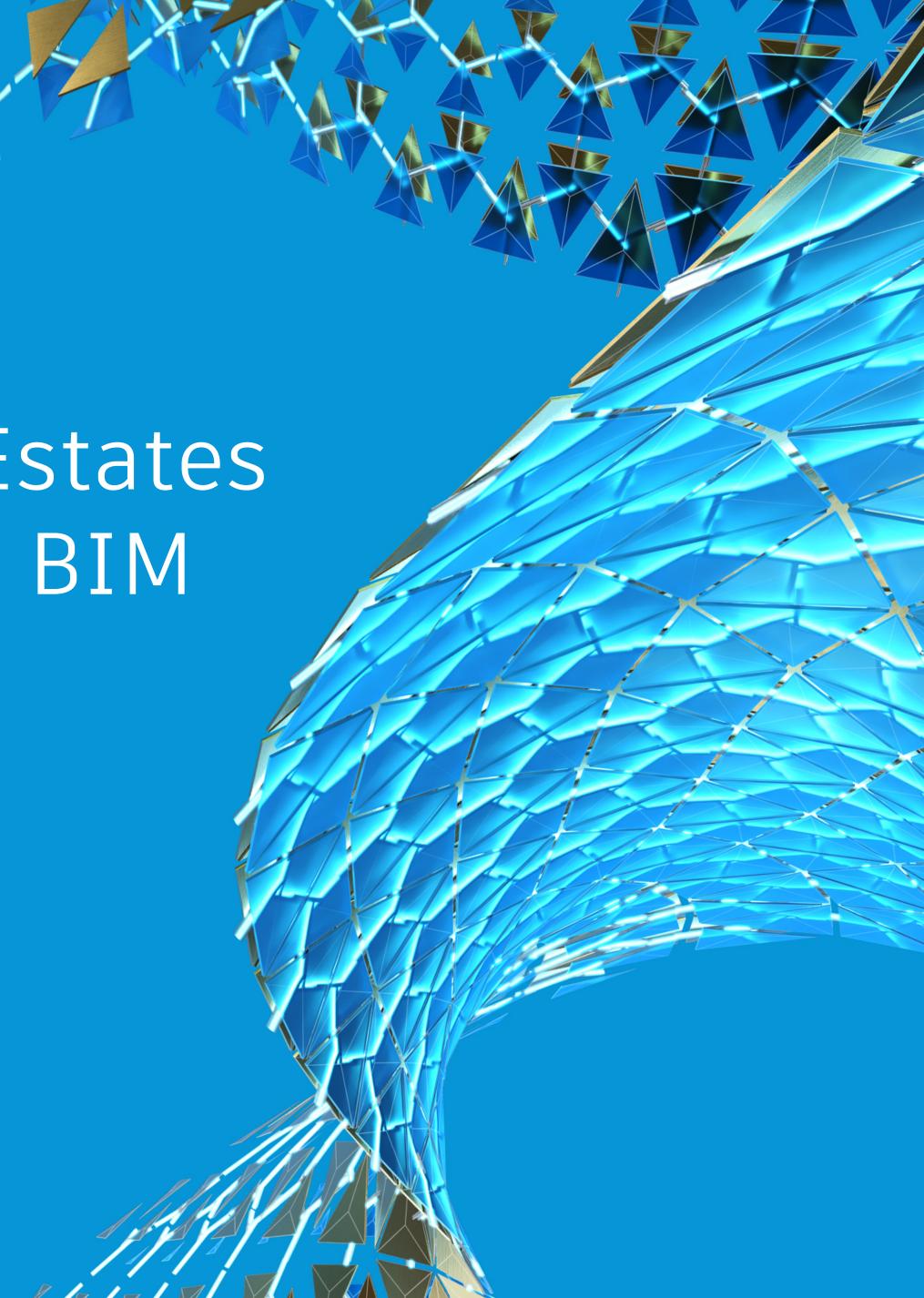


### HADEEL SAFAA SAADOON

BIM MANAGER at Coventry University | @hadeelsafaa







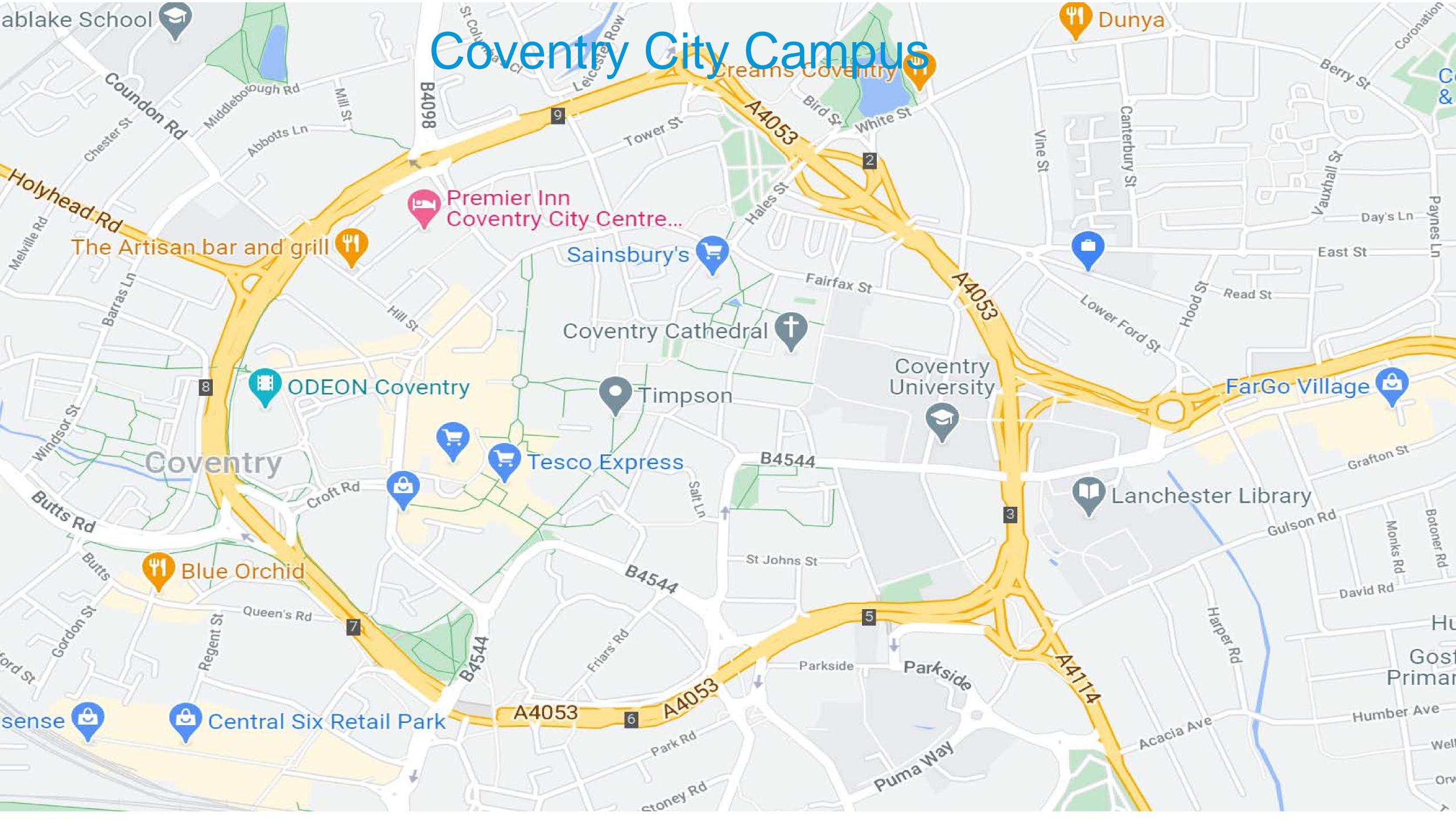
### Hadeel Safaa Saadoon

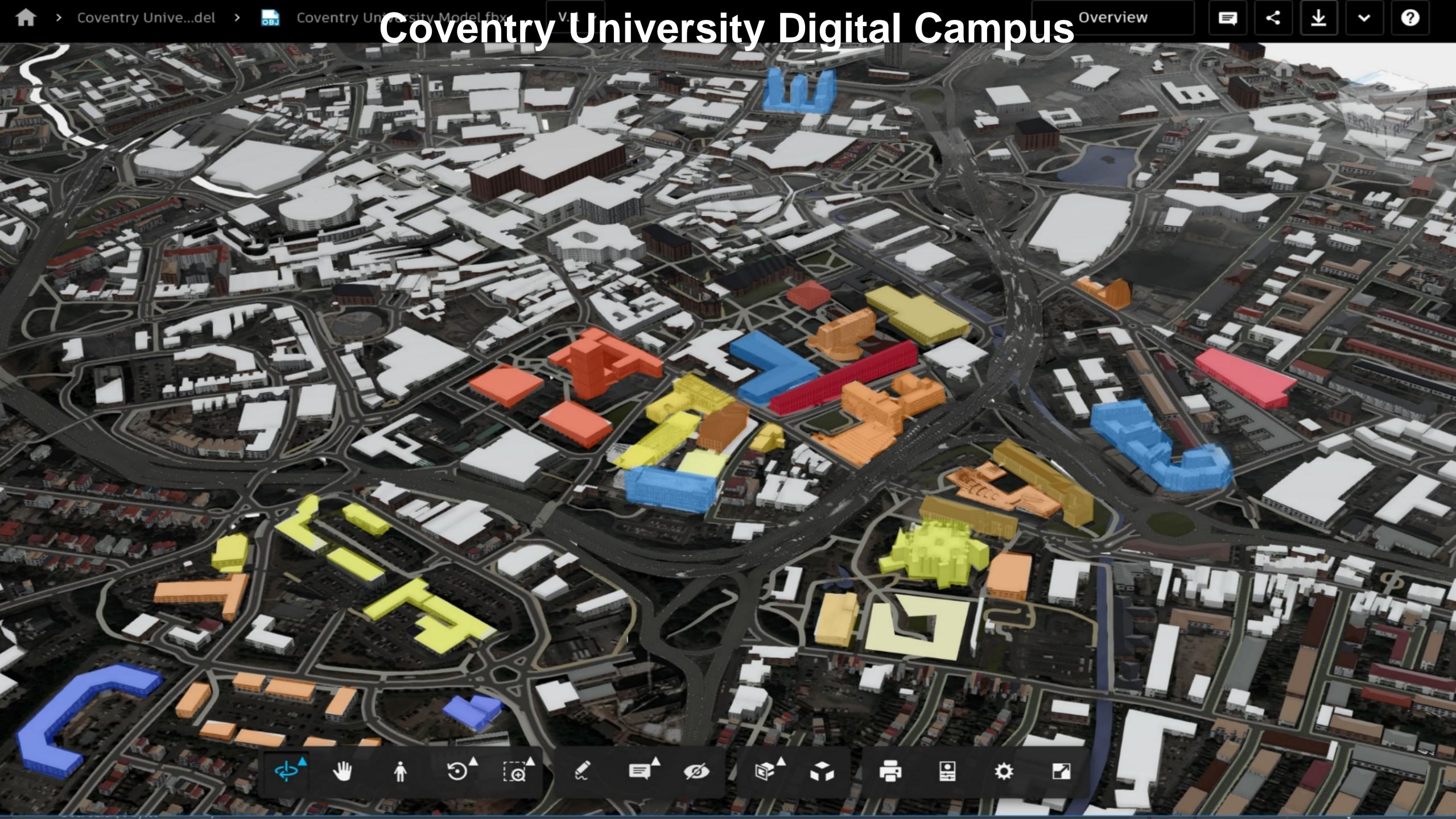
### Estates Digital Services – BIM Manager

Chartered Architectural Technologist & Multi-Award winning BIM specialist promoting the use of Digital Technologies in the AECO industry. Working as a BIM Manager for Coventry University Estates leading the BIM implementation & digital transformation strategy across Estates operation & development projects. Chair of BIM4Estates group, Communities Lead for the UK BIM Alliance, Regional Lead for Women in BIM & Vice Chair of CIAT West Midlands.

