

CitA
BIM GATHERING



Building Capabilities in Complex Environments

CitA BIM Gathering 2017, Croke Park, November 23rd & 24th, 2017

A blurred photograph of a crowd of people in a modern, brightly lit indoor space, likely a conference or exhibition. The people are in motion, creating a sense of activity and movement. Some individuals are in the foreground, while others are further back, all appearing slightly out of focus.

Project to Asset Information Handover & what clients really want (?)



- Introduction to GroupBC
- A little bit on who we work with...



Designers/Design
Team



Contractors



Client / Asset Owner /
Owner Operator

- What point have we reached in the BIM journey in our experience?
- Where are “End user clients” in this journey?
- What do we need to collectively do to realise the long term benefits for “end user clients?”
- Some examples of what we have achieved in partnership with our clients (who are end users !)





Where we work

from small project teams
and joint ventures to
large scale enterprises

delivering insight, control
and information
assurance across the
complete project to asset
lifecycle



AEC & Infrastructure



Energy & Utilities



Retail & Property



Government & Defence



A selection of our clients

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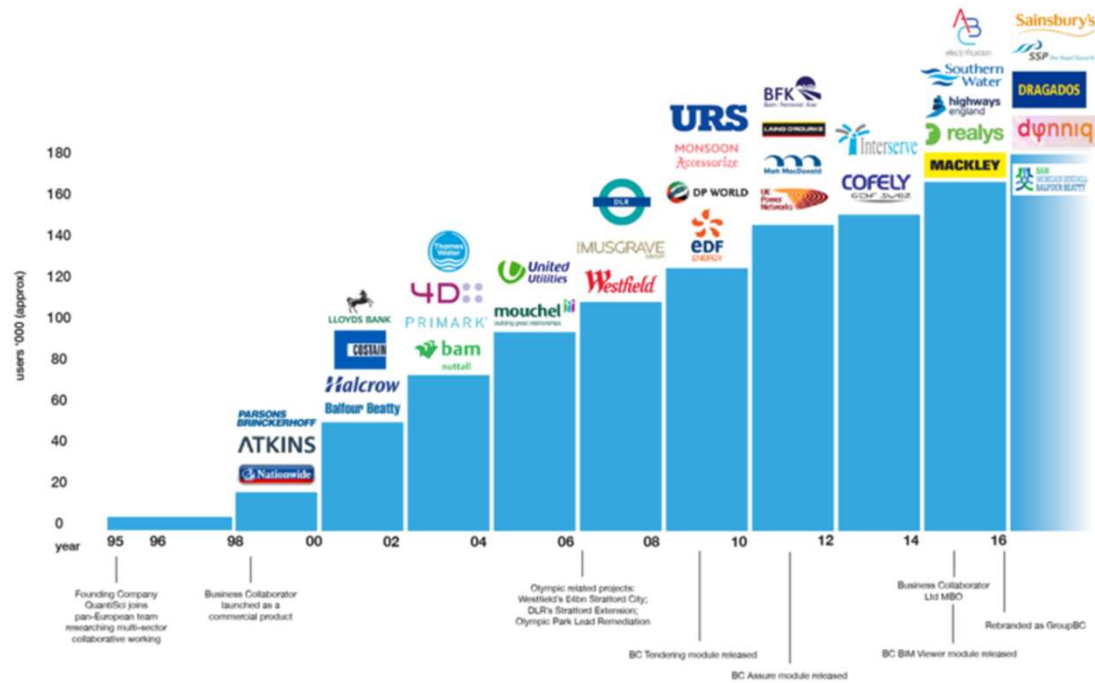


A Selection of our clients....





Product is used by over 19,000 different organisations across the supply chain....

