies achieved.
- Organise and manage large project teams through company standards and best practice
- Use Autodesk products as a tool for commenting and improved communication to enhance design
- Link modelled objects to external databases and see the opportunities that brings for Design, Construction and Operation



Compounding Efficiencies











Lower Costs

33%

Reduction in the initial cost of construction ands the whole life cost of built assets

Faster Delivery

50%

Reduction in overall time, from inception to overall completion, of newbuild and refurbished assets

Lower Emissions

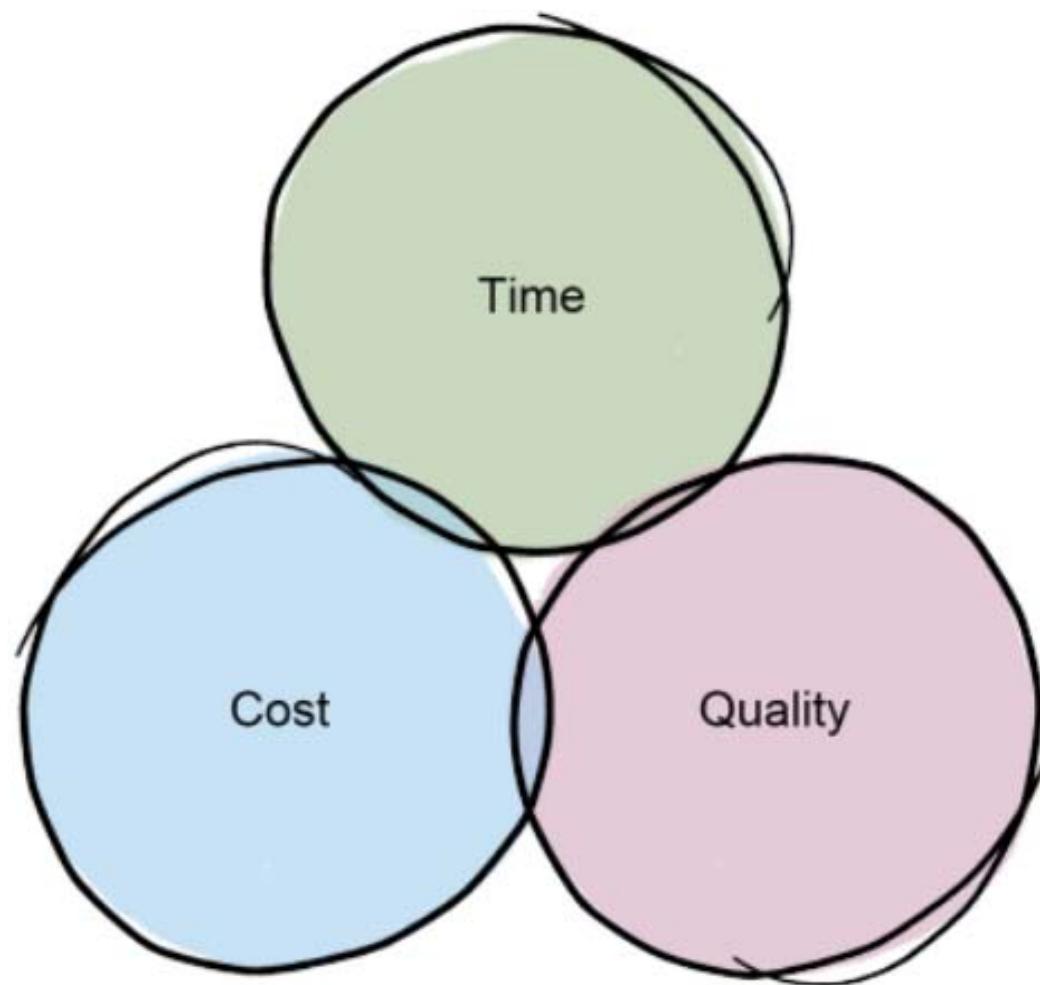
50%

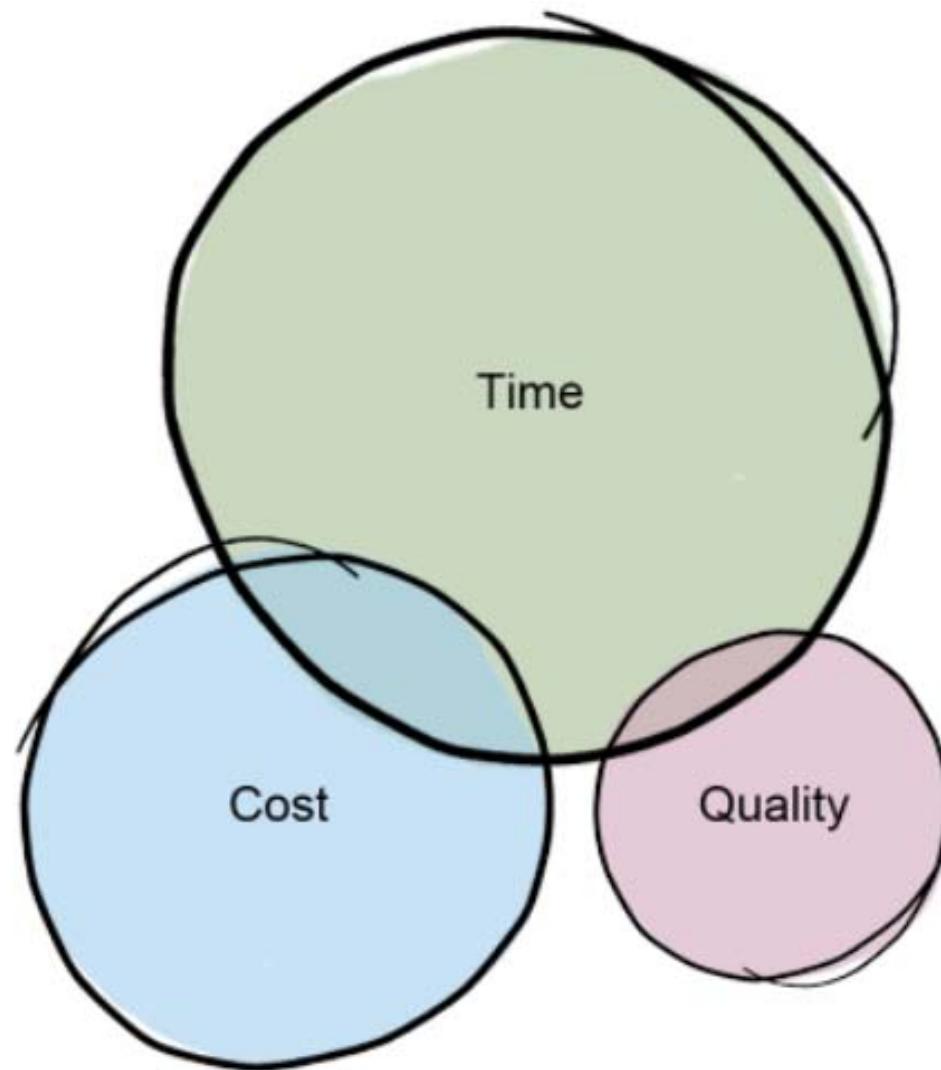
Reduction in greenhouse gas emissions in the built environment

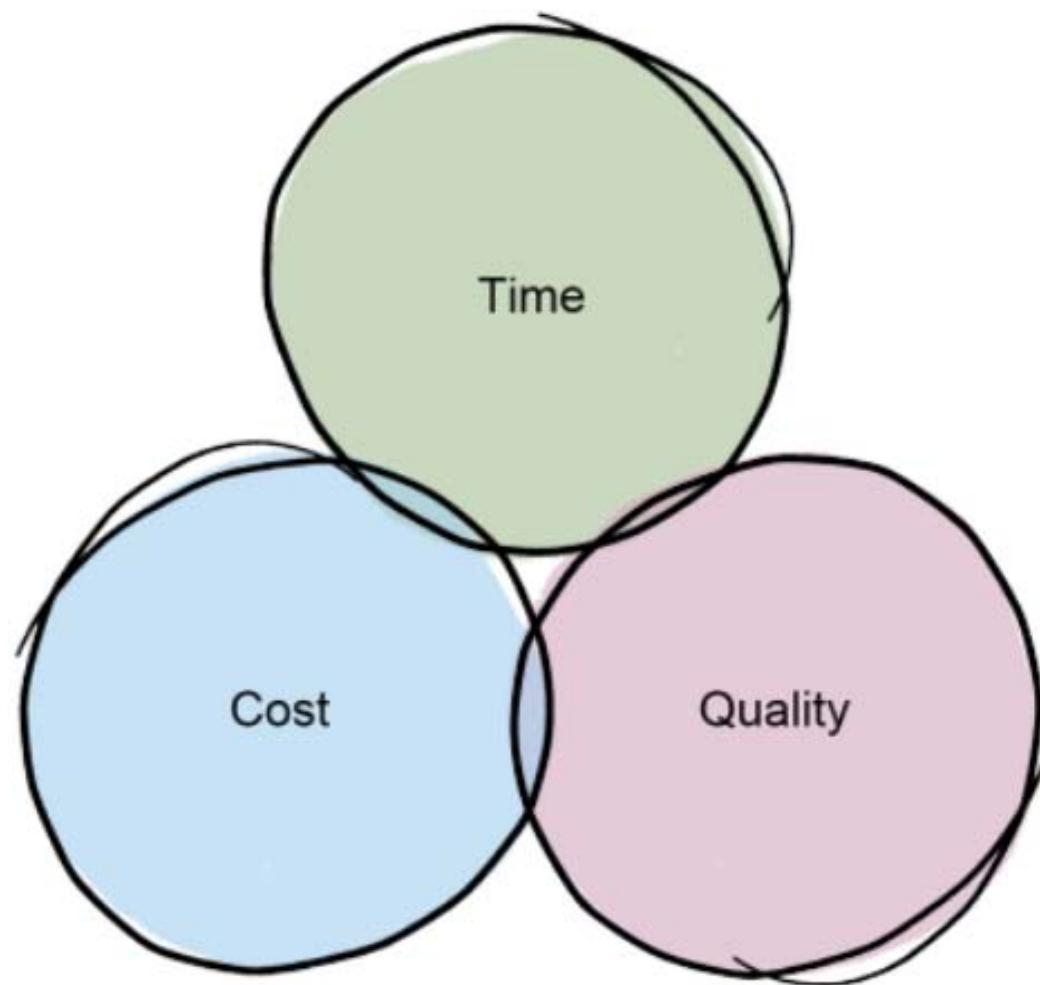
Improved Exports

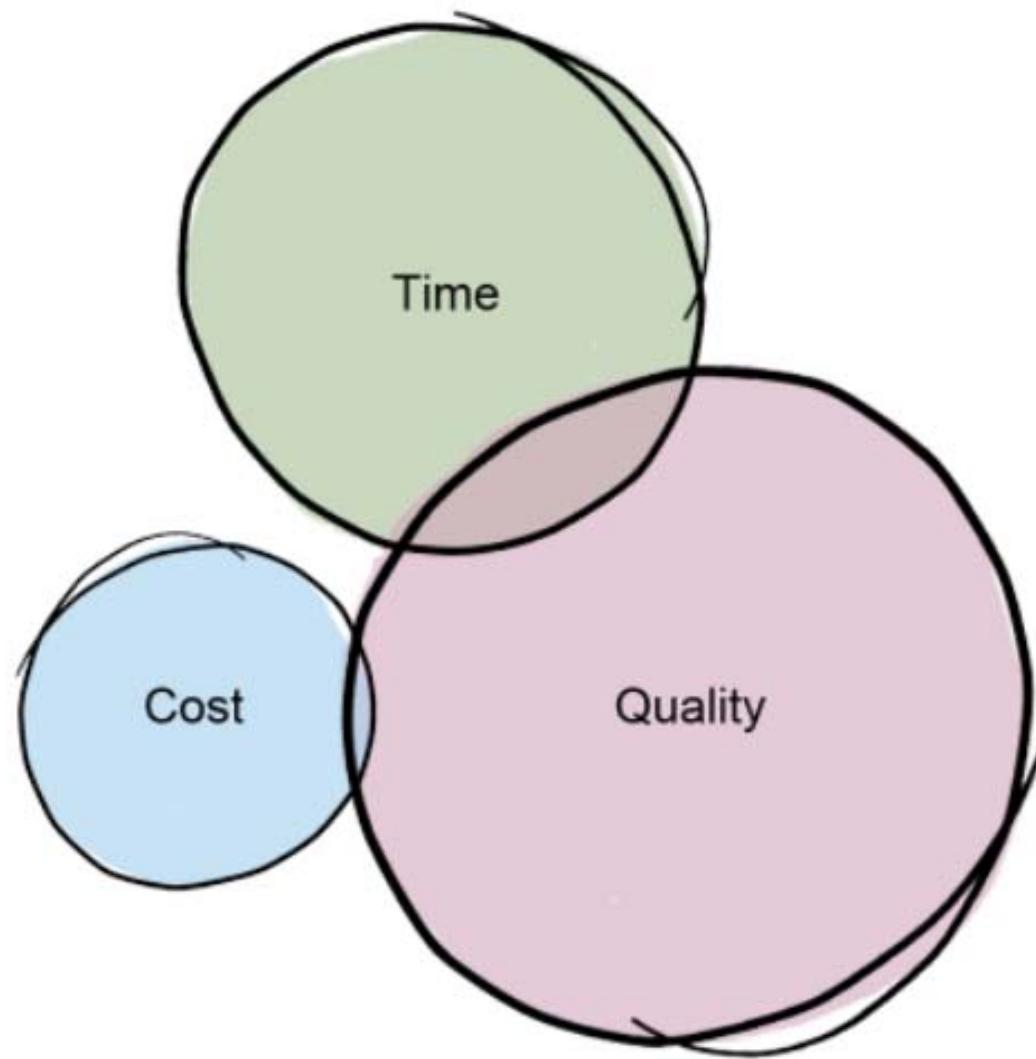
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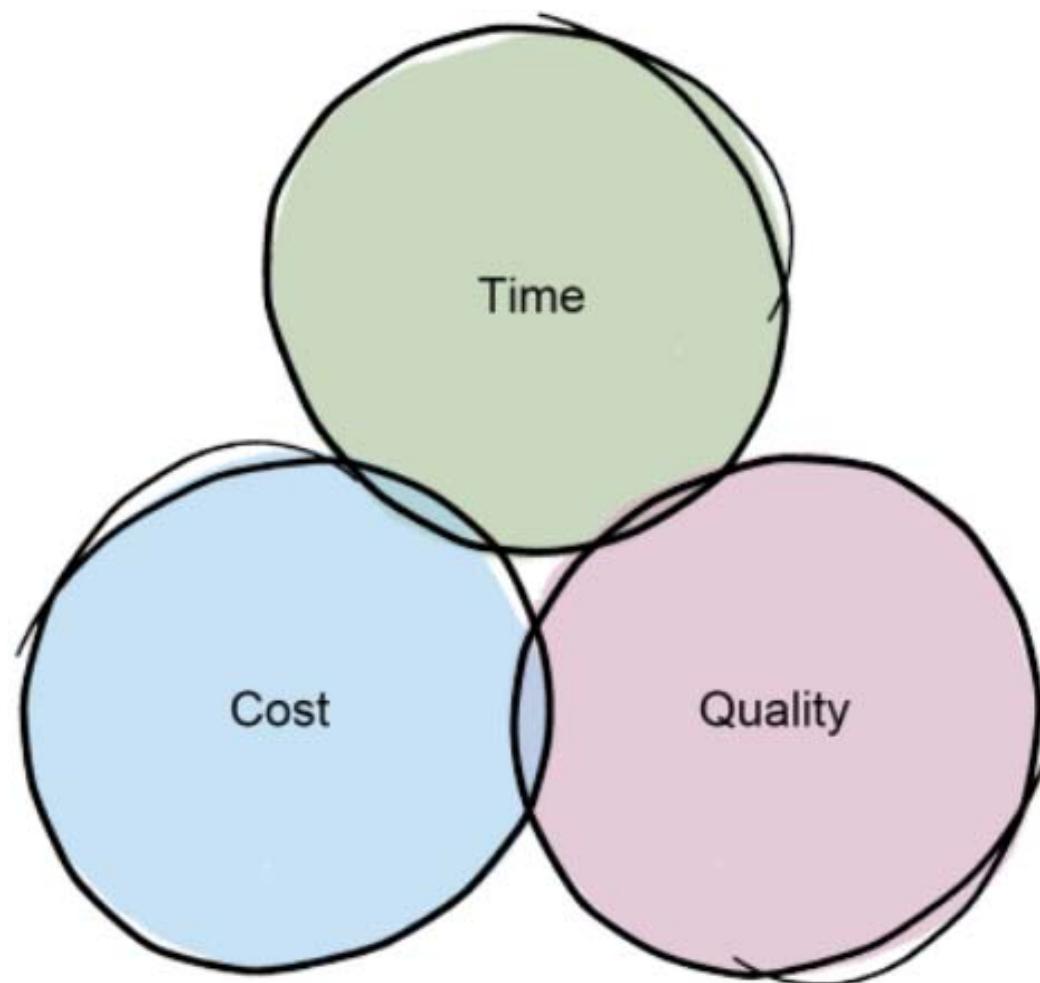
Reduction in the trade gap between total exports and total imports for construction products and materials

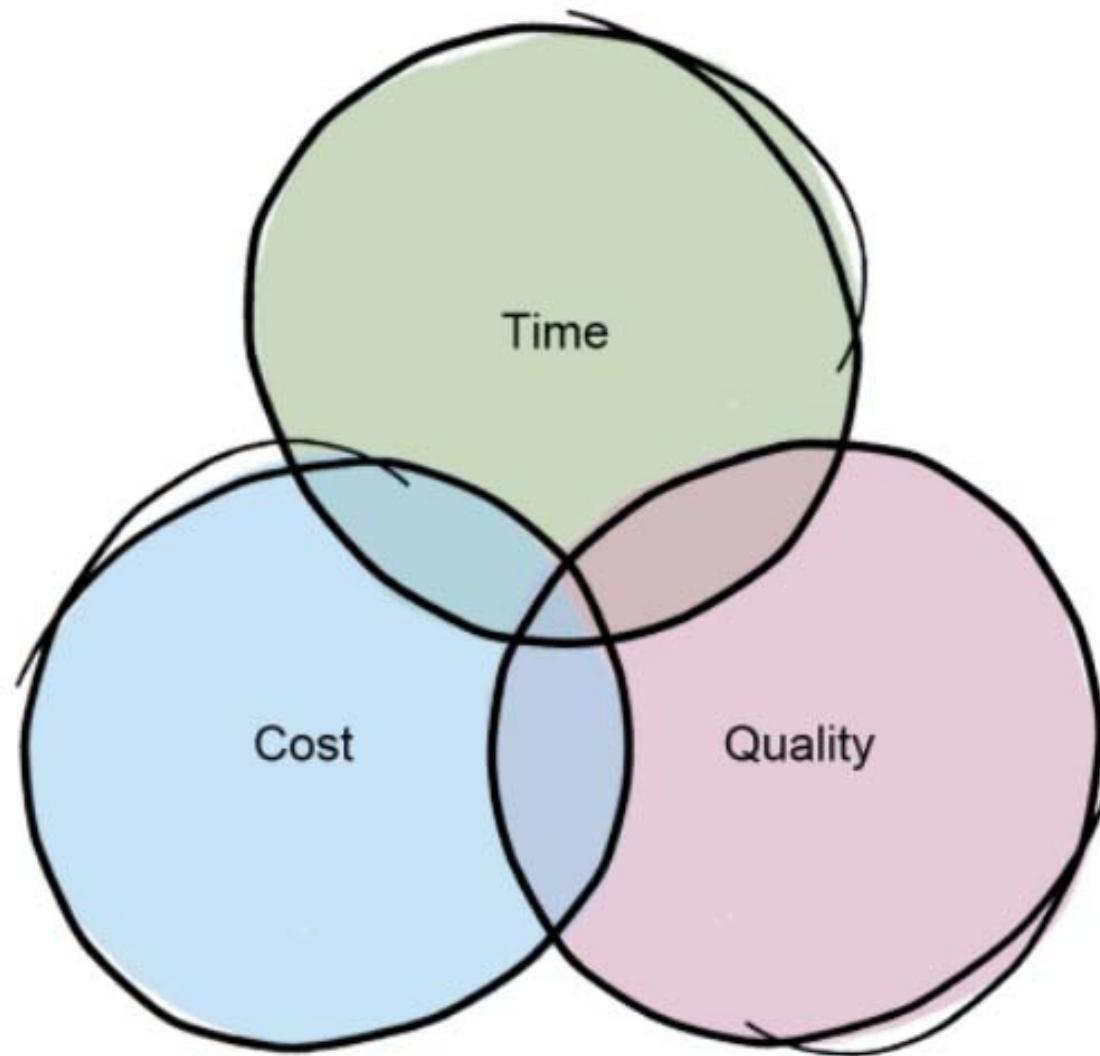












How?

1. Communication



2. Communication

From: Engineer
To: Architect
Subject: RE: MEP coordination in cores

We need a mark-up by the end of the week for review.

Please consider the environment before printing this e-mail

From: Engineer
To: Architect
Subject: RE: MEP coordination in cores

We need a mark-up by the end of the week for review.

Please consider the environment before printing this e-mail

From: Architect
To: Engineer
Subject: RE: MEP coordination in cores

Whatever your constraints are, they are putting the focus on the original scheme which is problematic and falls victim to the fallacy of retroactively projecting such origins onto the subjective and objective criteria of this time period in question. Regards

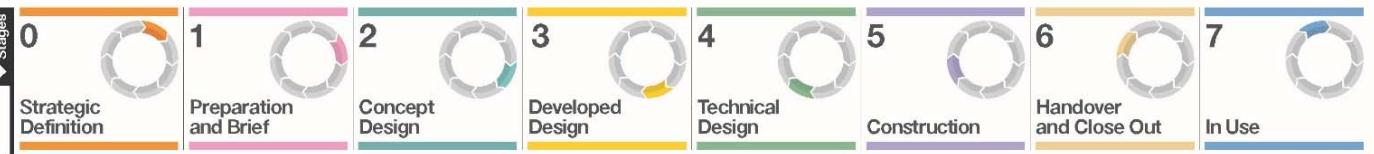
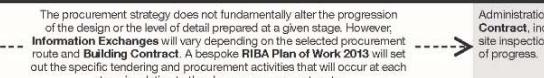
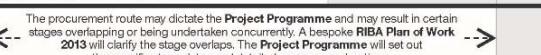
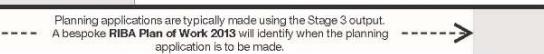
Please consider the environment before printing this e-mail

3. Communication



The RIBA Plan of Work 2013 organises the process of briefing, designing, constructing, maintaining, operating and using building projects into a number of key stages. The content of stages may vary or overlap to suit specific project requirements. The RIBA Plan of Work 2013 should be used solely as guidance for the preparation of detailed professional services contracts and building contracts.

www.ribaplanofwork.com

 <h1>RIBA Plan of Work 2013</h1>								
<p>The RIBA Plan of Work 2013 organises the process of briefing, designing, constructing, maintaining, operating and using building projects into a number of key stages. The content of stages may vary or overlap to suit specific project requirements. The RIBA Plan of Work 2013 should be used solely as guidance for the preparation of detailed professional services contracts and building contracts.</p>								
<p>www.ribaplanofwork.com</p>								
<p>Stages</p> 								
Tasks	0 Strategic Definition	1 Preparation and Brief	2 Concept Design	3 Developed Design	4 Technical Design	5 Construction	6 Handover and Close Out	7 In Use
Core Objectives	Identify client's Business Case and Strategic Brief and other core project requirements.	Develop Project Objectives , including Quality Objectives and Project Outcomes, Sustainability Aspirations, Project Budget , other parameters or constraints and develop Initial Project Brief . Undertake Feasibility Studies and review of Site Information .	Prepare Concept Design , including outline proposals for structural design, building services systems, outline specifications and preliminary Cost Information along with Project Strategies in accordance with Design Programme . Agree alterations to brief and issue Final Project Brief .	Prepare Developed Design , including coordinated and updated proposals for structural design, building services systems, outline specifications, Cost Information and Project Strategies in accordance with Design Programme .	Prepare Technical Design in accordance with Design Responsibility Matrix and Project Strategies to include all architectural, structural and building services information, specialist subcontractor design and specifications, in accordance with Design Programme .	Offsite manufacturing and onsite Construction in accordance with Construction Programme and resolution of Design Queries from site as they arise.	Handover of building and conclusion of Building Contract .	Undertake In Use services in accordance with Schedule of Services .
Procurement *Variable task bar	Initial considerations for assembling the project team.	Prepare Project Roles Table and Contractual Tree and continue assembling the project team.				Administration of Building Contract , including regular site inspections and review of progress.	Conclude administration of Building Contract .	
Programme *Variable task bar	Establish Project Programme .	Review Project Programme .	Review Project Programme .					
(Town) Planning *Variable task bar	Pre-application discussions.	Pre-application discussions.						
Suggested Key Support Tasks	Review Feedback from previous projects.	Prepare Handover Strategy and Risk Assessments . Agree Schedule of Services, Despatchability, Quality Management Information Exchanges and prepare Project Execution Plan including Technology and Communication Strategies and consideration of Common Standards to be used.	Prepare Sustainability Strategy, Maintenance and Operational Strategy and review Handover Strategy and Risk Assessments . Undertake third party consultations as required and any Research and Development aspects. Review and update Project Execution Plan . Consider Construction Strategy , including offsite fabrication, and develop Health and Safety Strategy .	Review and update Sustainability, Maintenance and Operational and Handover Strategies and Risk Assessments . Undertake third party consultations as required and conclude Research and Development aspects. Review and update Project Execution Plan , including Change Control Procedures . Review and update Construction and Health and Safety Strategies .	Review and update Sustainability, Maintenance and Operational and Handover Strategies and Risk Assessments . Prepare and submit Building Regulations submission and any other third party submissions requiring consent. Review and update Project Execution Plan . Review Construction Strategy , including sequencing, and update Health and Safety Strategy .	Review and update Sustainability Strategy and implement Handover Strategy , including agreement of information required for commissioning, training, handover, asset management, future monitoring and maintenance and ongoing compilation of 'As-constructed' Information . Update Construction and Health and Safety Strategies .	Carry out activities listed in Handover Strategy including Feedback for use during the future life of the building or on future projects. Updating of Project Information as required.	Conclude in Handover Strategy including Evaluation, Performance Outcomes and Delivery . Update Information, reports and Feedback building.
Sustainability Checkpoints	Sustainability Checkpoint – 0	Sustainability Checkpoint – 1	Sustainability Checkpoint – 2	Sustainability Checkpoint – 3	Sustainability Checkpoint – 4	Sustainability Checkpoint – 5	Sustainability Checkpoint – 6	Sustainability Checkpoint – 7
Information Exchanges (at stage completion)	Strategic Brief.	Initial Project Brief.	Concept Design including outline structural and building services design, associated Project Strategies , preliminary Cost Information and Final Project Brief .	Developed Design, including the coordinated architectural, structural and building services design and updated Cost Information .	Completed Technical Design of the project.	'As-constructed' Information .	Updated 'As-constructed' Information .	'As-constructed' Information in response to client Maintenance and Development requests.
UK Government Information Exchanges	Not required.	Required.	Required.	Required.	Not required.	Not required.	Required.	As required.