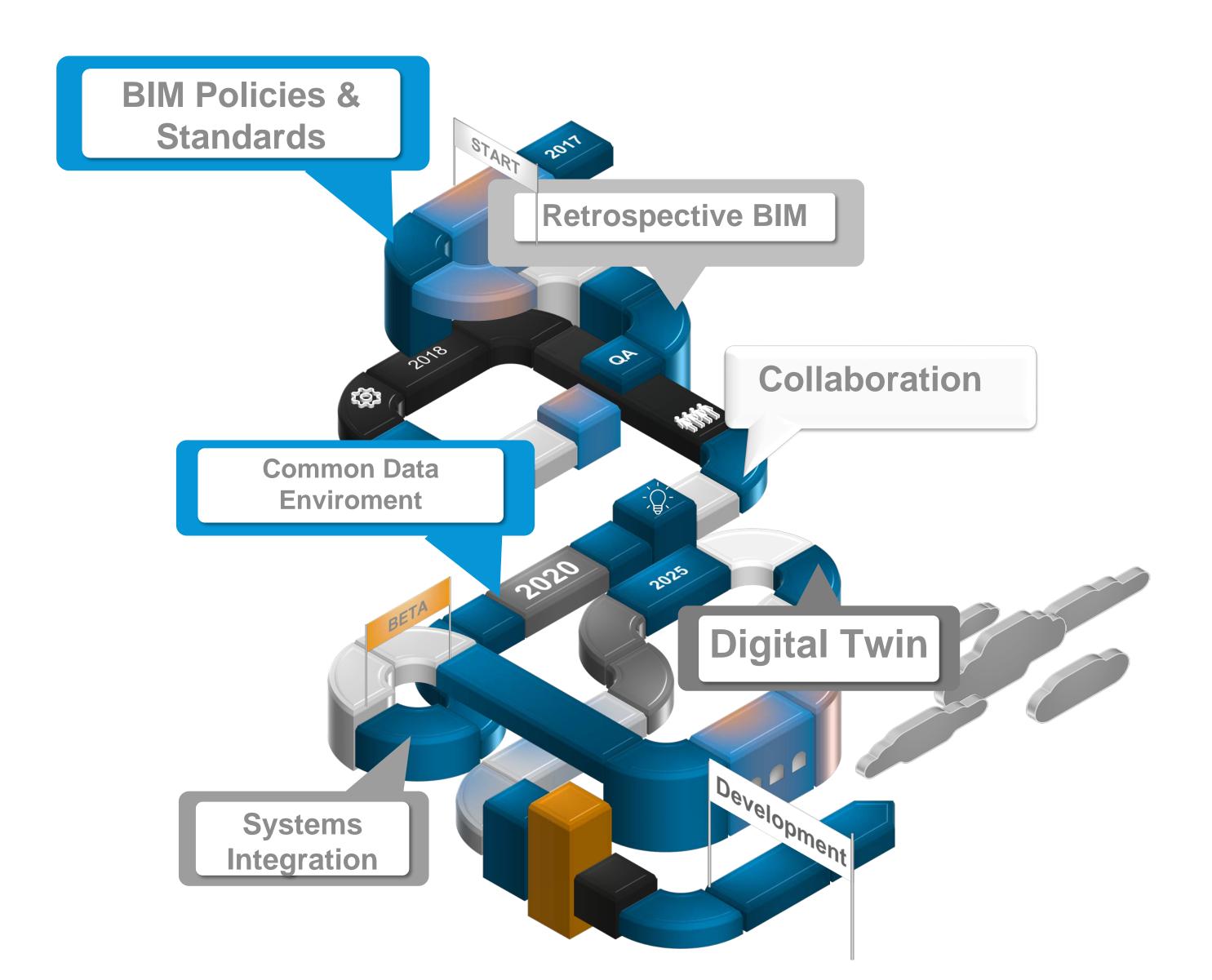
# Coventry University Estates – Digital Campus

Coventry University Digital Campus will be showcased while describing the tools including Autodesk Software applications that have been used and the processes that led to achieve it. Challenges will be discussed on the journey of digitizing Coventry University Estates and updating building information from paper based to CAD and BIM, the information management processes, Management of systems and the integration developments, retrospective BIM modelling of Existing buildings and the creation of a virtual campus model, soft landings and handover challenges, CAFM, CDEs, systems and digital campus achievements with the solutions that helped to unravel the value of BIM for the university as an owner to streamline facilities management and buildings operation and maintenance.



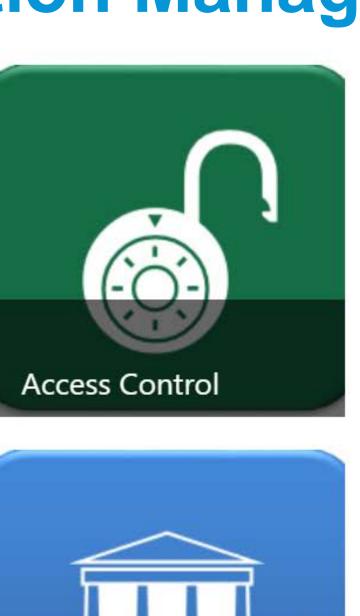


# Digitising Coventry University Estates The Road to Digital Twins



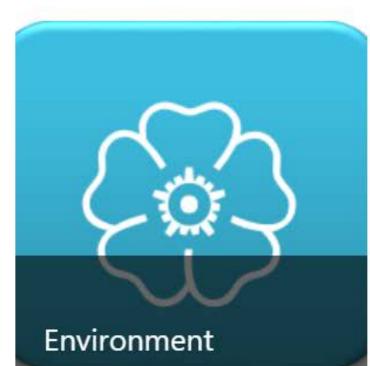
## Added Value Estates Wide

### **Better Information Management**



















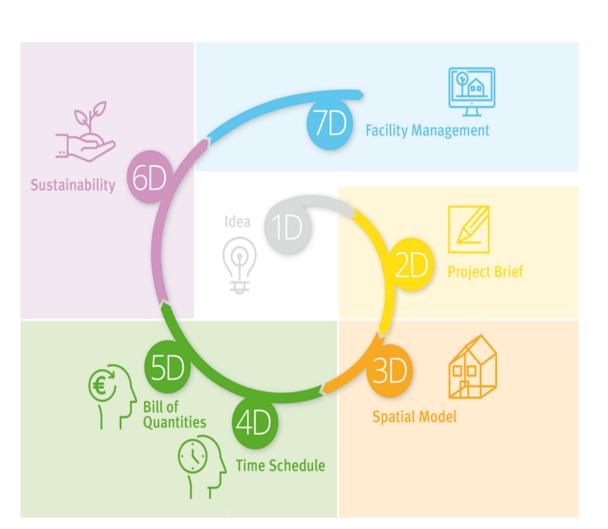


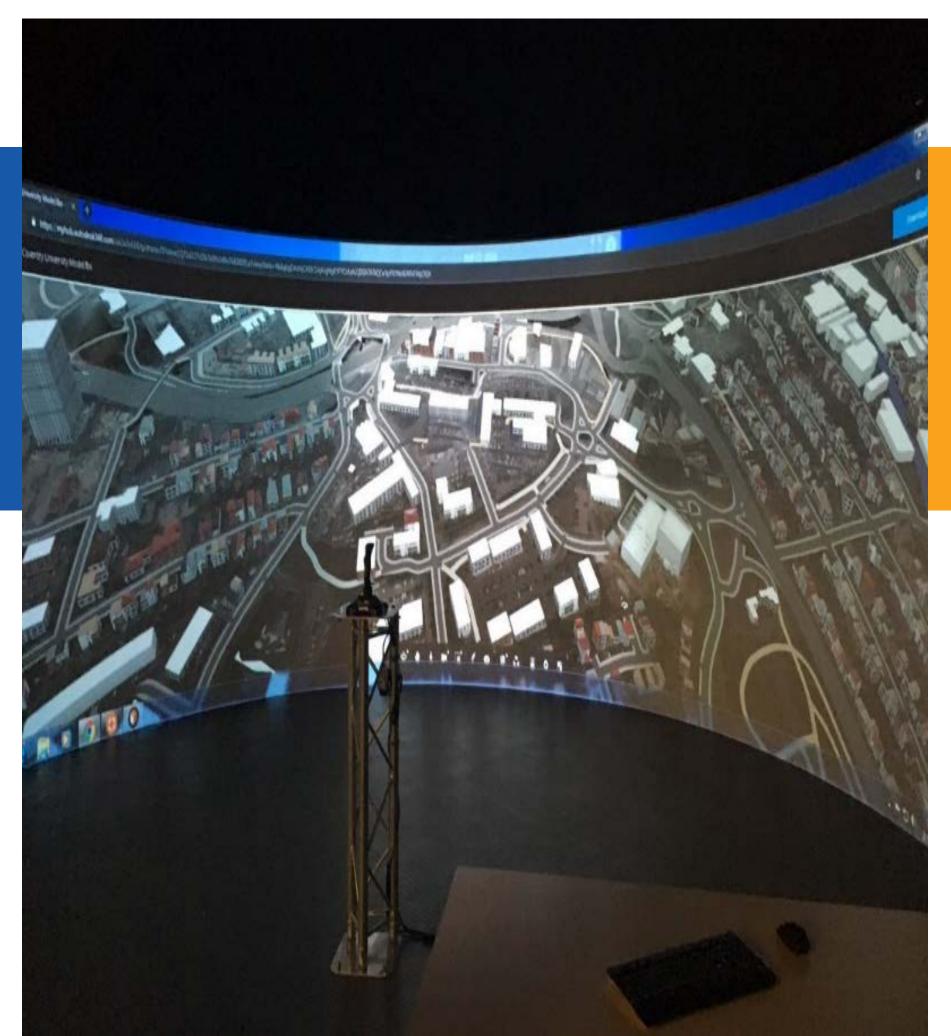




# Going digital

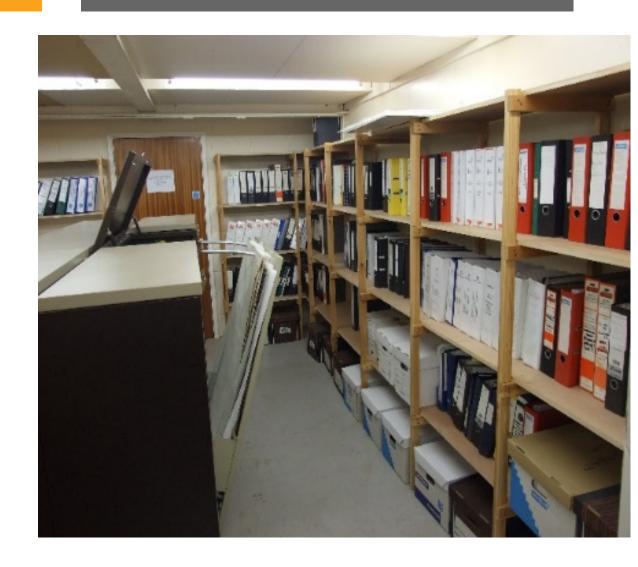








# Physical Archive



# Challenges and Backlog of Data

- Building Drawings were not aligning to actual as built.
- Room Numbers were not matching the data in our CAFM or our drawings.
- Operations and Maintenance manuals were not indexed.
- Inconsistency of room numbers formats across buildings.
- Project Information not handed over in correct formats.
- Multiple systems throughout Estates hosting inconsistent data.