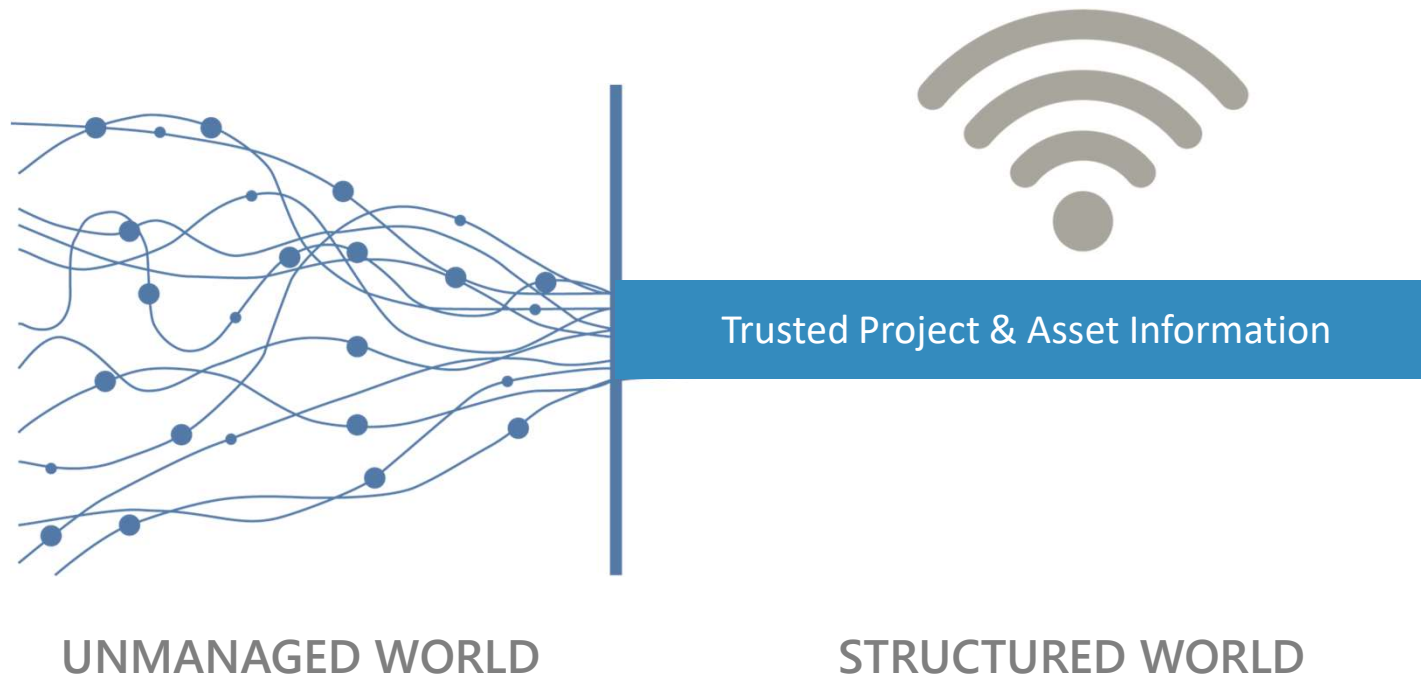


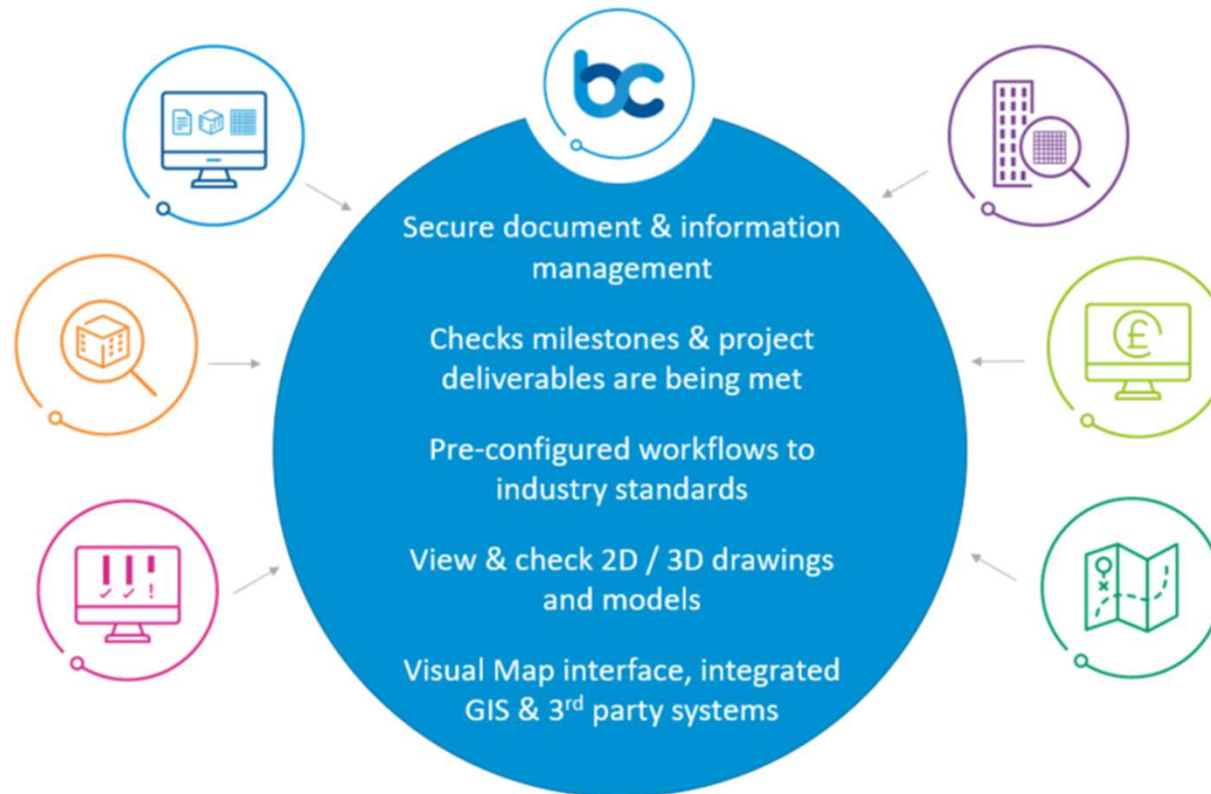
What do we really do....

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What do we really do....supporting Digital Transformation for over 20 years







Project to Asset Information Handover & what clients really want (?)

- (?)because it is a question....not an answer !
- Is there a standard answer ?
- What is a Typical client?
- Who does BIM immediately benefit ? Will that change in time ?
- As we are in a BIM Conference..... Does the focus on BIM help or hinder an Asset Owner?
- Are we pushing the benefits to the “end client” of BIM or are they pulling them ?
- A client may ask for BIM but do they know what they want from it?
- Is BIM as important as other things they have going on?
- I am going to talk today about our broader experience and our clients experience

Hopefully you will pick up some value from our experience today and we are enthusiastic about continuing the debate !





Is a software Vendor qualified to be part of a discussion on this topic ?

- Always a good question to ask!
- Yes !
 - Sharing experience – there is no right or wrong answer
 - BIM is still an immature concept (in real terms)
 - Collaboration is key for clients to realise operational benefits of digital transformation
 - Collaboration is crucial for the evolution of the methodology as well as the clever technology
- We are sharing our Experience today;
 - As an organisation that works extensively with all parts of the supply chain
 - As individuals with professional experience
 - As a business with a “partnership” ethos
 - As a business who wants to see our clients realise the benefits of Digital Transformation





“delivery of the Level 2 BIM programme has enabled us to help secure 20% savings on CAPEX as recorded by Cabinet Office case studies against the 09/10 benchmarks” (HM Government, Digital Built Britain, Level 3 BIM – Strategic Planning)

“...it is at least likely for many organisations to be in the range 1:4:10–30. This means that the long-term cost of operating any built asset will significantly outweigh its original capital cost” (Delivering built asset operational excellence, 2017)

“notwithstanding the fact that respondents reported a lack of client demand as a barrier, almost 75% of the sample reported an increase in demand for BIM in Ireland” (Hore, A., McAuley, B. and West, R. (2017) BIM in Ireland 2017, BIM Innovation Capability Programme, CitA Ltd.)