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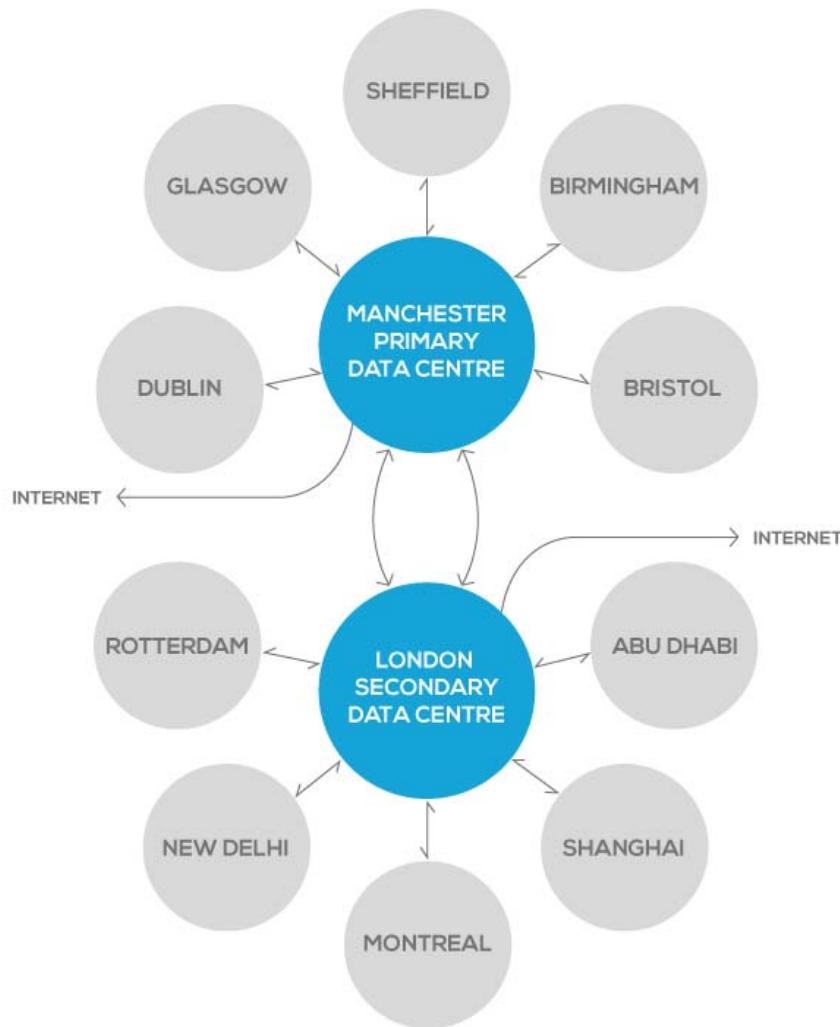
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Collaborative Working Environments

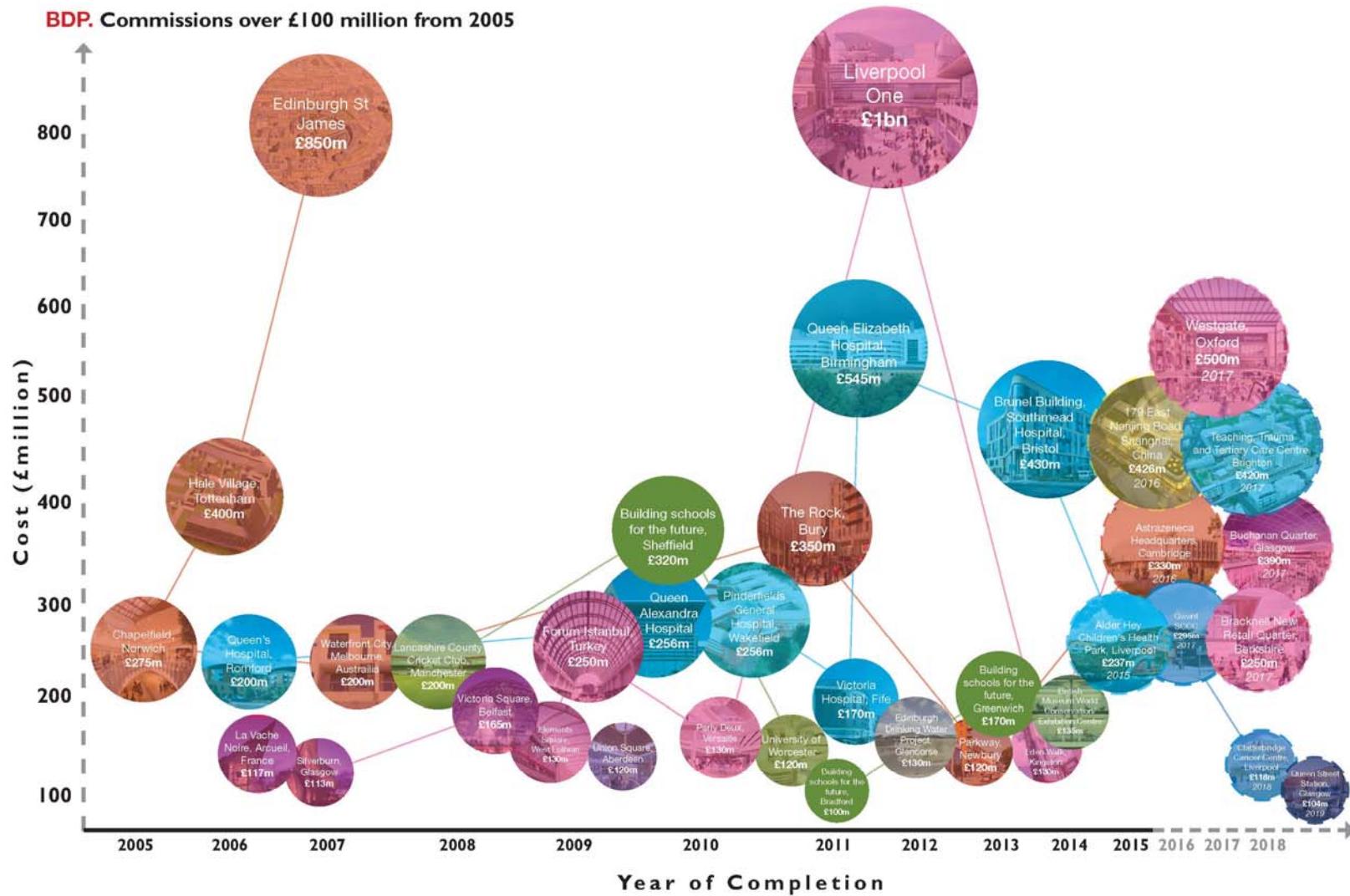








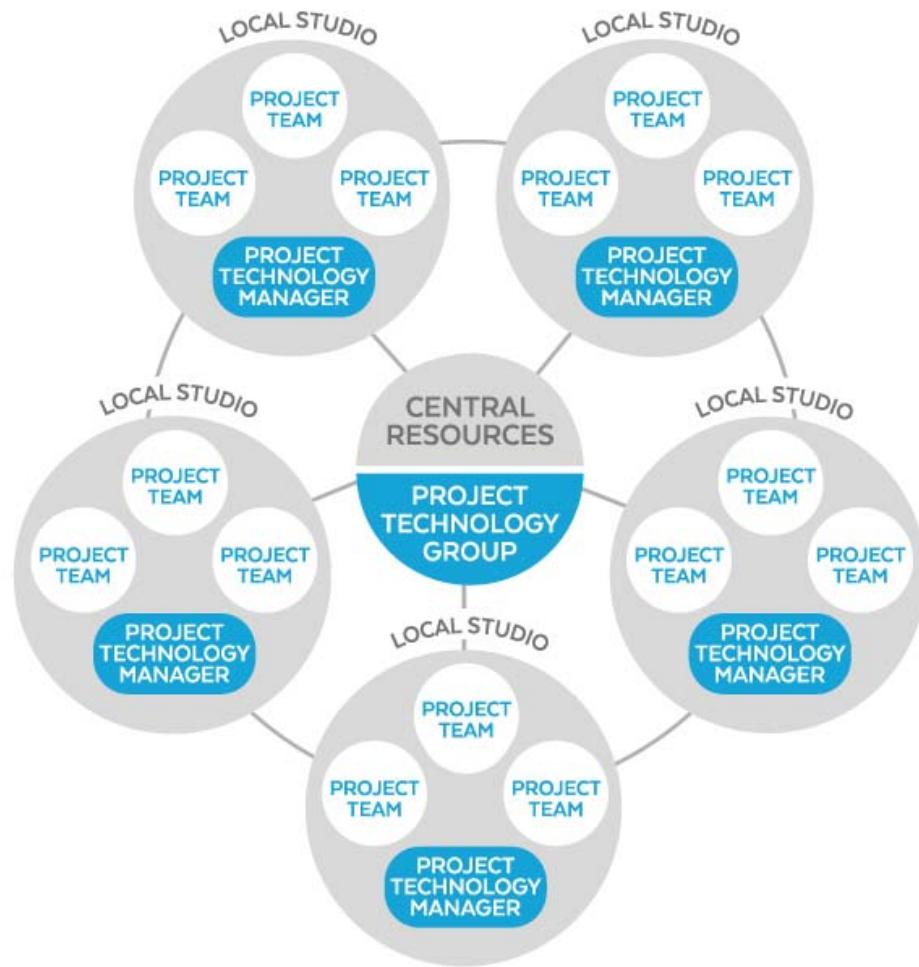
BDP. Commissions over £100 million from 2005





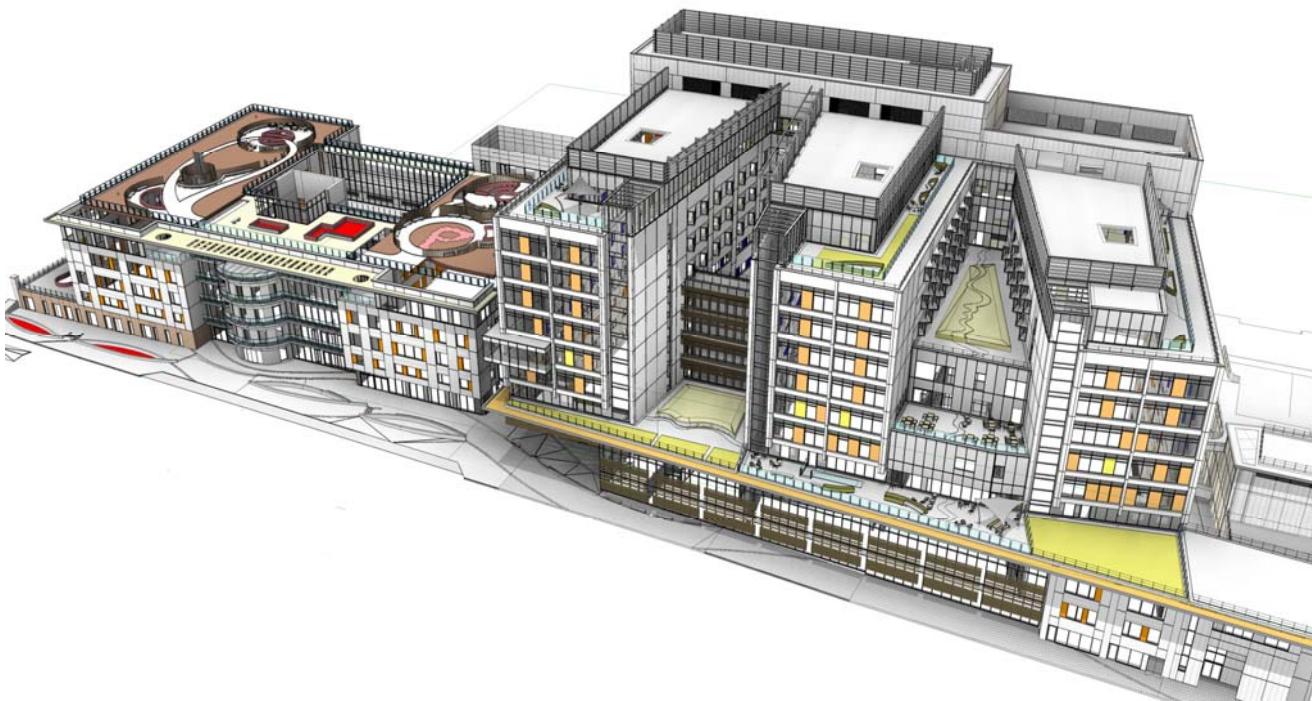
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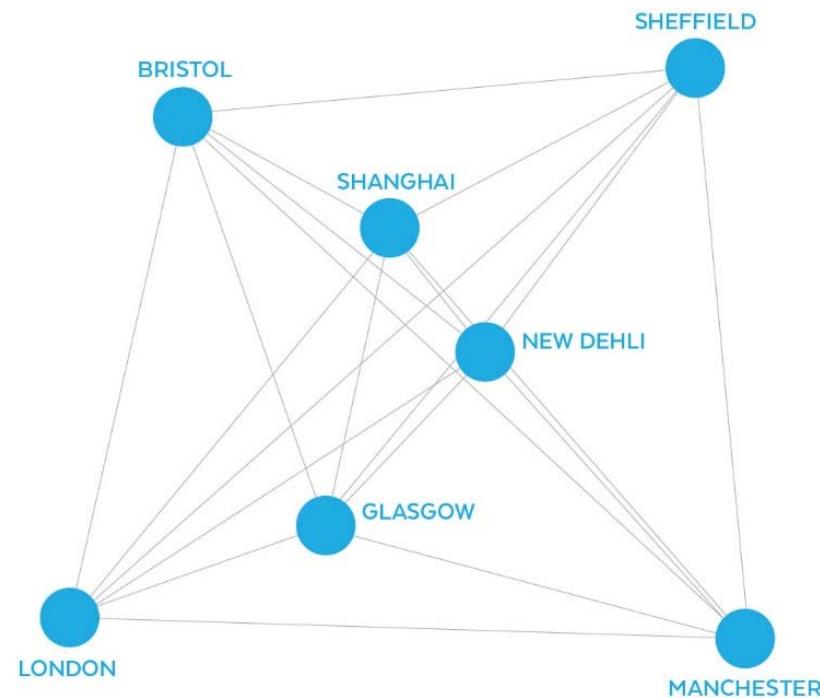
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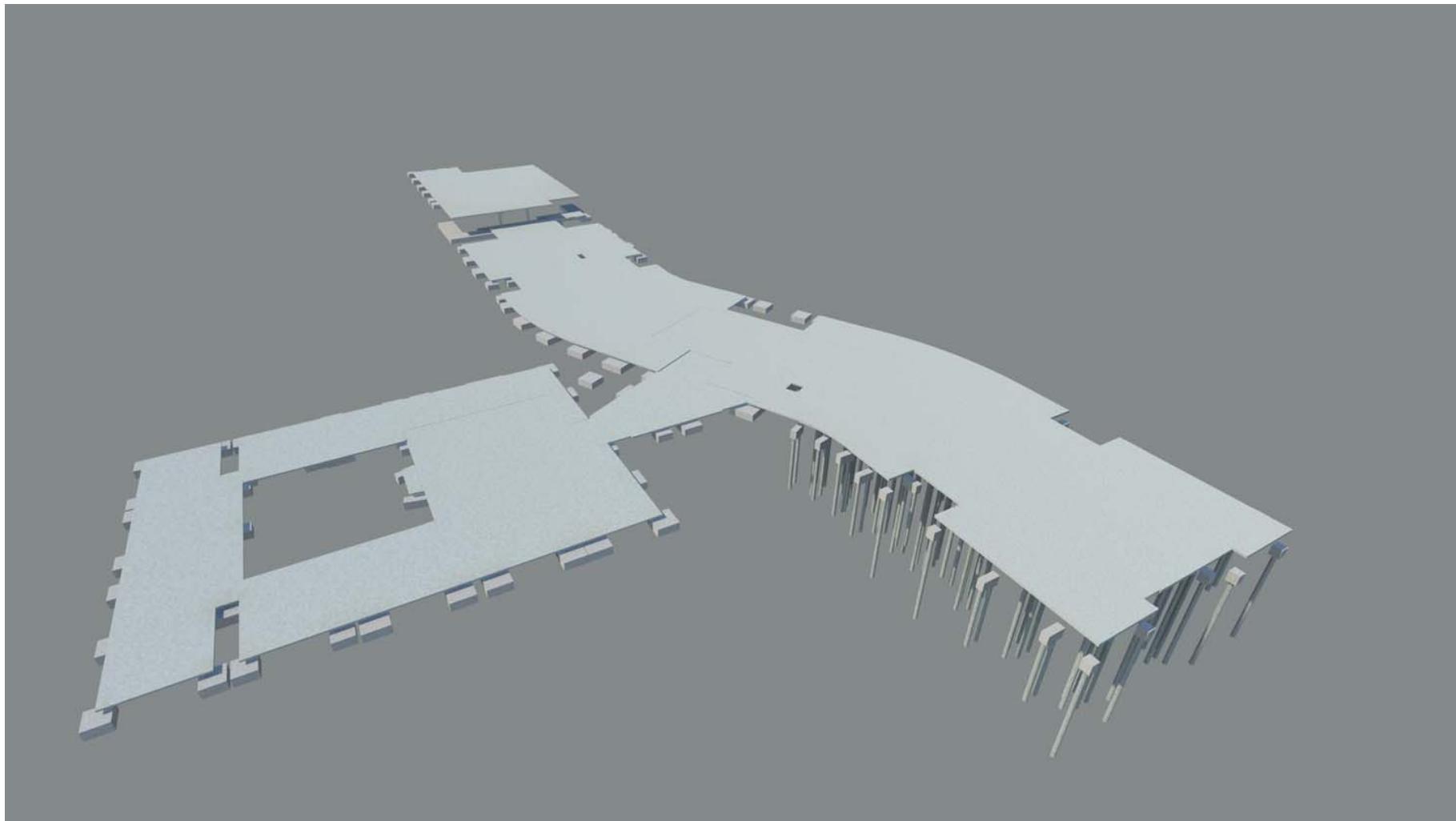


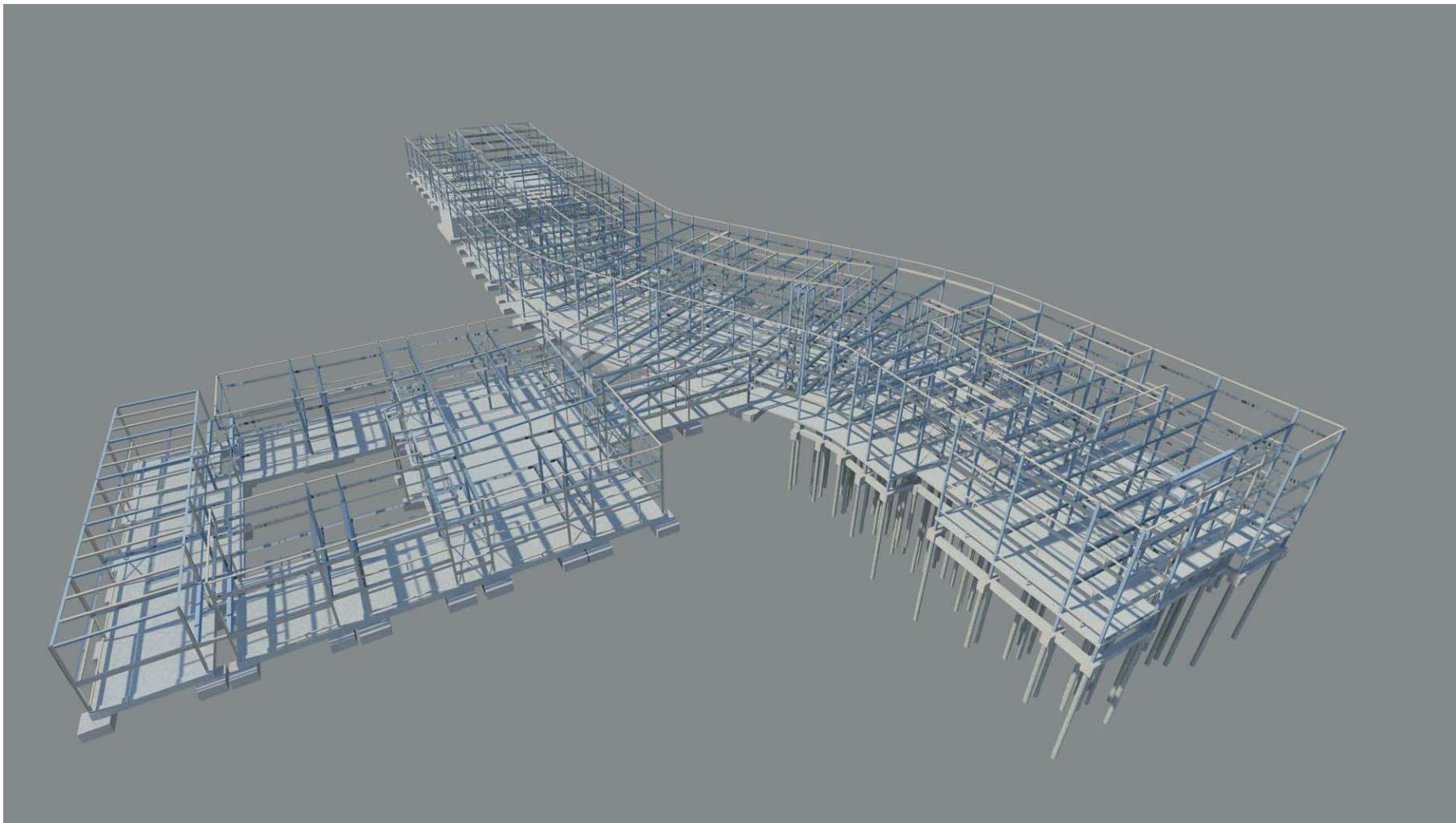


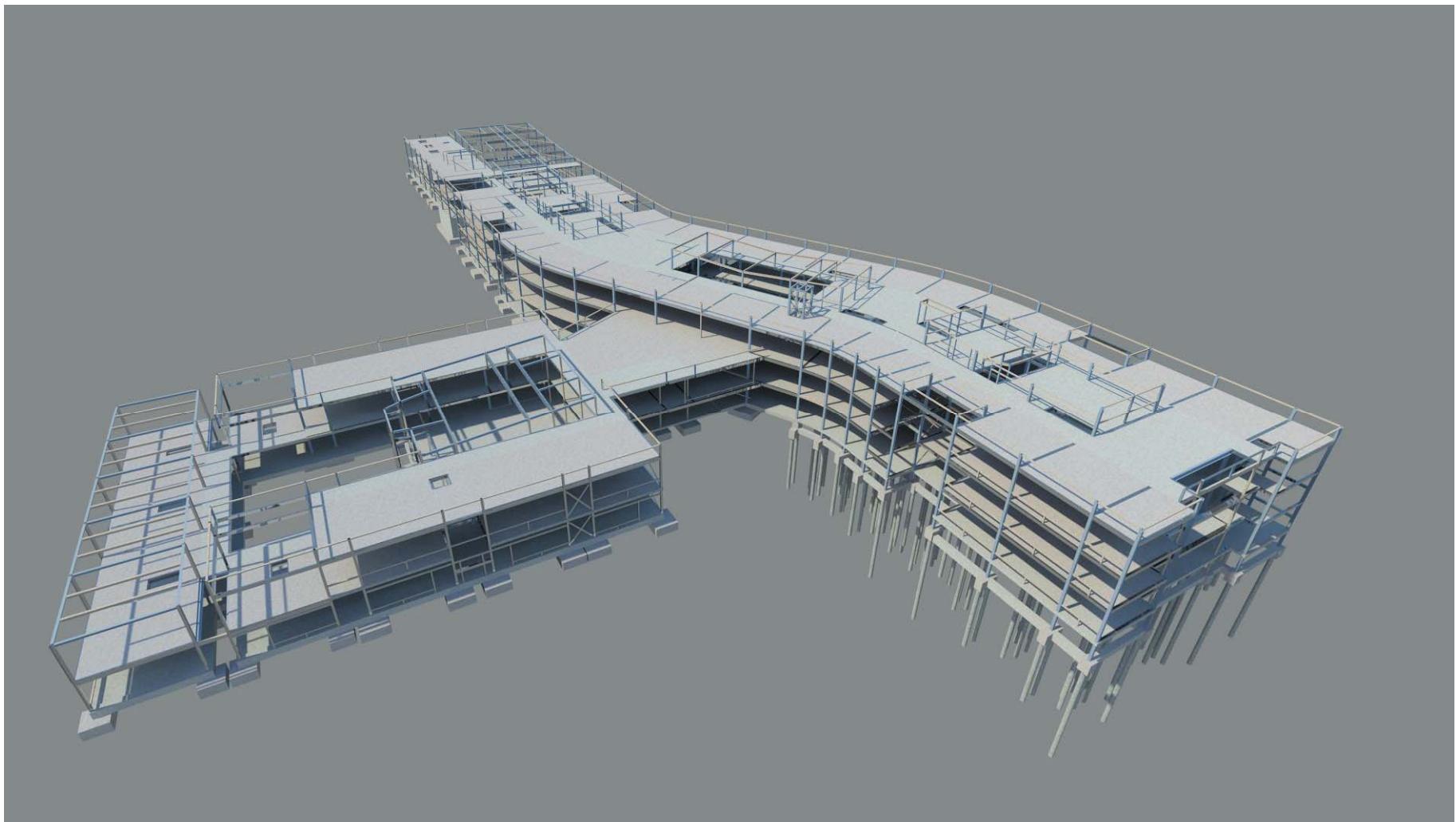
Starting Small...

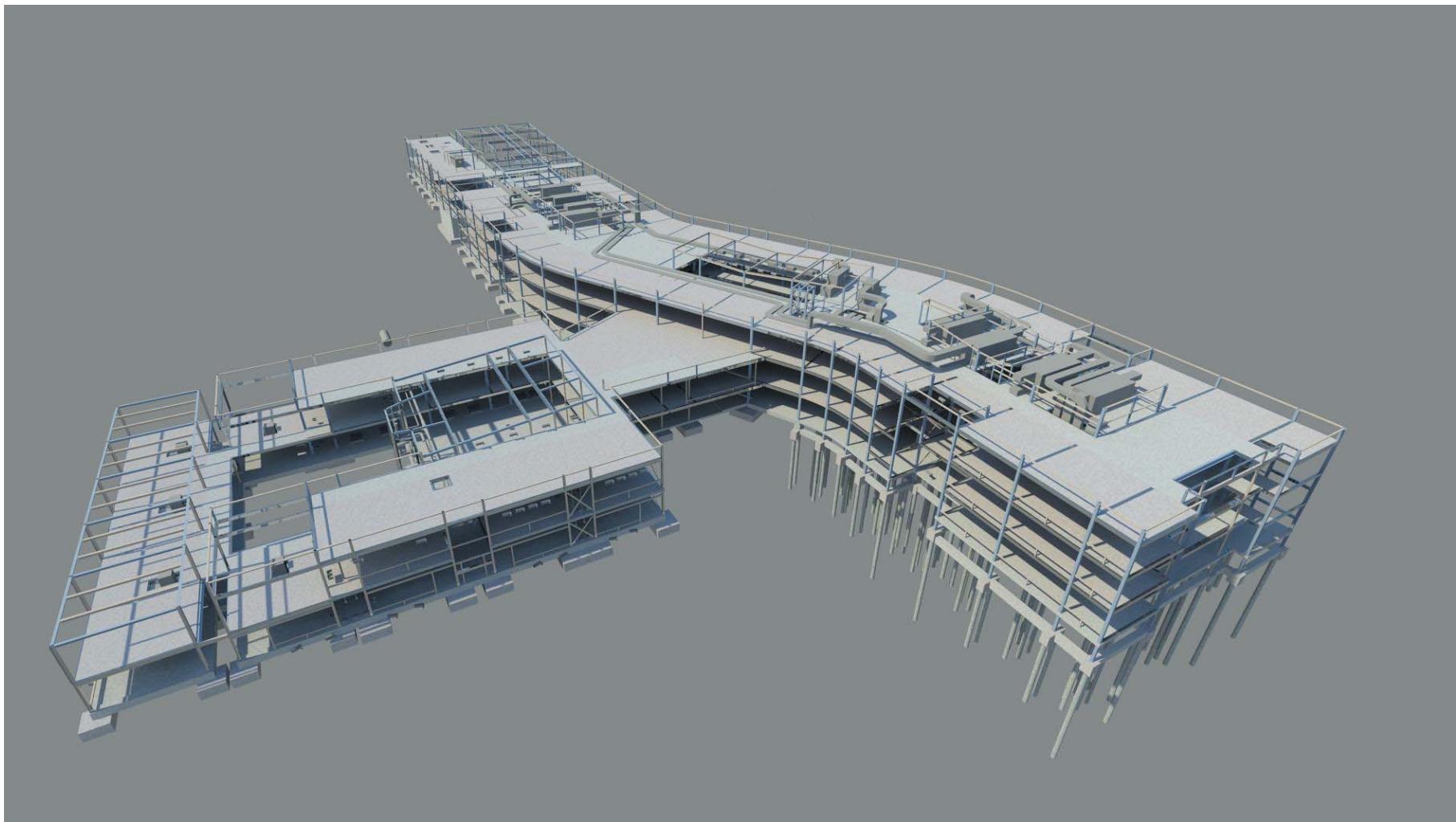


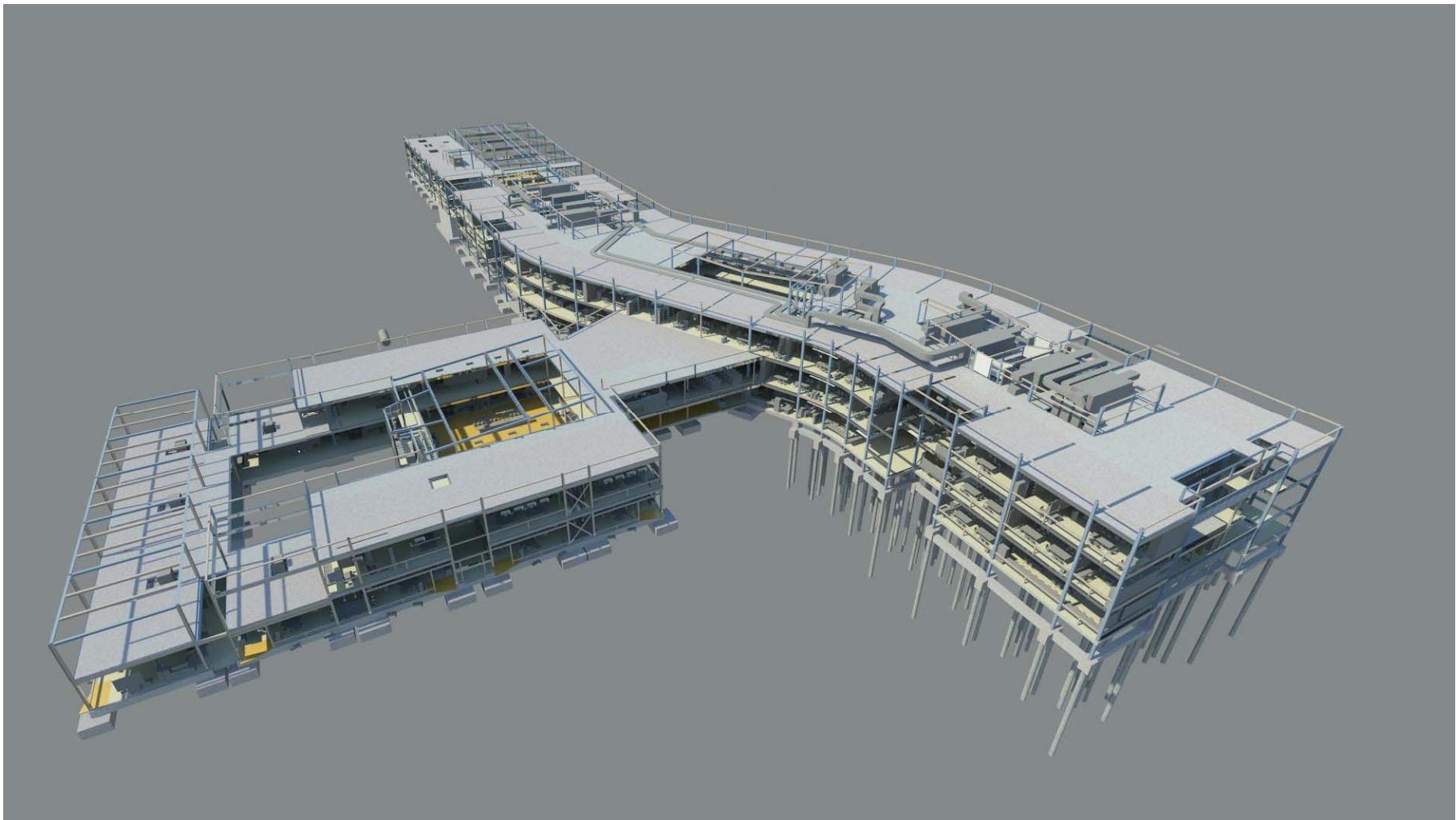












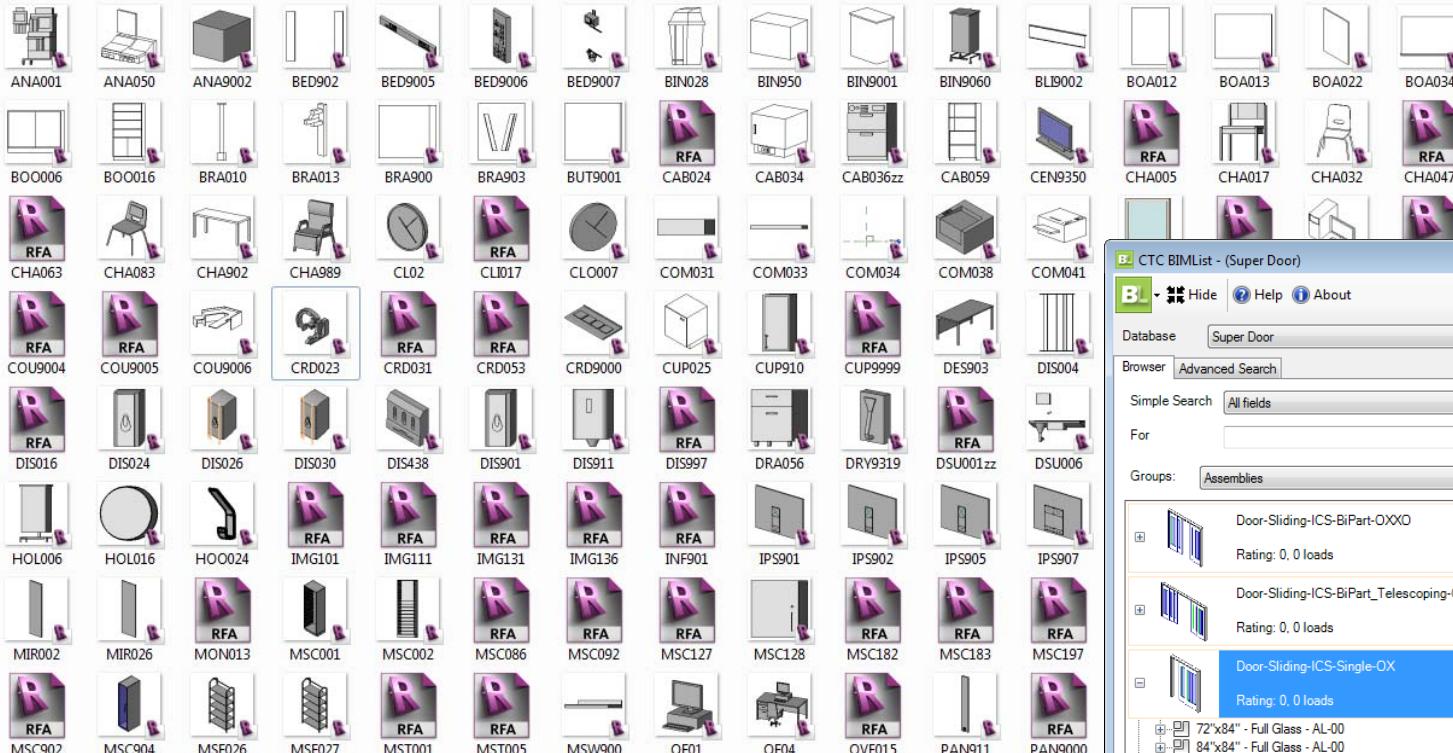








-  Annotations
-  Balusters
-  Casework
-  Columns
-  Curtain Panels
-  Detail Components
-  Doors
-  Electrical Fixtures
-  Entourage
-  Furniture
-  Generic Models
-  Lighting Fixtures
-  Mass
-  Mechanical Equipment
-  Planting
-  Plumbing Fixtures
-  Profiles
-  Site
-  Speciality Equipment
-  Stair
-  Windows