# Digitising Coventry University Estates

Information Requirements
Asset Requirements
Adopting BIM Standards

Health and Safety
Soft Landings
Design Guide
Contracts

Asset Management
Building Services
Systems Integration
Digital Campus











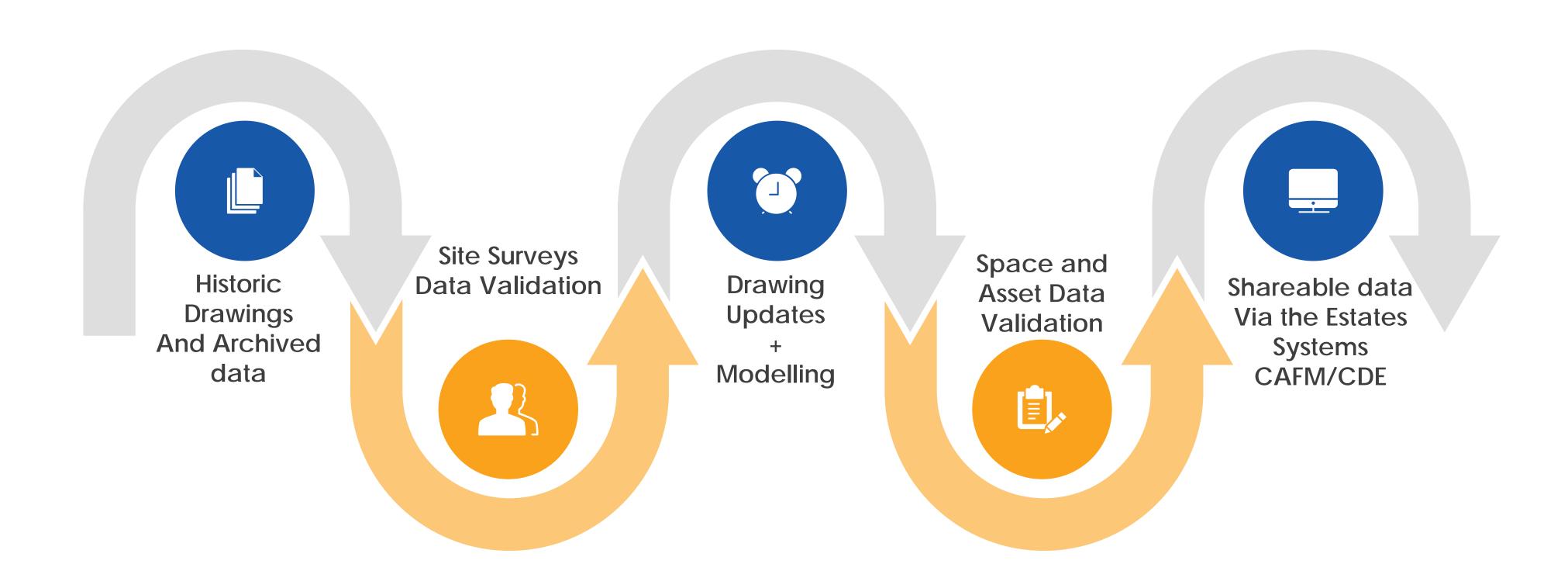


Reviewing
Existing Estates
Data and
Infrastructure

Site Surveys
Drawing
Updates
Reviewing
Archived Data
Physical to
Digital

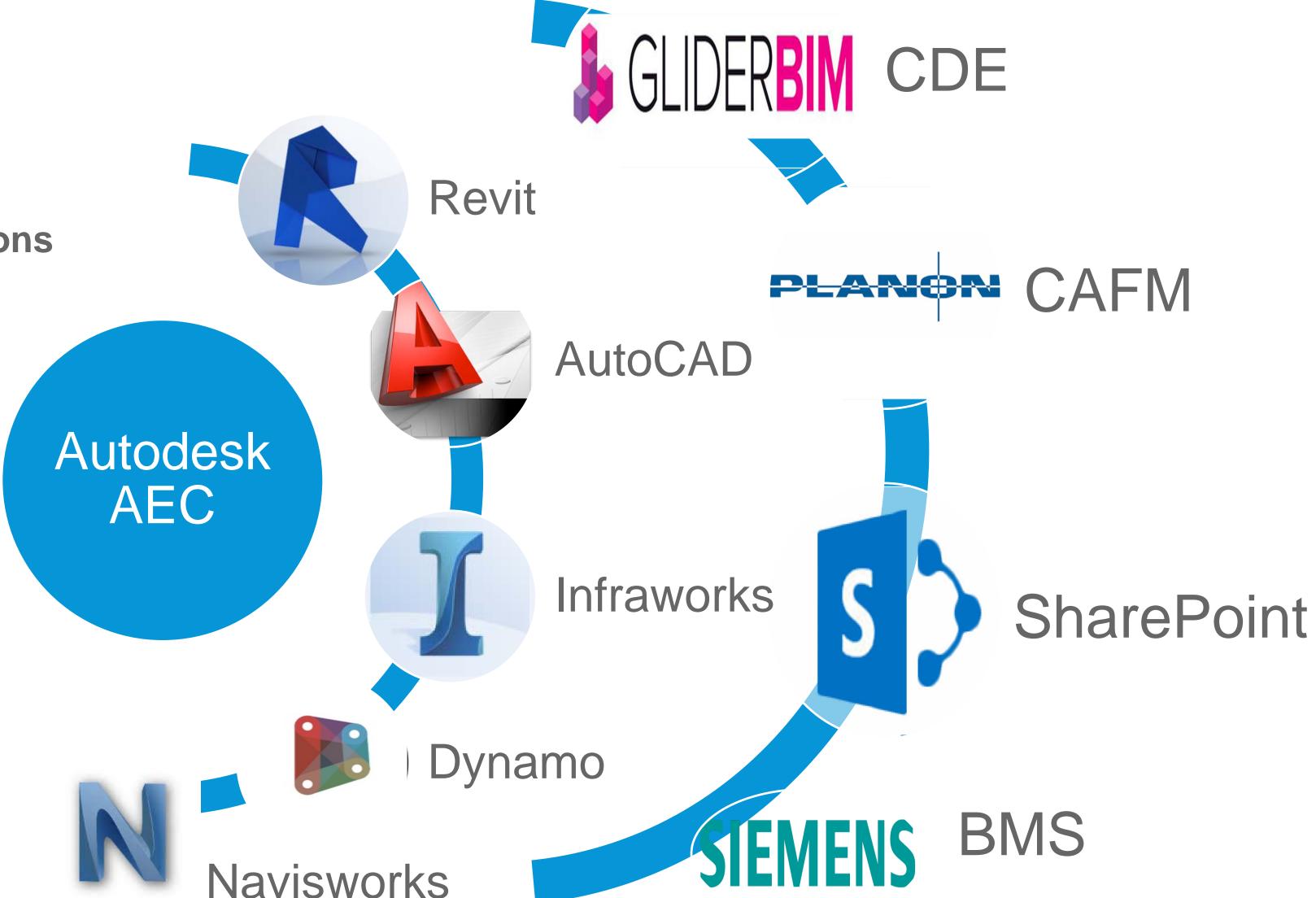
Common Data
Environment
CAD to BIM
Better Information
Management

# Process and Development

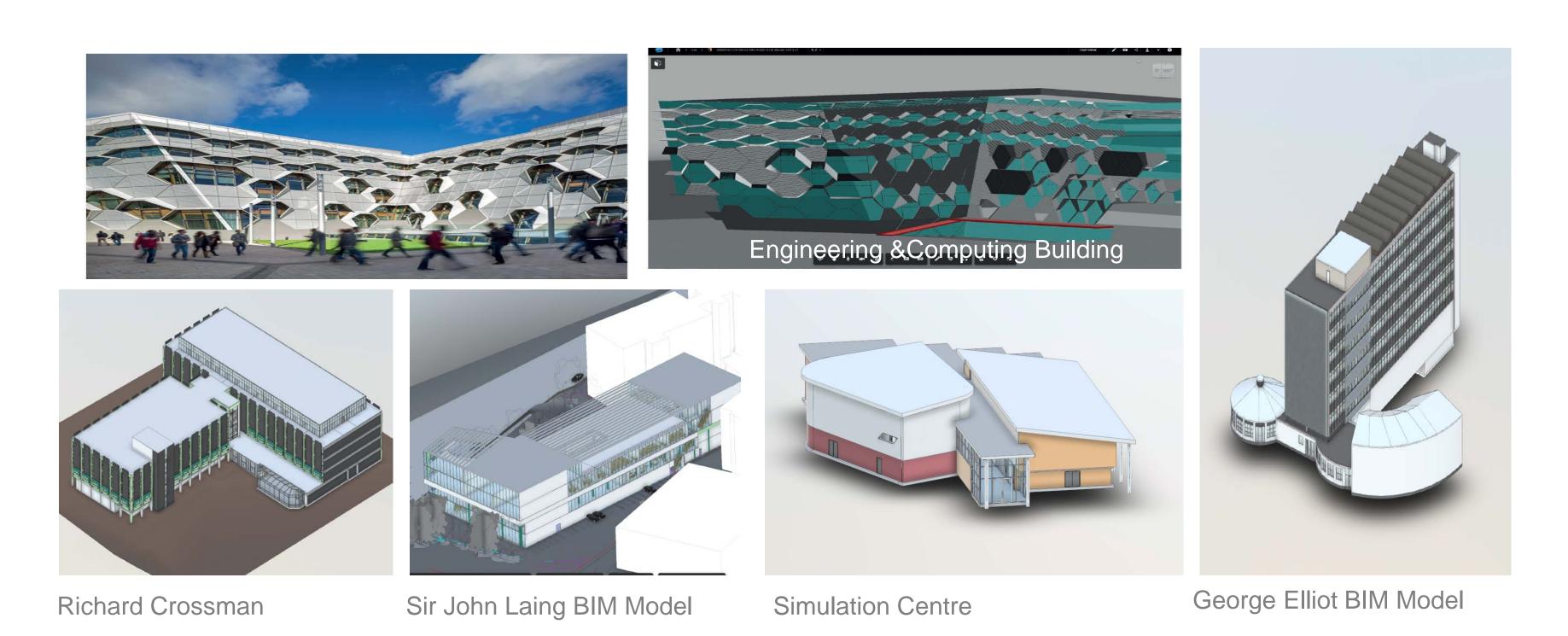


# Key tools and Processes

- Planning and Surveying
- Collaborative Cloud Based Solutions
- Project Management
- Building Information Modelling
- Digital Maps
- Parametric Design
- Automation
- Data Hosting
- Facilities Management
- Digital Estates Management

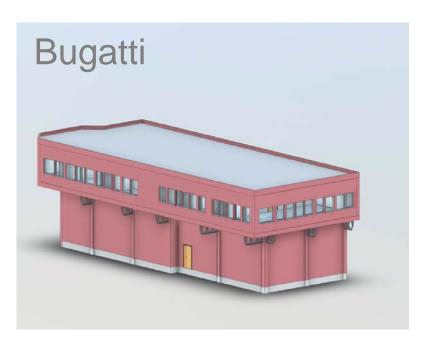


# Historic Building Models - Research & case-studies



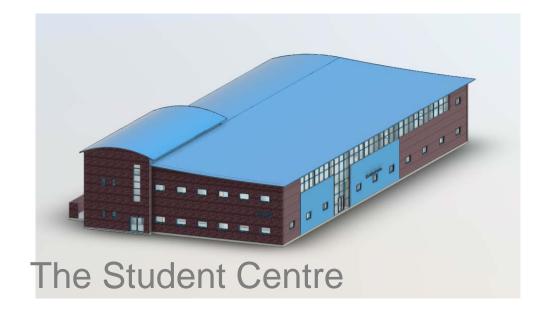
## Capturing Existing Estates - Retro BIM

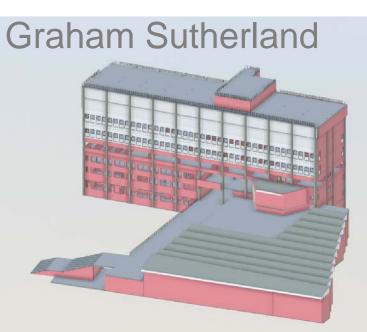
Basic Laser Scanning – Retrospective Modelling 3D Point Cloud Surveys – Refurbishment Projects