'...the Thames House Refurbishment was fraught with difficulties. It was clear that dealing with the building industry was just as tricky as dealing with the KGB.' (Stella Rimmington, former Director General of MI5)





Common goals across retail, utility, infrastructure, property and private clients. All want to;

- Grow profitable new space
- Identify and Manage Risk
- Manage Large Programmes of work
- Deliver Assets on time and to budget
- Benefit from interactive and early warning reporting
- Know what they have and where they have it
- Access what they need from where they need it
- Meet their legal, regulatory & governance requirements (QA, Environmental, H&S etc)
- Reduce the cost of operation and maintenance
- Reduce the cost of procuring new assets
- Reduce the risk in delivering projects with high complexity





These are the kind of things we hear from across the supply chain when discussing new capital projects;

- Client doesn't know what they want (from Supply chain)
- We don't know what to ask for (from Client)
- Client just 'wants BIM' – its not that simple
- BIM Engagement too late in Construction (or refurbishment) process
- Design team has been appointed on a standard scope – then Client wishes to introduce BIM
- Standards & disciplines are not in place
- Design team attempt to revert back to 2D processes mid stream
- Lack of thought by the designers on model contents. The model is only as good as the information in it.
- We can't agree on who owns the model...
- We have a COBIE file and we don't know what to do with it...
- COST – This BIM thing is new....I don't want to be paying for someone else's learning, I would rather stick with traditional approach..
- TIME – Our clients won't allow for more time spent up front designing/ analysing and preparing

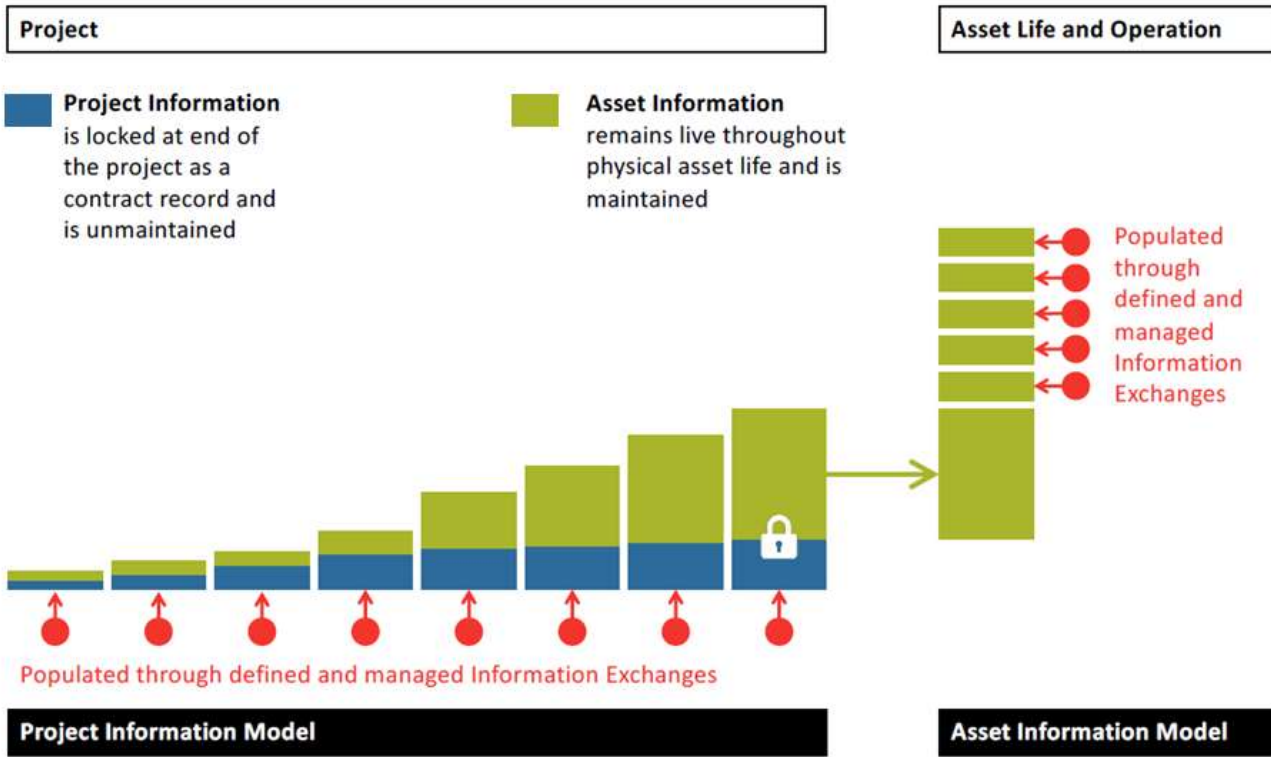




These are the kind of things we hear from across the supply chain in relation to managing existing assets;

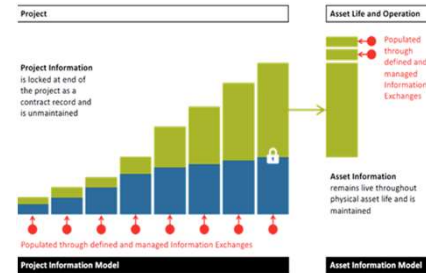
- Don't have the budget for investment in property management (low cost is king)
- The benefits of changing approach are not clear versus what we are judged on day to day
- Generating so much information, we don't know where to store it let alone generate value from it
- So many different pieces of software and formats. No one can say how we will even access this in 5 years let alone 15
- We do 2 new projects a year, 90% of our day to day is existing old assets that weren't created with BIM in mind..
- We outsource FM...and reserve the right to change our suppliers... how do we ensure long term compatibility when we effectively outsource the problem







- An information model developed during the design and construction phase of a project PAS 1192-2:2013
- A maintained information model to manage, maintain and operate the asset PAS 1192-2:2013



Agenda	Animation file	Clash rendition	EIRs, BEPs, MIDPs		
Model rendition	Bill of quantities	Asset Data (COBie)	O&M Manuals		
Method statement	Combined model	2D drawing	2D graphical model		
Presentation	Correspondence	File note	3D graphical model		
Programme	Cost plan	Health and safety	Minutes / action notes		



What are typical challenges for selling BIM to Asset Owners ?

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These are all valid comments....and normal given the current maturity of BIM.....



What are typical challenges for selling BIM to Asset Owners ?

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And it can feel like we are in a race at times !



What are typical challenges for selling BIM to Asset Owners ?

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How do we keep the discussion moving and keep clients on their digital transformation journey !