CTC BIMList - (Super Door)

Database: Super Door **Browser:** Advanced Search **Groups:** Assemblies

Swing

- Door-Sliding-ICS-BiPart-OXXO
 - Rating: 0, 0 loads
- Door-Sliding-ICS-BiPart_Telescoping-XXXXX
 - Rating: 0, 0 loads

Sliding

- Door-Sliding-ICS-Single-OX
 - Rating: 0, 0 loads
- Door-Sliding-ICS-Single-OXO
 - Rating: 0, 0 loads
- Door-Sliding-ICS-Telescoping-OXX
 - Rating: 0, 0 loads

Bi-Fold

Pocket



CTC
Design Software Solutions

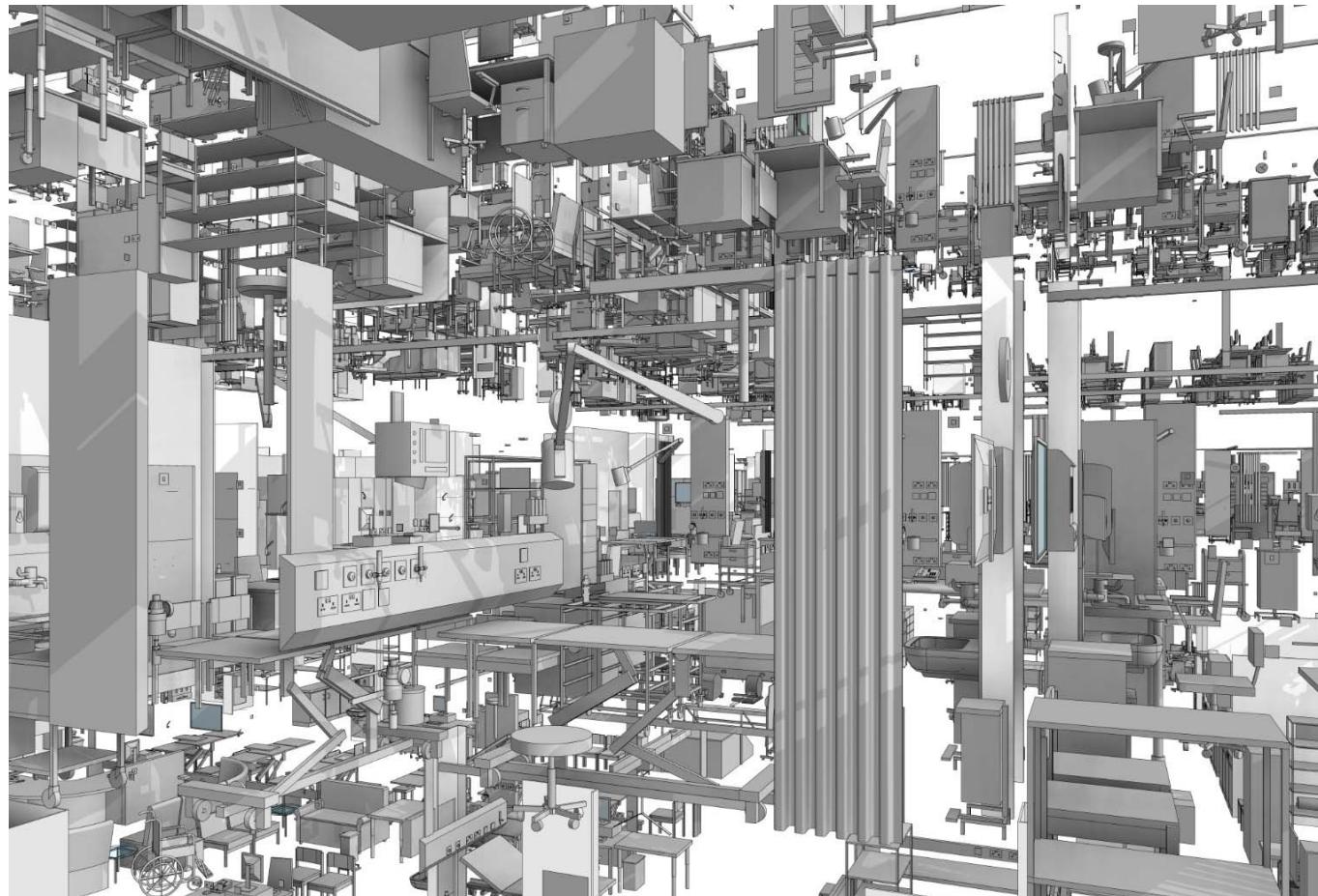


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 AUTODESK
REVIT

 AIA

 Bentley®

 TEKLA®
A TRIMBLE COMPANY

Rhinoceros®

 SketchUp

 KNOWLEDGE
SMART



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About New Process



Where Next for BIM?



BIM Level 2 Certification



Information about RIBA

Glossary of Terms

IT at Project Initiation
Matters to be addressed at start of project set-up.

CDM
Legal obligations on designers to address the health and safety aspects of their designs during both construction and ongoing operation.

Job Costing System
BDP's method of project financial management.

Business Case
The rationale behind the initiation of a new building project. It may consist solely of a reasoned argument.

Change Control Procedures
Procedures for controlling changes to the design and construction following the sign-off of the Stage 2 Concept Design and the Final Project Brief.

Common Standards
Publicly available standards frequently used to define project and design management processes.

Communication Strategy
The strategy that sets out when the project team will meet, communicate & discuss protocols.

Contractual Tree
A diagram that clarifies the contractual relationship between the client and the

results are powered by
BDP Glossary Of Terms

Welcome to Process⁺

revised, re-designed & re-imagined



0



1



2



3



4



5



6



7



Practical Application of BIM



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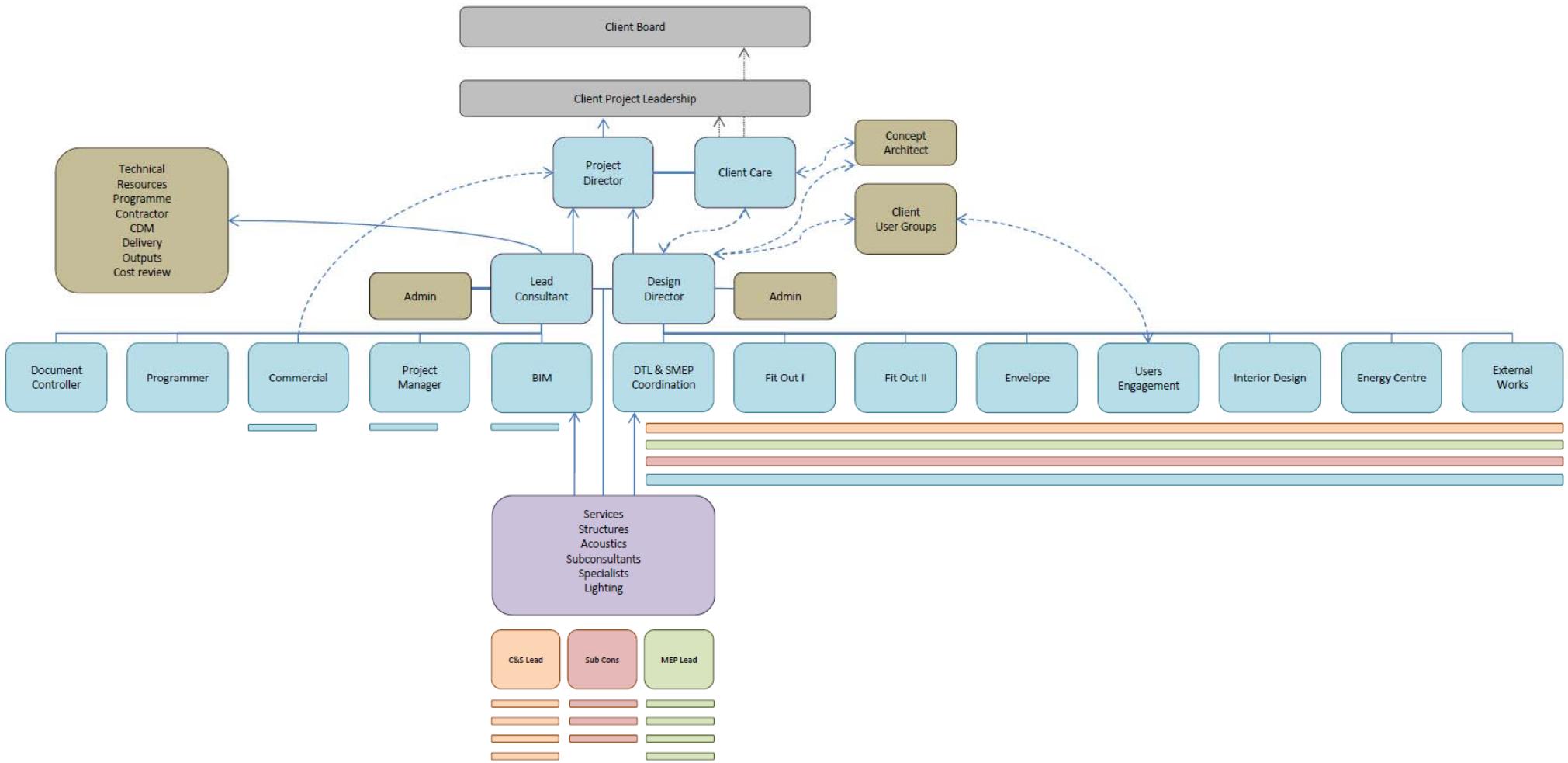








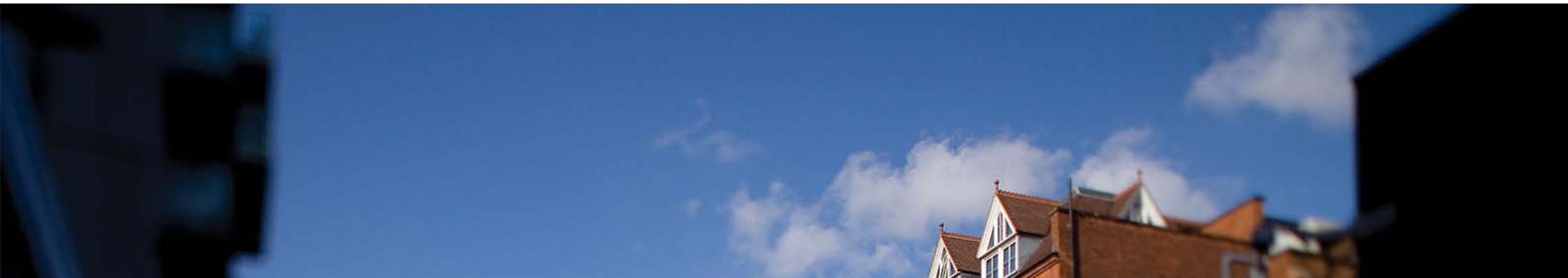












Stage 1: Preparation



Employer's Information Requirements

Project Title: New Cambridge Site
 Document Owner: Global Engineering
 Document Reference: CB000- XX-XXX-RP-K-009077
 Status / Suitability: S4 - Issued for construction approval.
 Revision / Version: P04

Employer's Information Requirements
Rev P04 - 29/11/2014
Page 1 of 23

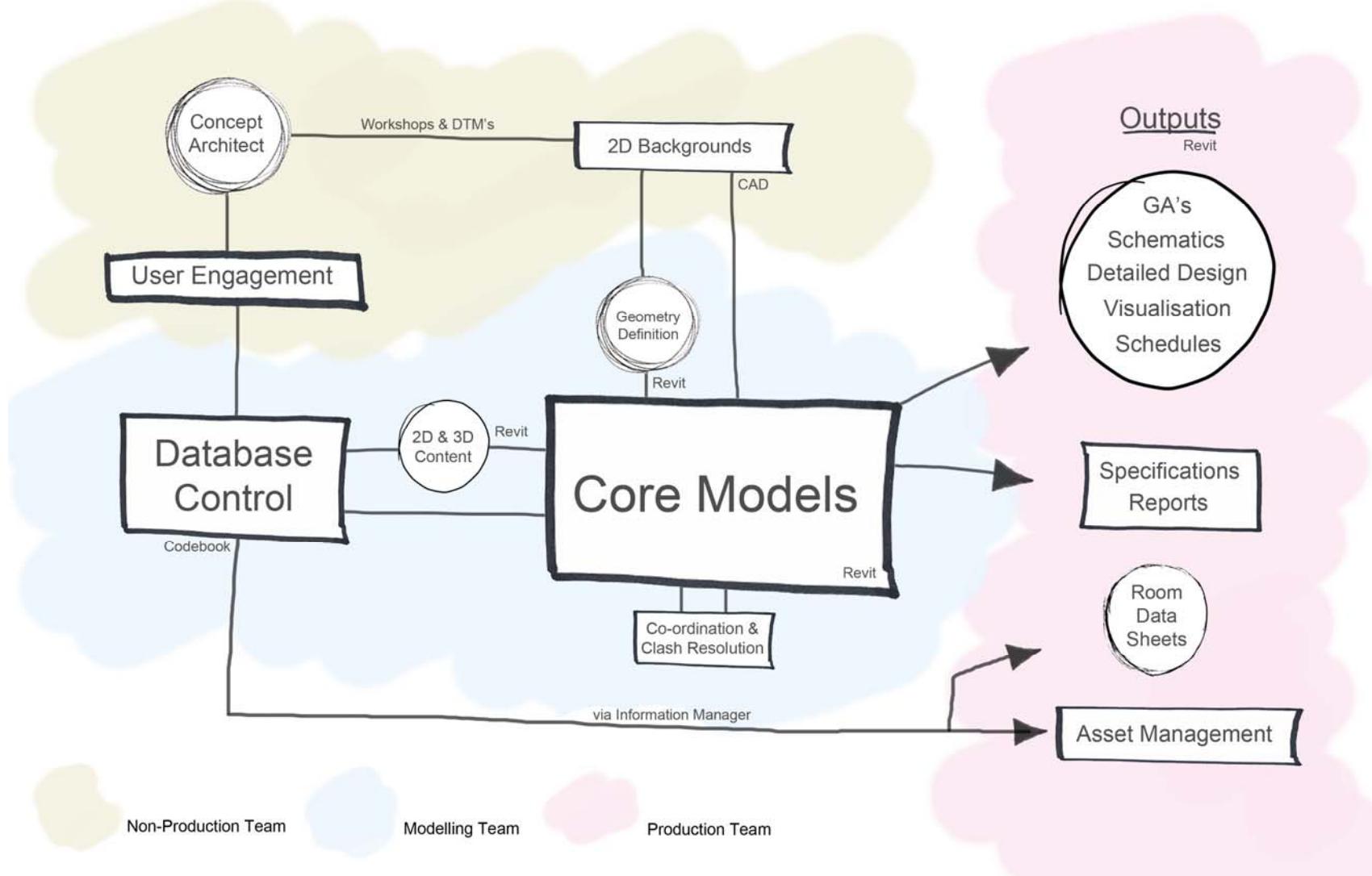
Specimen Model Production and Delivery Table

Showing models required at different project stages

LOD definitions (from PAS 1192) Stage definitions (from APM) Model Originators identified by name

1 Brief	0 Strategy
2 Concept	1 Brief
3 Developed Design	2 Concept
4 Production	3 Definition
5 Installation	4 Design (production information)
6 As constructed	5 Build & Commission
7 In use	6 Handover & Closeout
	7 Operation and end of life

Overall form and content		Drop 1 Stage 1		Drop 2a Stage 2		Drop 2b Stage 2		Drop 3 Stage 3		Drop 4 Stage 6	
		Model Originator	Level of Detail								
Space planning	Architect	1	Architect	2	Contractor	2	Contractor	3	Contractor	6	
Site and context	Architect		Architect	2	Contractor	2	Contractor	3	Contractor	6	
Surveys			Architect	2	Contractor	2	Contractor	3	Contractor	6	
External form and appearance			Architect	2	Contractor	2	Contractor	3	Contractor	6	
Building and site sections			Architect	2	Contractor	2	Contractor	3	Contractor	6	
Internal layouts			Architect	2	Contractor	2	Contractor	3	Contractor	6	
Design strategies				Architect	2	Contractor	2	Contractor	3	Contractor	6
Fire				Architect	2	Contractor	2	Contractor	3	Contractor	6
Physical security				Architect	2	Contractor	2	Contractor	3	Contractor	6
Disabled access				Architect	2	Contractor	2	Contractor	3	Contractor	6
Maintenance access				Architect	2	Contractor	2	Contractor	3	Contractor	6
BREEAM				Architect	2	Contractor	2	Contractor	3	Contractor	6
Performance	Building	Architect	1	Architect	2	Contractor	2	Contractor	3	Contractor	6
	Structural	Architect	1	Str Eng	2	Contractor	2	Contractor	3	Contractor	6
	MEP systems	Architect	1	MEP Eng	2	Contractor	2	Contractor	3	Contractor	6
Regulation compliance analysis					Contractor	2	Contractor	3	Contractor	6	
Thermal Simulation					Contractor	2	Contractor	3	Contractor	6	
Sustainability Analysis					Contractor	2	Contractor	3	Contractor	6	
Acoustic analysis					Contractor	2	Contractor	3	Contractor	6	
4D Programming Analysis					Contractor	2	Contractor	3	Contractor	6	
5D Cost Analysis					Contractor	2	Contractor	3	Contractor	6	
Services Commissioning					Contractor	2	Contractor	3	Contractor	6	
Elements, materials components	Building	Architect	2	Contractor	2	Contractor	3	Contractor	6		
	Specifications	MEP Eng	2	Contractor	2	Contractor	3	Contractor	6		
	MEP systems	Architect	2	Contractor	2	Contractor	3	Contractor	6		
Construction proposals	Phasing				Contractor	2	Contractor	3	Contractor	6	
	Site access				Contractor	2	Contractor	3	Contractor	6	
	Site set-up				Contractor	2	Contractor	3	Contractor	6	
Health and safety	Design				Contractor	2	Contractor	3	Contractor	6	
	Construction				Contractor	2	Contractor	3	Contractor	6	
	Operation				Contractor	2	Contractor	3	Contractor	6	



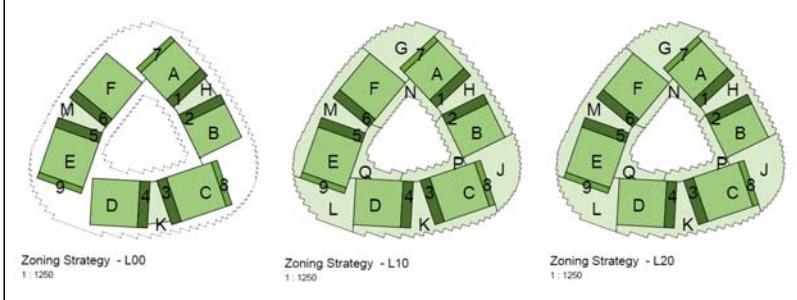


BIM Execution Plan

Volume 1 - Project Implementation Plan (PIP)

Project Title: New Cambridge Site
Document Owner:
Status: S3 - Issued for internal review and comment

83 - Issued for internal review and comment

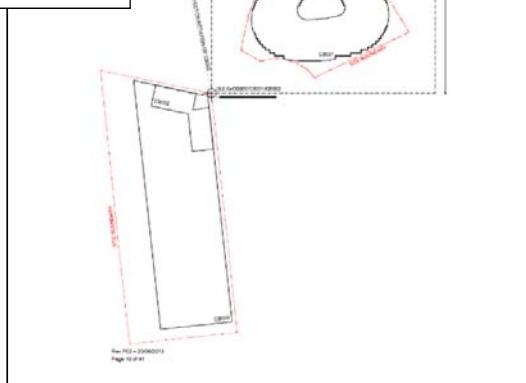
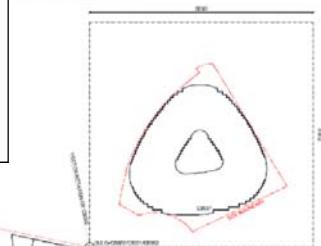


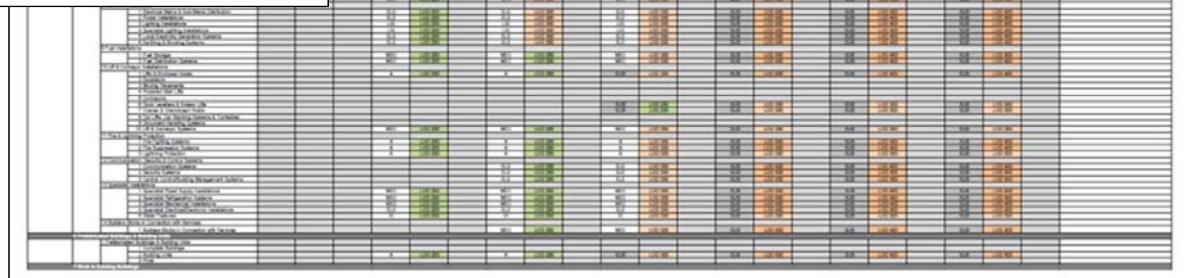
Project Information Model (PIM) origin and orientation

The origin and orientation of the project are based on the project location and its reference to other global or local grids, for example Ordnance Survey. Some projects have their own grid system, for instance, was the London Grid specified for that project as did the Olympics programme.

See the CPD: Productivity Information 2009 publications for specific requirements.

Project Origin





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THE EASY WAY TO DEFINE
WHO IS DOING WHAT AND WHEN
ON YOUR LEVEL 2 BIM PROJECTS