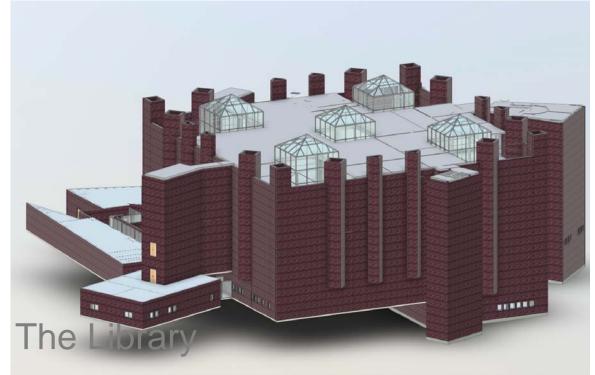


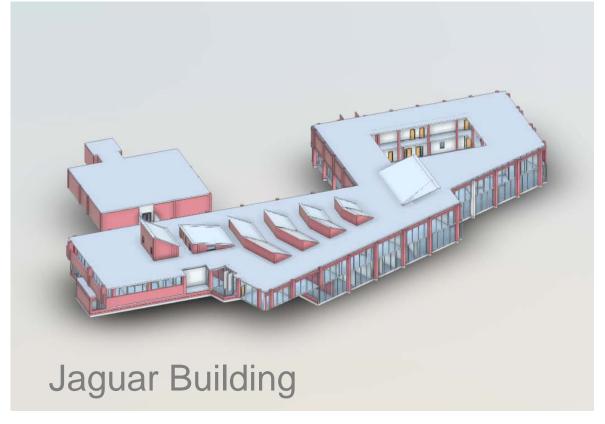
The Sports Centre

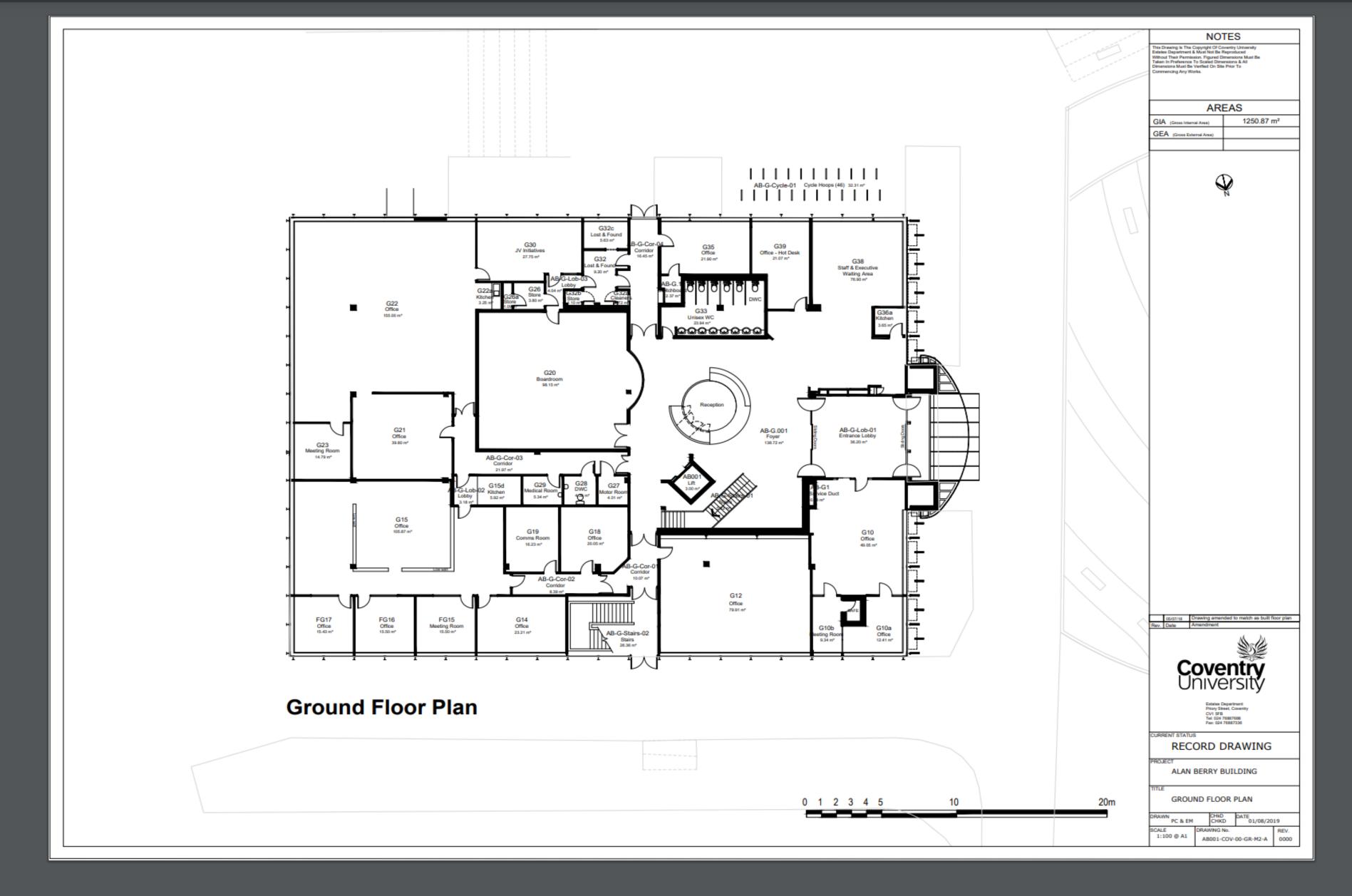








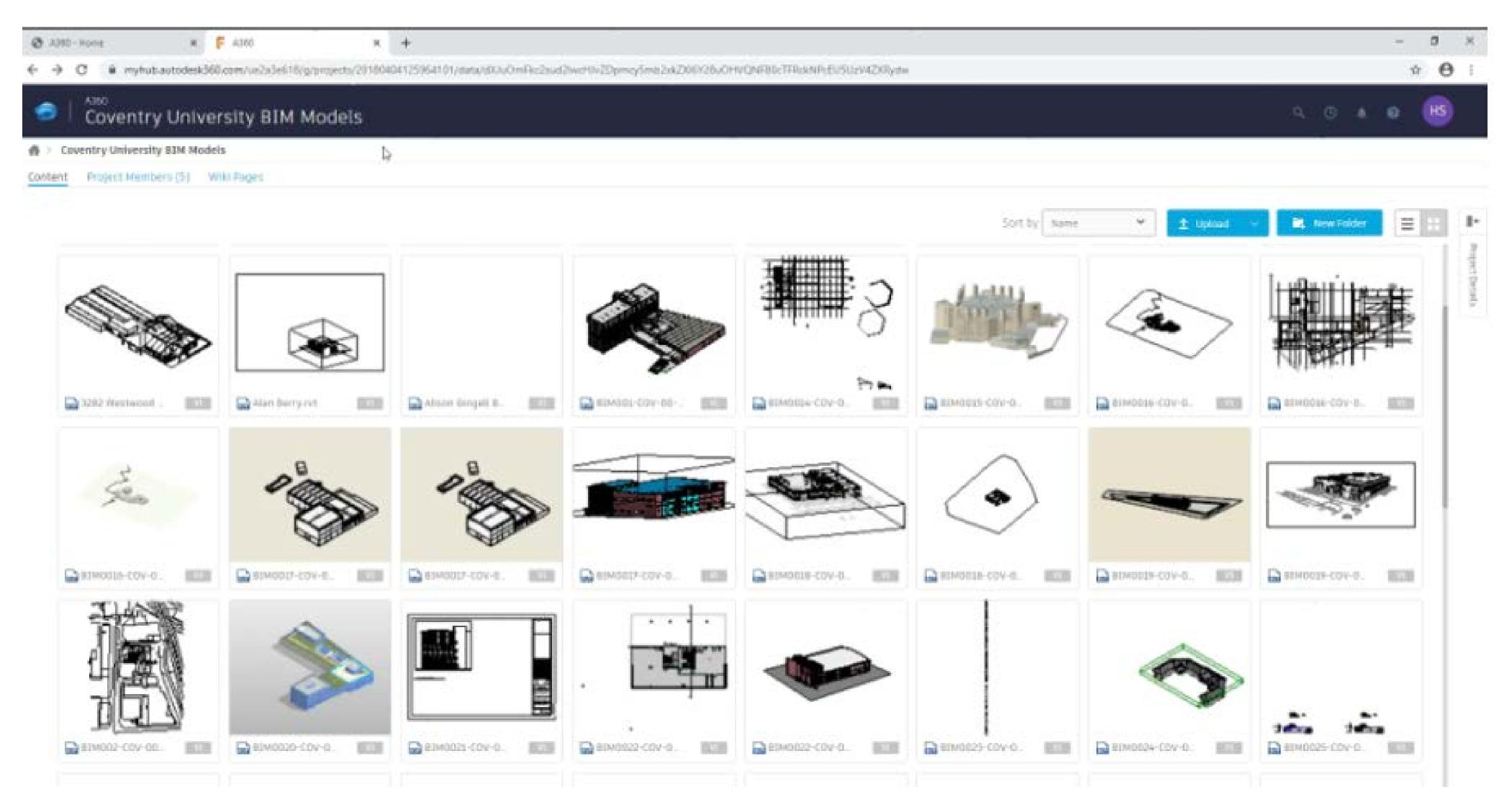




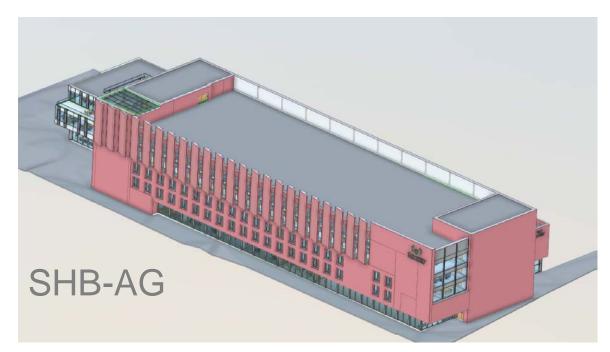
### AutoCAD

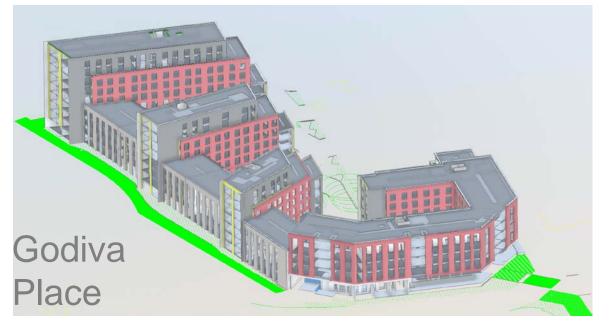
2D Drawing files and scans of paper based plans from the university archives

# Retrospective Modelling of Existing Buildings



# New Projects Buildings Models and Digital Workflows



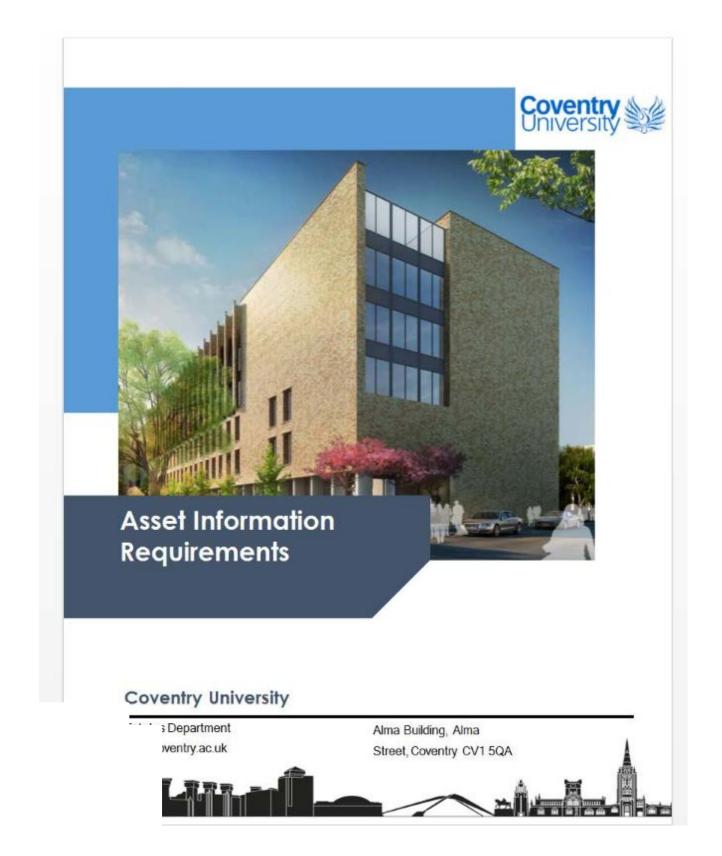




### DATA GOVERNANCE AND SECURITY

### **ASSET INFORMATION MANAGEMENT**







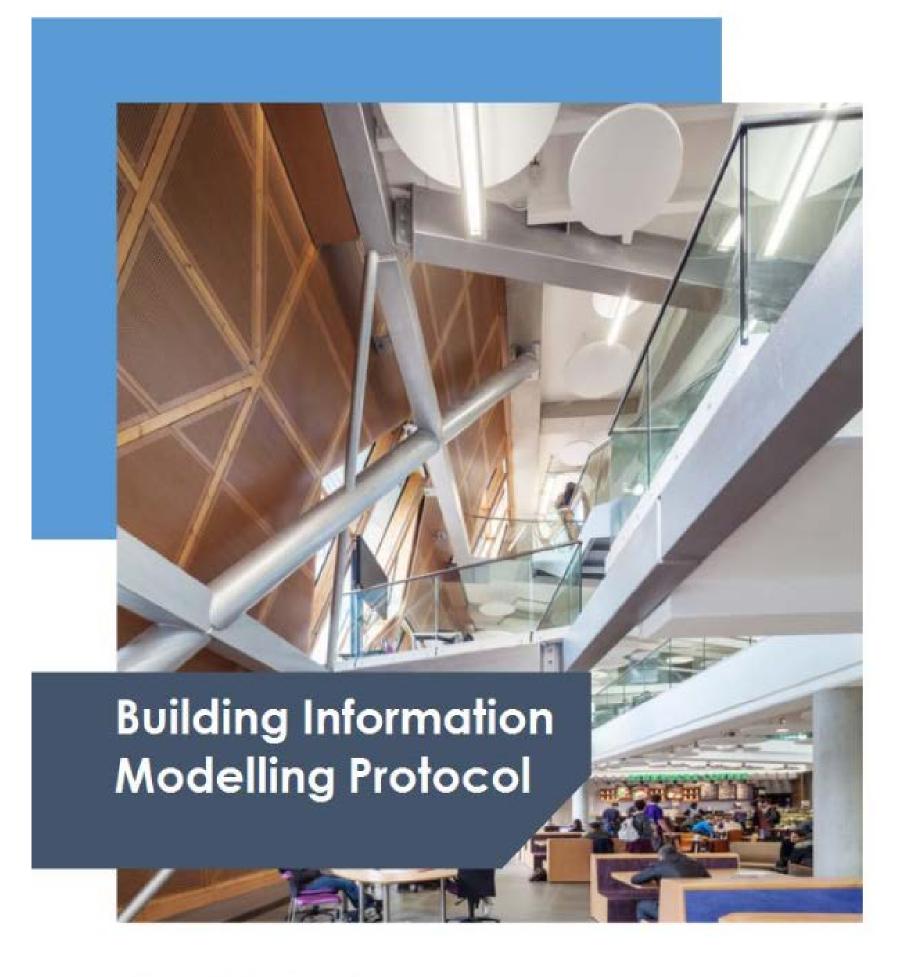


# BIM and Standards Compliance

Compliance with ISO 19650 1&2 International Standards.

### Naming and Numbering Convention:

- University Building Identification and Space Numbering Policy
- Documents Naming and Numbering Policy
- CAD Drafting and layering Policy
- Planon Import Drawings compatibility with Planon