- Treat every client uniquely
- Workshop requirements and business drivers (listen and coach!)
- Configure each solution to a client's particular business requirements
- Pay attention to how long term engagement with system will evolve
 - Refurbishment
 - New build
 - Day to day maintenance
 - Equipment change / new technology
 - etc



How have our successful Asset Owner clients progressed ?

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How have our clients prepared themselves for success ;



- Invested in a Digital Estate (or Asset Strategy)
- Identified or acquired skills, resources and knowledge to execute the strategy – Subject matter experts in each field
- Structured, Managed and reviewed their Asset Information
- Engaged their supply chain and their customers
- Deployed a platform to support their Asset Management plan (yes, that is BC !)
- Identified where the long term benefits of a BIM approach benefit them (and when !)
- Developed their Employer's Information Requirements (EIR) and handover protocols accordingly (whether the project is classed as BIM compliant or not!)
- Made their BC implementations part of Business As Usual as well as special or new Capital projects. For any Asset owner, legacy is as important as shiny and new !



How has GroupBC met these challenges for Asset Owners

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GroupBC's response
to these challenges

bc
groupbc.com

Public

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bc Business Collaborator Home

Tasks: 9 Rick Cooper (rick.cooper)

Listing

- Locations
- Assets
- Projects
- Standards
- Assure
- Property
- Tendering
- Help

Search

Location Asset Project

ASSET

Location: [dropdown]

Asset Type: [dropdown]

Name: [input]

DOCUMENT





Leave this section blank if just searching for an Asset

Type: [dropdown]

Name: [input]

Search Clear

My Recent Assets



Where are my Assets and related Projects – Geo Locate everything !

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Search/Filter by Category

- AMPS Capital Delivery
- SPDTest Test
- AMPS Eight2o Enterprise
- AMPS Energy Efficiency and Carbon
- AMPS Light Wl Water Infra
- AMPS TT
- AMPS Wl Water Infra
- AMPS WNI Water Non-Infra
- AMPS WWI Waste Water Infra
- AMPS WWNI Waste Water Non-Infra
- Private SPIS Adoption Trials
- SCADA Programme
- SEMD
- Training
- No Category
- Personal

Categories

- All Categories
- AMP6 WWI Waste Water Infra
- AMP6 WWNI Waste Water Non-Infra
- AMP6 Wl Water Infra
- AMP6 WNI Water Non-Infra
- Other

Selected [clear] ^
Click on a project marker to see details



Where are my Assets and related Projects – Geo Locate everything !

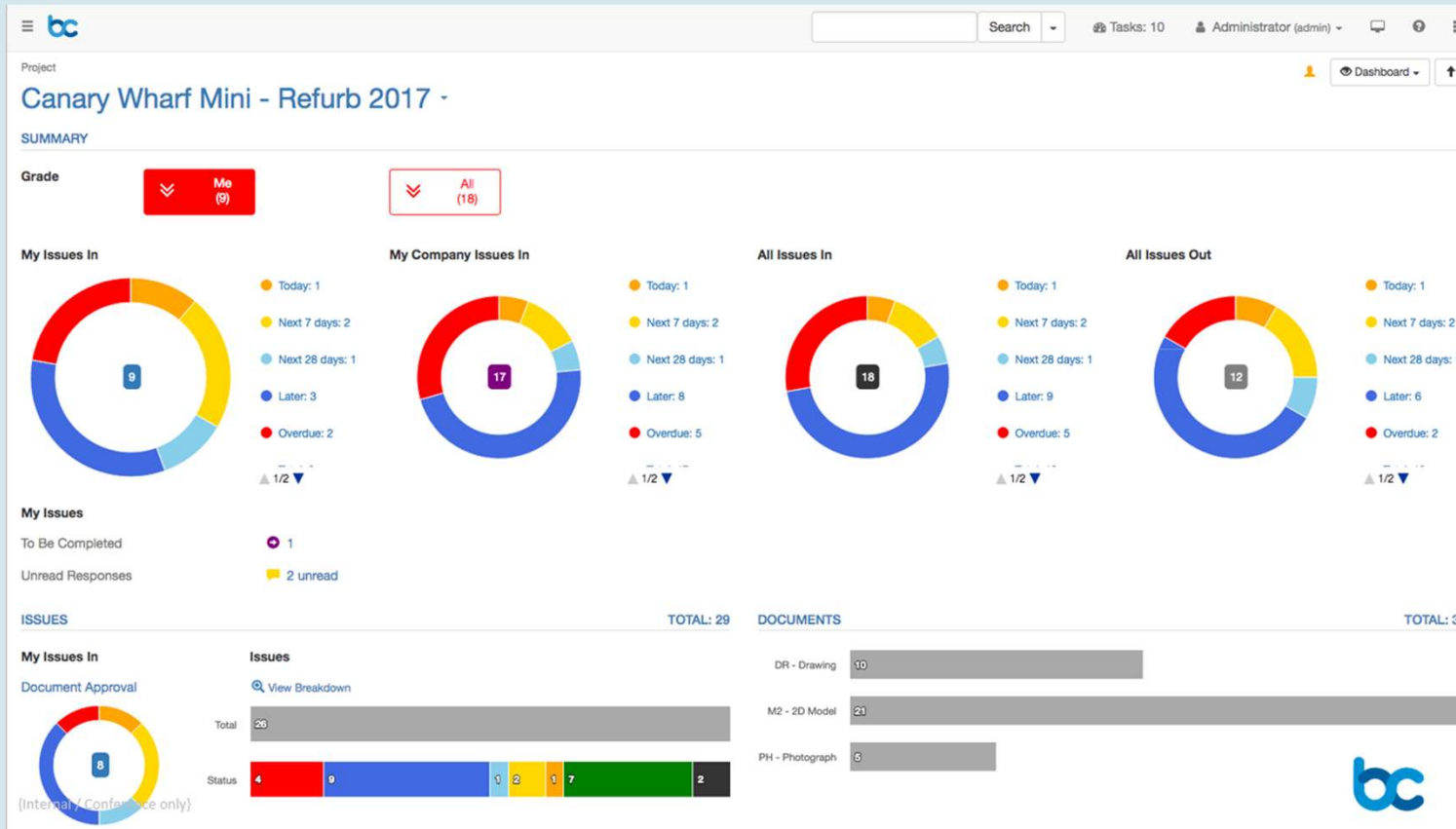
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The screenshot displays the 'business collaborator' web application interface. At the top, the 'GeoConnect+ The Next Generation CDE' logo is visible. The main area features a map of Brookwood with several blue circular markers representing assets. A sidebar on the left provides search and filter options, including 'Mode' (Select, Draw, Measure), 'Postcode Search', 'Place Search' (with 'brookwood' entered), 'Categories' (Category 1, 2, 3), and 'External Data' (Local Authority Boundaries, EA Flood Data, SSSI, OS Topography, OS Roads, OS Terrain 5 - DTM, OS Terrain 5 - SHM, Archaeological Priority Areas). A 'Selected' popup on the map indicates 'Click on a project marker to see details CSV'. The bottom of the interface shows a list of selected data files: 'selected_data (8).csv', 'selected_data (7).csv', and 'selected_data (6).csv'. The 'bc groupbc.com' logo is in the bottom right corner of the screenshot.