Create a project >



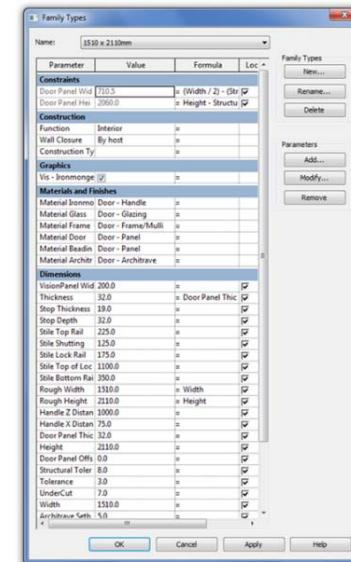
LOD

Graphical / Geometric Definition



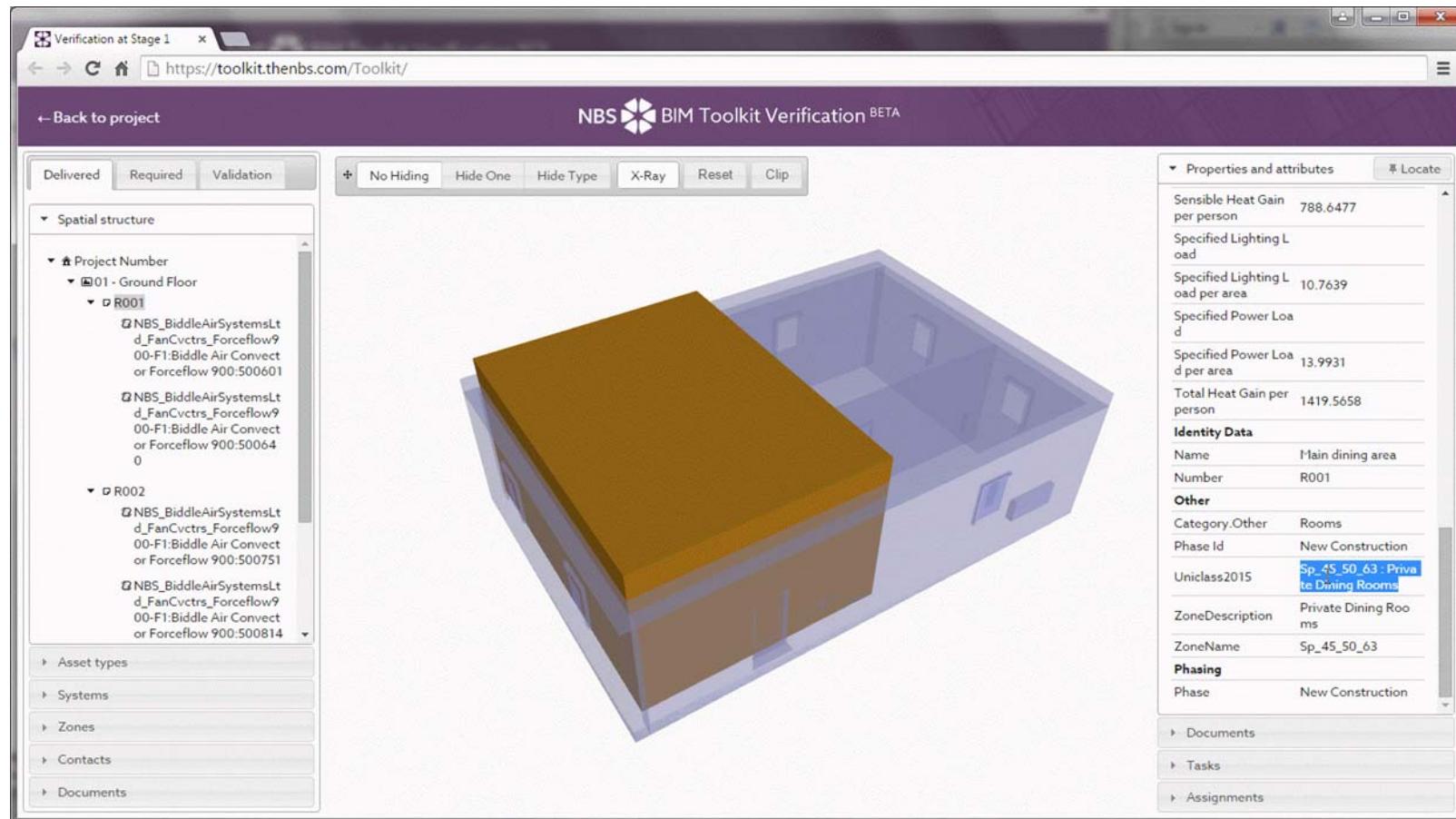
LOI

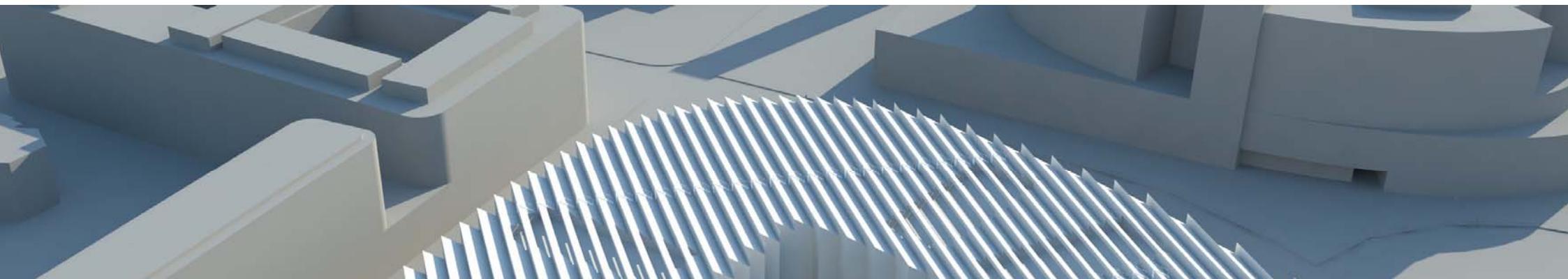
Information associated with objects



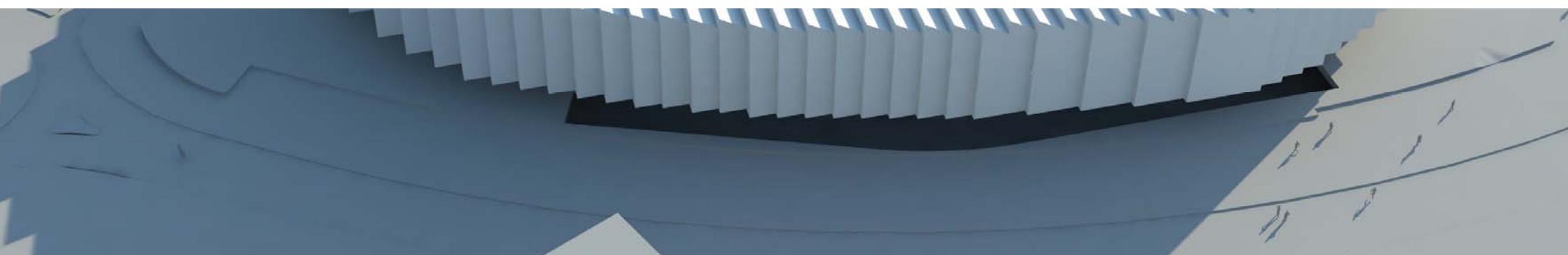
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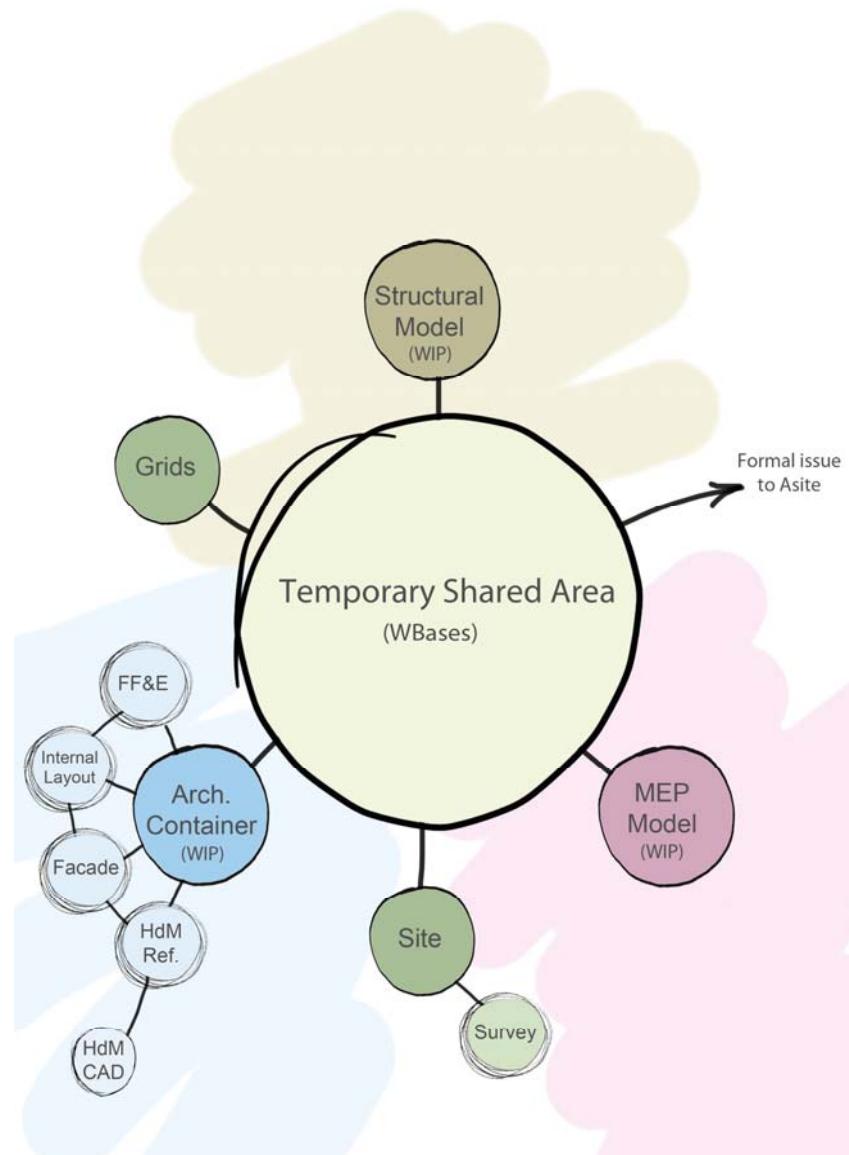
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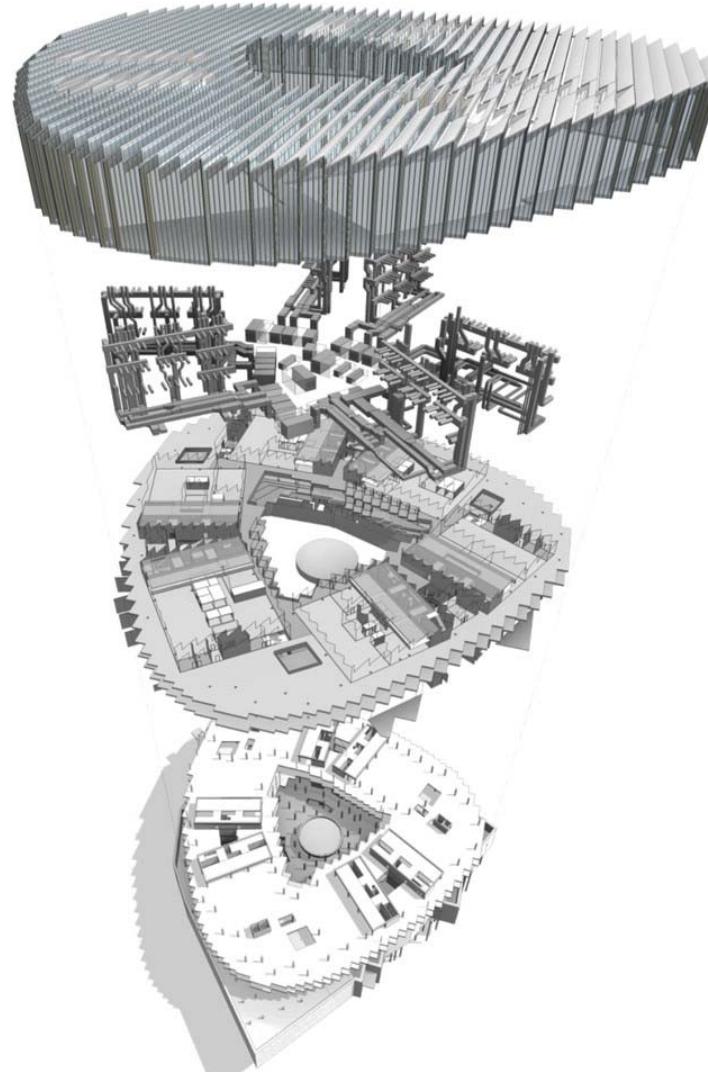




Stage 2: Concept Design

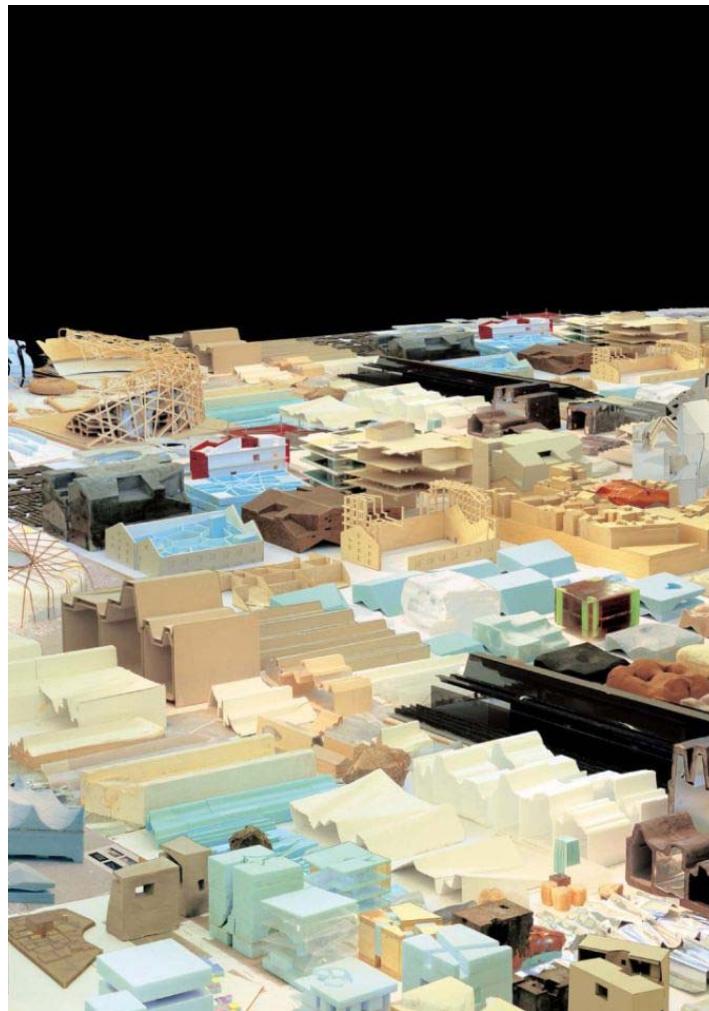


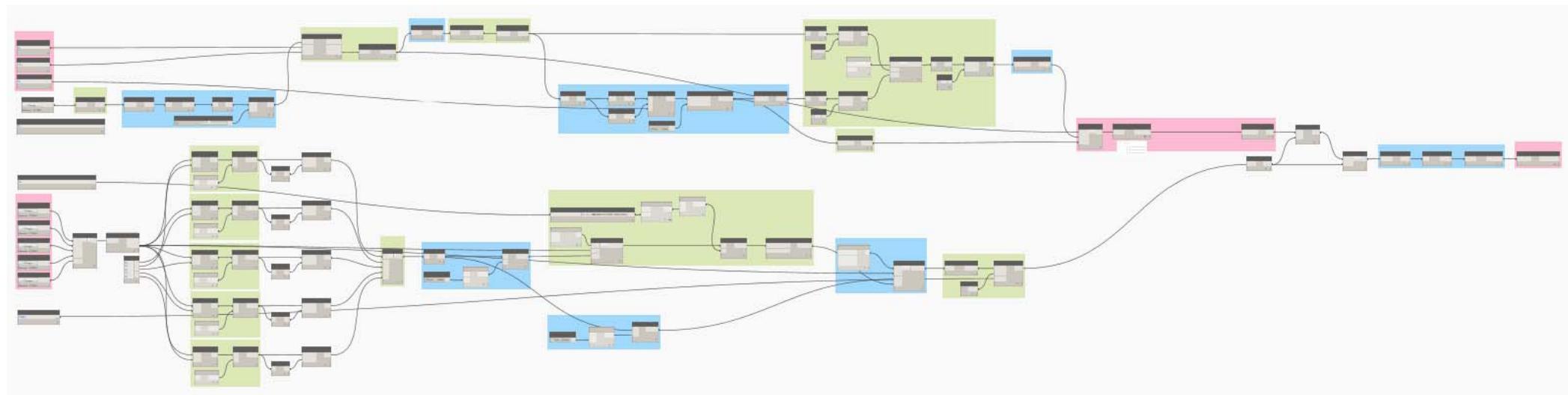


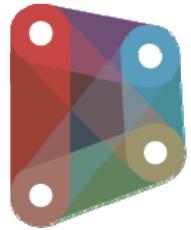


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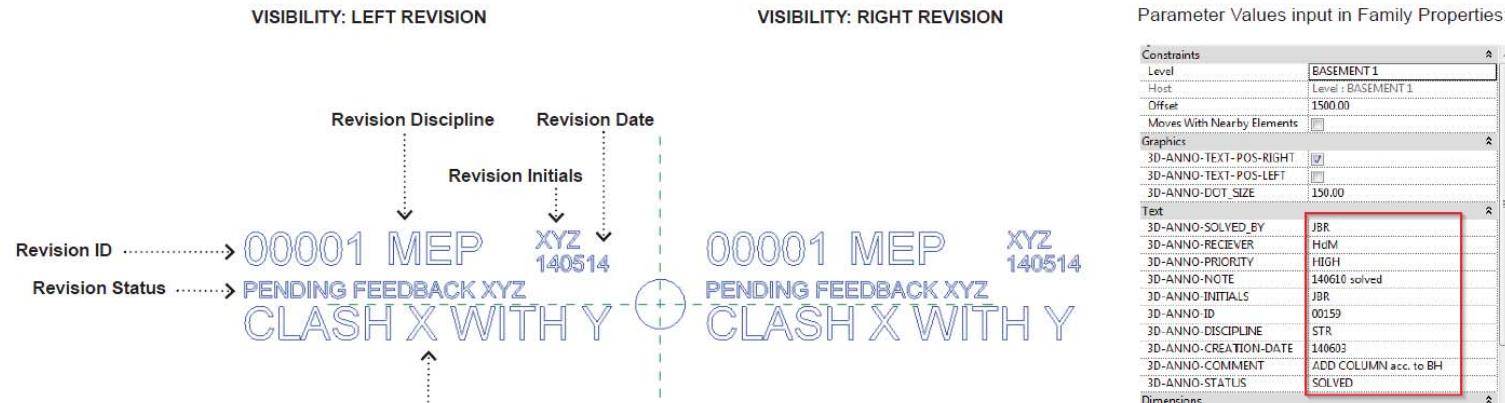
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- Data Driven Design
- Automate Repetition*
- Verification



Some Samples:

00123 STR AXV
140526
TASK ASSIGNED
MOVE COLUMN acc. to BH

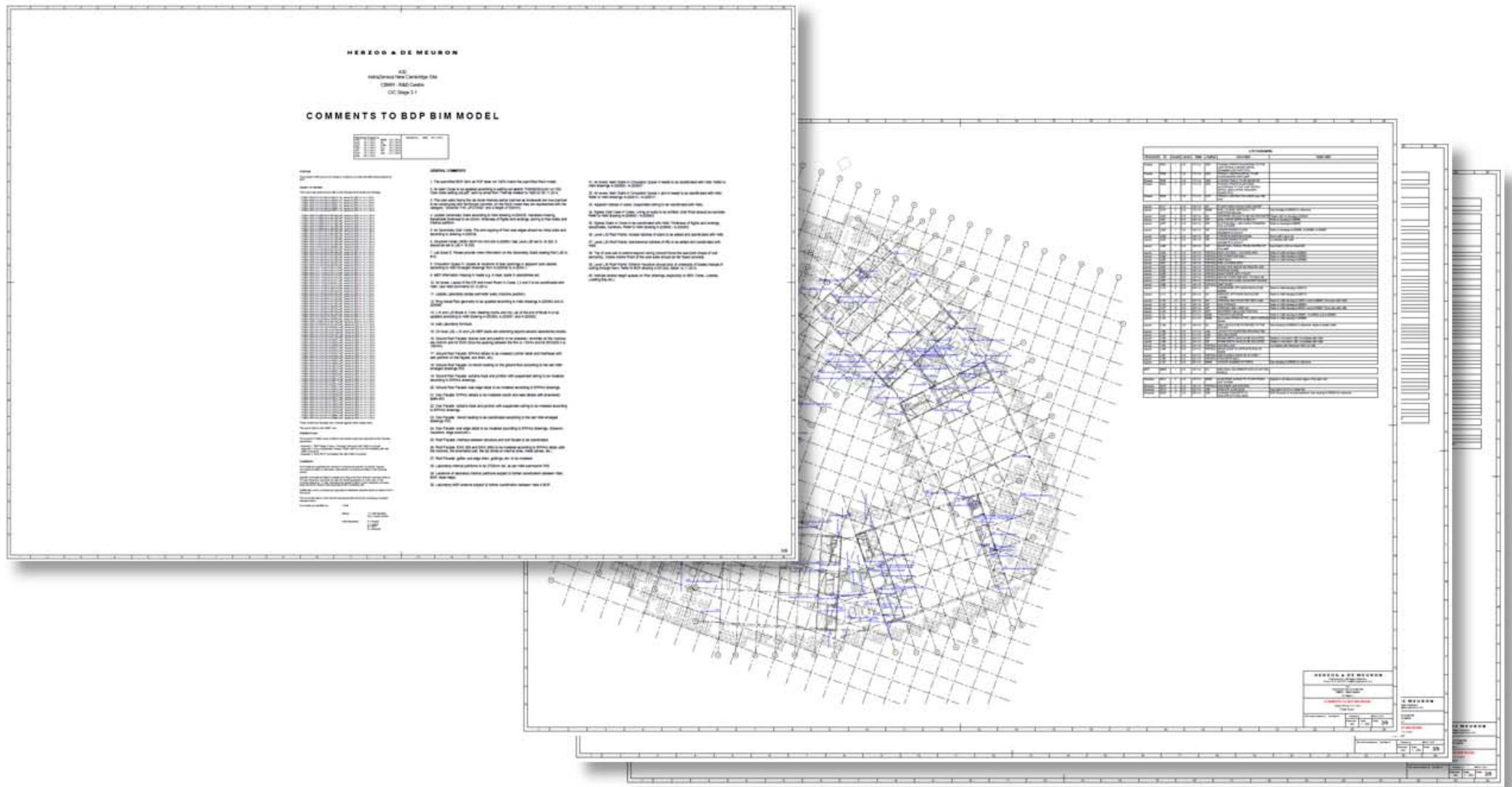
00125 STR AXV
140526
SOLVED
ADD COLUMN acc. to BH

00018 MEP FRB
140518
CLASH TO REVIEW
CLASH ELEC. - COURTYARD

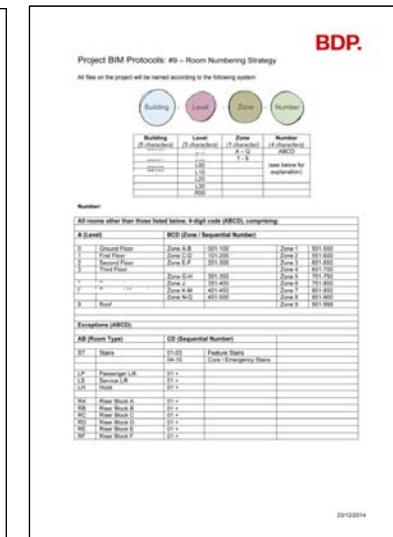
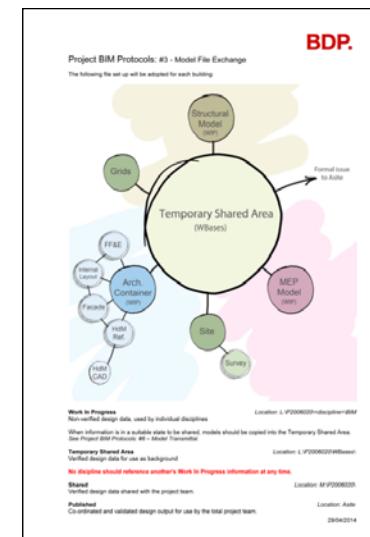
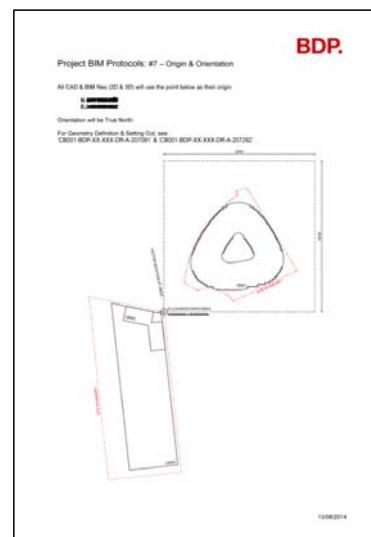
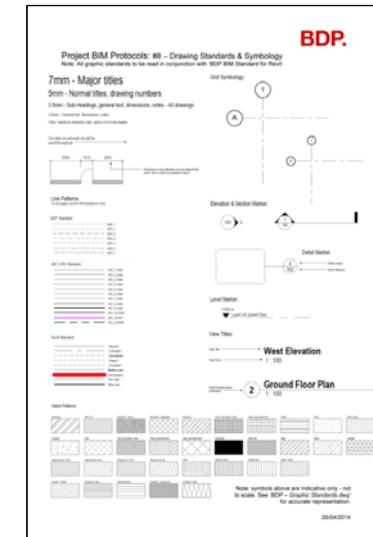
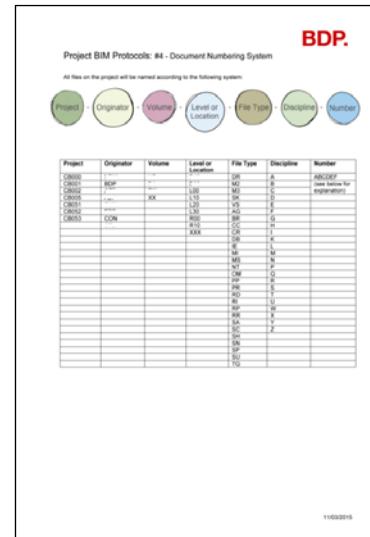
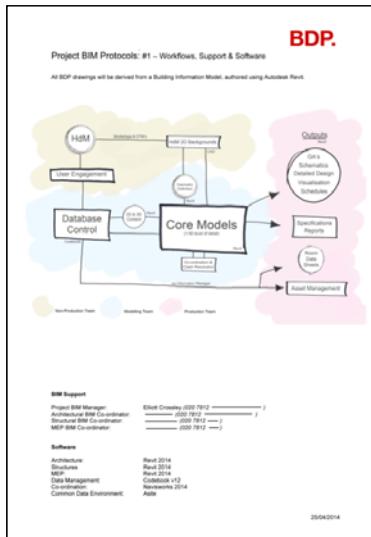
Schedule: SCH_REQUEST-CLASH_ANNO_ALL -

LEVEL	ID	3D-ANN	3D-ANNO-COMMENT	DATE	AUTHOR
BASEMENT 1	00030	STR	NOT ALIGN WITH ARC	140520	JBR
BASEMENT 1	00031	STR	NOT ALIGN WITH ARC	140520	JBR
BASEMENT 1	00032	STR	NOT ALIGN WITH ARC	140520	JBR
BASEMENT 1	00033	STR	NOT ALIGN WITH ARC	140520	JBR
BASEMENT 1	00105	MEP	REVIEW ICT.	140523	JBR
BASEMENT 1	00106	MEP	REVIEW ICT	140523	JBR
BASEMENT 1	00107	MEP	REVIEW ICT	140523	JBR
BASEMENT 1	00228	STR	NOT ALIGN WITH ARC	140610	JBR
BASEMENT 1	00224	STR	NOT ALIGN WITH ARC	140520	JBR
BASEMENT 1	00225	STR	NOT ALIGN WITH ARC	140520	JBR
BASEMENT 1	00227	STR	NOT ALIGN WITH ARC	140520	JBR
BASEMENT 1	00226	STR	ADD STR WALL acc. to BH	140520	JBR
BASEMENT 1	00228	STR	REMOVE STR WALL	140520	JBR
BASEMENT 1	00063	STR	REMOVE STR COLUMN	140521	JBR
BASEMENT 1	00064	STR	NOT ALIGN WITH ARC	140521	JBR
BASEMENT 1	00065	STR	MOVE COLUMN acc. to BH	140521	JBR
BASEMENT 1	00066	STR	ADD STR. WALL WIDTH acc. to BH	140521	JBR
BASEMENT 1	00068	STR	NEW STR WALL acc. to BH	140521	JBR
BASEMENT 1	00069	STR	NEW STR WALL acc. to BH	140521	JBR
BASEMENT 1	00070	STR	NOT ALIGN WITH ARC	140521	JBR
BASEMENT 1	00071	STR	MOVE COLUMN acc. to BH	140521	JBR
BASEMENT 1	00072	STR	MOVE COLUMN acc. to BH	140521	JBR
BASEMENT 1	00076	STR	DELETE COLUMN acc. to BH	140522	JBR
BASEMENT 1	00074	STR	DELETE COLUMN acc. to BH	140522	JBR
BASEMENT 1	00075	STR	DELETE COLUMN acc. to BH	140522	JBR
BASEMENT 1	00077	STR	MOVE COLUMN acc. to BH	140522	JBR
BASEMENT 1	00078	STR	DELETE COLUMN acc. to BH	140522	JBR
BASEMENT 1	00079	STR	DELETE COLUMN acc. to BH	140522	JBR
BASEMENT 1	00083	STR	ADJUST STR. WALL WIDTH acc. to	140522	JBR
BASEMENT 1	00131	STR	ADD COLUMN acc. to BH	140527	JBR
BASEMENT 1	00138	STR	ADD COLUMN acc. to BH	140527	JBR

3D View: (3D - sjimenez) -



Plain Language isn't just for Clients





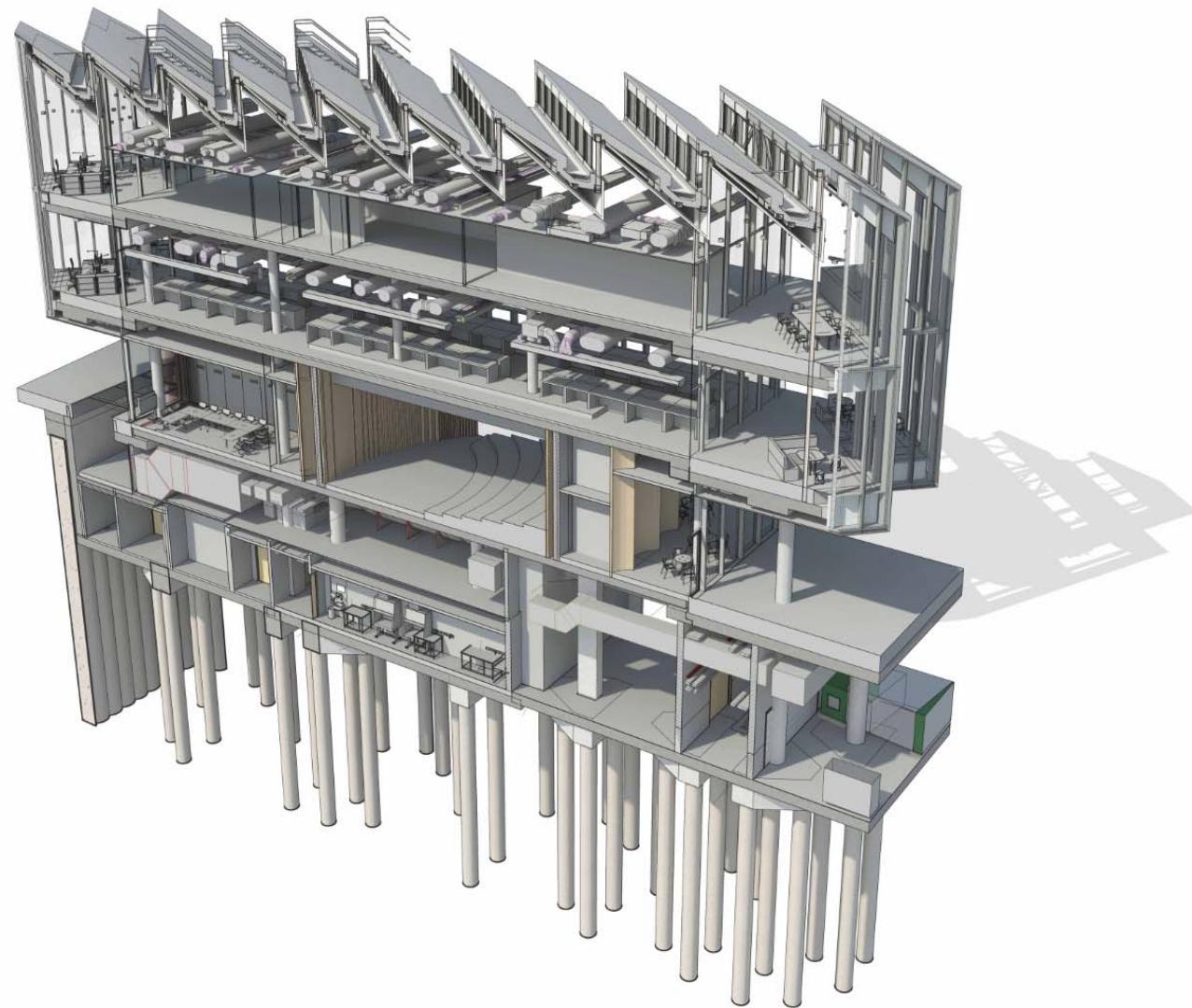
Stage 3: Developed Design



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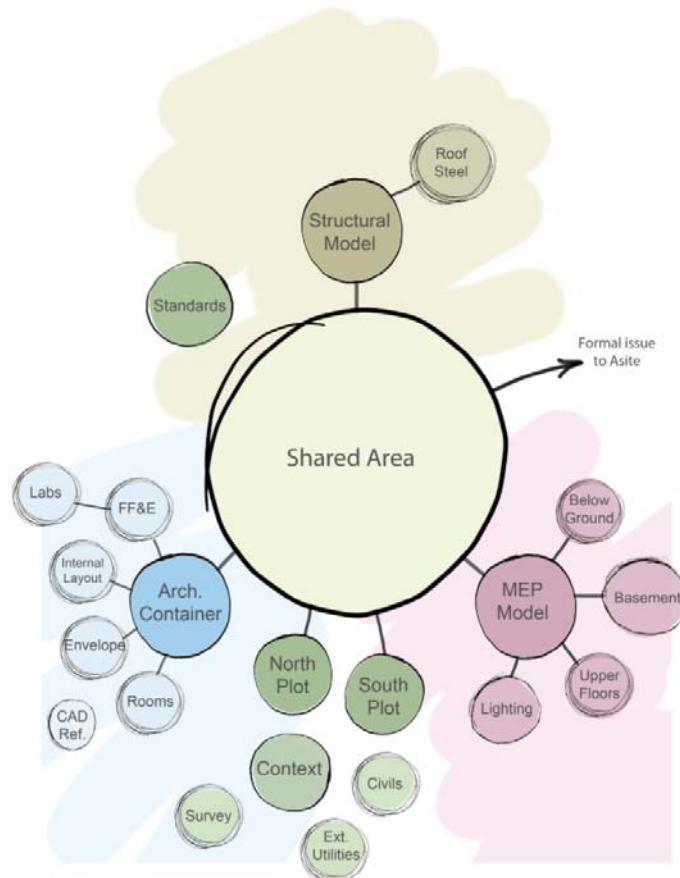