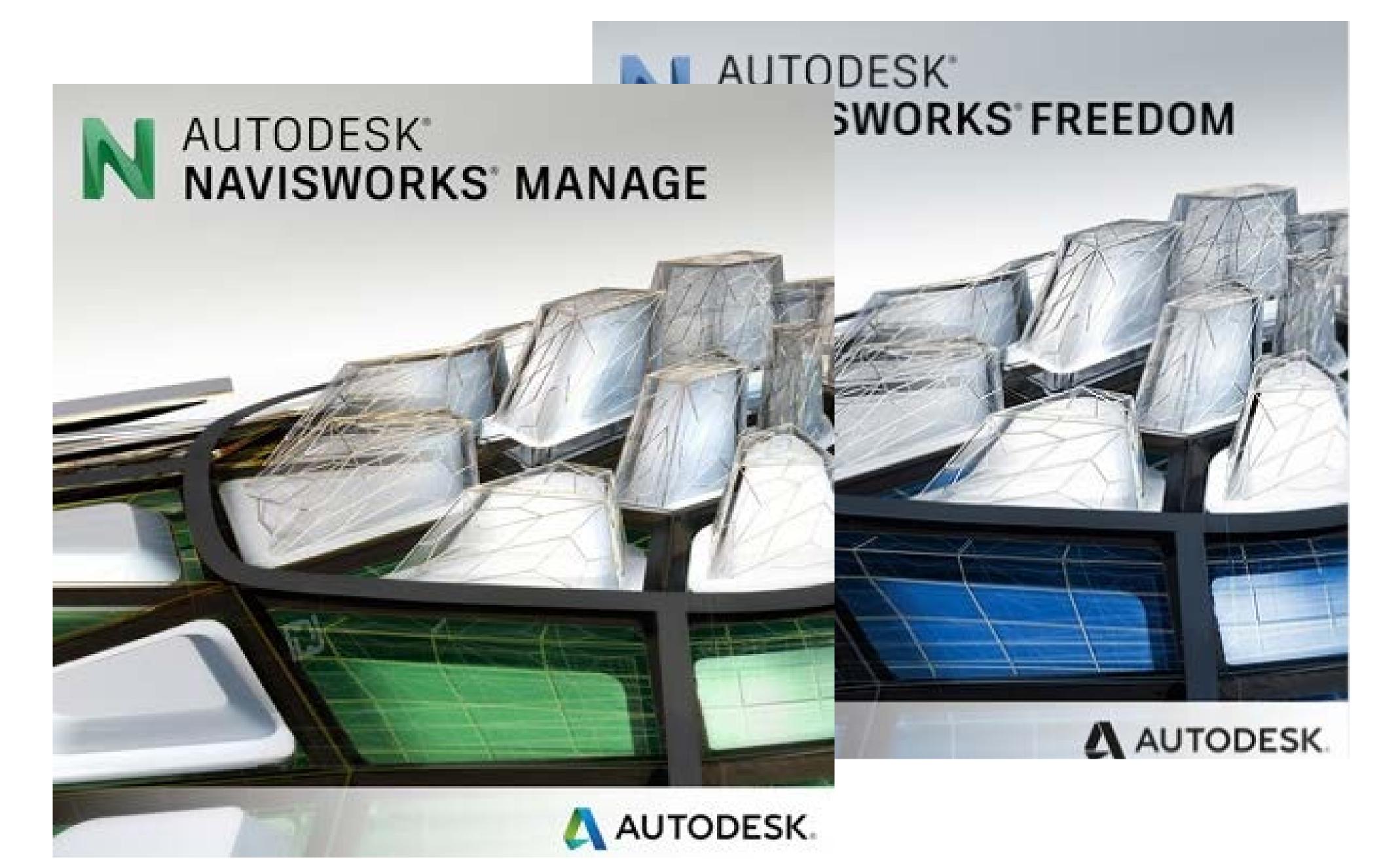
### **Coventry University**

Estates Department www.coventry.ac.uk

Alma Building, Alma
Street, Coventry CV1 5QA



### Processes for Clash Detection and Clash Prevention



Clash review week	Clash Title	Clash description	ESD Comment	Information Manager Comments 19.08.2019	28.08.2019
2018.11.06	001. Grid A-5 Clash	Process vent clashes, currently still do not have correct		Information Wanager Comments 19.08.2019	28.08.2019
2018.11.06	OUT. Grid A-5 Clash		Awaiting Nederman design approval		
		information on these systems to model correctly however			
		Nederman are now progressing their design following			
2040 44 06	OAS Cailing and a sada to account data and instant and in	approval from Rambolls	A malaita at ta a a mana ant	CNA to condute in As built model	No also as
2018.11.06	015. Ceiling grid needs to accommodate radiant panels		Architect to comment	GNA to update in As built model	No change
2018.11.06	016. Modelling inconsistencies		Architect to comment	GNA to update in As built model	No change
2019.05.31	09 WC Pipe duplicates	Duplicate pipework	Architect to remove their pipework	GNA to remove duplicate pipework	No change
2019.05.31	12 Cable tray in ceiling space	Cable tray within ceiling void	Incorporate in As Fitted	PRM to Incorporate in As Fitted	No change
2019.05.31	13 Cable tray fitting within ceiling zone	Cable tray within ceiling void	Incorporate in As Fitted	PRM to Incorporate in As Fitted	No change
2019.05.31	14 Cable tray within ceiling zone	Cable tray within ceiling zone	Incorporate in As Fitted	PRM to Incorporate in As Fitted	No change
2019.05.31	16 Drainage pipe with steel	pipe routing currently through steel	No clash in latest model	Clash has moved, pipe routings is not within	
				Builders work hole.	
				Photograph required from site	
2019.05.31	18 Cable tray steel frame	Cable tray within steel haunch.	Incorporate in As Fitted	PRM to Incorporate in As Fitted	No change
2019.05.31	19 light switch in steel beam	Light switch within steel zone	No clash in latest model	GNA to extend wall to U/S Ceilings. JP to chec	•
				unconnected drainage	
				pipe within riser.	
2019.05.31	20 Power outlet in steel	Power outlet within steel	No clash in latest model	Drainage SVP finishes at ground floor	No change
2019.05.31	21 Cable tray haunch	A further instance of cable tray clashing with haunch	Incorporate in As Fitted	Incorporate in As Fitted	No change
2019.05.31	24 Drainage downpipe - Steel channel clash	Drainage pipe clashing with steel channel on each floor	No clash in latest model	Drainage pipe no longers clashes with steel,	No change
2013.03.31	24 Statings downpipe Steel chainer classi	Brainage pipe classing with steel channel on each noor	No clash in lacest model	however clashing	The change
				with wall type L1. <b>GNA</b> to clarify wall position.	
2040.05.24	25 Birothorodo to d	Pine decline with steel and	Lancardo de Anglista d	Within wall lining L1	
2019.05.31	25 Pipe through steel	Pipe clashing with steel zone	Incorporate in As Fitted	JP to get photograph form site to reflect installation	
2019.07.30	01. Lighting Fixture	the battle of the account of the control of the con	i	In an addition of the later of that the	Classif
2019.07.30	02. BWIC Hole in Finis				
2019.07.30	04. Cable tray clash				

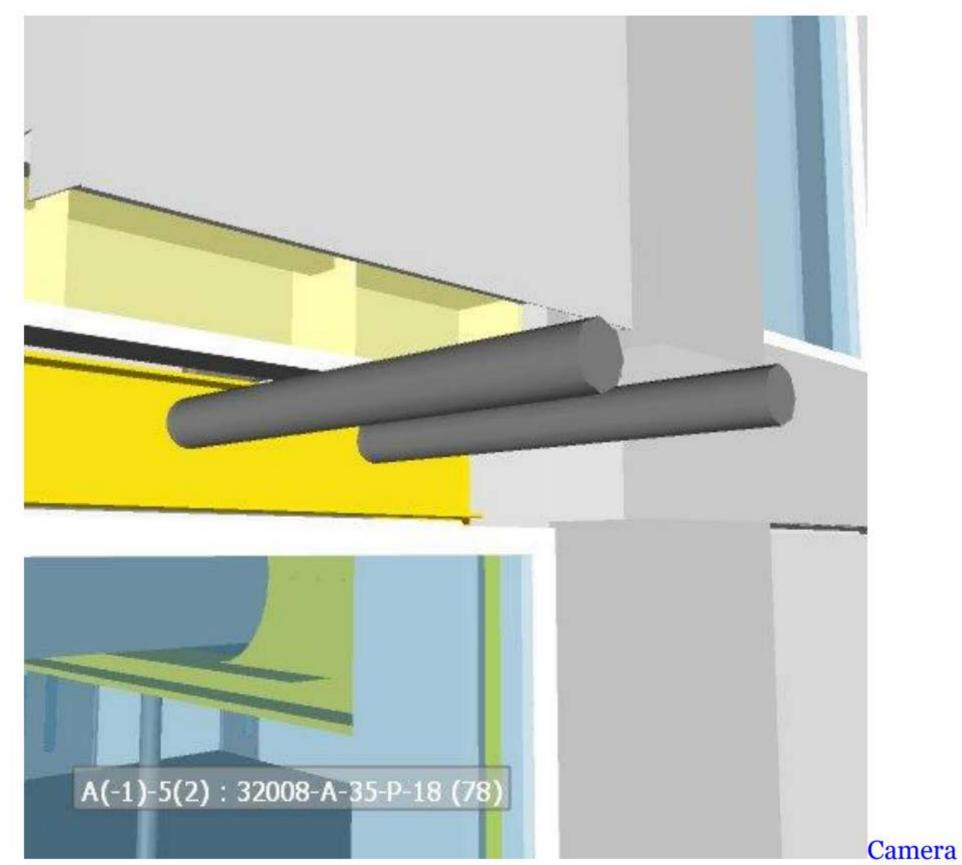


2019.07.30	01. Lighting Fixture
2019.07.30	02. BWIC Hole in Finis
2019.07.30	04. Cable tray clash
2019.07.30	05. Ductwork within \
2019.07.30	06. Light fitting withir
2019.07.30	07. PA Speaker and d
2019.07.30	08. Ductwork and chi
2019.07.31	10. Pipework with cal

.11111 \					
vithir	2019.07.30	11. Supply duct with cable tray	Self intersecting cable tray and pipe clash	GNA to delete lighting placeholder,	Duct no longer clashes, action is now for GNA
vithir and c d chi				JP to review duct and cable tray clash	to remove lighting placeholder
d chi	2019.07.30	12. Twin socket in BWIC zone	Twin sockets in builders work zone	JP to amend position of socket	Closed
th cal	2019.07.30	13. Supply clash with duct	Duct clashing with underside of steel	JP to get clarity from site of this clash	
	2019.07.30		Process extract in current configuration goes through steel, and concrete lintel.	JP to revise model after discussion with PRM and Nederman.  GNA will adjust model if necessary to reflect solution	
	2019.07.30	15. Lighting fixture at wrong height	Lighting fixture clashing with steel beam	JP to check light fixture	Closed
	2019.07.30	17. PA speaker clashing with duct	PA speaker currently clashed with duct bend	JP to reviw position of PA speaker. Can speaker	t Closed
		•		•	•

Clash review week	Clash Title	Clash description	ESD Comment	Information Manager Comments 19.08.2019	28.08.2019
2018.11.06	001. Grid A-5 Clash	Process vent clashes, currently still do not have correct	Awaiting Nederman design approval		
		information on these systems to model correctly however			
		Nederman are now progressing their design following			
		approval from Rambolls			
2018.11.06	015. Ceiling grid needs to accommodate radiant panels		Architect to comment	GNA to update in As built model	No change
2018.11.06	016. Modelling inconsistencies		Architect to comment	GNA to update in As built model	No change
2019.05.31	09 WC Pipe duplicates	Duplicate pipework	Architect to remove their pipework	GNA to remove duplicate pipework	No change
2019.05.31	12 Cable tray in ceiling space	Cable tray within ceiling void	Incorporate in As Fitted	PRM to Incorporate in As Fitted	No change
201	e sa seem o b se se	-		\s Fitted	No change
201	11 Grid A_5			As Fitted	No change

001. Grid A-5 Clash

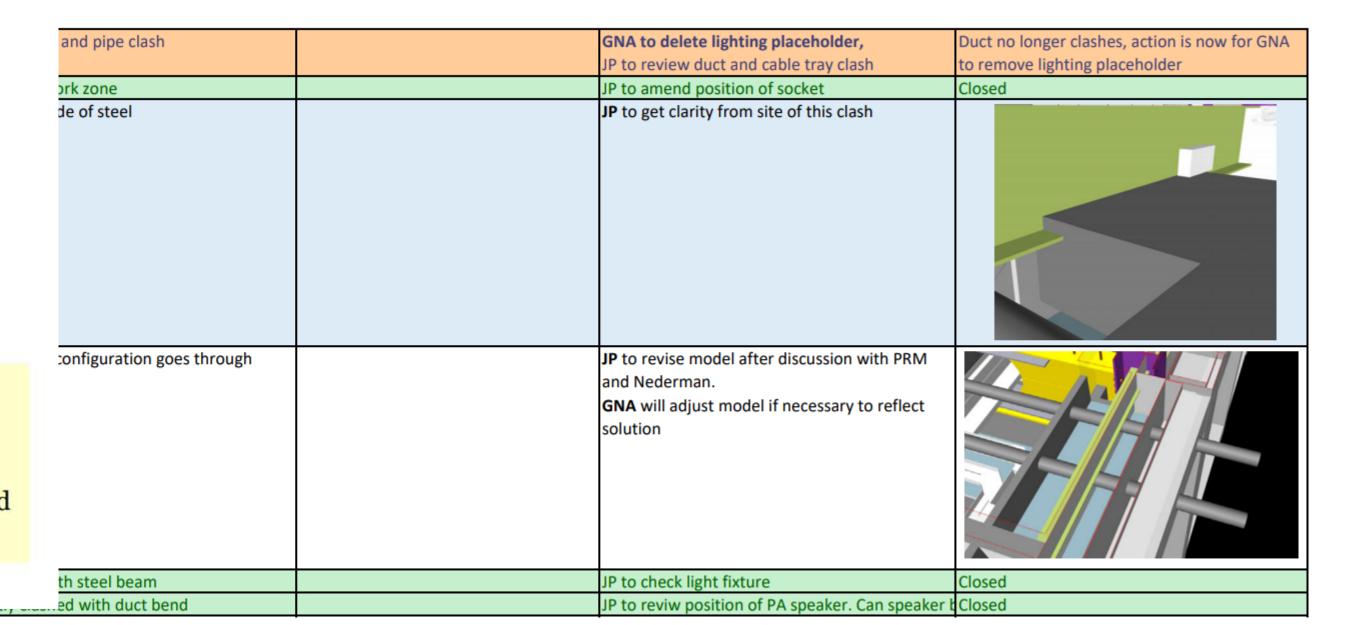


Position1424402.895ft, 914518.905ft, 260.152ft

### Comment 1

StatusActiveUserAshley.Poole-GrahamTextDuctwork currently clashes with beam, and externally with the concrete cill. Duct routing and vent detail needs to be agreed - P&R Morson2018/11/7 09:22:10



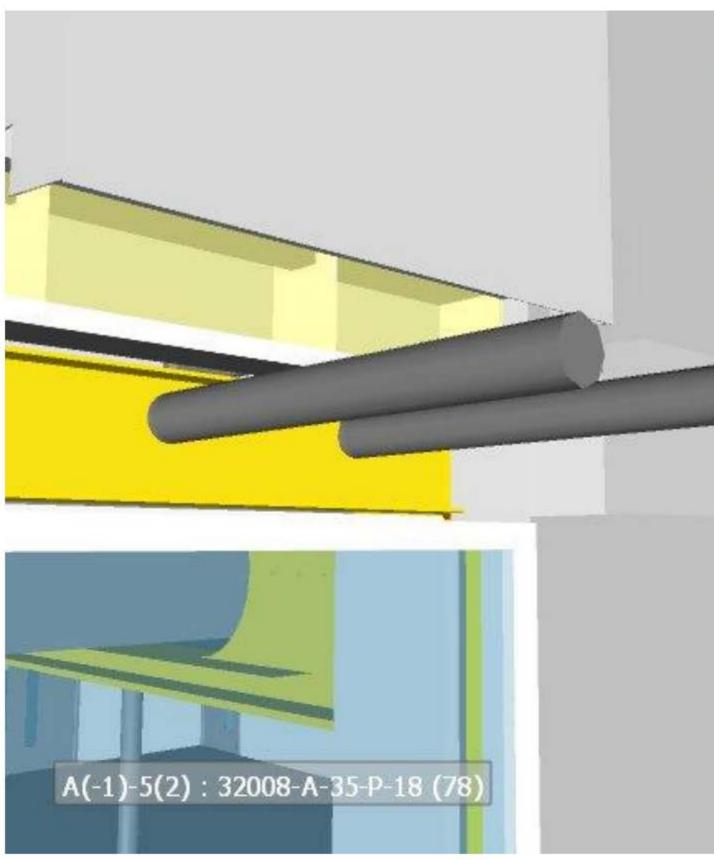


Clash review week	Clash Title	Clash description	ESD Comment	Information Manager Comments 19.08.2019	28.08.2019
2018.11.06	001. Grid A-5 Clash	Process vent clashes, currently still do not have correct	Awaiting Nederman design approval		
		information on these systems to model correctly however			
		Nederman are now progressing their design following			
		approval from Rambolls			
2018.11.06	015. Ceiling grid needs to accommodate radiant panels		Architect to comment	GNA to update in As built model	No change
2018.11.06	016. Modelling inconsistencies		Architect to comment	GNA to update in As built model	No change
2019.05.31	09 WC Pipe duplicates	Duplicate pipework	Architect to remove their pipework	GNA to remove duplicate pipework	No change
2019.05.31	12 Cable tray in ceiling space	Cable tray within ceiling void	Incorporate in As Fitted	PRM to Incorporate in As Fitted	No change
201	CONTRACTOR OF THE STATE OF THE	-		\s Fitted	No change
201	11 Crid A E			1s Fitted	No change