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Managing large programmes of work (Assure)



bc business Assure collaborator

Dashboard Projects Processes

location: Assure Demonstration Workspace view: Grid

process: Project Control Framework stage: 4 Statutory procedures and powers rag: 0/47 [47] 03/03/2020 project status: live

view project roles highlight responsibilities milestones project status

0 Strategy, shaping and prioritisation	1 Option Identification	2 Option selection	3 Preliminary design	4 Statutory procedures and powers	5 Construction preparation	6 Construction, commissioning and handover	7 Closeout
<p>Scope</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [9]</p> <p>0/0 [2]</p> <p>Cost Estimating</p> <p>PCF MP Project Manager</p> <p>0/0 [1]</p> <p>Business Case & Funding</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [2]</p> <p>Value Management</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [2]</p> <p>Project Management</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [1]</p> <p>Environmental</p> <p>PCF MP Senior Manager</p> <p>0/0 [1]</p> <p>Gateway Review 1</p> <p>PCF MP Board Director</p>	<p>Scope</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [34]</p> <p>0/0 [2]</p> <p>Cost Estimating</p> <p>PCF MP Project Manager</p> <p>0/0 [1]</p> <p>Risk</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [3]</p> <p>Business Case & Funding</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [5]</p> <p>Value Management</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [3]</p> <p>Specification Requirements & Design</p> <p>PCF MP Senior Manager</p> <p>0/0 [1]</p> <p>Managing Change</p> <p>PCF Senior Responsible Owner (SRO)</p>	<p>Scope</p> <p>PCF Project Manager</p> <p>0/0 [2]</p> <p>Cost Estimating</p> <p>PCF Commercial Services Division Cost Estimating Manager</p> <p>0/1 [1]</p> <p>Risk</p> <p>PCF Commercial Services Division Risk Manager</p> <p>0/0 [3]</p> <p>Business Case & Funding</p> <p>PCF NetServ Traffic Appraisal Modelling & Economics (TAME)</p> <p>0/0 [6]</p> <p>Value Management</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0 [3]</p> <p>Specification Requirements & Design</p> <p>PCF MP Project Manager</p> <p>0/0 [13]</p>	<p>PCF DFT</p> <p>0/0 [72]</p> <p>PCF Com Division</p> <p>0/0 [3]</p> <p>Business</p> <p>PCF NetSe Modelling</p> <p>0/0 [3]</p> <p>Value</p> <p>PCF Sen Owi</p> <p>0/0 [8]</p>	<p>2 Option selection / Cost Estimating</p> <p>0/47 [47]</p> <p>0/1 [1]</p> <p>Deliverables</p> <p>Options Estimate</p> <p>Aim and Purpose: The aim is to produce an estimate for each of the options that can be used as part of the selection of the Preferred Route, at the end of stage 2. The purposes of the estimates are to - identify viable alternatives and selection of the optimum - Provide decision support for Preferred Route Announcement - Update the estimate with design development.</p> <p>Reference documents</p> <p>Work Instruction</p> <p>PCF Product Matrix V35 27 May 2013.xlsx</p> <p>The PCF product matrix available from the following link detailing complex notification requirements for infrastructure projects.</p> <p>Procedures</p> <p>The project control framework handbook v2 2013.pdf</p> <p>The overview document for multiple option 1 Control Framework projects as utilised by H example of a large projects framework.</p> <p>Examples</p> <p>Value Management.htm</p> <p>A sample Wikipedia explanation of Value Man. https://en.wikipedia.org/wiki/Value_management</p> <p>NetServ.htm</p> <p>Network Service special information https://www.highways.gov.uk/specifications/information/highways-specification-booklets</p> <p>PCF demonstration notes.docx</p> <p>Information about this project and how it is set up. The document is linked so you can pick up documents throughout the lifecycle of the project. https://showcase.witbc.com/itbc/og/0/15/</p>	<p>Scope</p> <p>PCF Legal</p> <p>0/0</p> <p>Risk</p> <p>Delivery Hub Risk Manager</p> <p>0/0</p> <p>Case & Funding</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0</p> <p>Management</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0</p> <p>Specification Requirements & Design</p> <p>Senior Manager</p> <p>0/0</p> <p>Managing Change</p> <p>PCF Senior Responsible Owner (SRO)</p> <p>0/0</p> <p>Project Management</p> <p>PCF TAME POPE Sponsor</p> <p>0/0</p> <p>Health & Safety</p> <p>PCF Project Manager</p> <p>0/0</p> <p>NetServ Approvals</p> <p>PCF Senior Responsible Owner (SRO)</p>		

Policies & Procedures

Templates

What good looks like

Clear deliverables management – Am I in possession of the latest of what I asked for?