DOCUMENT REGISTER - BIM

03.08.2015

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3D MODELS - Sitewide											
CB000-GRH-XX-XXX-M3-B-208001	Existing Survey	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a	wSurvey	50 Mb	
CB000-BDP-XX-XXX-M3-Z-208001	Masterplan Federated Model	n/a	.ifc, .nwd	BDP	BDP	BDP	BDP	BDP	Z/BIM	30 Mb	
CB000-BDP-XX-XXX-M3-A-208901	CAD Reference	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a	wBases	60 Mb	
CB000-BDP-XX-XXX-M3-L-208002	North Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	BDP - L	BDP - L	BDP - L	LBIM	100 Mb	
CB000-BDP-XX-XXX-M3-L-208003	South Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	BDP - L	BDP - L	BDP - L	LBIM	100 Mb	
CB000-BDP-XX-XXX-M3-M-208701	External Utilities	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - M	BDP - M	M/BIM	100 Mb	
CB000-BDP-XX-XXX-M3-C-208601	External Drainage	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - C	BDP - C	LBIM	100 Mb	
CB000-BDP-XX-XXX-M3-L-208004	Existing Context Model	n/a	.nwc, .rvt	n/a	BDP	n/a	BDP	BDP	LBIM	100 Mb	
3D MODELS - R&D Building											
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CB001-BDP-XX-XXX-M3-A-208101	Envelope	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A	A/BIM	120 Mb	
CB001-BDP-XX-XXX-M3-A-208201	Internal Layout	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A	A/BIM	250 Mb	
CB001-BDP-XX-XXX-M3-L-208301	Non-Laboratory FF&E	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A	D/BIM	200 Mb	
CB001-BDP-XX-XXX-M3-A-208302	Laboratory FF&E	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A	A/BIM	200 Mb	
CB001-BDP-XX-XXX-M3-Z-208501	Grids	n/a	.nwc, .rvt	BDP - A	BDP - A	BDP - A	BDP - A	BDP - A	A/BIM	10 Mb	
CB001-BDP-XX-XXX-M3-S-208601	Structure	n/a	.nwc, .rvt	BDP-S	BDP-S	BDP-S	BDP-S	BDP-S	S/BIM	150 Mb	
CB001-BDP-XX-XXX-M3-M-208701	MEP - Basement	n/a	.nwc, .rvt	BDP - M	BDP - M	BDP - M	BDP - M	BDP - M	M/BIM	200 Mb	
3D MODELS - R&D Building Federated Model											
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CB002-BDP-XX-XXX-M3-A-208201	Internal Layout	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a	A/BIM	100 Mb	
CB002-BDP-XX-XXX-M3-Z-208501	Grids	n/a	.nwc, .rvt	BDP - A	n/a	n/a	n/a	n/a	wGrids	10 Mb	
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3D MODELS - Energy Centre											
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CB005-BDP-XX-XXX-M3-Z-208501	Grids	n/a	.nwc, .rvt	BDP - A	BDP - A	BDP - A	BDP - A	BDP - A	wGrids	10 Mb	
CB005-BDP-XX-XXX-M3-S-208601	Structure	n/a	.nwc, .rvt	n/a	BDP - S	BDP - S	BDP - S	BDP - S	S/BIM	60 Mb	
CB005-BDP-XX-XXX-M3-M-208701	MEP	n/a	.nwc, .rvt	BDP - M	BDP - M	BDP - M	BDP - M	BDP - M	M/BIM	100 Mb	
CB005-BDP-XX-XXX-M3-Z-208801	Energy Centre Federated Model	n/a	.ifc, .nwd	BDP	BDP	BDP	BDP	BDP	Z/BIM	200 Mb	
CB051-BDP-XX-XXX-M3-Z-208501	Grids	n/a	.nwc, .rvt	n/a	BDP - A	n/a	BDP - A	BDP - A	wGrids	30 Mb	



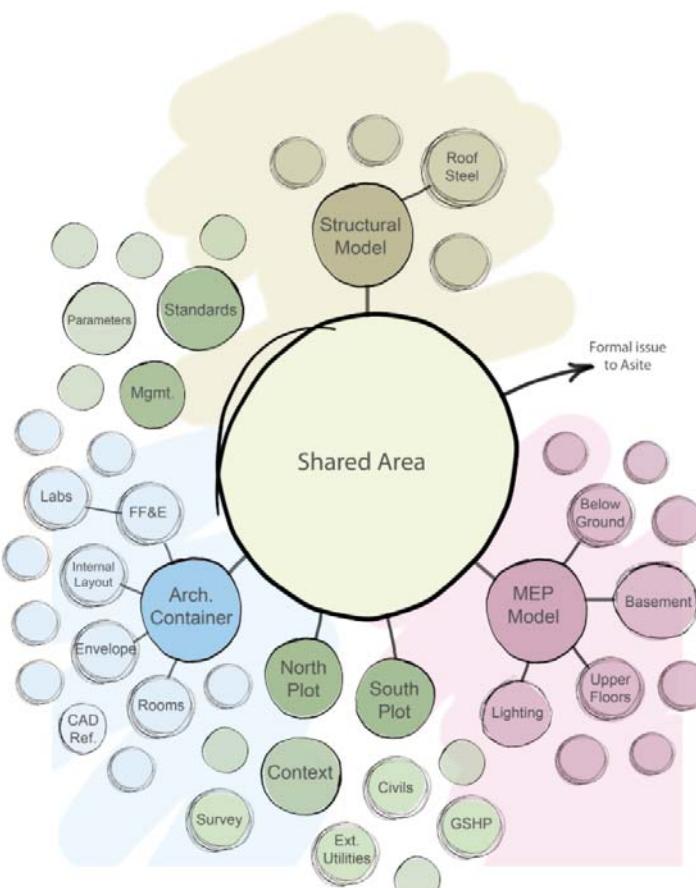
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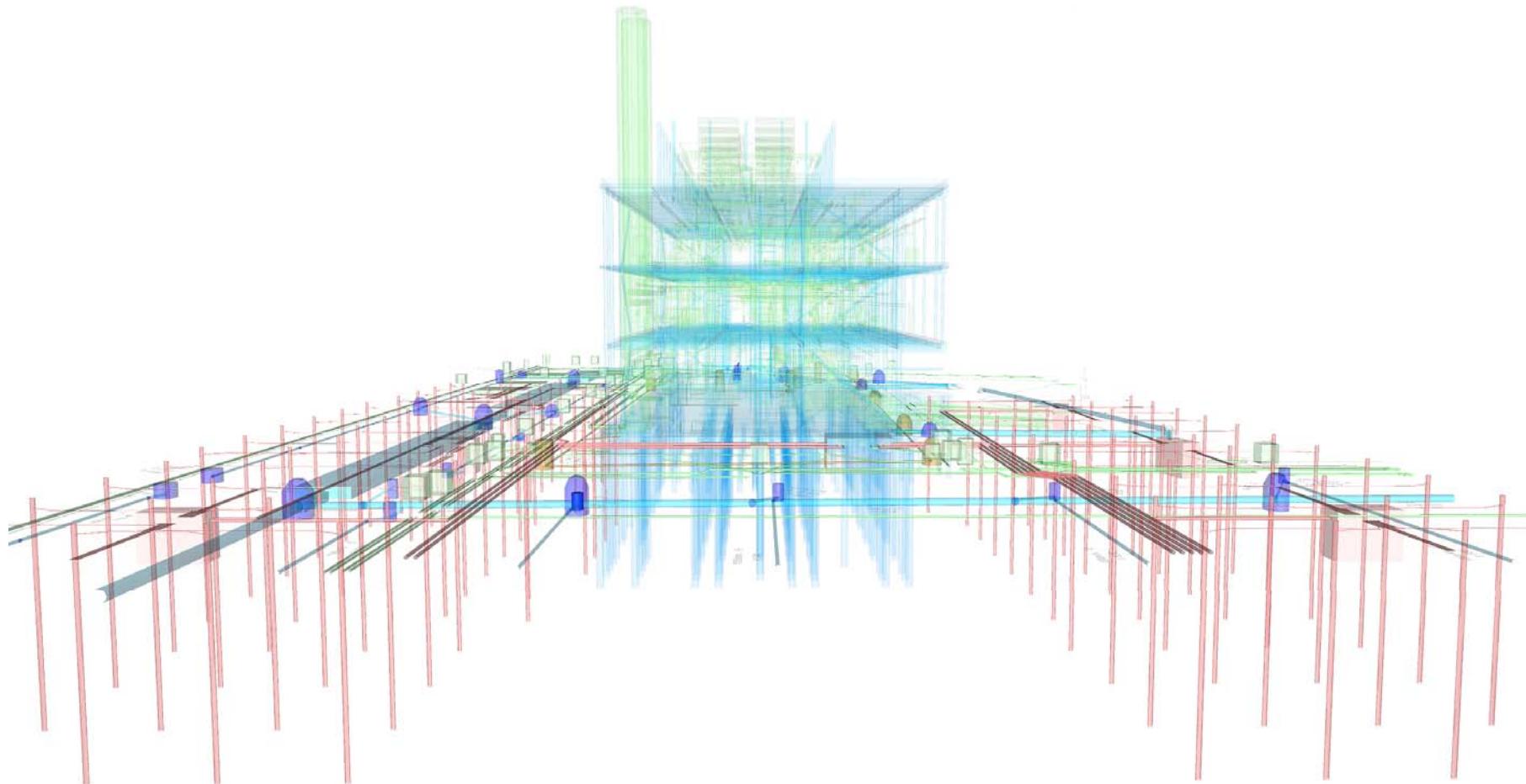
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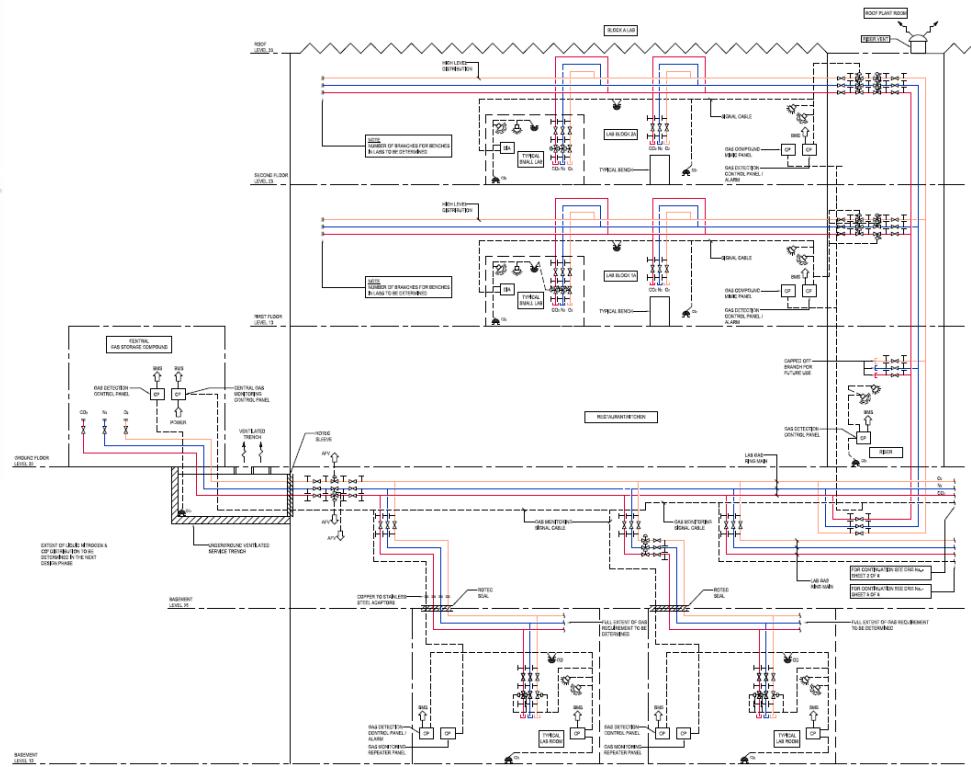
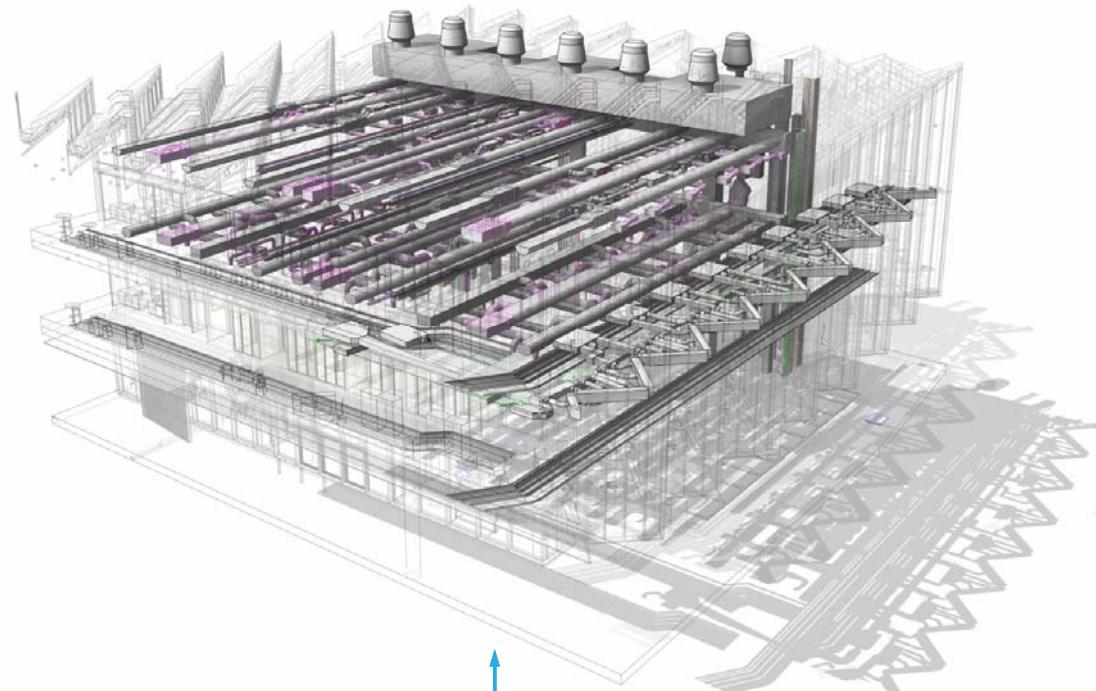
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CB000-BDP-XXX-XXX-M3-Z-208001	Masterplan Federated Model	n/a	.ifc, .nwd	BDP	BDP	BDP	BDP	BDP	Z/BIM	30 Mb	
CB000-BDP-XXX-XXX-M3-A-208901	CAD Reference	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a	wBases	60 Mb	
CB000-BDP-XXX-XXX-M3-L-208001	North Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	BDP - L	BDP - L	BDP - L	U/BIM	100 Mb	
CB000-BDP-XXX-XXX-M3-L-208003	South Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	n/a	BDP - L	BDP - L	U/BIM	100 Mb	
CB000-BDP-XXX-XXX-M3-M-208701	External Utilities	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - M	BDP - M	M/BIM	100 Mb	
CB000-BDP-XXX-XXX-M3-M-208703	GSHP	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - M	BDP - M	M/BIM	100 Mb	
CB000-BDP-XXX-XXX-M3-C-208801	External Drainage	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - C	BDP - C	U/BIM	100 Mb	
CB000-BDP-XXX-XXX-M3-C-208802	Proposed Surface	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - C	BDP - C	U/BIM	100 Mb	
CB000-BDP-XXX-XXX-M3-L-208004	Existing Context Model	n/a	.nwc, .rvt	n/a	BDP	n/a	BDP	BDP	U/BIM	100 Mb	
3D MODELS - R&D Building											
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CB001-BDP-XXX-XXX-M3-L-208301	Non-Laboratory FF&E	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A	D/BIM	200 Mb	
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CB001-BDP-XXX-XXX-M3-A-208202	Rooms	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A	A/BIM	10 Mb	
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CD001-BDP-XXX-XXX-M3-M-207002	MCP - L00 and Upper Floors	n/a	.nwc, .rvt	BDP - M	BDP - M	BDP - M	BDP - M	BDP - M	M/BIM	200 Mb	
CB001-BDP-XXX-XXX-M3-M-208703	MEP - Below Ground	n/a	.nwc, .rvt	BDP - M	BDP - M	BDP - M	BDP - M	BDP - M	M/BIM	200 Mb	
CB001-BDP-XXX-XXX-M3-N-208704	Lighting	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - N	BDP - N	M/BIM	200 Mb	
CB001-BDP-XXX-XXX-M3-L-208201	Interior Design	n/a	.nwc, .rvt	n/a	BDP - D	n/a	BDP - D	BDP - D	D/BIM	200 Mb	
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3D MODELS - R&D Enabling Building											
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CB002-BDP-XXX-XXX-M3-A-208201	Internal Layout	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a	A/BIM	100 Mb	
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CB002-BDP-XXX-XXX-M3-S-208601	Structure	n/a	.nwc, .rvt	BDP - S	BDP - S	n/a	n/a	n/a	S/BIM	60 Mb	
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CB002-BDP-XXX-XXX-M3-Z-208801	R&D Enabling Building Federated Model	n/a	.ifc, .nwd	BDP	n/a	n/a	n/a	n/a	Z/BIM	200 Mb	
3D MODELS - Energy Centre											
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CB005-BDP-XXX-XXX-M3-A-208202	Rooms	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A	A/BIM	10 Mb	
CB005-BDP-XXX-XXX-M3-S-208601	Structure	n/a	.nwc, .rvt	n/a	BDP - S	BDP - S	BDP - S	BDP - S	S/BIM	60 Mb	
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CB005-BDP-XXX-XXX-M3-N-208704	Lighting	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - N	BDP - N	M/BIM	100 Mb	
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3D MODELS - Service Corridor & Misc											
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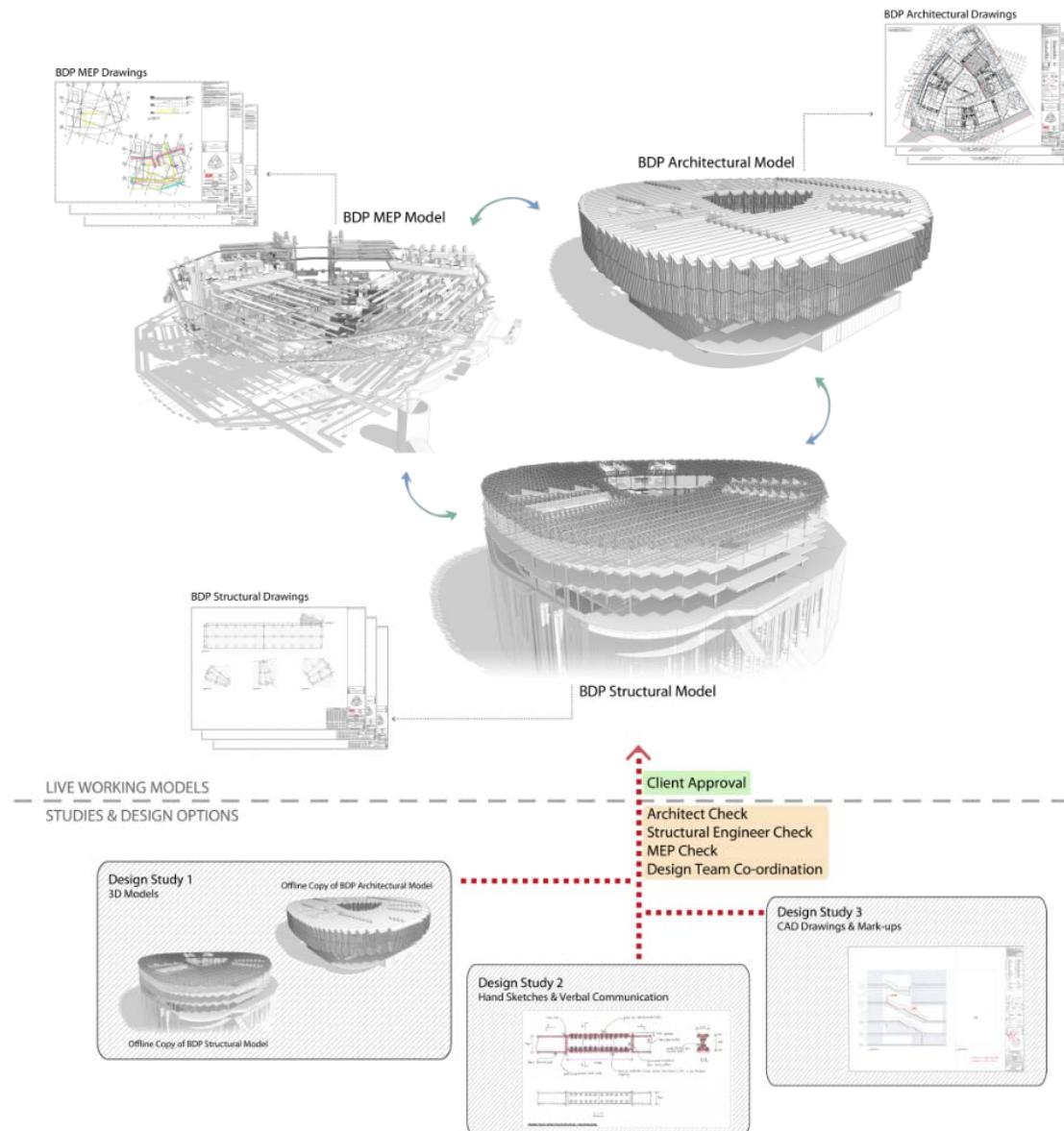


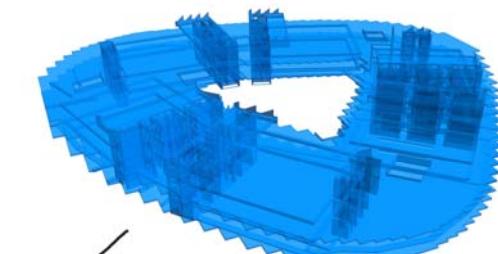
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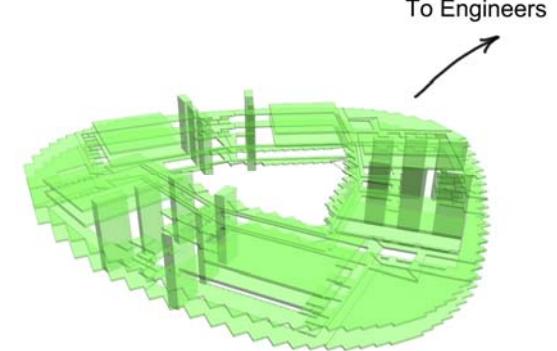
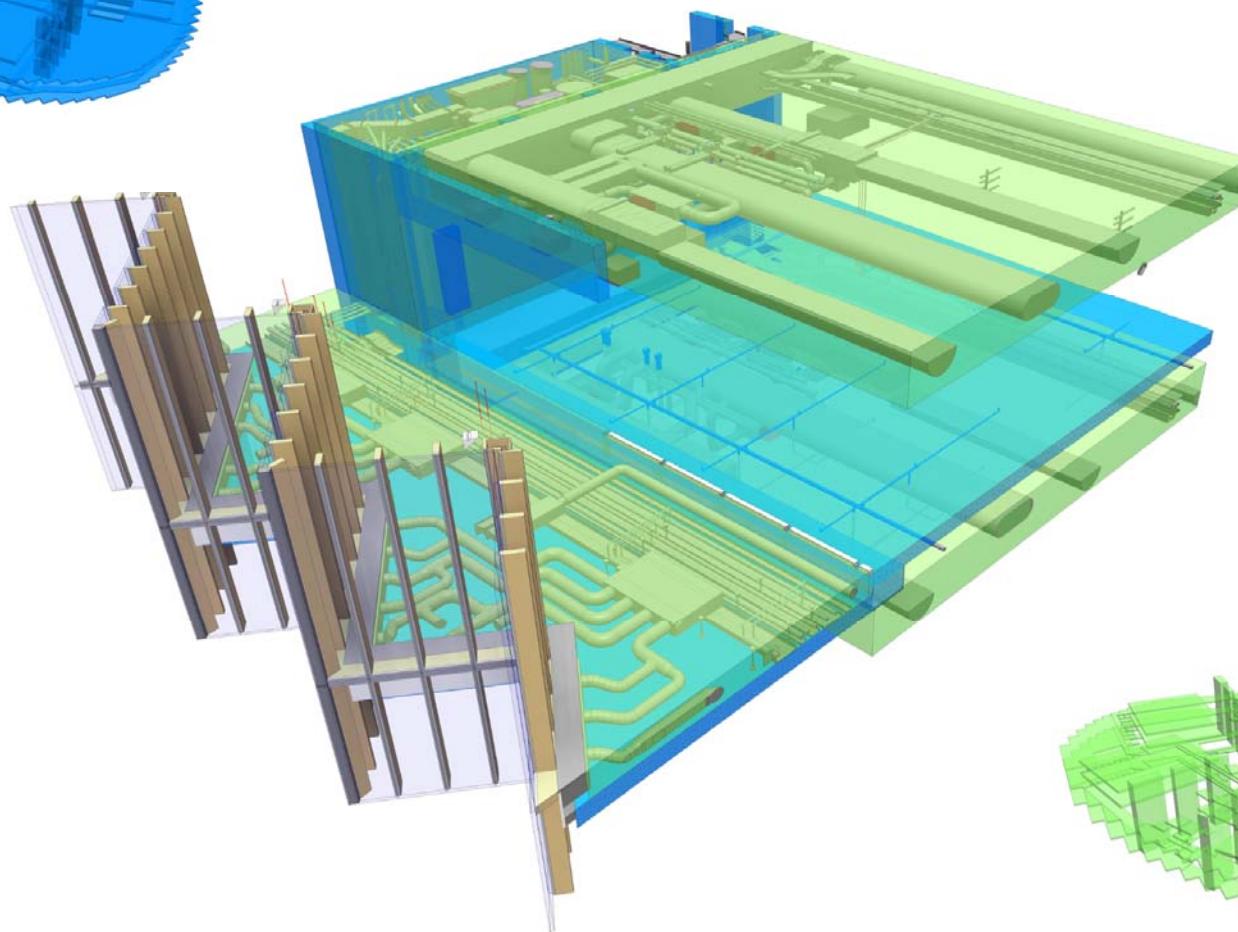








To Engineers

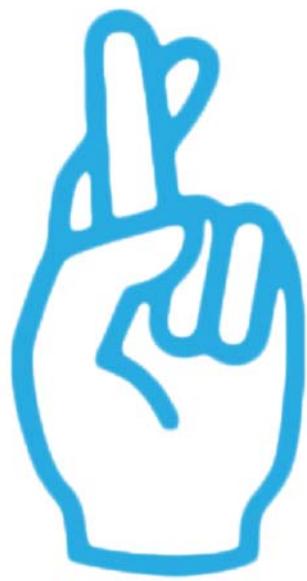


To Engineers

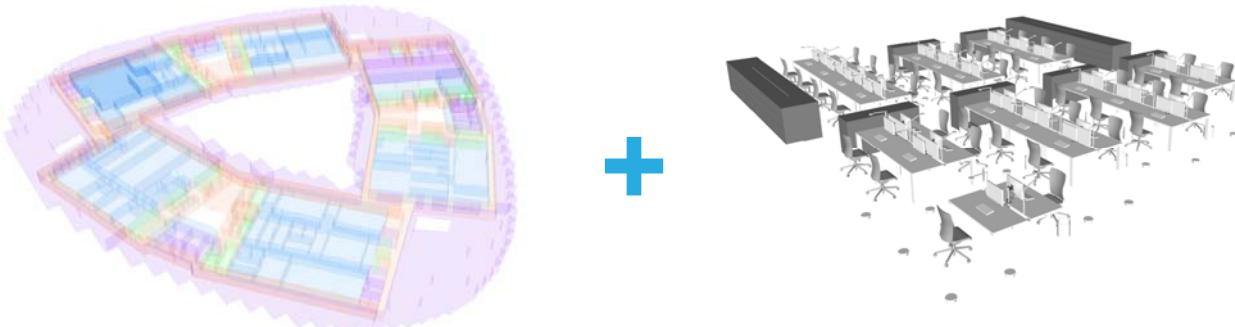


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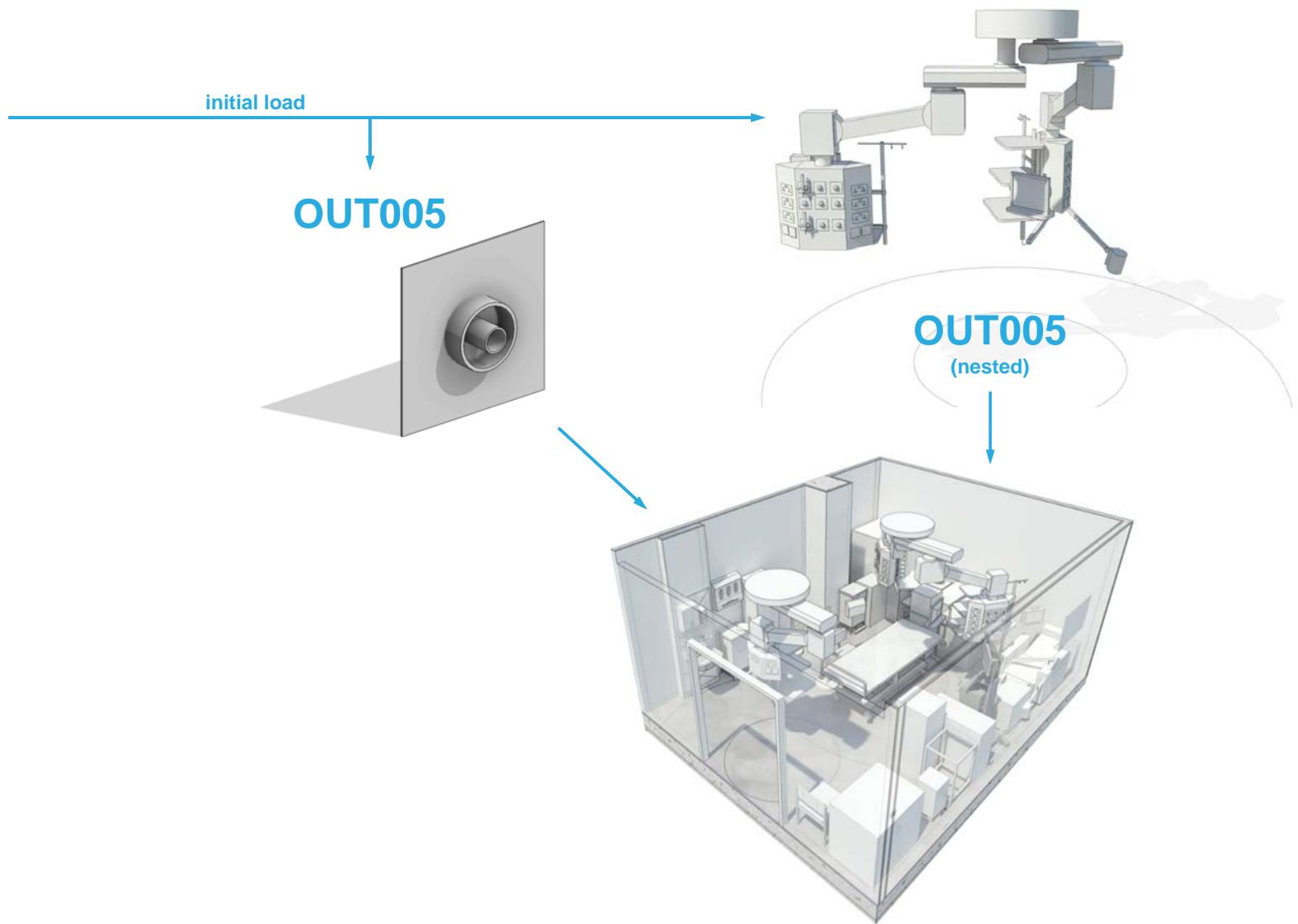
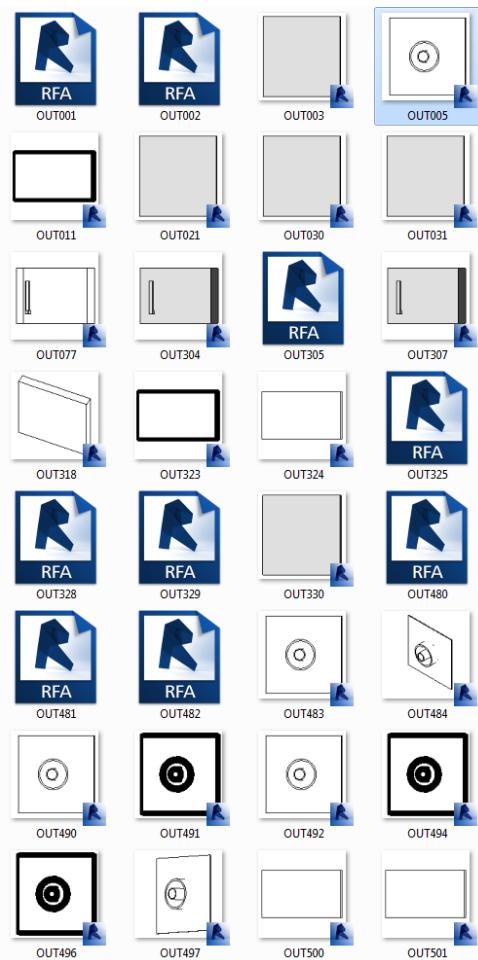