DK6.EDEEDOW

### 001. Grid A-5 Clash

201 201

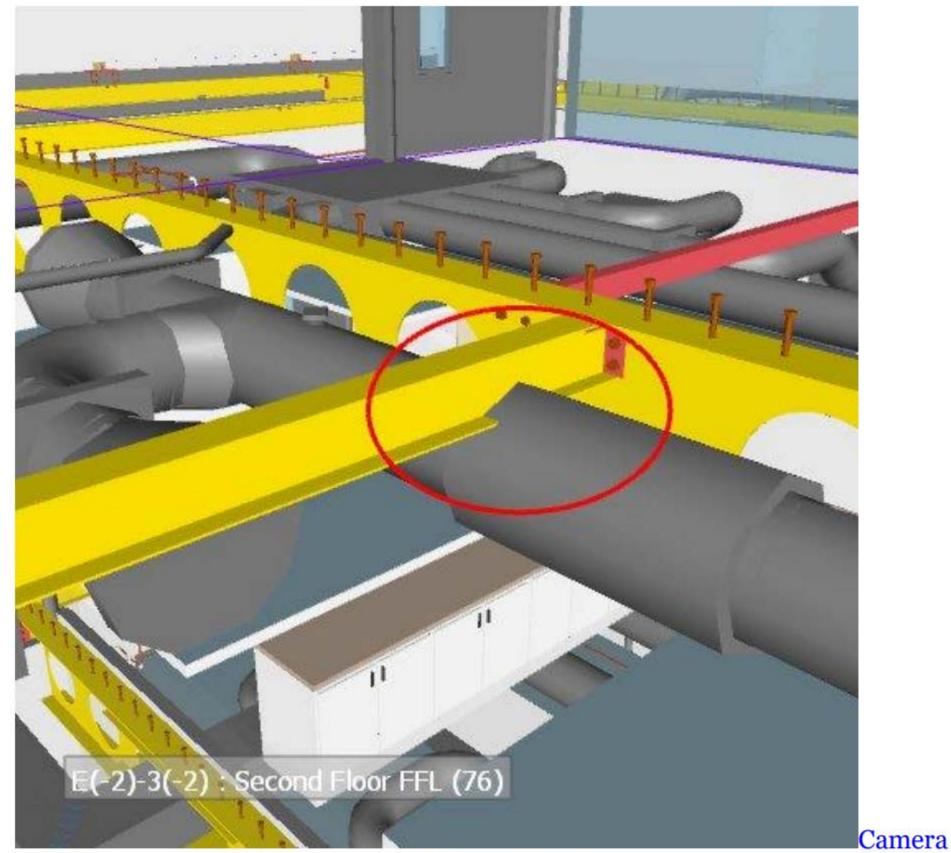


Position1424402.895ft, 914518.905ft, 260.152ft

### Comment 1

StatusActiveUserAshley.Poole-GrahamTextDuctwork current and externally with the concrete cill. Duct routing and vent de - P&R Morson2018/11/7 09:22:10

### 005. Clash 11 - E-3



Position1424529.641ft, 914528.930ft, 276.696ft

#### Comment 5

StatusNewUserAshley.Poole-GrahamTextAttenuator currently clashing with steel - P&R Morson2018/11/7 09:28:30



r,	Duct no longer clashes, action is now for GNA
ash	to remove lighting placeholder
	Closed
ash	
with PRM	
to reflect	

th steel beam

JP to check light fixture

Closed

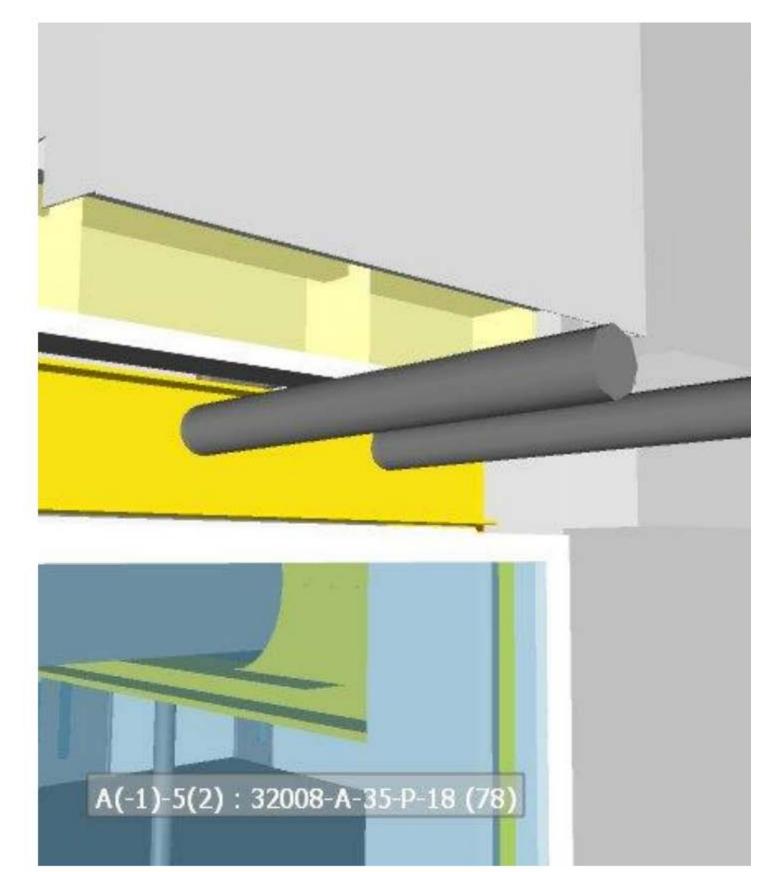
Led with duct bend

JP to reviw position of PA speaker. Can speaker the Closed

Clash review we	eek Clash Title	Clash description	ESD Comment	Information Manager Comments 19.08.2019	28.08.2019
2018.11.06	001. Grid A-5 Clash	Process vent clashes, currently still do not have correct	Awaiting Nederman design approval		
		information on these systems to model correctly however			
		Nederman are now progressing their design following			
		approval from Rambolls			
2018.11.06	015. Ceiling grid needs to accommodate radiant panels		Architect to comment	GNA to update in As built model	No change
2018.11.06	016. Modelling inconsistencies		Architect to comment	GNA to update in As built model	No change
2019.05.31	09 WC Pipe duplicates	Duplicate pipework	Architect to remove their pipework	GNA to remove duplicate pipework	No change
2019.05.31	12 Cable tray in ceiling space	Cable tray within ceiling void	Incorporate in As Fitted	PRM to Incorporate in As Fitted	No change
201	SUPPRIOR TO SUPERIOR DE LA PORT TOUR			As Fitted	No change
201 201	001. Grid A-5			\s Fitted	No change
201	out. Glid A-3		005	Clack 11 E 3	



### 005. Clash 11 - E-3



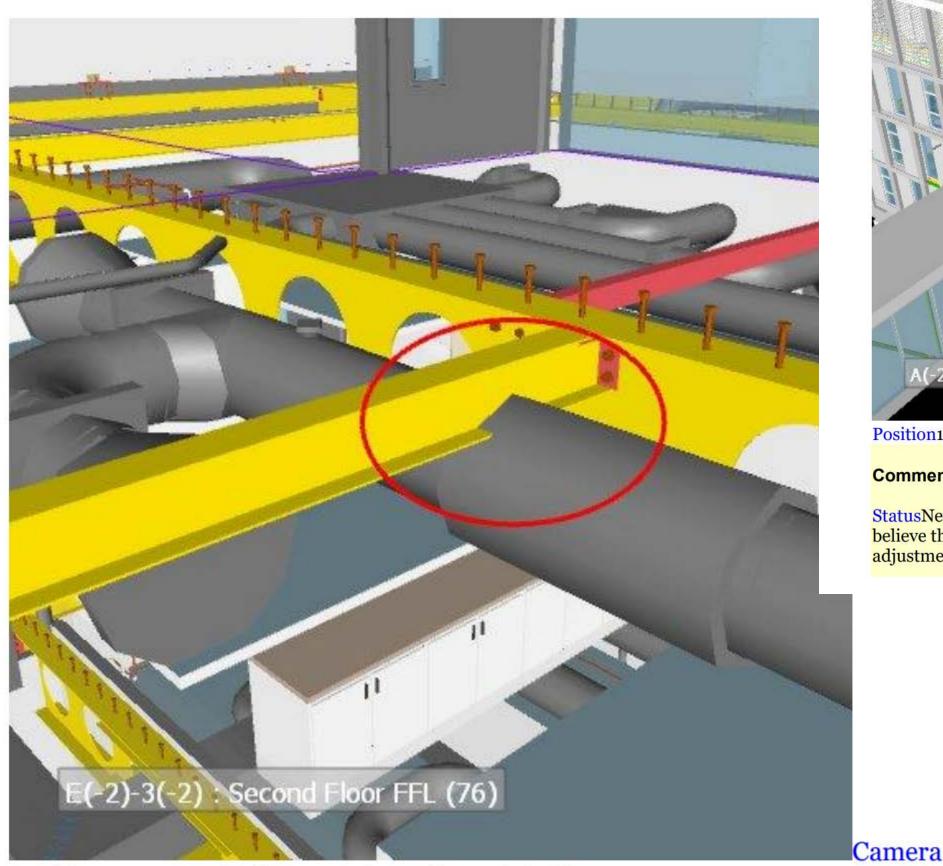
Position1424402.895ft, 914518.905ft, 260.152ft

#### Comment 1

Clash

201 201

StatusActiveUserAshley.Poole-GrahamTextDuctwork current and externally with the concrete cill. Duct routing and vent de - P&R Morson2018/11/7 09:22:10



Position1424529.641ft, 914528.930ft, 276.696ft

#### Comment 5

StatusNewUserAshley.Poole-GrahamTextAttenuator currently clashing with steel -P&R Morson2018/11/7 09:28:30

#### 010. METSEC VS STEEL FRAME



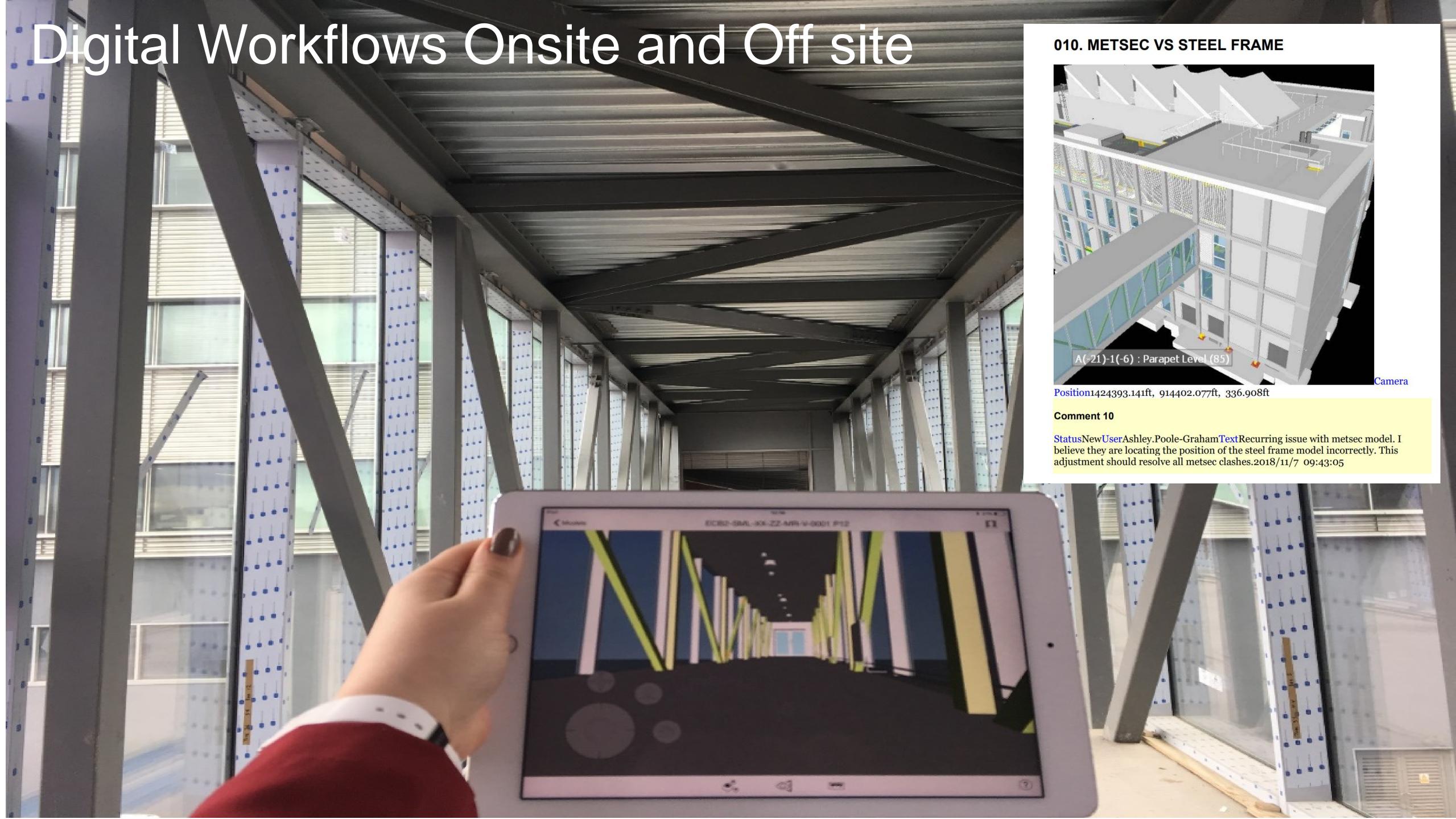
Position1424393.141ft, 914402.077ft, 336.908ft