BC Six Assure Help | Paul Houghton (psh) | Log Out

bc business assure
collaborator

Dashboard Projects Processes Admin Report

location: East Paradise Street view: List

process: Construction Process stage: Design rag: 0/2 [2] 31/03/2014 project status: live

view project roles download project data Construction Guide Milestones

name	mandatory	single/multiple	rag	document rag	milestone rag	role responsible	delegation	actioned
Feasibility [closed] No Procedural Document available.			✓	3/3 [4]	26/02/2014			
Design Feasibility			✓	2/2 [2]				
Initial Design	*	file	✓	1/1 [1]		Architect	no	
bridge.jpg [0.1]	*	file					no	Paul Houghton
Initial Design Review	*	file	✓	1/1 [1]		Architect	no	
sydney_harbour_bridge.jpg [0.1]	*	file					no	Paul Houghton
Plan Feasibility			✓	1/1 [2]				
Draft Project Plan	*	file	✓	1/1 [1]		Architect	no	
mackinac_bridge.jpg [0.1]	*	file					no	Paul Houghton
Plan Review		file	✓	0/0 [1]		Architect	no	
Empire State Building.jpg		file					no	
Design [current] No Procedural Document available.			!	0/2 [2]	31/03/2014			
Detailed Design			!	0/2 [2]				
Detailed Design	*	file	!	0/1 [1]		Architect	no	
Detailed Design Review	*	file	!	0/1 [1]		Architect	no	
Planning [un-opened] No Procedural Document available.				0/3				
Planning Permissions				0/2				
Building Regulations	*	file		0/1		Project Manager	no	
Planning Permission	*	file		0/1		Project Manager	no	
Listed building Approval		file		0/0		Project Manager	no	
Project Plan				0/1				



Knowing what you have and where you have it !

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Search [] Tasks: 4 Administrator (admin)

Folder in Project: Quartz Configuration Demo

Air Conditioning

+ Add - Actions - Workflow - Cut Copy Paste Download Delete Drop Files Here

Last Modified: 20/04/17 11:35

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec id varius nisi. Praesent purus purus, auctor in ante non, semper eleifend dui. Nam facilisis nisi at leo consectetur laoreet. Nam ut aliquet nulla. Nam sem sapien, blandit id neque non, cursus tristique ex. Pellentesque sit amet elementum massa. Maecenas condimentum nisi ut nibh elementum auctor.

Product Category: Electric

Name	Type	Description	Creator
Instructions	Folder		Administrat
Specification	Folder		Administrat
Warranty	Folder		Administrat
air conditioning.jpg	Container Image		Administrat

4 items

More Information: **BST-BCL-Z1-01-DR-A-00001.dwg**

Details Access Rights Events Links

Create Asset Labels

Showing Links and QR codes for: Master Document (dynamic - always the latest version)

Secure Link

Link: <https://bc.demo/bc/bc.cg/0/8152?op=lp>

Name: BST-BCL-Z1-01-DR-A-00001.dwg

Version: Master [latest, 0.1]

Type: Secure (Only accessible by users with access rights)

Go Back





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Home / Digital Component Library / 1. DCL Repository

Actions: Navigation, Cut, Copy, Paste, Download, Delete

1. DCL Repository

Name	Search Tags	Full Details	Discipline	Relevant MCHW Series	IAN184	LoDet	Suitability	Created
CB-SGY_GYSN-MOU-ADSGrpPile_ScrewfastArrangement								
CB-SGY_GYSN-MOU-ADSHelixPile_ScrewfastArrangement								
CB-SGY_GYSN-MOU-MS4_CFXisting								
CB-SGY_GYSN-MOU-MS4_SFFGrpPile300mmPlinth								
CB-SGY_GYSN-MOU-MS4_SFFGrpPile600mmPlinth								
CB-SGY_GYSN-MOU-MS4_SFFHelixPile300mmPlinth								
CB-SGY_GYSN-MOU-MS4_SFFHelixPile600mmPlinth								
CU-TCB-JAJV-Combined_610_609P								
CU-TCB-JAJV-Combined_610Plinth_Skirt								
CU-TCB-JAJV-600_Cabinet								
CU-TCB-JAJV-609P_Cabinet								
CU-TCB-JAJV-610_Plinth								
CU-TCB-JAJV-610_Skirt								
CU-TCB-JAJV-Combined_610_600								

Atkins JV DWG SUE M3 600, Atkins JV DWG SUE M3 609P, Atkins JV DWG SUE M3 610 Plinth, Atkins JV DWG SUE M3 610 Skirt, Atkins JV DWG SUE M3 Combined



Access from anywhere

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Name	Tasks Out	Originator	Zone	Level	Type	Role	Creator	Modified
BST-BCL-Z1-01-DR-A-00001.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
BST-BCL-Z1-01-DR-A-00002.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
BST-BCL-Z1-01-DR-A-00003.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
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BST-BCL-Z1-01-DR-A-00011.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
BST-BCL-Z1-01-DR-A-00012.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
BST-BCL-Z1-01-DR-A-00013.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
BST-BCL-Z1-01-DR-A-00014.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
BST-BCL-Z1-01-DR-A-00015.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	DR - Drawing	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00001.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00002.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00003.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00004.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00005.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00011.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00012.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18
P001-BCL-Z1-01-M2-A-00013.dwg		Business Collaborator Ltd	Z1 - Zone 1	01 - Level 1	M2 - 2D Model	A - Architect	Administrator (admin, BCL)	15/05/17 12:18



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Building Capabilities
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Navigation

Selected (18)

- 7263_FDG - Plant Louvre Screen:7263_FDG

Model Information

Name 7263-FDG-ARC-03-00.ifc

Core Properties

Global ID 2moHGR2j41vik9I51HAXO

Name 7263_FDG - Plant Louvre Screen:7263_FDG - Louvre Screen 3450mm x 900mm:6415639

Object Type ifcwindow

Tag 6415639

Constraints

Level Level: L03 - 3rd Floor

Sill Height 1598.0000000002 mm

Dimensions

Area 4.83393837217319 m²

BladeAngle 60.0

BladeLength 152.4 mm

BladeThickness 3.175 mm

Volume 0.0150230765961215 m³

Identity Data

Edited by dj@fairhursts.com

Mark 37

Workset 7263_FDG_External Envelope

Materials and Finishes

BladeMaterial Default

Other

Category Windows

Family 7263_FDG - Plant Louvre Screen: 7263_FDG - Louvre Screen 3450mm x 900mm

Family and Type 7263_FDG - Plant Louvre Screen: 7263_FDG - Louvre Screen 3450mm x 900mm

Head Height 2518.0000000002 mm

Host Id Basic Wall: 7263_FDG_External Cladding Panel_Type 2 150mm

NumBlades 9

Type 7263_FDG - Plant Louvre Screen: 7263_FDG - Louvre Screen 3450mm x 900mm

Type Id 7263_FDG - Plant Louvre Screen: 7263_FDG - Louvre Screen 3450mm x 900mm

Phasing

Phase New Construction

Created

Pset_ManufacturerTypeInfo

Manufacturer D+P JPF

window Search





Standard Accessories

- Projector
- Power Lead
- CD User Manual
- Warranty Card
- Quick Start Card
- WEEE Card (for EMEA only)
- Documentation
- Remote
- 2 x AAA Batteries

Optional Accessories

Optional accessories vary depending on model, specification and region.