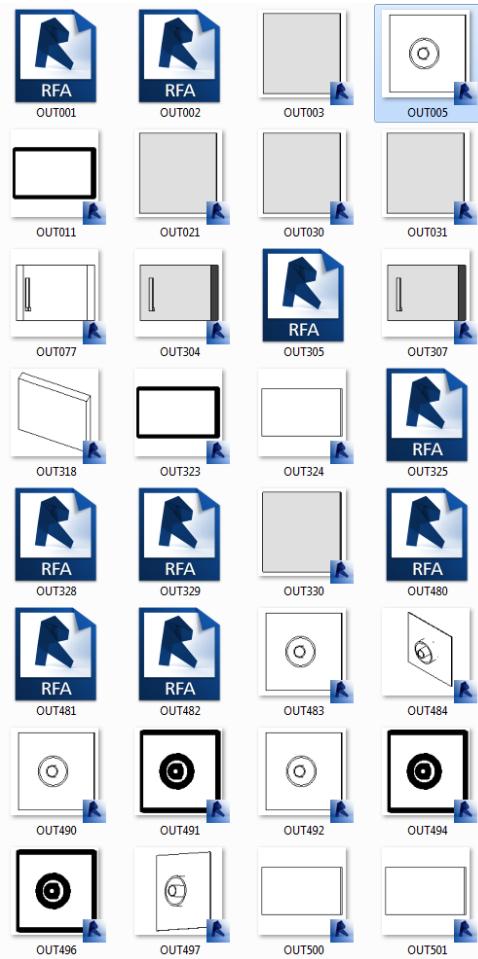
The Problem with... Linked Rooms



Qty	Code	Description	--	Group
17	CHT102	CHAIR; task; adjustable arms		84
2	DSK122	DESK; double; 6 Person; 4800mm (width) x 1600mm (depth) x 730mm (height)		84
1	DSK110	DESK; Single Bench; 1 Person; 1600x800mm		84
1	DSK119	DESK; single side; 4 Person; 6400mm (width) x 800mm (depth) x 730mm (height)		84
17	ACO122	LIGHT; task; desk clamp		84
17	ACO110	MONITOR ARM; clamp; single		84
17	ACO125	MONITOR; with keyboard; destop		84
17	WST104	WASTE BIN; office desk		84
7	SLO130	STORAGE; 1 unit (3 linear metres); 3 draws		85
1	SCO130	STORAGE; coat		85
17	STP100	STORAGE; pedestal		85

The Problem with... Revit Families

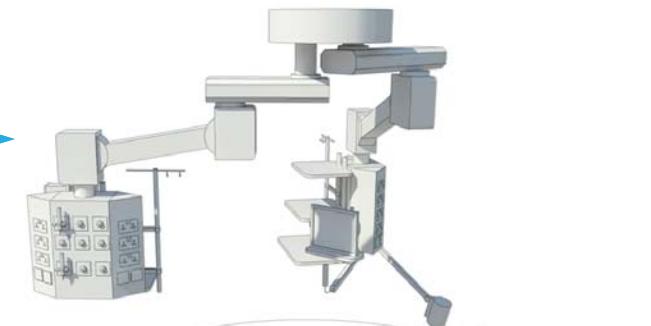
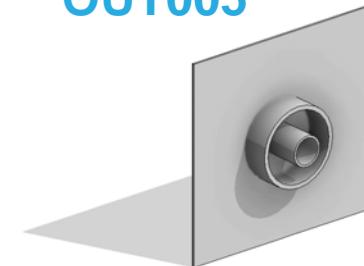




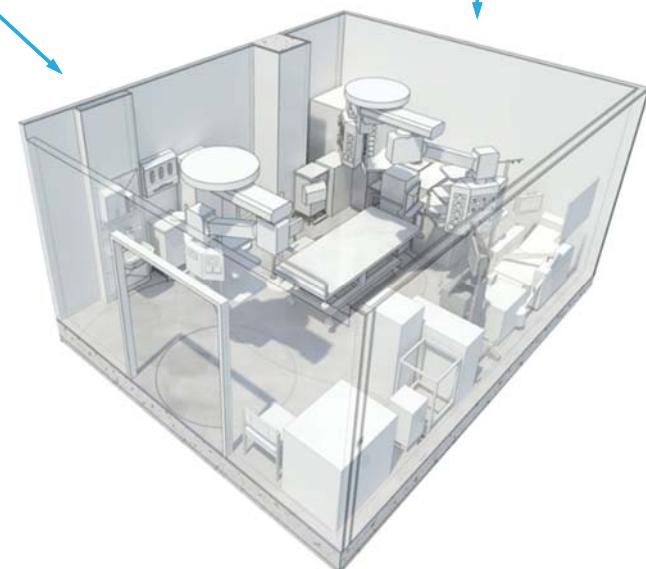
initial load

OUT005

edit & reload



OUT005
(nested)