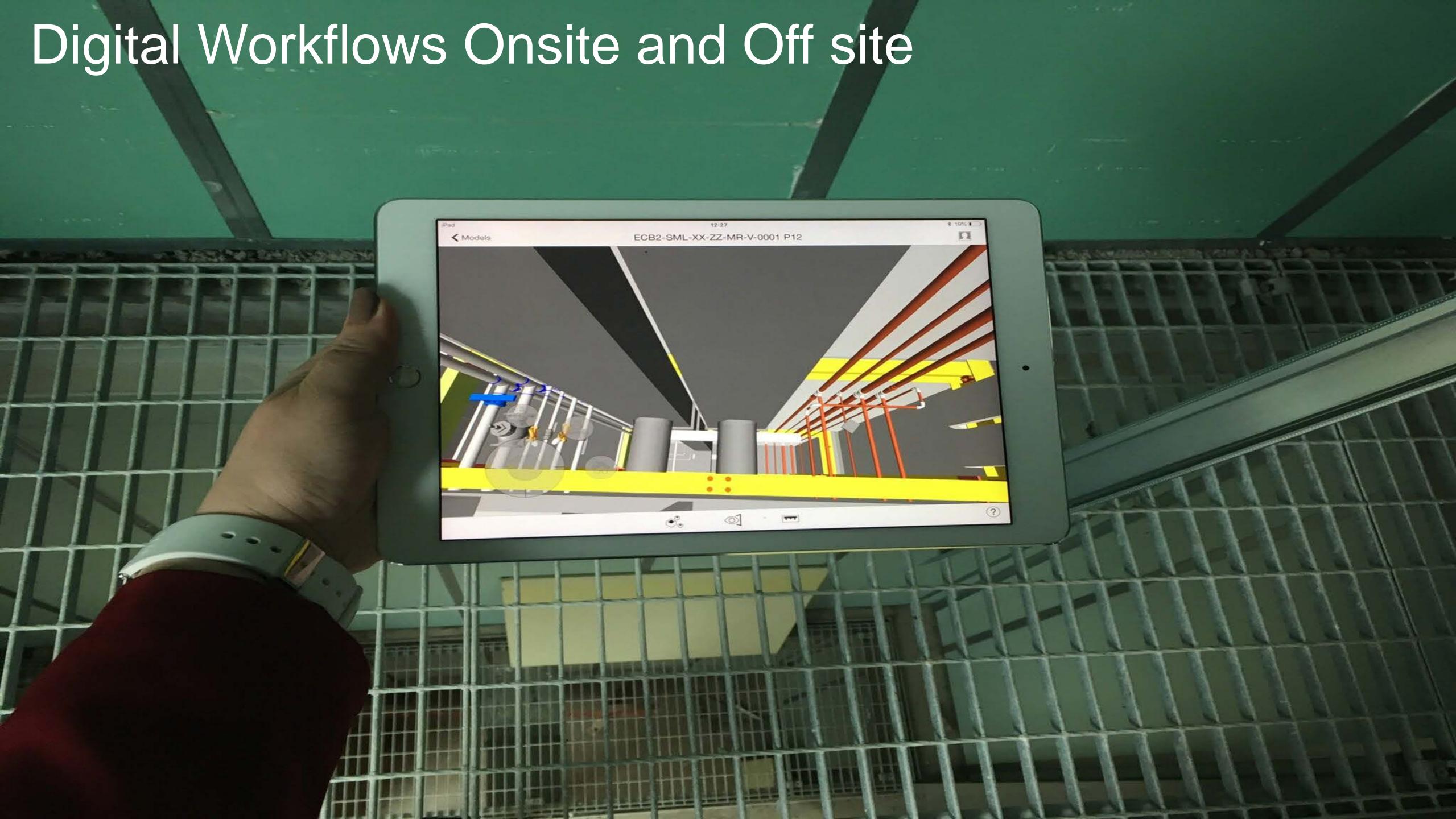
#### Comment 10

StatusNewUserAshley.Poole-GrahamTextRecurring issue with metsec model. I believe they are locating the position of the steel frame model incorrectly. This adjustment should resolve all metsec clashes.2018/11/7 09:43:05

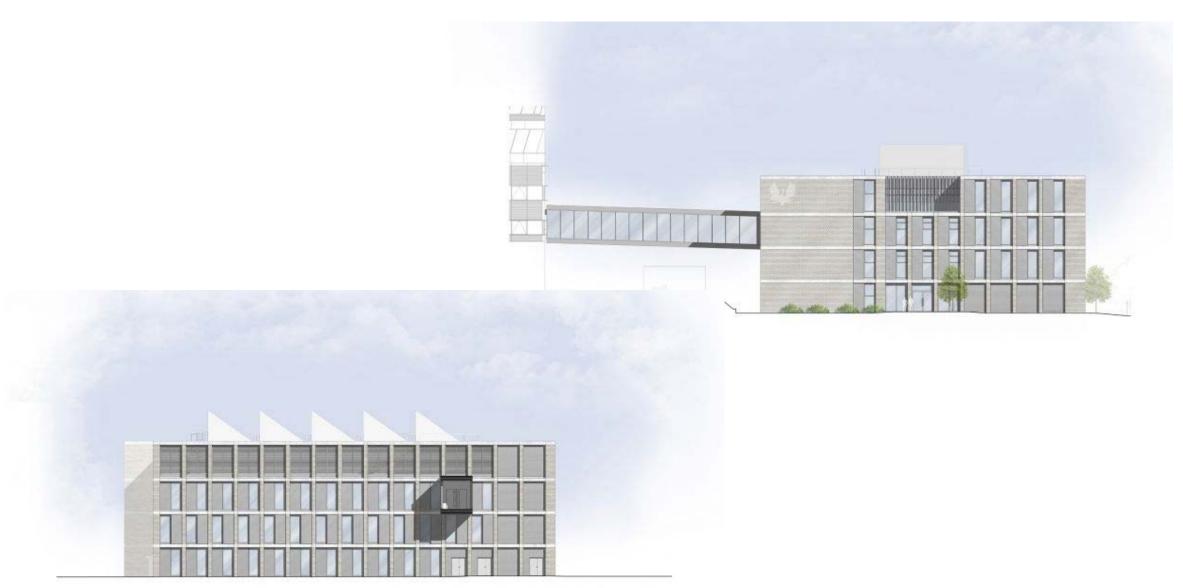
	Duct no longer clashes, action is now for GNA		
ash	to remove lighting placeholder		
	Closed		
ash			
with PRM to reflect			

th steel beam JP to check light fixture Closed JP to reviw position of PA speaker. Can speaker t Closed ed with duct bend











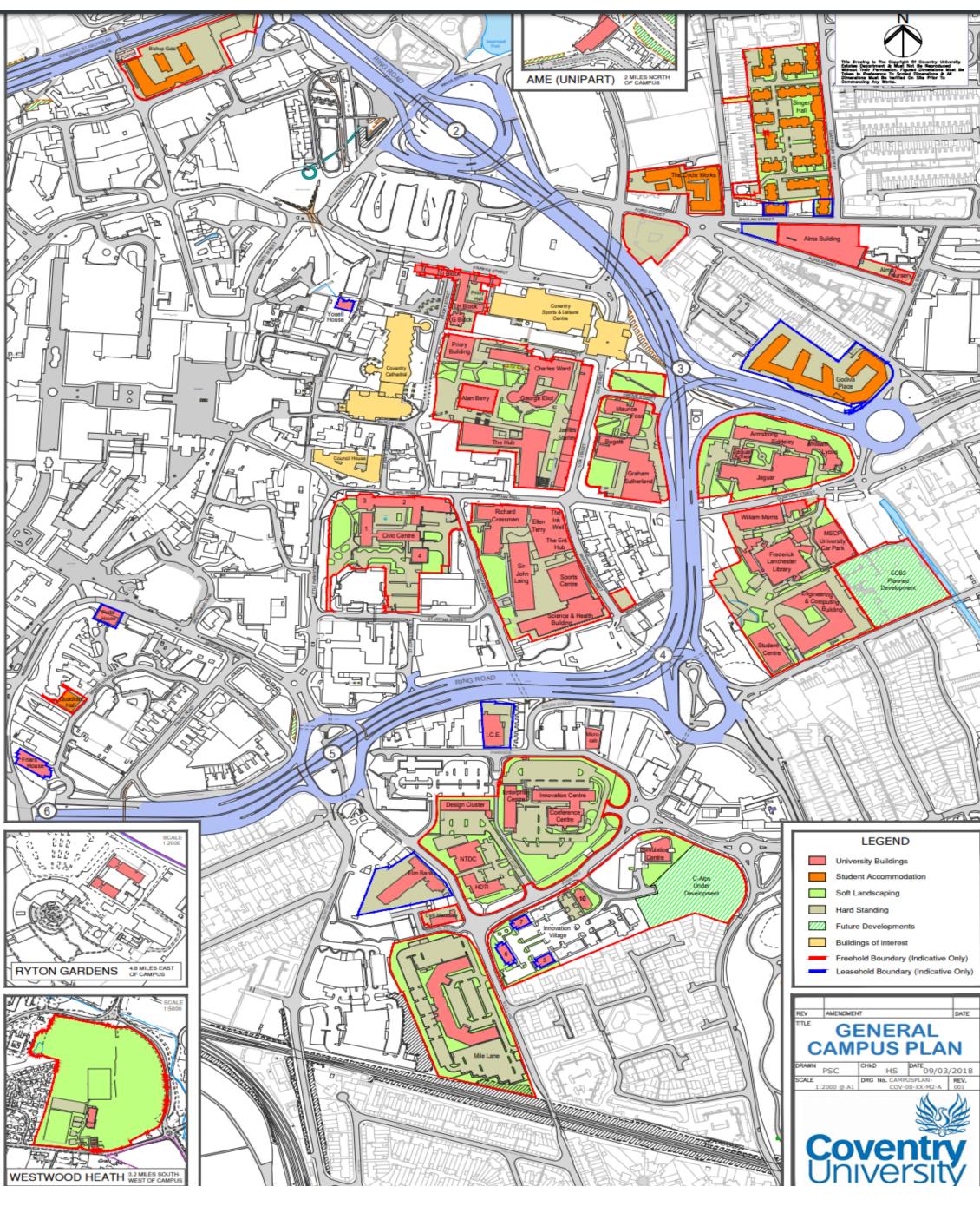


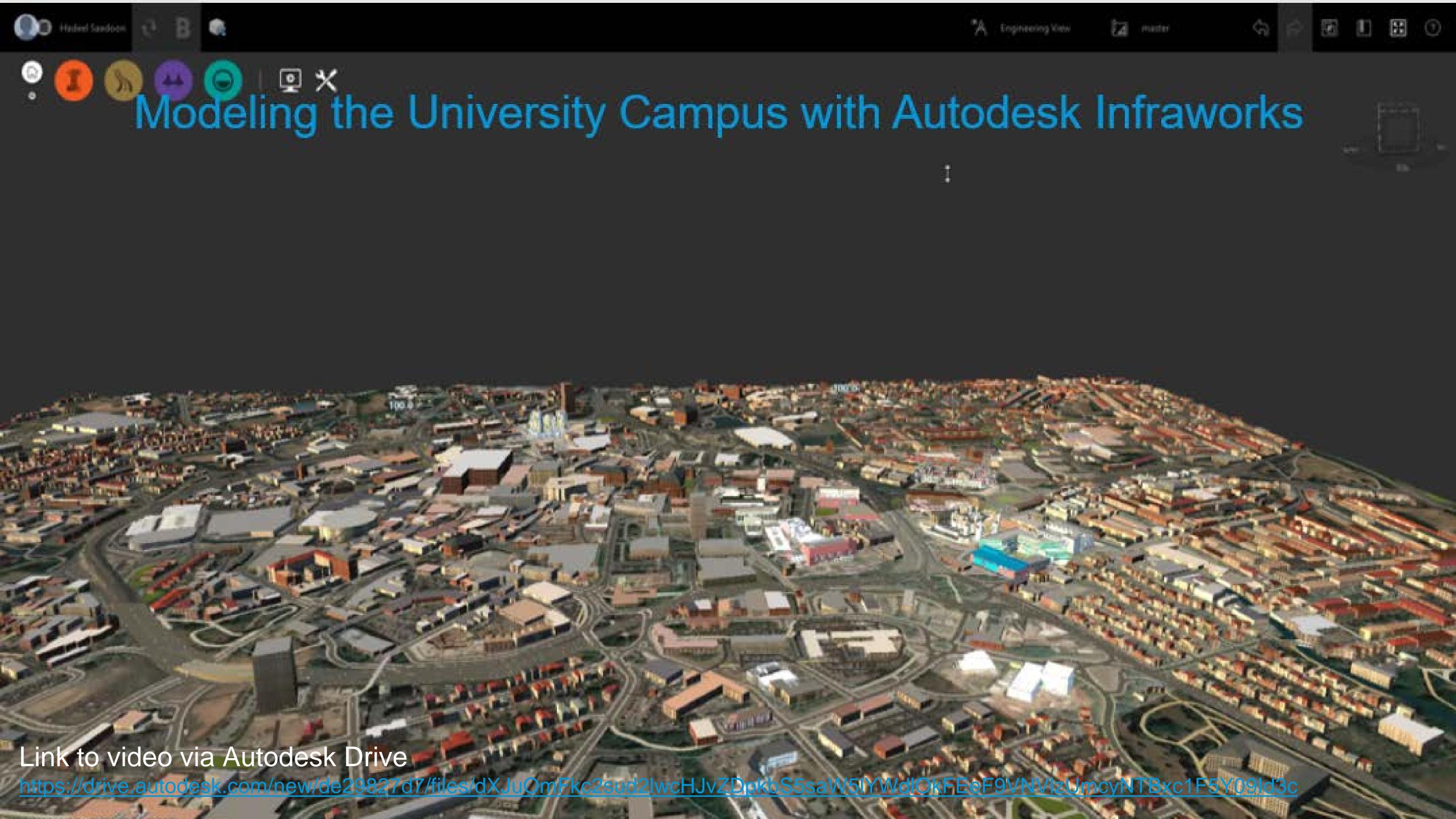
# Coventry University Digital Campus Digital Twin