- Carry Bag
- Lens Cap
- Lens Cap

Navigation

Object Tree | IFC Categories

- Optima
- LG TV
- LHS Main Office
- Severn Window sill
- Board Door
- Thames/Severn Glass
- Training Door
- Fire Exit
- RHS Main Office Wall
- Kitchen Window sill
- Nidd/Training Wall
- Storage Room
- Nidd Door
- Tawe Window sill
- Board LHS Glass
- Back Wall Main Office
- Corridor Door
- Zone 3
- Tyne/Arvon Wall
- Kitchen/Main Office Door
- Thames Window sill
- Thames Door
- Door Borders
- Cupboards
- Nidd Glass Wall

Selected

- Optima

Model Information

Name: [BC Model Final 2.ifc (latest, 0.10)]

Core Properties

Description: [Description of Object]

Global ID: [5altf1715vGLxKyg875c]

Name: Optima

Object Type: [ifcbuildingelementproxy]

Associated Links

[Optimo Projector - Board room (best guess)]

Femmax biometrics, access point and card reader

Walling area and LG TV

Reception desk



Easy ongoing collection and linking of construction or new asset data

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Associate Document: 233 selected item(s)

Select documents to associate with 233 selected items.

Home / All Projects / Cambridge / 01 - WIP

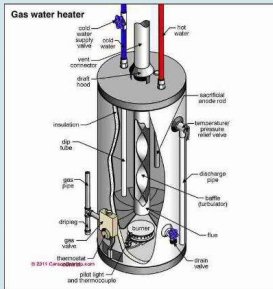
Select	Name	Description	Suitability	Originator	Zone / Asset	Level / Location	Type	Rule
<input type="checkbox"/>	15027-PC1-STR-01-00.dfc	Structural	SO - Initial Status	PCH - PC Harrington Contractors Ltd	1A - First Avenue Bridge	00 - Non Level Specific	M3 - 3D Model File	1 - Co-Ordina (Services)
<input type="checkbox"/>	20141124 - Capella Location Plan.pdf	Location	SO Initial Status	ADT - Acoustic Design Technology	1A - First Avenue Bridge	00 - Non Level Specific	DR - 2D Drawing	1 - Co-Ordina (Services)
<input type="checkbox"/>	239200-ARP-ELE-01-00.dfc	Electrical	SO - Initial Status	PCH - PC Harrington Contractors Ltd	1A - First Avenue Bridge	00 - Non Level Specific	M3 - 3D Model File	1 - Co-Ordina (Services)
<input type="checkbox"/>	239200-ARP-ELE-01-01.dfc	Electrical	SO - Initial Status	PCH - PC Harrington Contractors Ltd	1A - First Avenue Bridge	00 - Non Level Specific	M3 - 3D Model File	1 - Co-Ordina (Services)
<input type="checkbox"/>	239200-ARP-MEC-01-00.dfc	Mechanical	SO - Initial Status	PCH - PC Harrington Contractors Ltd	1A - First Avenue Bridge	00 - Non Level Specific	M3 - 3D Model File	1 - Co-Ordina (Services)

Showing 1 to 14 of 14 entries

Previous 1 Next

Associate Cancel





Operations and Maintenance Manual

1. Index
2. Introduction
3. Safety
4. Operation and Maintenance of your unit
5. Service instructions
6. Hot gas control settings
7. Boiler control settings
8. Boiler controls
9. Service instructions
10. Boiler controls
11. Service instructions
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98. Boiler controls
99. Service instructions
100. Boiler controls

Navigation

Object Tree

- M_Hot Water Boiler - 59-440 KW:147 KW:147 KW:530072
- M_Inline Pump - Circulat...
- M_Tee - Generic:Tee - G...
- M_Transition - Generic:T...
- M_Transition - Generic:T...
- M_Transition - Generic:T...
- M_Transition - Generic:T...
- M_Transition - Generic:T...
- A205-M
- B201
- B201-M
- B202
- B202-M
- B203
- B203-M
- B204
- B204-M