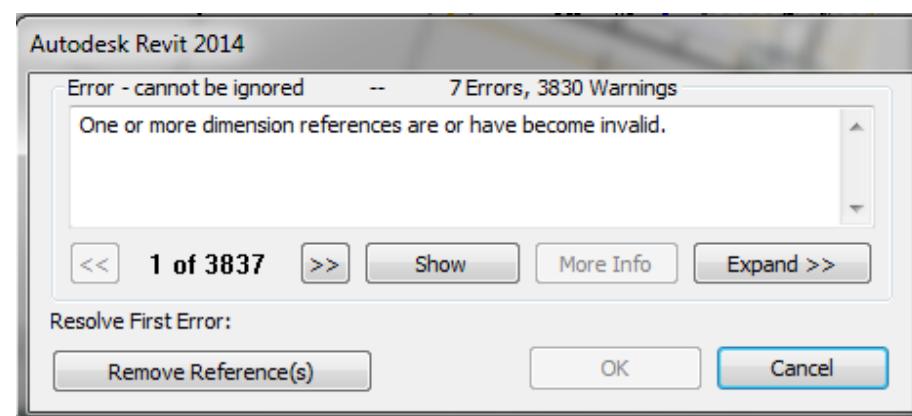
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OUT001
  OUT2
    OUT005
    OUT005 2
  OUT002
  OUT005
    OUT005
  OUT011
  OUT021
  OUT030
  OUT031
  OUT077
```



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The Problem with... Container Files



\\LN-SFS6\\.....

vs

L:\\.....



Stage 4: Technical Design



RTV Drawing Manager 2014

Home Project Settings My Settings

New Edit Delete Insert Export Work Package Import Sync Project

Tag Clouds Remove Link Issue History Transmittal Report Save Set Delete Set Export Set

Enter a sheet set name Create Revit Print Sheet Set

Sheets Revisions Sheet Sets

Revit Sheets External Documents Revit Views Work Packages

Project Sheets: Total = 412 Filter Total = 64 Selection Total = 0

Stage 2

Drag a column header here to group by that column

	Project	Originator	Volume	Level	File Type	Discipline	CI/SFB	Document ...	Scale	Number	Revision	Sheet Name
CB005	BDP	XX	L00	DR	A	20	1	2		00	P11	Energy Centre GA Plan - Ground Floor
CB005	BDP	XX	L00	DR	A	20	1	2		01	P02	Energy Centre - CDM Residual Risk - Ground Floor
CB005	BDP	XX	L00	DR	A	20	1	3		00	P05	Energy Centre Ground Floor - GA Plan - Setting out
CB005	BDP	XX	L00	DR	A	20	1	7		01	P03	Energy Centre GA Plan - Ground Floor - Toilet Core
CB005	BDP	XX	L10	DR	A	20	1	2		10	P10	Energy Centre GA Plan - First Floor
CB005	BDP	XX	L10	DR	A	20	1	2		11	P02	Energy Centre - CDM Residual Risk - First Floor
CB005	BDP	XX	L10	DR	A	20	1	3		10	P05	Energy Centre First Floor - GA Plan - Setting out
CB005	BDP	XX	L10	DR	A	20	1	7		02	P03	Energy Centre GA Plan - First Floor - Toilet Core
CB005	BDP	XX	L10	DR	A	20	1	7		03	P01	Layouts Placeholder First Floor
CB005	BDP	XX	L20	DR	A	20	1	2		20	P10	Energy Centre GA Plan - Second Floor
CB005	BDP	XX	L20	DR	A	20	1	2		21	P02	Energy Centre - CDM Residual Risk - Second Floor
CB005	BDP	XX	L20	DR	A	20	1	3		20	P05	Energy Centre Second Floor - GA Plan - Setting out
CB005	BDP	XX	L30	DR	A	20	1	2		30	P11	Energy Centre GA Plan - Third Floor
CB005	BDP	XX	L30	DR	A	20	1	2		31	P02	Energy Centre - CDM Residual Risk - Third Floor
CB005	BDP	XX	L30	DR	A	20	1	3		30	P03	Energy Centre Third Floor - GA Plan - Setting out
CB005	BDP	XX	R00	DR	A	20	1	2		40	P11	Energy Centre GA Plan - Roof
CB005	BDP	XX	R00	DR	A	20	1	2		41	P02	Energy Centre - CDM Residual Risk - Roof
CB005	BDP	XX	R00	DR	A	20	1	3		40	P03	Energy Centre Roof - GA Plan - Setting out
CB005	BDP	XX	XXX	DR	A	20	1	2		01	P01	Energy Centre - Building Information Model

Starts with([CI/SFB], '20')

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Project Configuration

Issue Stamp Task Templates Project Status External Doc Type Issues Template

Numbering Format User Meta Data Parameters Titleblocks Revisions

Sheet Number Format

Column Name Enabled

Project Prefix / Suffix Parameters Name: Project Length: 5 Delimiter: - Limit to Lookup Values

Originator Volume

Level

File Type Discipline CI/SFB

Document Type Scale Prefix10

Number Suffix1

Number Suffix2

Number Suffix3

Lookup Values / Description

Project

Lookup Value Description

CB000 Masterplan Import

CB001 R&D Building Add

CB002 R&D Support Building

CB005 Energy Centre Delete

Limit to Lookup Values Optional Excluded from Revit Sheet Number

Leading Zero Enable

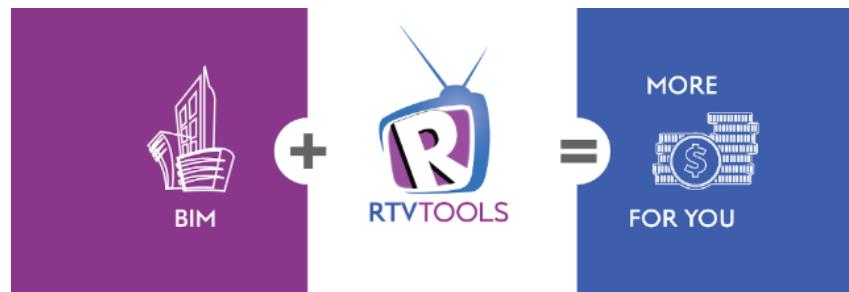
Auto Increment New Sheet Separator: / Date Format: dd/MM/yyyy OK Cancel

XXXXXX-XXXX-XX-XXXX-XX-X-XXXX01



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**1 project, 1 month:
572 Drawings issued,
25 hours saved.**

\$250 software.

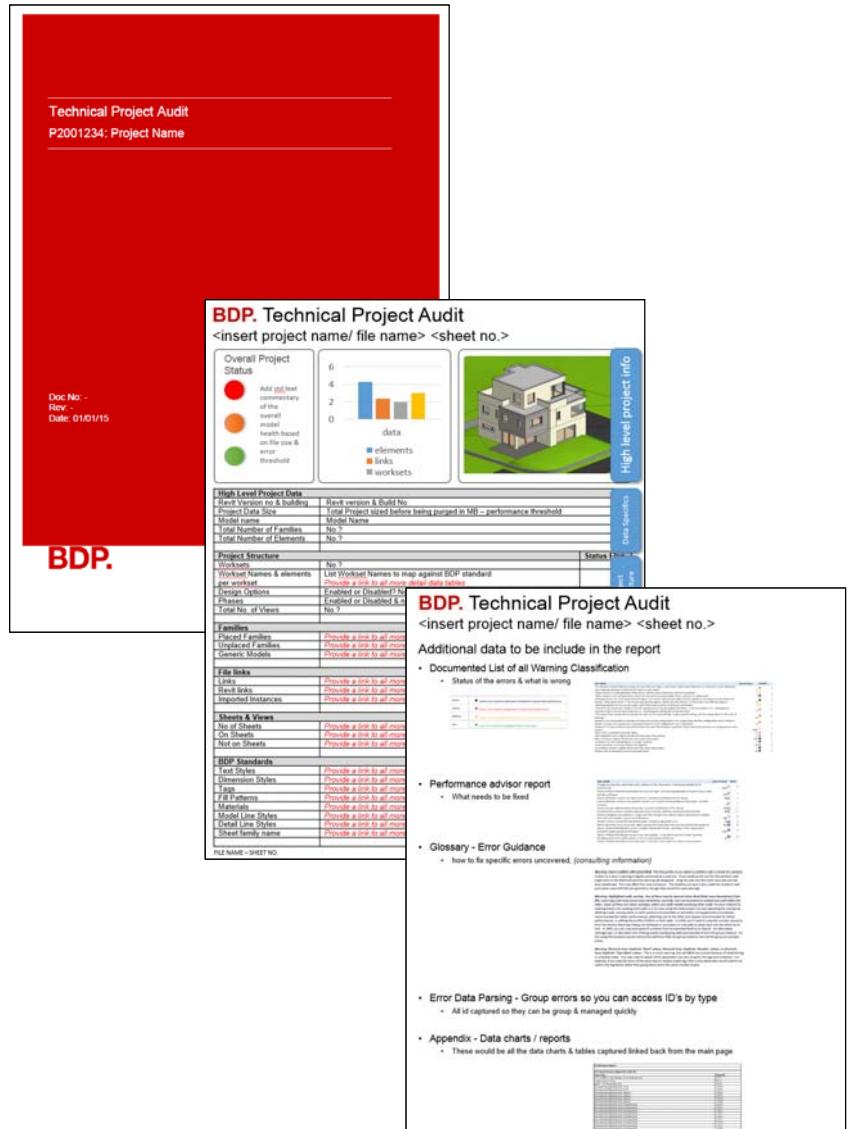
Verification



AUTODESK
REVIT



Dynamo



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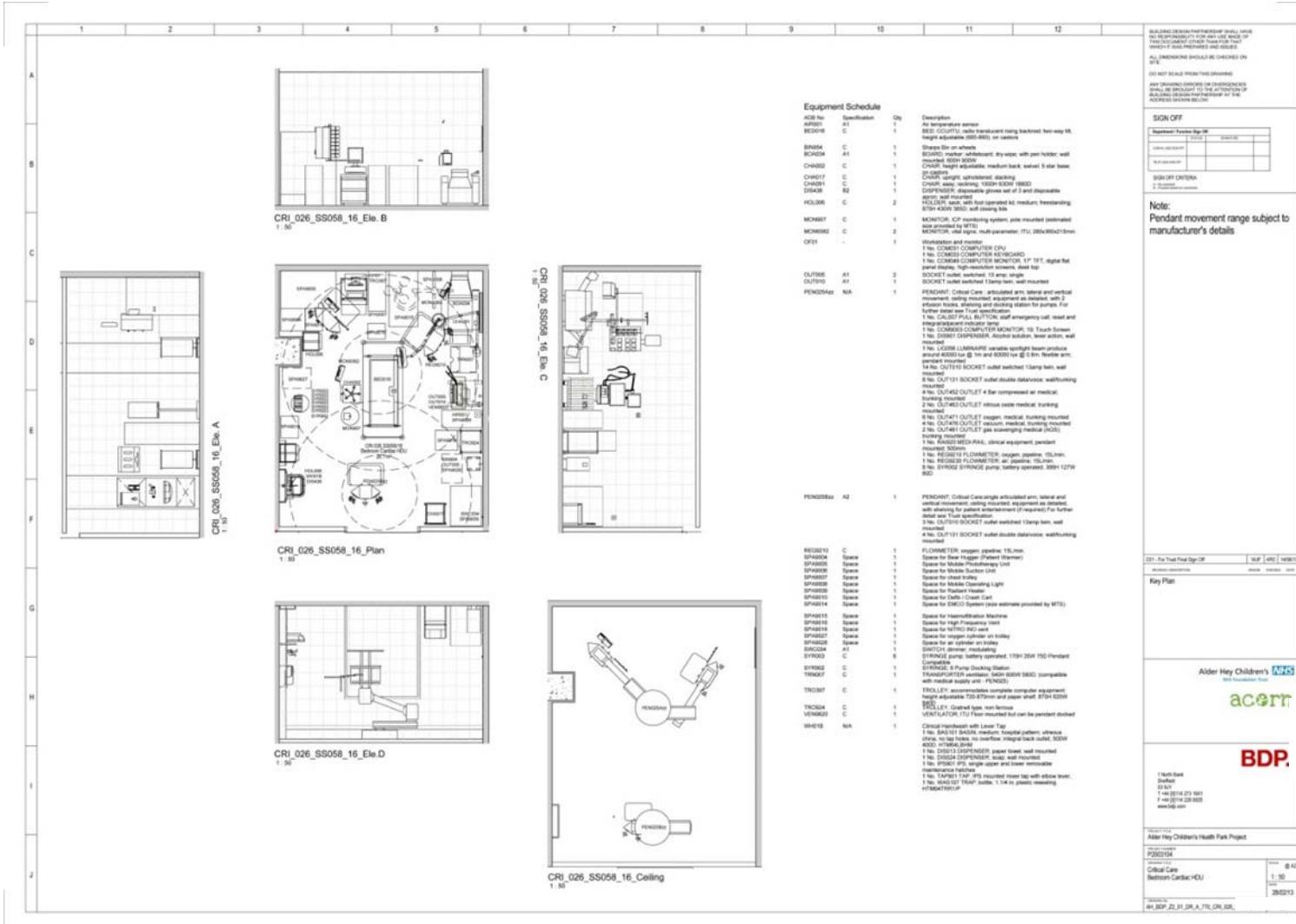


CodeBook



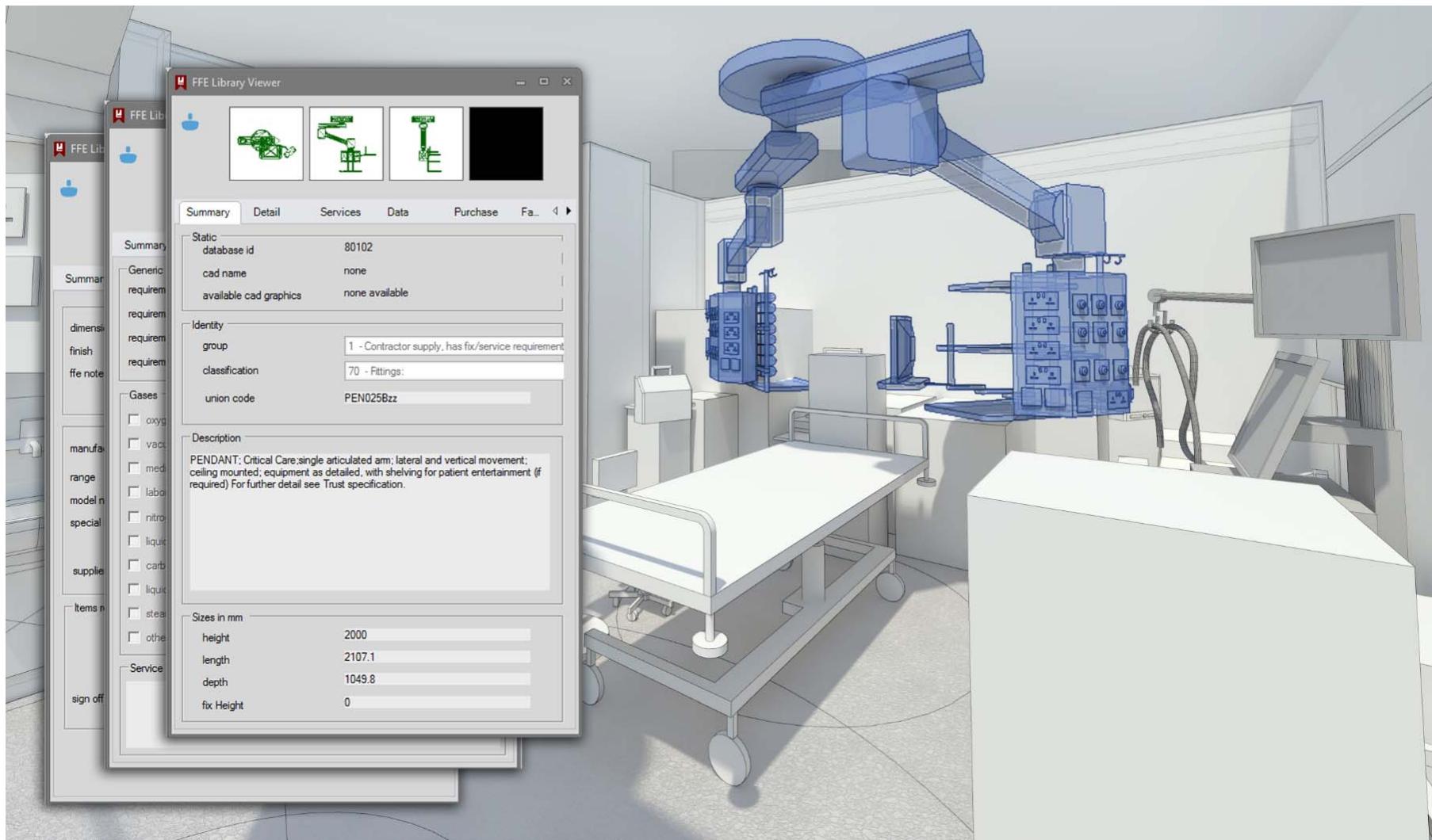
AUTODESK UNIVERSITY 2015

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Design Notes: Changes to OS document for details of LG Deviations from Output Spec' document for details																																																																																																																																						
Adjacencies: Should allow good observation of the areas in which it is being used (i.e. waiting areas; clinical rooms) as appropriate																																																																																																																																						
Windows: Windows Type (HTM 55) N/A or clear; solar control Spec. - External: external glazing 8 & 1100 with document reference D2.8f Finishes statement & D2.7f Glazing strategy Internal Glazing (HTM 57) N/A Spec. - Internal: internal glazing Solar Control Type (HTM 58) N/A Doorsets: Refer to document reference D2.8f Kit of parts/Assemblies Fire: Fire Enclosure the actual room fire rating may result in a different fire rating depending on the adjacent room(s); refer to the fire strategy drawings ref:																																																																																																																																						







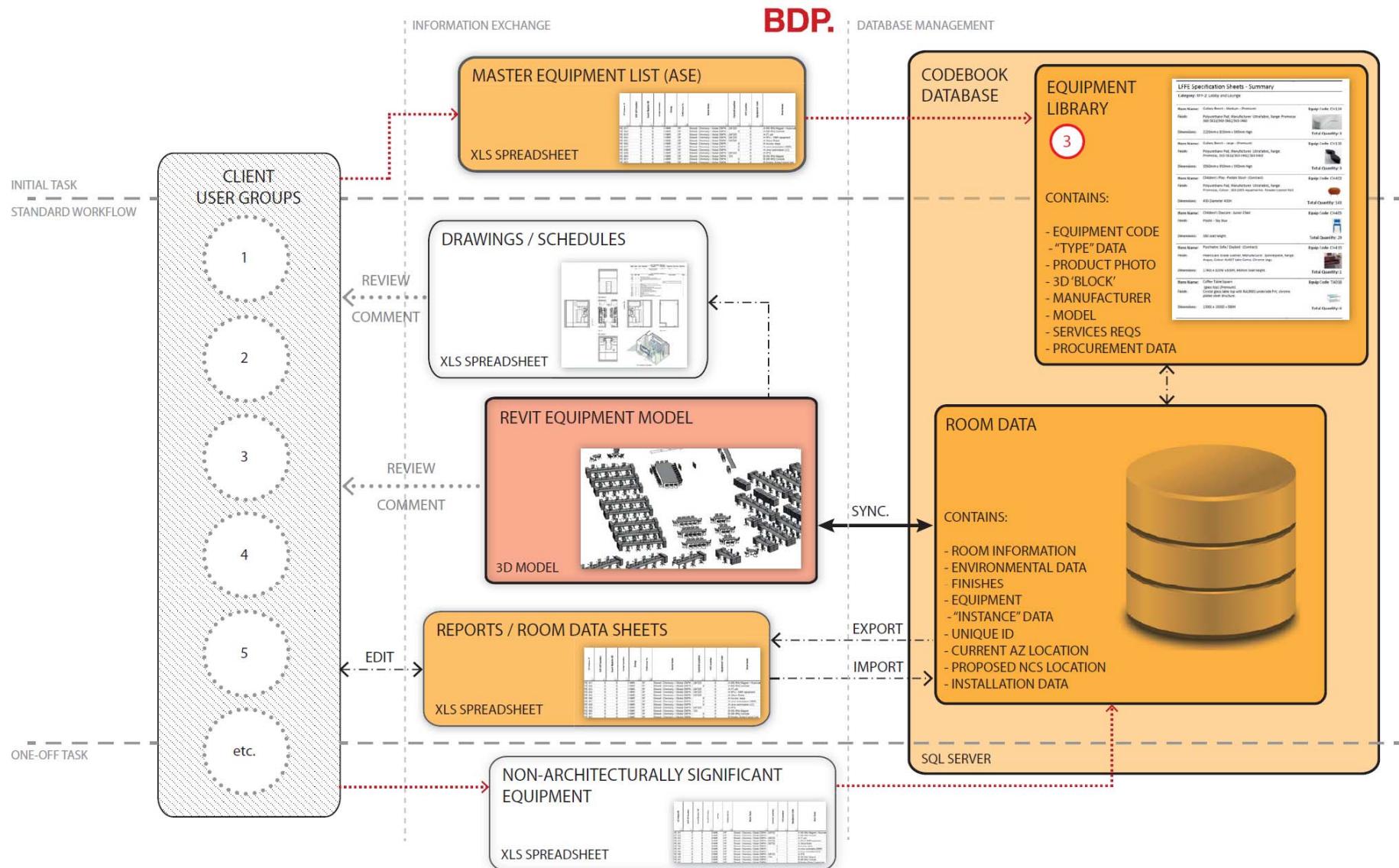
ASE

‘Architecturally Significant Equipment’

- 1. Architectural Significance > 750mm**
- 2. Servicing Requirement > Typical Provision**
- 3. Structural Significance > Designed Loads**



14'529 Specialist Equipment Items
42% 'ASE', 58% 'Non-ASE'





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Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer	ModelNumber	WarrantyGuarantorParts	WarrantyGuarantorLabor	WarrantyDurationParts	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem
ALA026	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	FIRE ALARM break glass; push button release	fixed	-	-	-	-	-	-	-	CodeBook
DSK129	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	NOT EWT; - DESK	fixed	-	-	-	-	-	-	-	CodeBook
U_SED011	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Service dado for 1800mm bench incl. Power and data; bench mounted.	fixed	-	-	-	-	-	-	-	CodeBook
DET004	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	DETECTOR smoke; 430 to 470Hz	fixed	-	-	-	-	-	-	-	CodeBook
MSC160	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	SAFETY CABINET; CLASS II RECIRC; SAFETY CABINET	fixed	-	-	-	-	-	-	-	CodeBook
BEN008	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Laboratory bench; 750mm (depth) x 450mm (wide) x 910mm (height)	fixed	-	-	-	-	-	-	-	CodeBook
VEN008	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	IVC Rack and 70 Cages; STANDARD; VENTILATED ENCLOSURE	fixed	-	-	-	-	-	-	-	CodeBook
BIN108	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	Diet bin; BIN; STORAGE	fixed	-	-	-	-	-	-	-	CodeBook
SET001	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Service trunking 1000mm; wall mounted	fixed	-	-	-	-	-	-	-	CodeBook
GRI900	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	GRILL; Extract grill	fixed	-	-	-	-	-	-	-	CodeBook
U_SEP020	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Service Pod + Receiver plate for IVCs Greenline incl. power; data; CO2; Corg; and AGS; hi	fixed	-	-	-	-	-	-	-	CodeBook
U_SER004	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Power cable; data cable; CO2; Corg; and AGS; hi	fixed	-	-	-	-	-	-	-	CodeBook
U_SER003	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Power cable; data cable; CO2; Corg; and AGS; hi	fixed	-	-	-	-	-	-	-	CodeBook
U_SEP010	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Service pod for Microbiological Safety Cabinets incl. power; data; Vacumm; Compressed air; hi	fixed	-	-	-	-	-	-	-	CodeBook
U_HYG002	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Hygiene WHB; IPS wall mounted; left hand	fixed	-	-	-	-	-	-	-	CodeBook
U_SET020	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Vertical Service Trunking; Power; Head; and Front	fixed	-	-	-	-	-	-	-	CodeBook
U_HYG001	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Hygiene WHB; IPS wall mounted; left hand	fixed	-	-	-	-	-	-	-	CodeBook
BEN001	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Laboratory bench; 900mm (depth) x 1800mm (wide) x 910mm (height)	fixed	-	-	-	-	-	-	-	CodeBook
BEN002	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Laboratory bench; 900mm (depth) x 1500mm (wide) x 910mm (height)	fixed	-	-	-	-	-	-	-	CodeBook
VEN006	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Equipment	IVC Double Deck Rack and 16 Cages; STANDARD; VENTILATED ENCLOSURE	fixed	-	-	-	-	-	-	-	CodeBook
SUR003	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	Anaesthesia And Scavenging; ANAESTHESIA; Surgical Device	fixed	-	-	-	-	-	-	-	CodeBook
U_SED020	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Service dado for 1500mm bench incl. power and data; bench mounted.	fixed	-	-	-	-	-	-	-	CodeBook
U_SED010	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Service dado for 1800mm bench incl. power; data; Vacumm; Compressed air; CO2 and Nitro	fixed	-	-	-	-	-	-	-	CodeBook
MSC157	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	Portable VHP Unit; CONTAINMENT; SAFETY CABINET	fixed	-	-	-	-	-	-	-	CodeBook
MSC161	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	VHP Aeration Unit; CONTAINMENT; SAFETY CABINET	fixed	-	-	-	-	-	-	-	CodeBook
CYL004	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	Helium Cylinders - mobile; GAS CYLINDER; ANCILLARY	fixed	-	-	-	-	-	-	-	CodeBook
SNK003	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Laboratory sink; left hand drainer; 750mm (depth) x 1500mm (wide); bench mounted with	fixed	-	-	-	-	-	-	-	CodeBook
BEN005	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Laboratory bench; 750mm (depth) x 1500mm (wide) x 910mm (height)	fixed	-	-	-	-	-	-	-	CodeBook
STO010	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Unberbench storage unit; 500mm wide x 600mm deep	fixed	-	-	-	-	-	-	-	CodeBook
BEN003	test@bdp.com	2015-11-18T15:14:00-05:00	Fittings: General Laboratory	Laboratory bench; 900mm (depth) x 1200mm (wide) x 910mm (height)	fixed	-	-	-	-	-	-	-	CodeBook
FCA012	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	FUME CUPBOARD; STANDARD; Fume Cupboard	fixed	-	-	-	-	-	-	-	CodeBook
LSF001	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	REFRIGERATION; FREEZER / -20; Lead Shielded Freezer -20	fixed	-	-	-	-	-	-	-	CodeBook
DDT003	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	VENTILATED ENCLOSURE; STANDARD; Downflow table	fixed	-	-	-	-	-	-	-	CodeBook
DDT005	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	VENTILATED ENCLOSURE; STANDARD; Downflow table	fixed	-	-	-	-	-	-	-	CodeBook
VET002	test@bdp.com	2015-11-18T15:14:00-05:00	Services: Mechanical / Electrical	Ventilation Duct	fixed	-	-	-	-	-	-	-	CodeBook
ER707A	test@bdp.com	2015-11-18T15:14:00-05:00	Architecturally Significant Equipment	REFRIGERATION; REFRIGERATOR; Freezer -80	fixed	-	-	-	-	-	-	-	CodeBook

75'169 Components Placed
A/I/F&E & MEP Terminals



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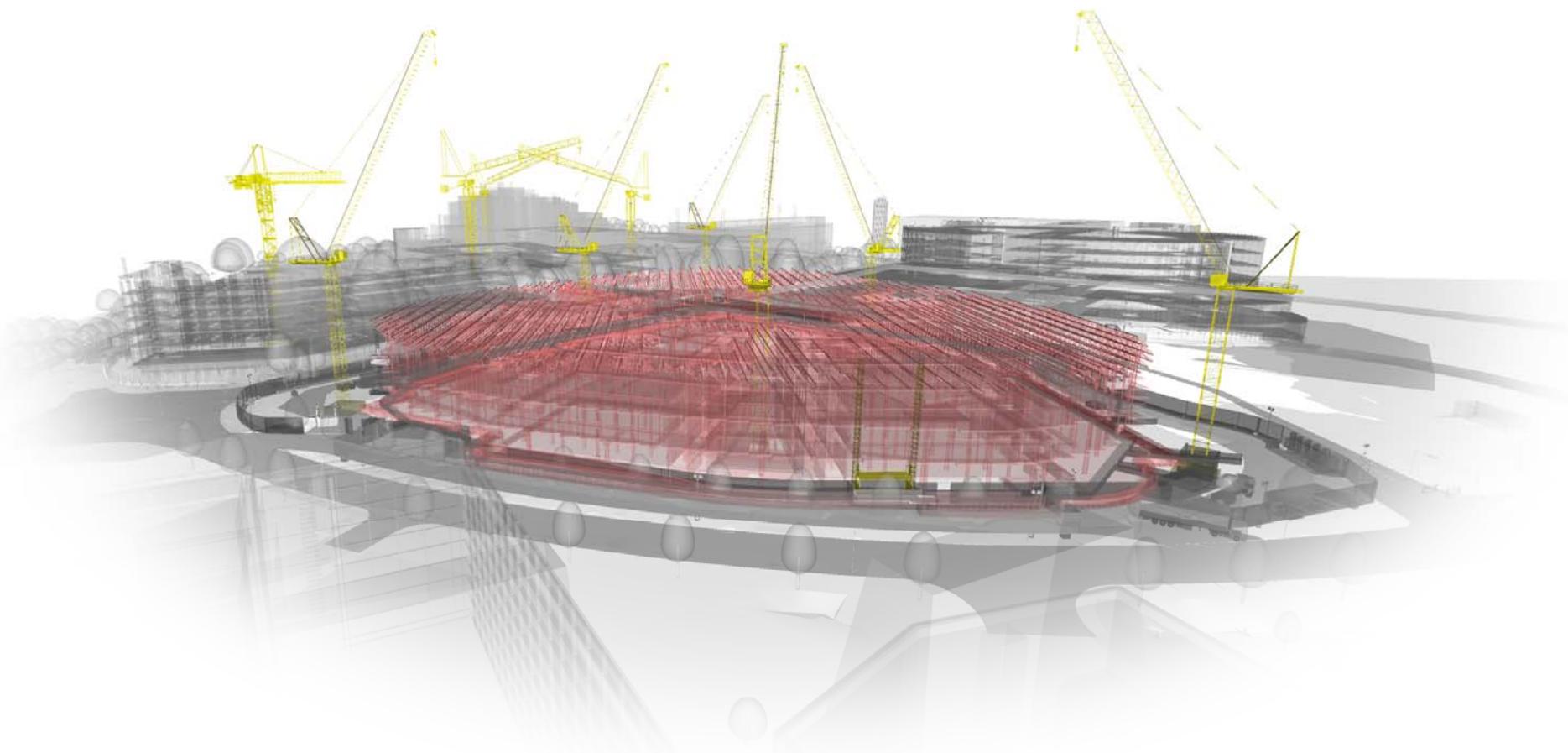
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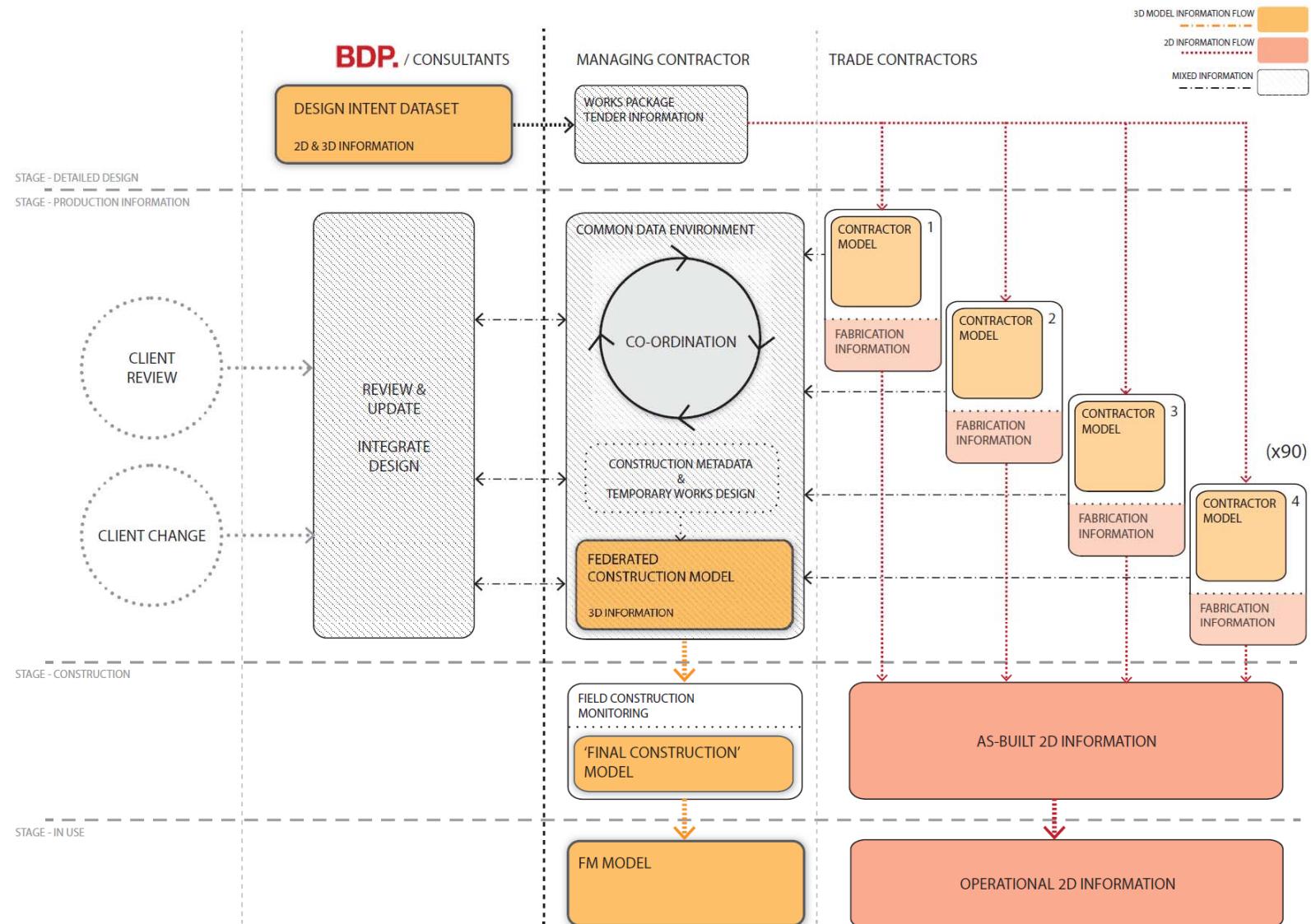


Stage 5: Construction

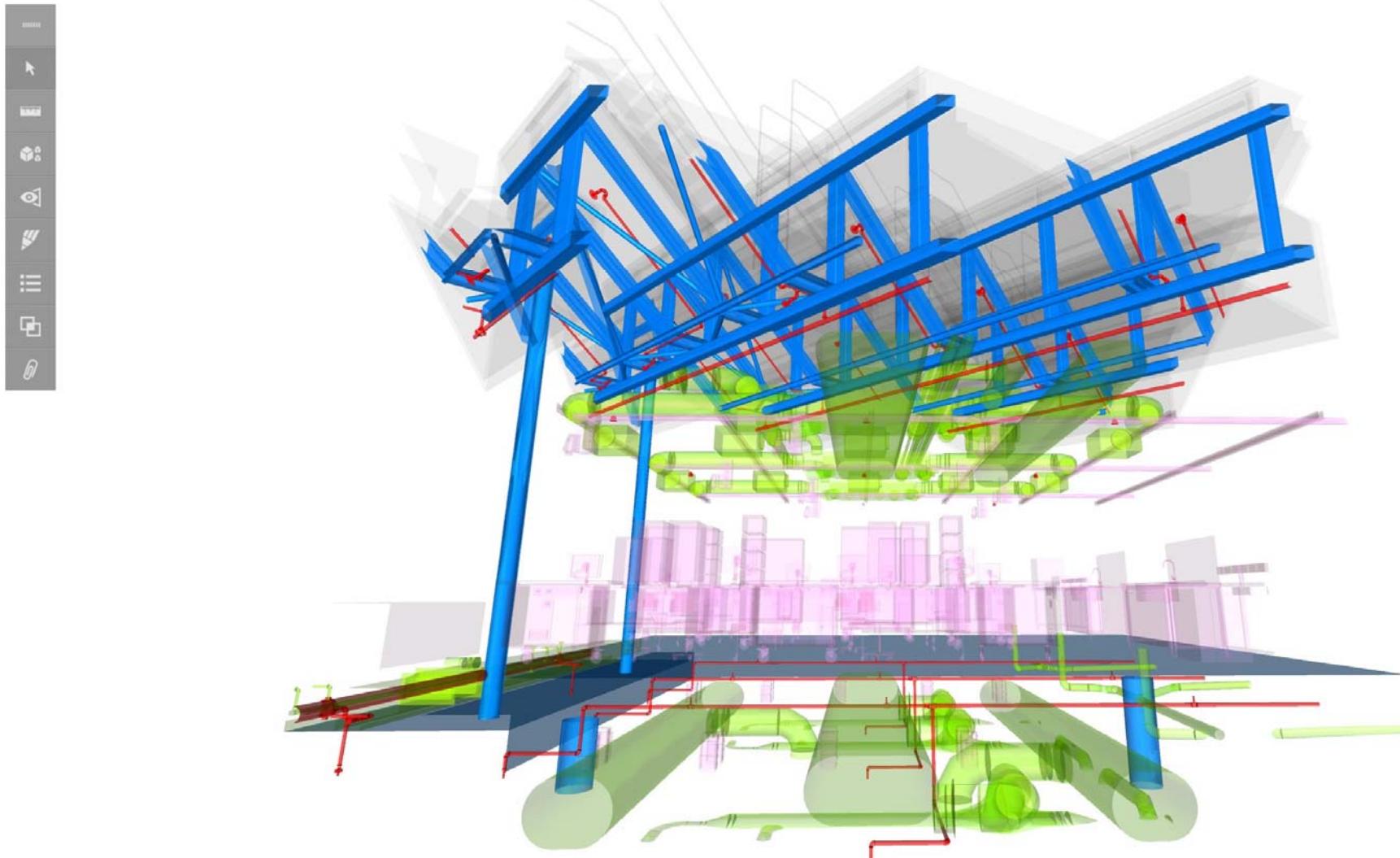


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AUTODESK® BIM 360™ GLUE®



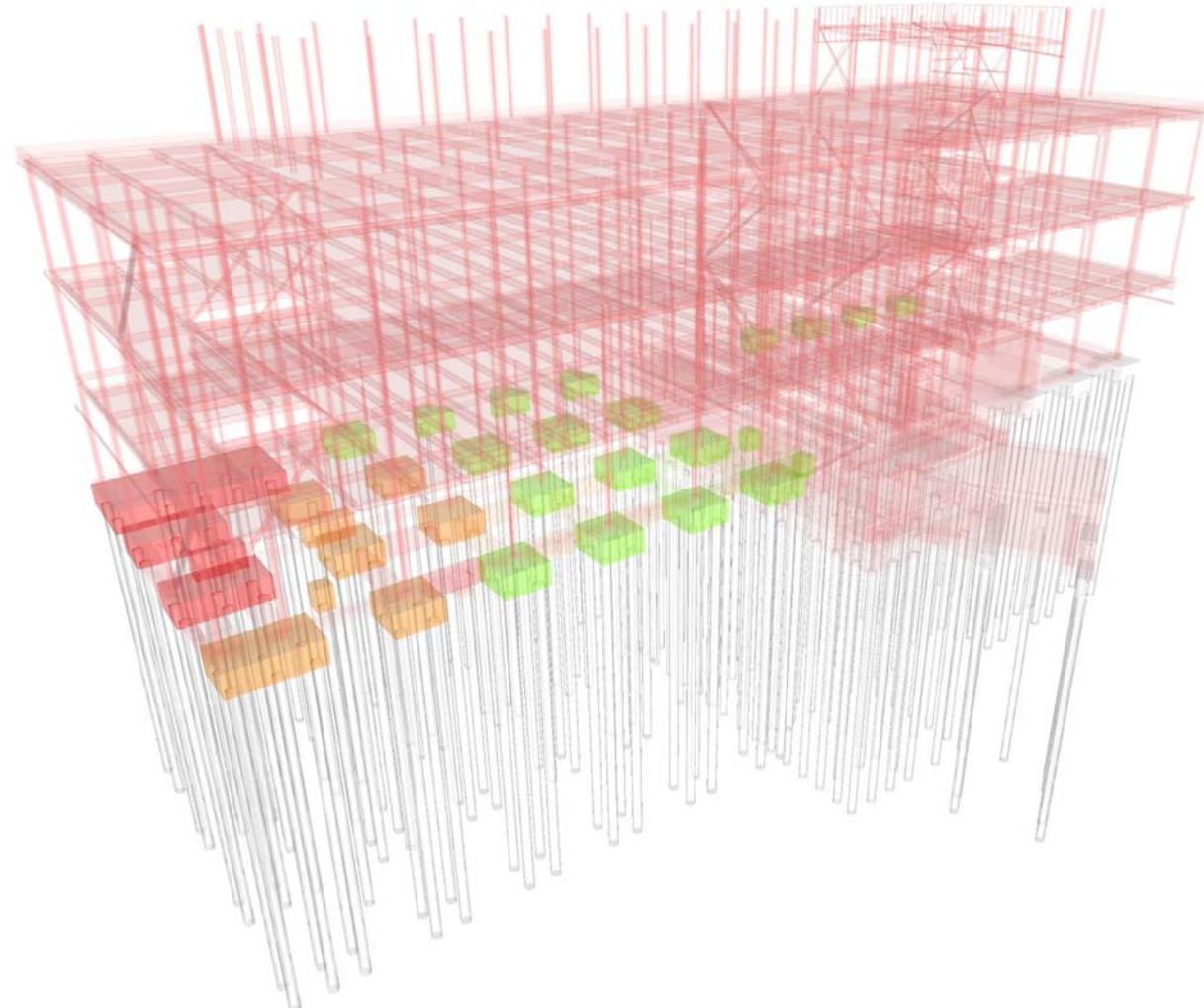
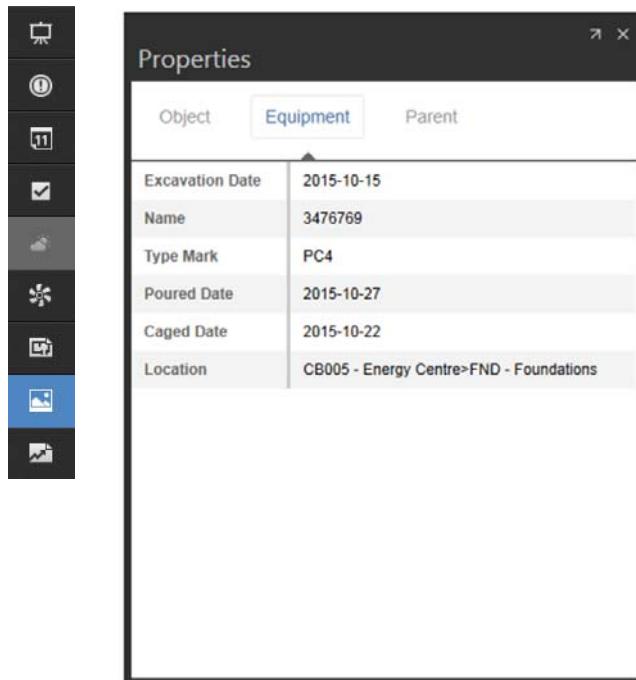
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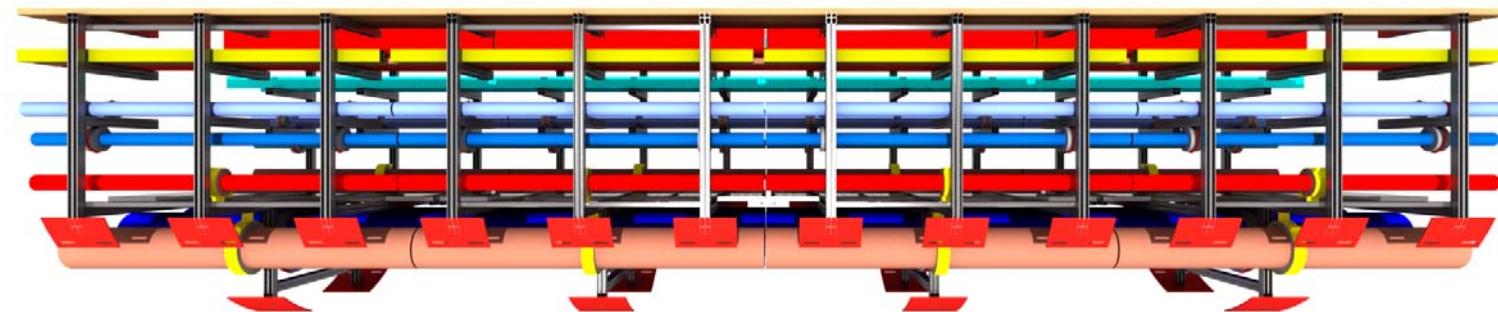
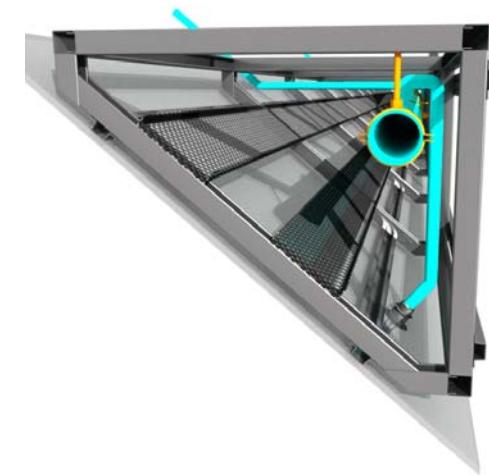
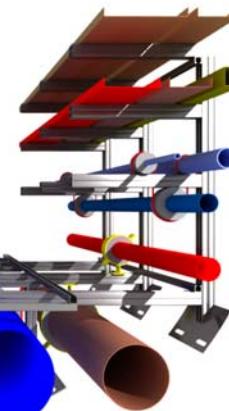
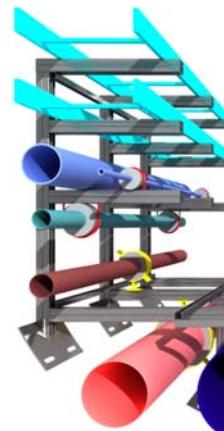
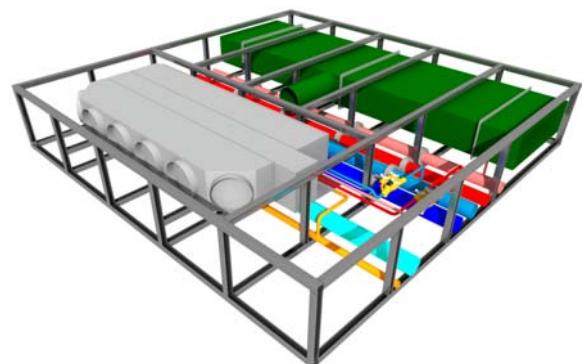
AUTODESK® BIM 360™ FIELD

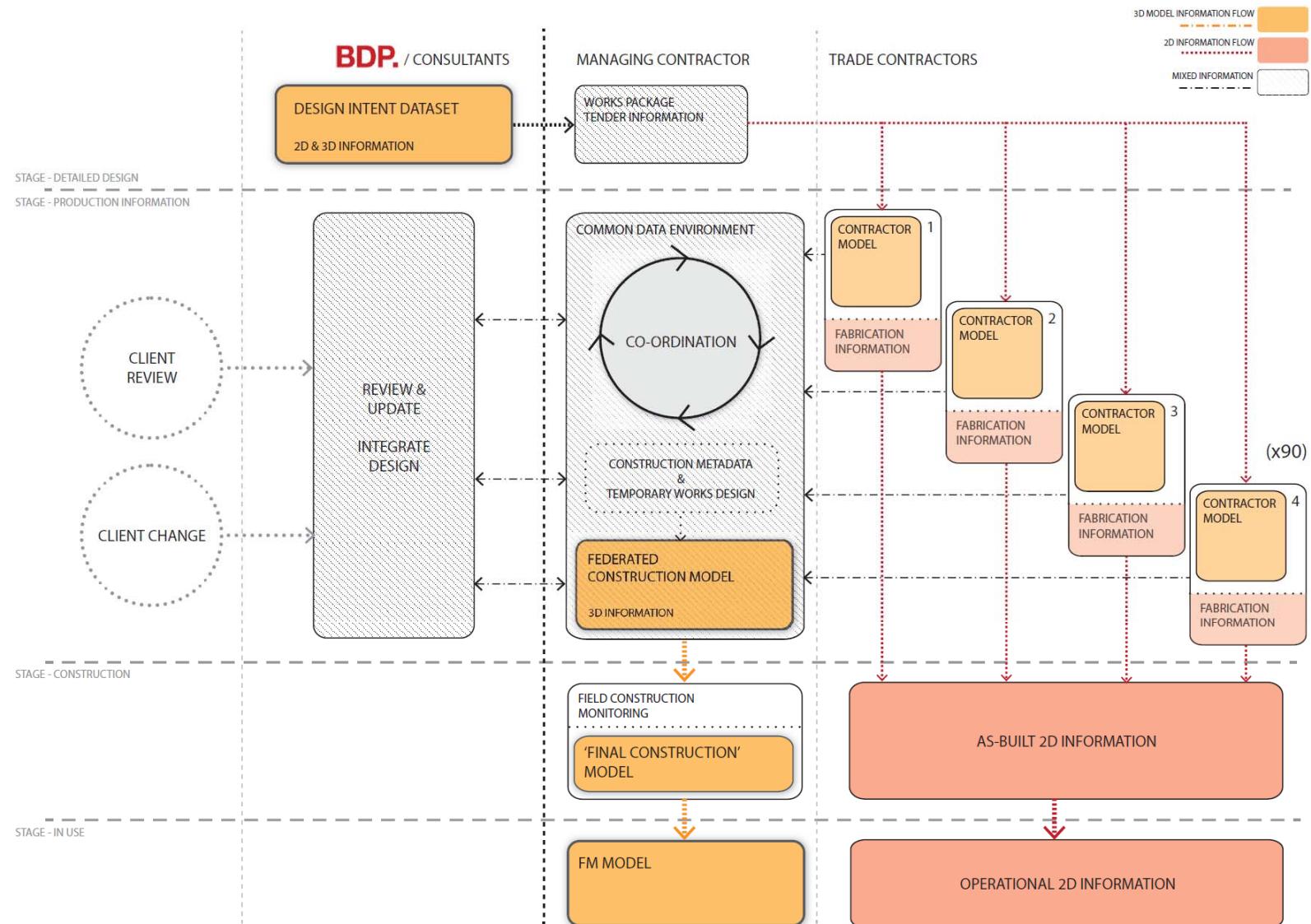


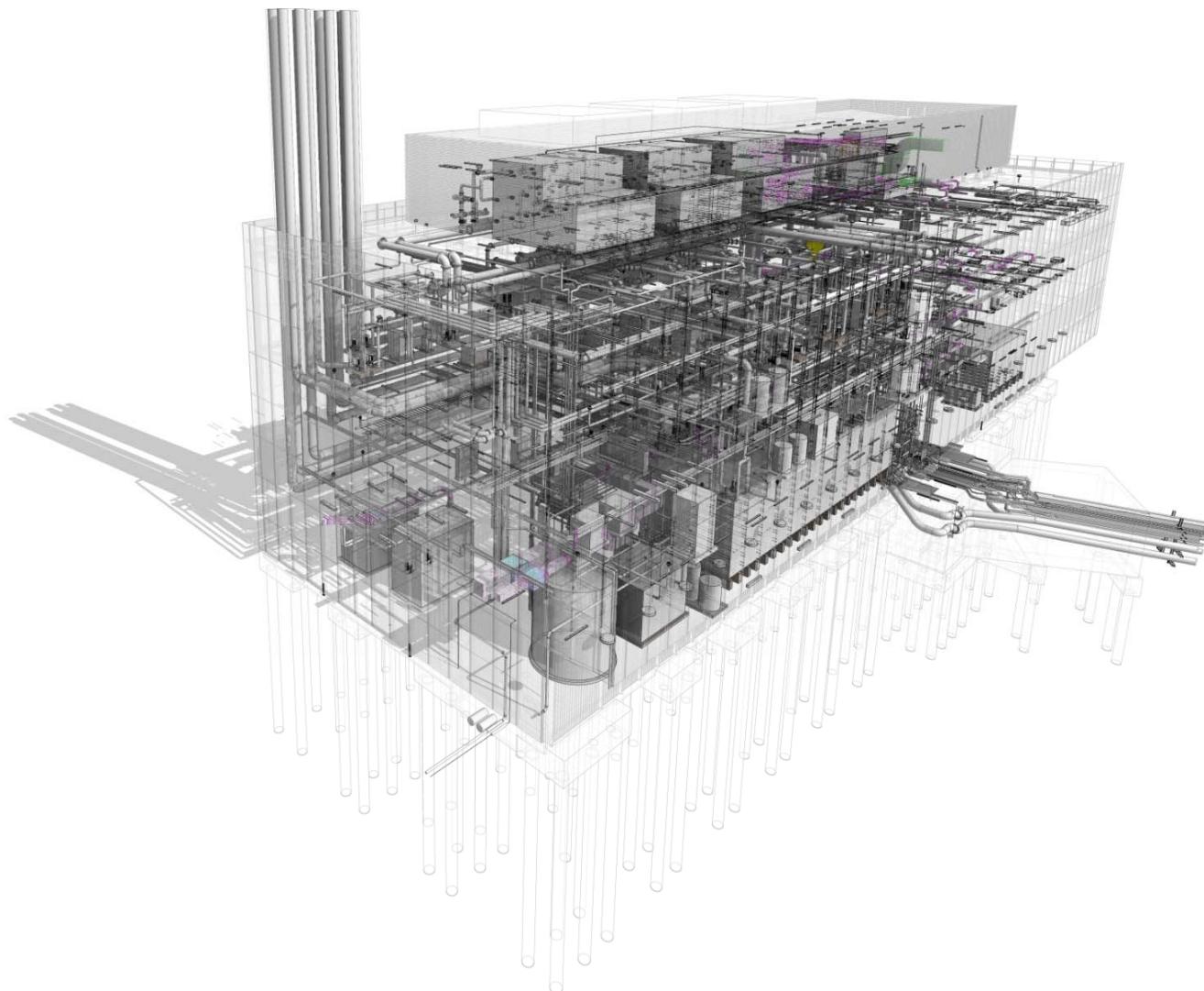
AUTODESK® BIM 360™ FIELD



The Problem with... Interoperability









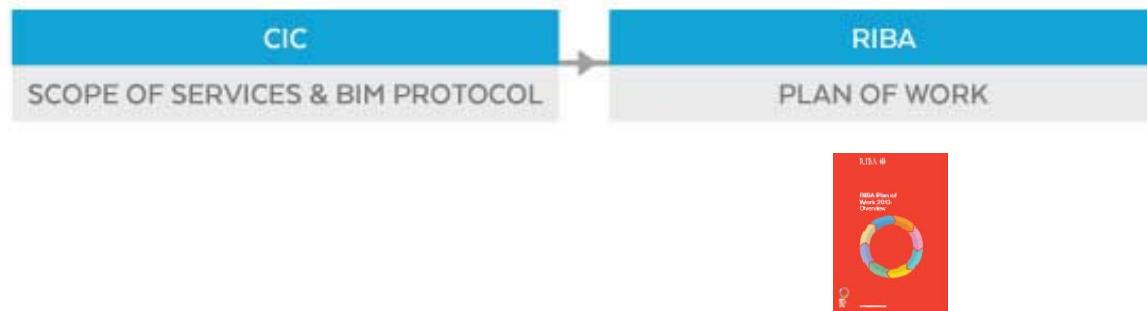
Summary: The Future of 'Success'

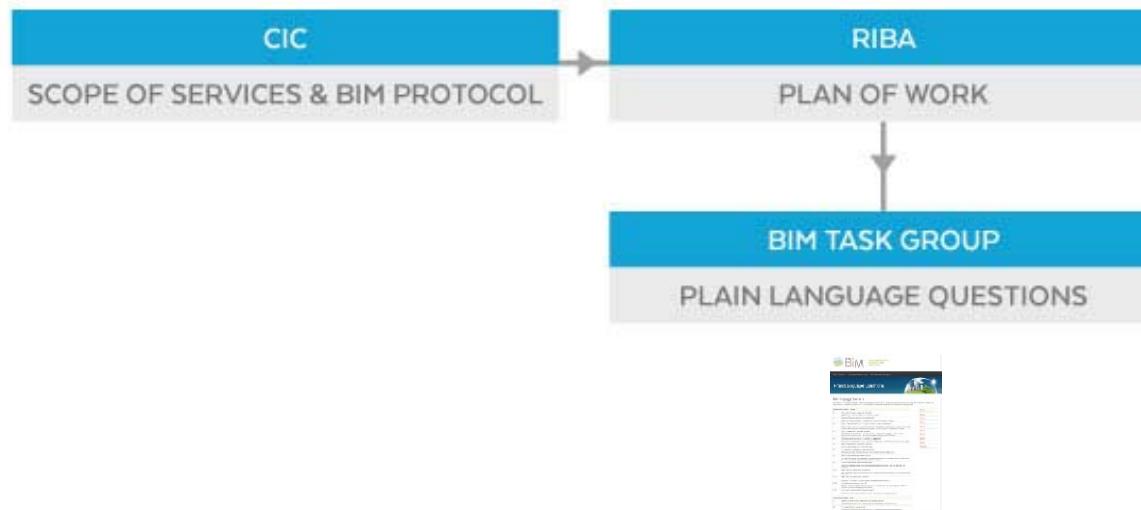


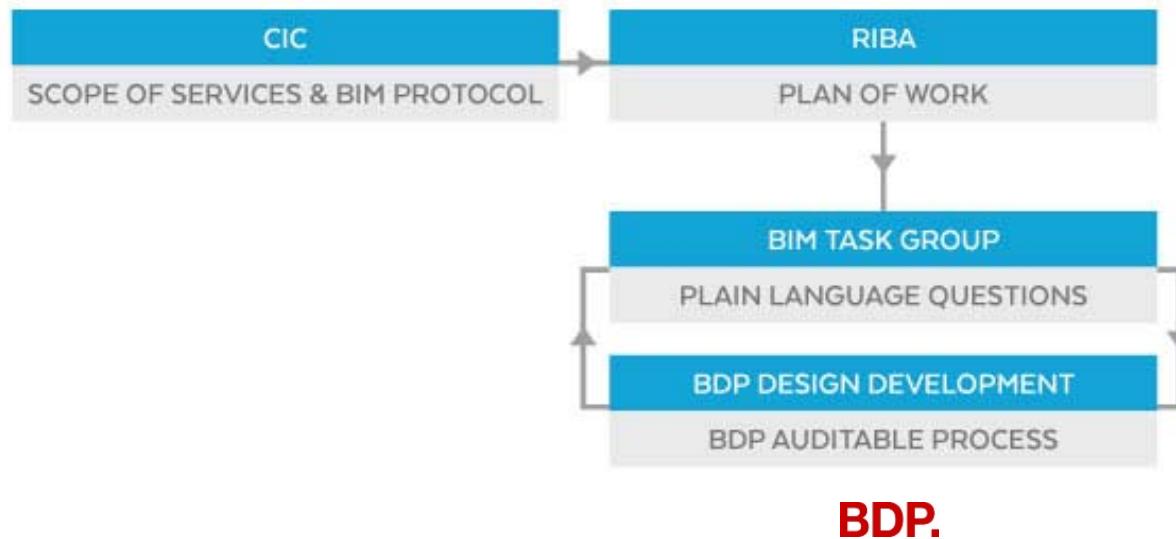
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SCOPE OF SERVICES & BIM PROTOCOL

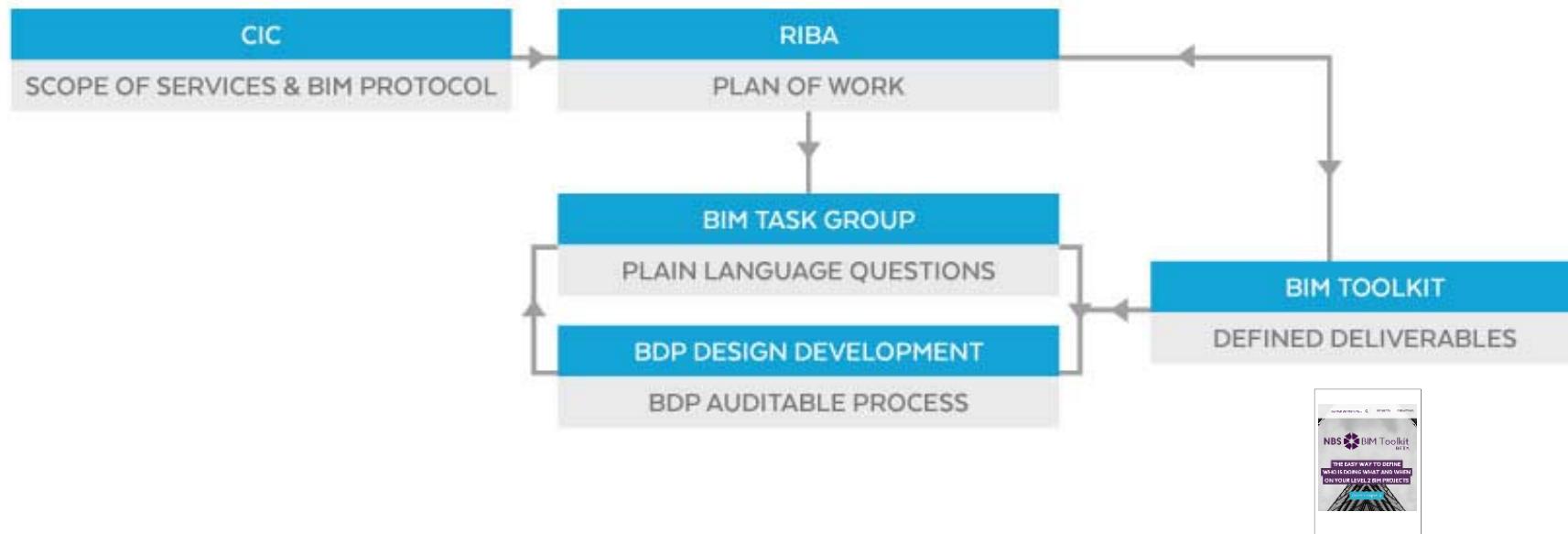


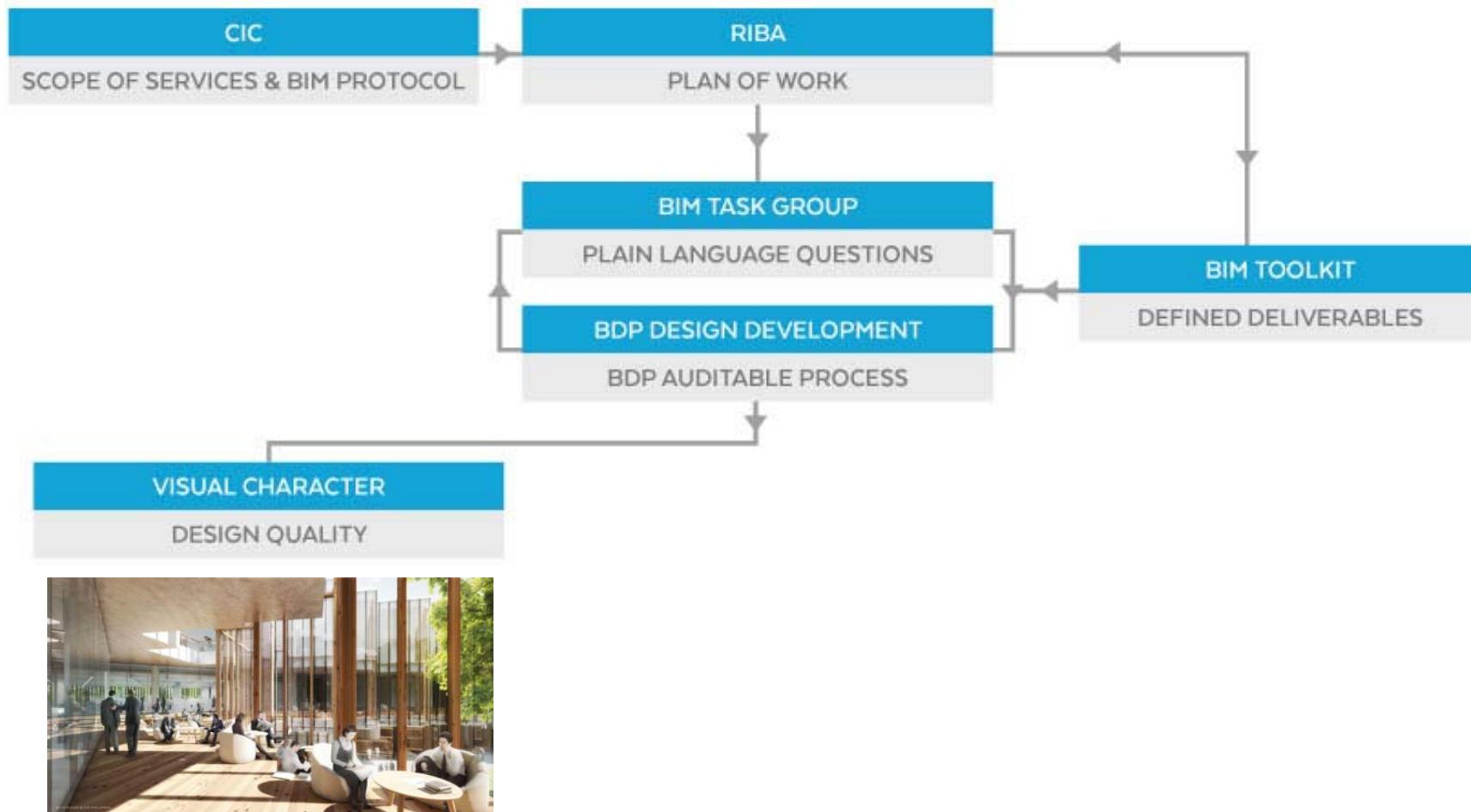


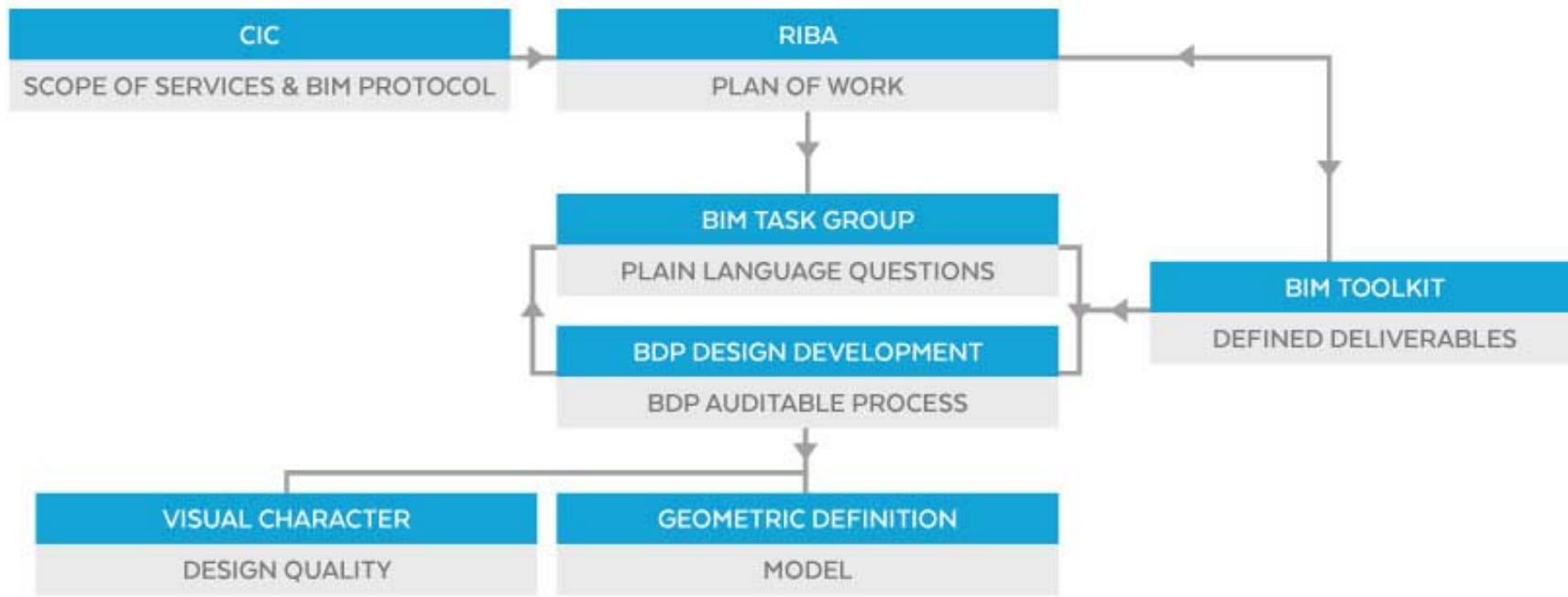


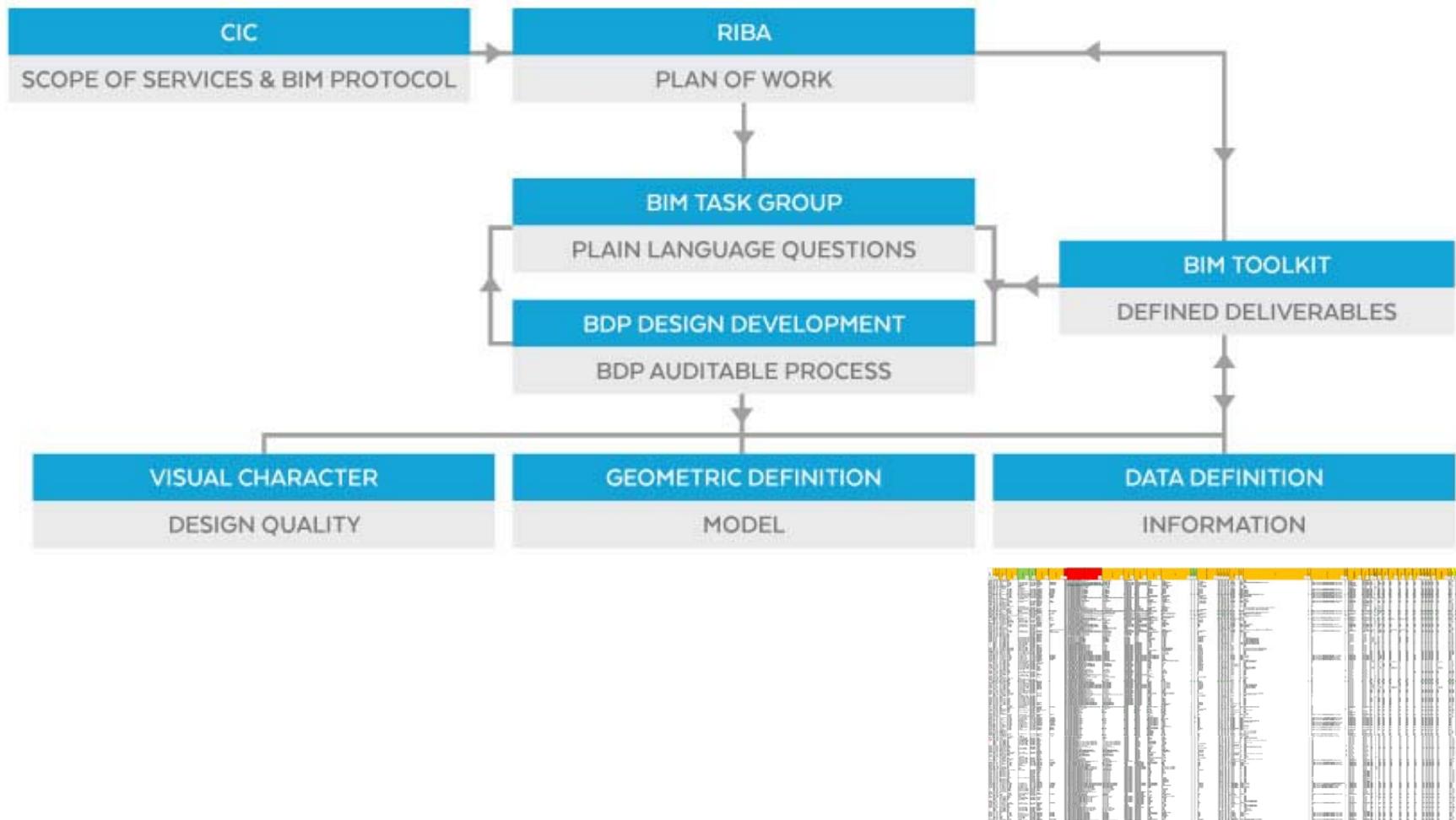


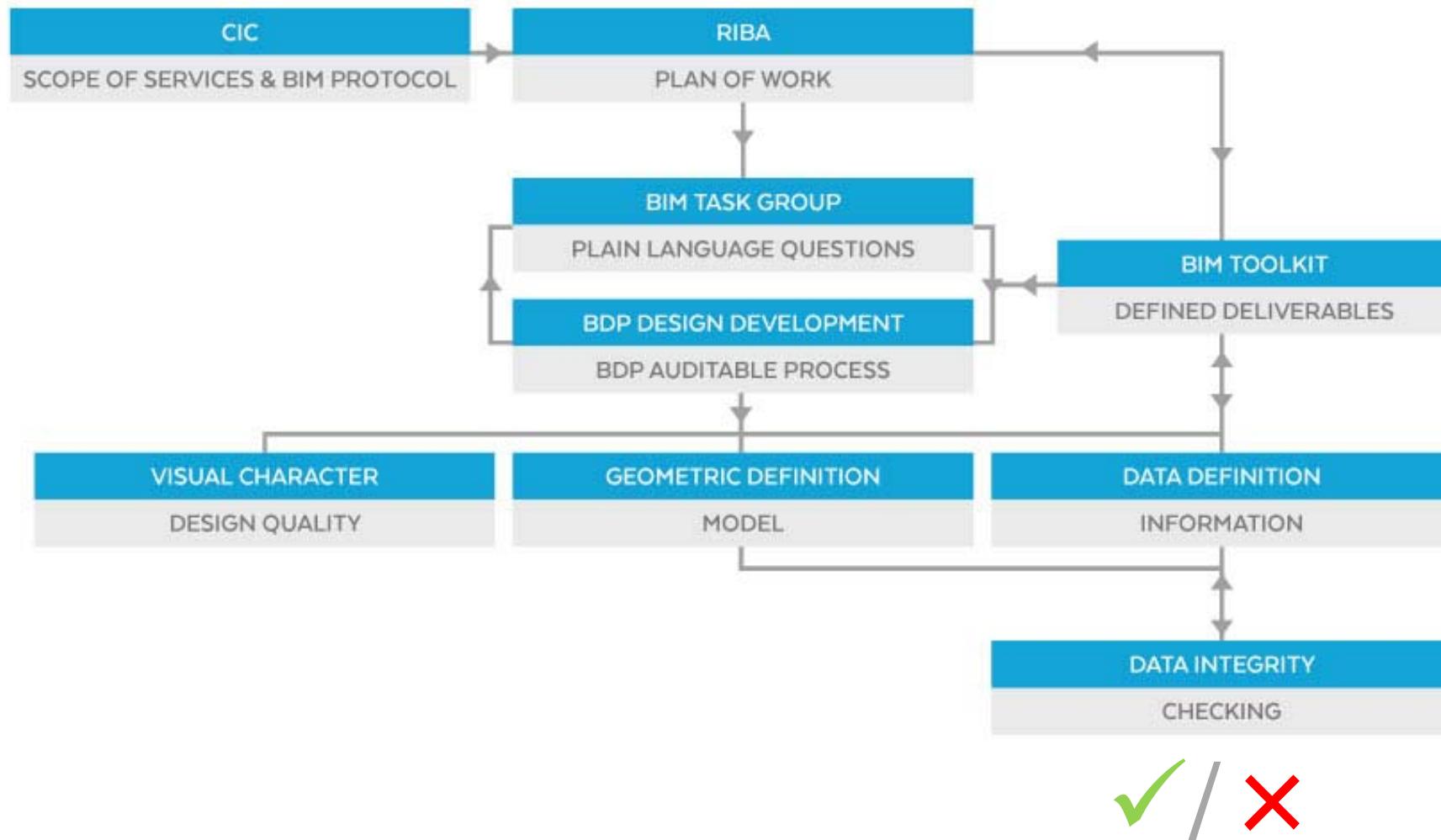
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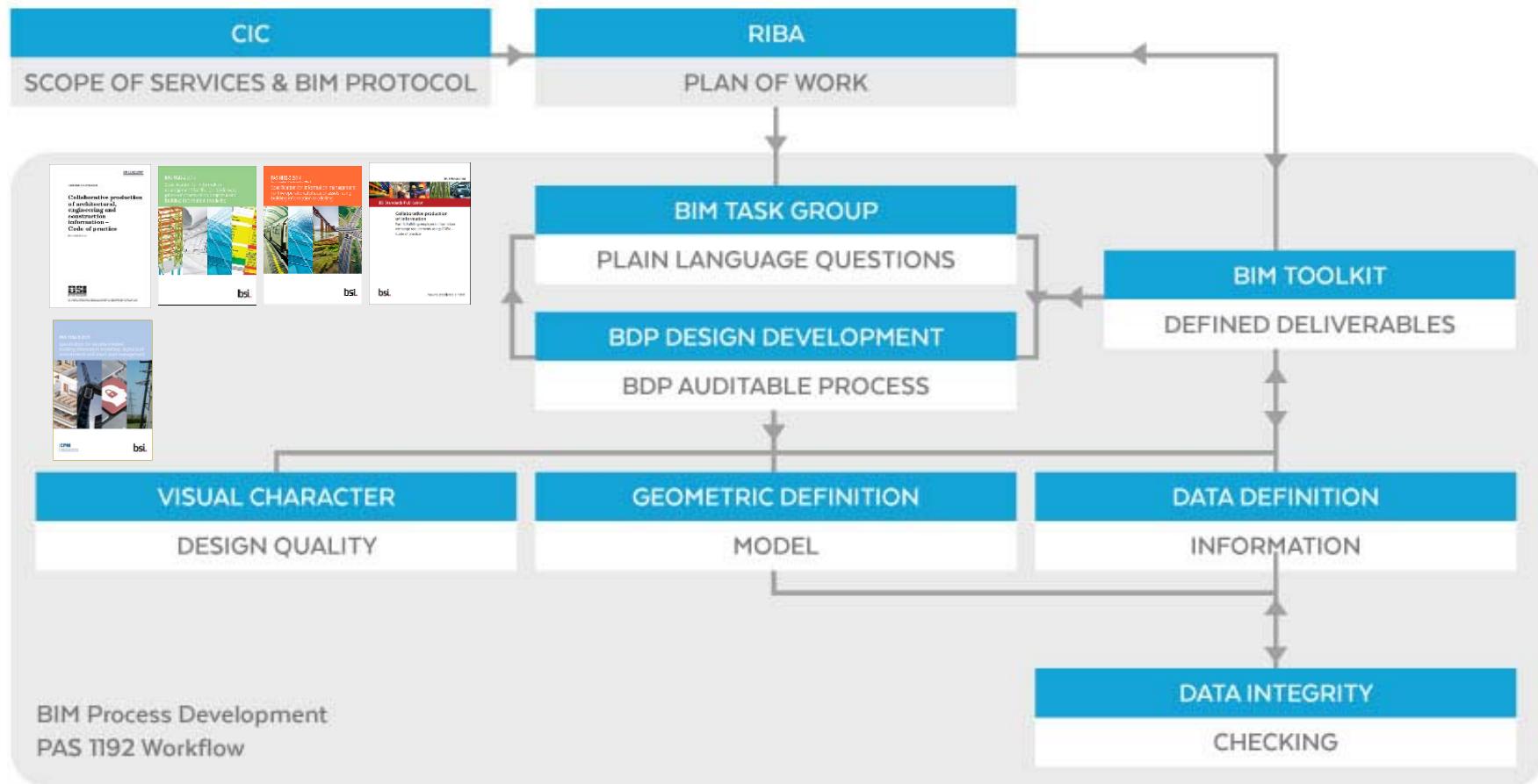




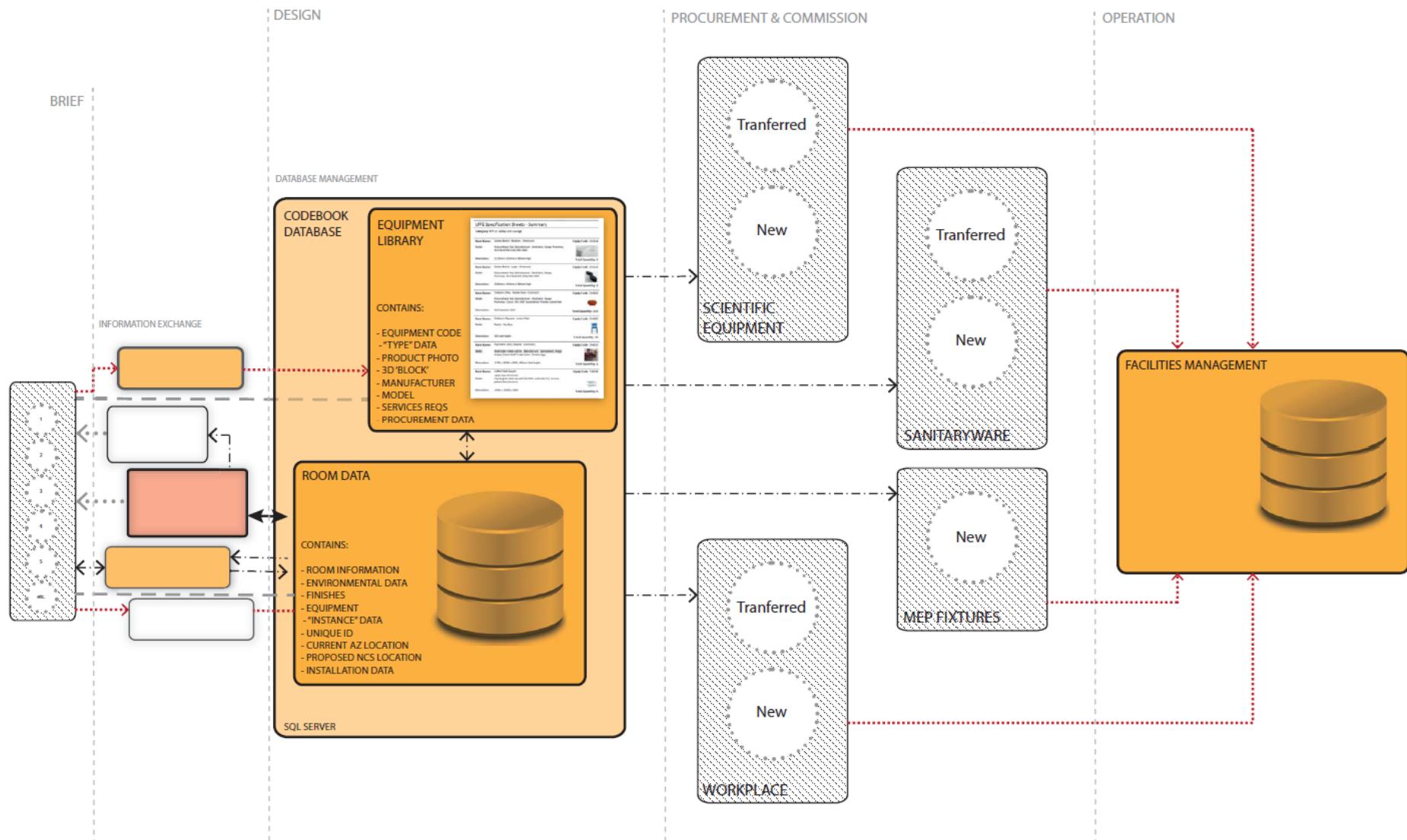














BIM & BDP
what you need to know and do >

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BIM isn't a 'thing'.