Properties

Model Information

Name: Duplex_MEP.ifc

Core Properties

Global ID: 12pBe1QPb2z91 uXg6Q1

Name: M_Hot Water Boiler - 59-440 KW:147 KW:147 KW:530072

Object Type: ifcenergyconversiondevi

Tag: 530072

Search: boiler

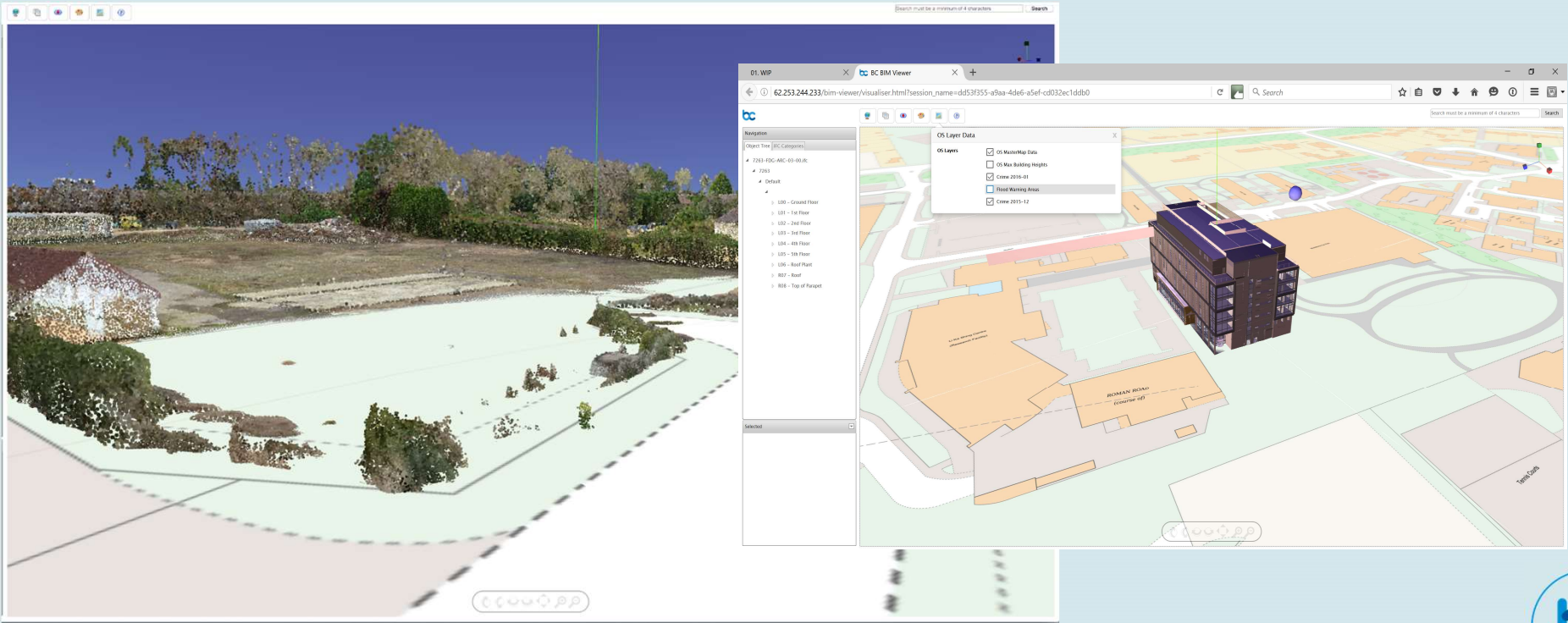
Results:

- Duplex_A.ifc
 - Showing 0 matches.
- Duplex_MEP.ifc
 - Showing 2 matches.
 - M_Hot Water Boiler - 59-440 KW:147 KW:147 KW:530072**
 - Name: M_Hot Water Boiler - 59-440 KW:147 KW:147 KW:530072
 - multi / 0001 / Default / Unnamed ifcbuilding / Level 2 / A205
 - M_Hot Water Boiler - 59-440 KW:147 KW:147 KW:557516
 - Name: M_Hot Water Boiler - 59-440 KW:147 KW:147 KW:557516
 - multi / 0001 / Default / Unnamed ifcbuilding / Level 2 / B205



Other sources of data – Scanning / mapping / point cloud etc

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Michael Barber, System Development Manager



“
We want to understand what's in our estate but also what's in our future
”





“
The GroupBC team were able to advise, test, and also start to implement changes quickly, which not only meant that we got the right solution, but it was delivered to tight timescales
”



Paul Meredith, Business Compliance Manager





Nigel Keen, Group Property Director

jd sports fashion plc

“
In this highly competitive retail market, GroupBC's CPP enables us to accelerate our store development programme by bringing all the teams together and more efficiently deliver the JD Way
”



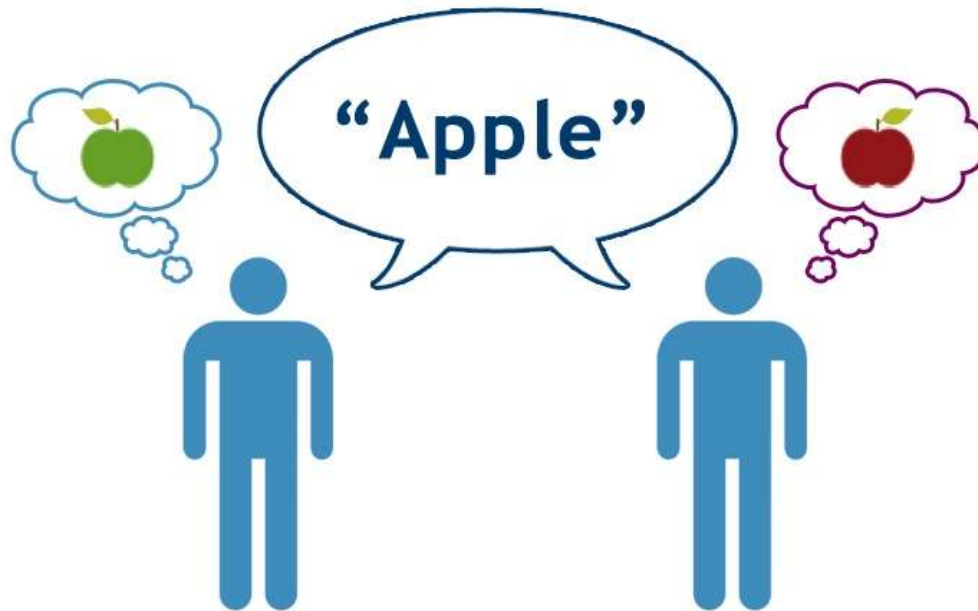


- A Client's Asset Strategy is crucial to defining what a client wants or needs from supply chain
- Collaborative discussion and agreement at the outset of any engagement is crucial to a successful outcome
- Construction benefits of BIM are only part of the story for a Owner Operator client
- Legacy is as important as new
- Aggregating, integrating and utilising basic Asset Information Management is a key foundation for generating value
- Democratising the information and making the tools easy to use are very important for benefits to be realised
- Interoperability and a partnership approach to data sources and systems is essential for future benefits to be realised

- We work with and are delighted to talk to all parts of the supply chain !



A final word.....Be sure to Articulate your requirements and understanding of them clearly



Dear Santa

I've been very



Good



Bad



Cita
BIM GATHERING



Thank you

Gavin O'Neill (Head of Account Management)