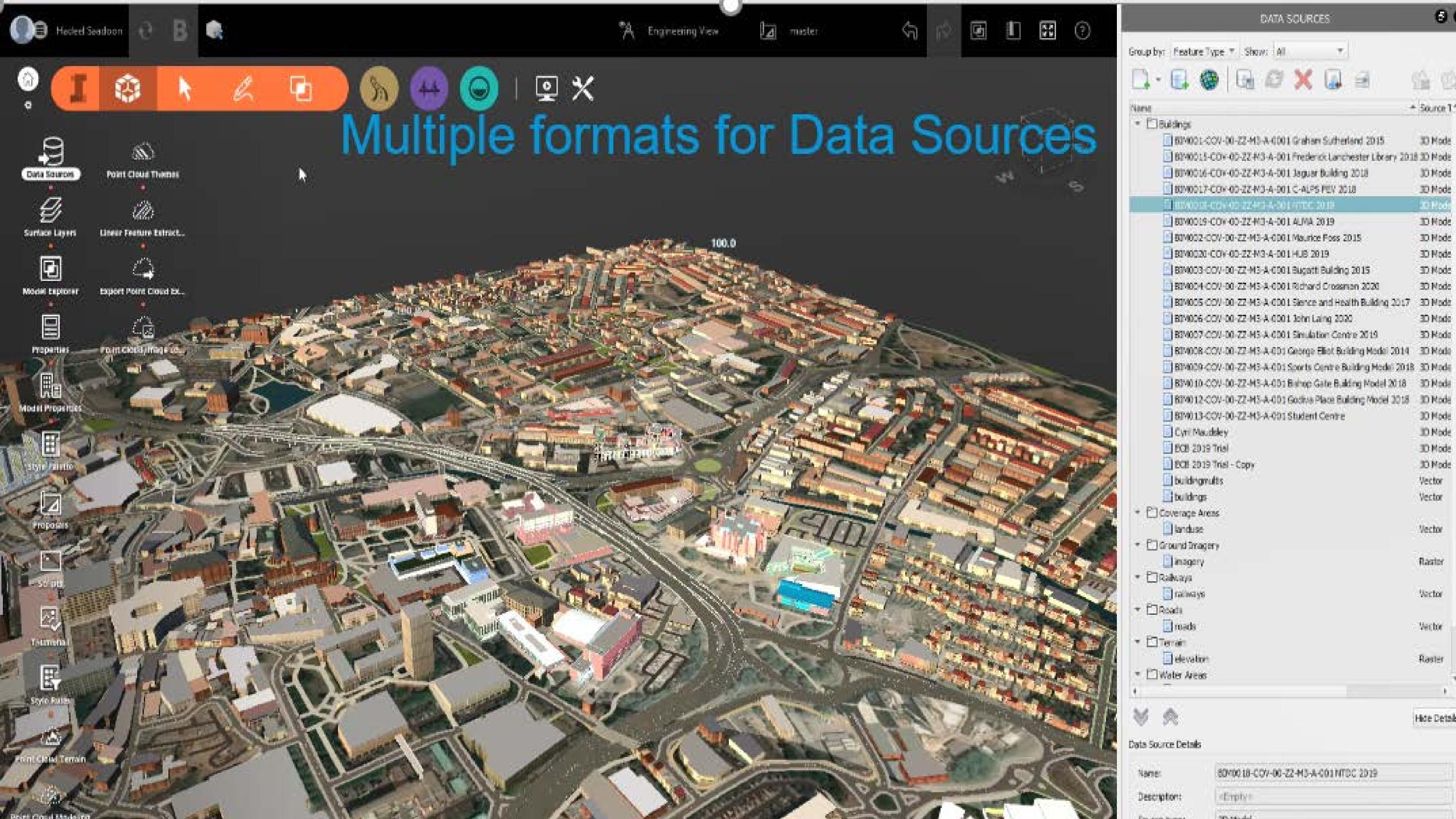
# Coventry University Map

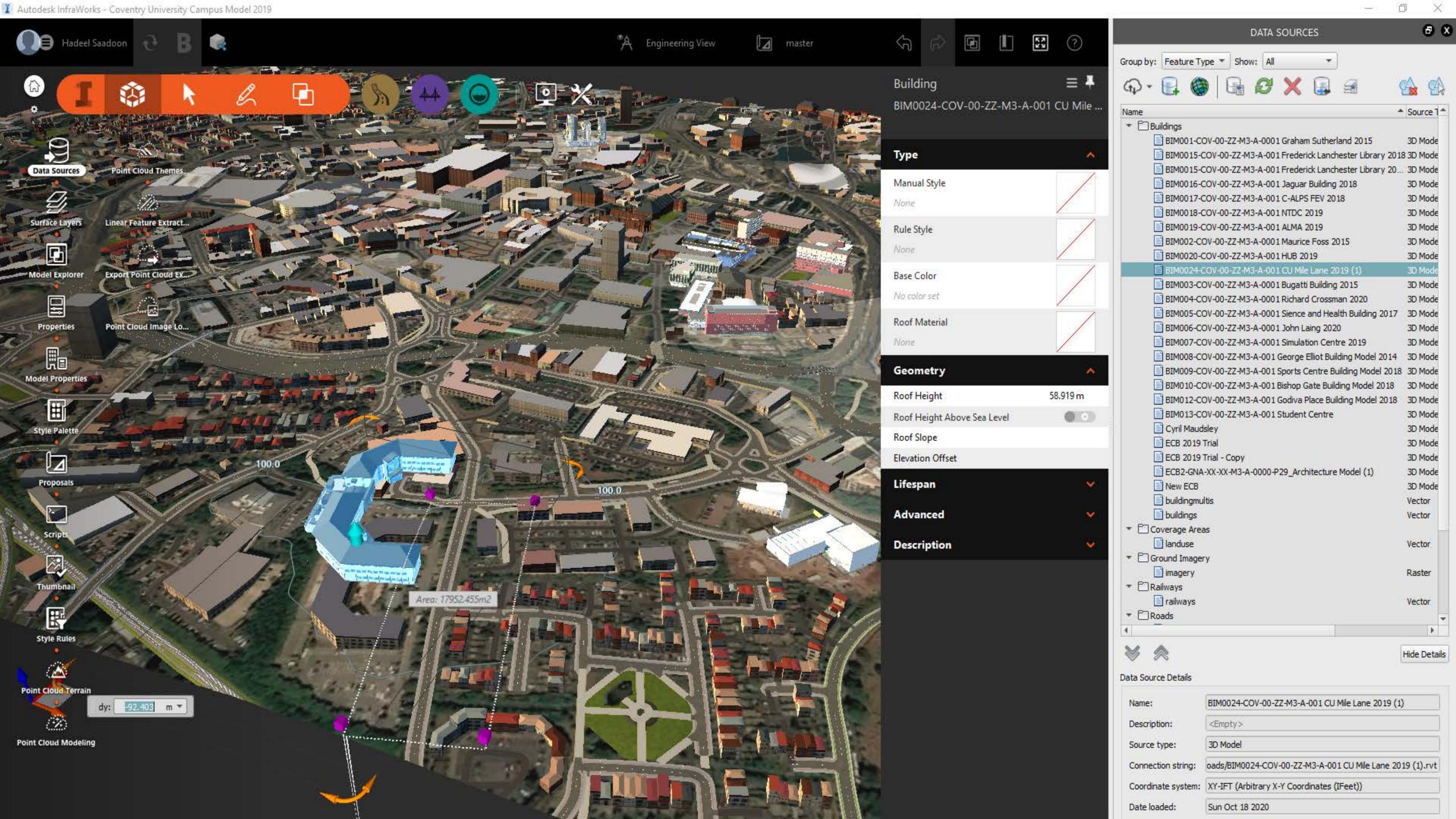
Fully detailed campus plan



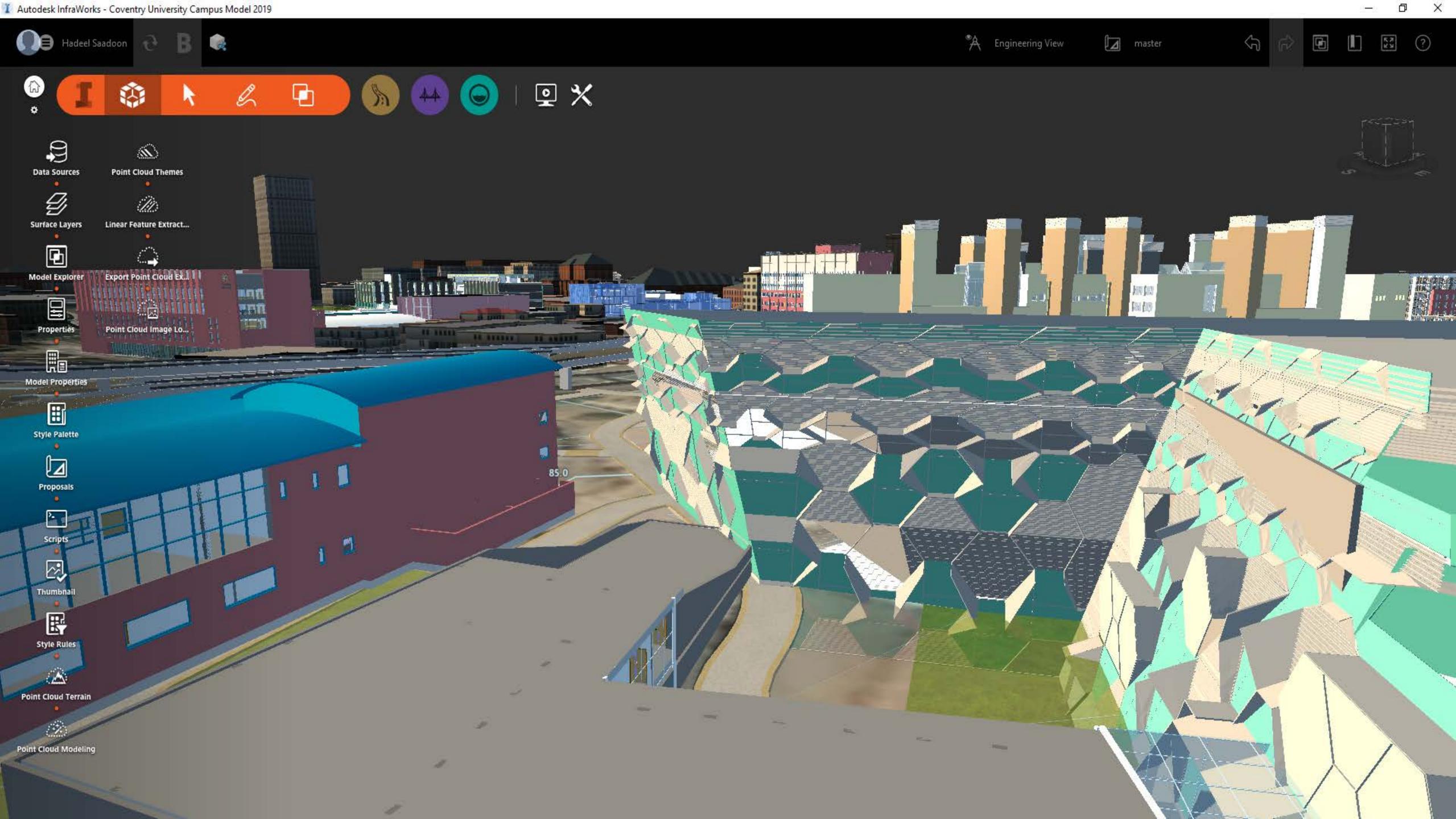




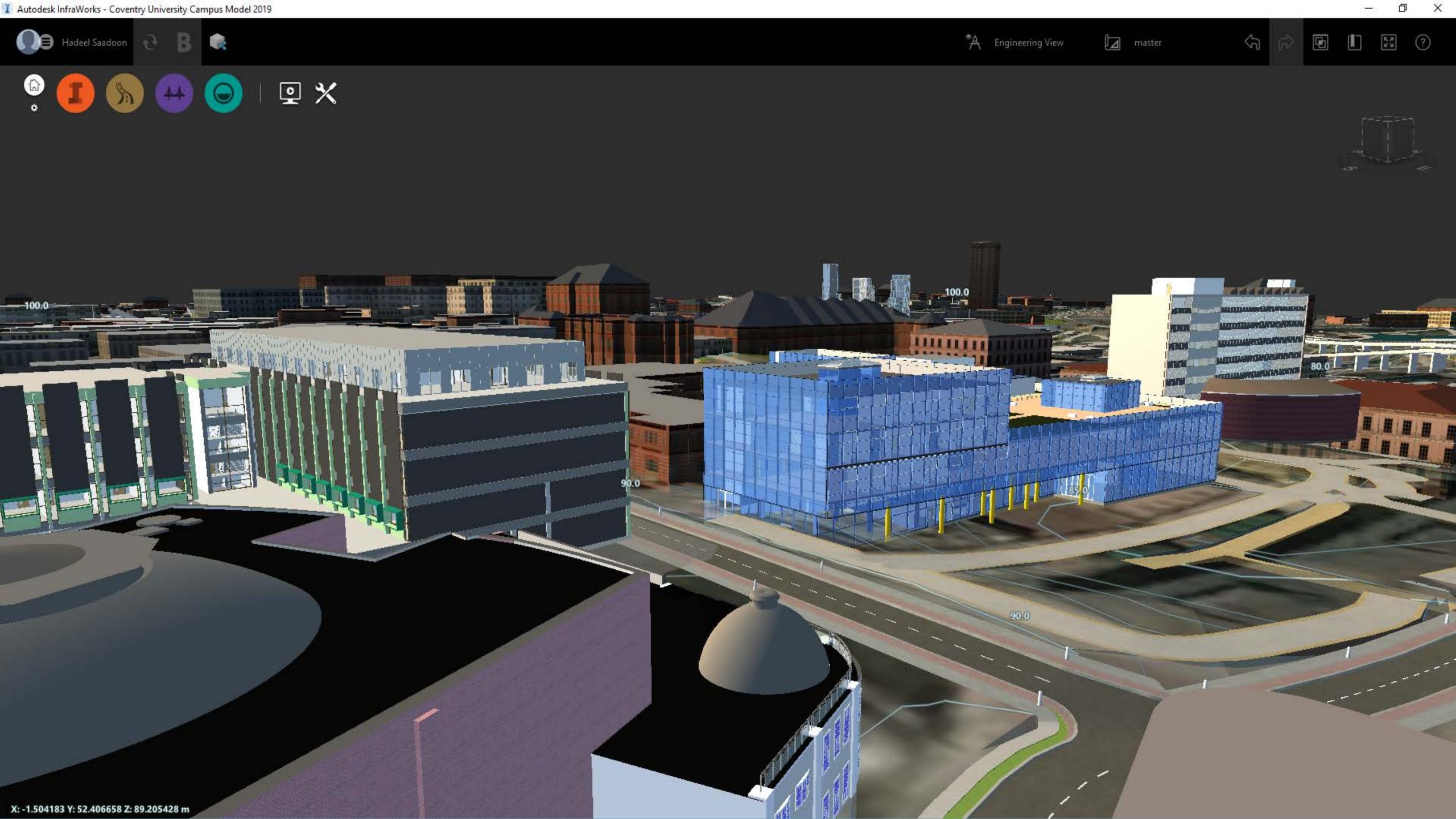




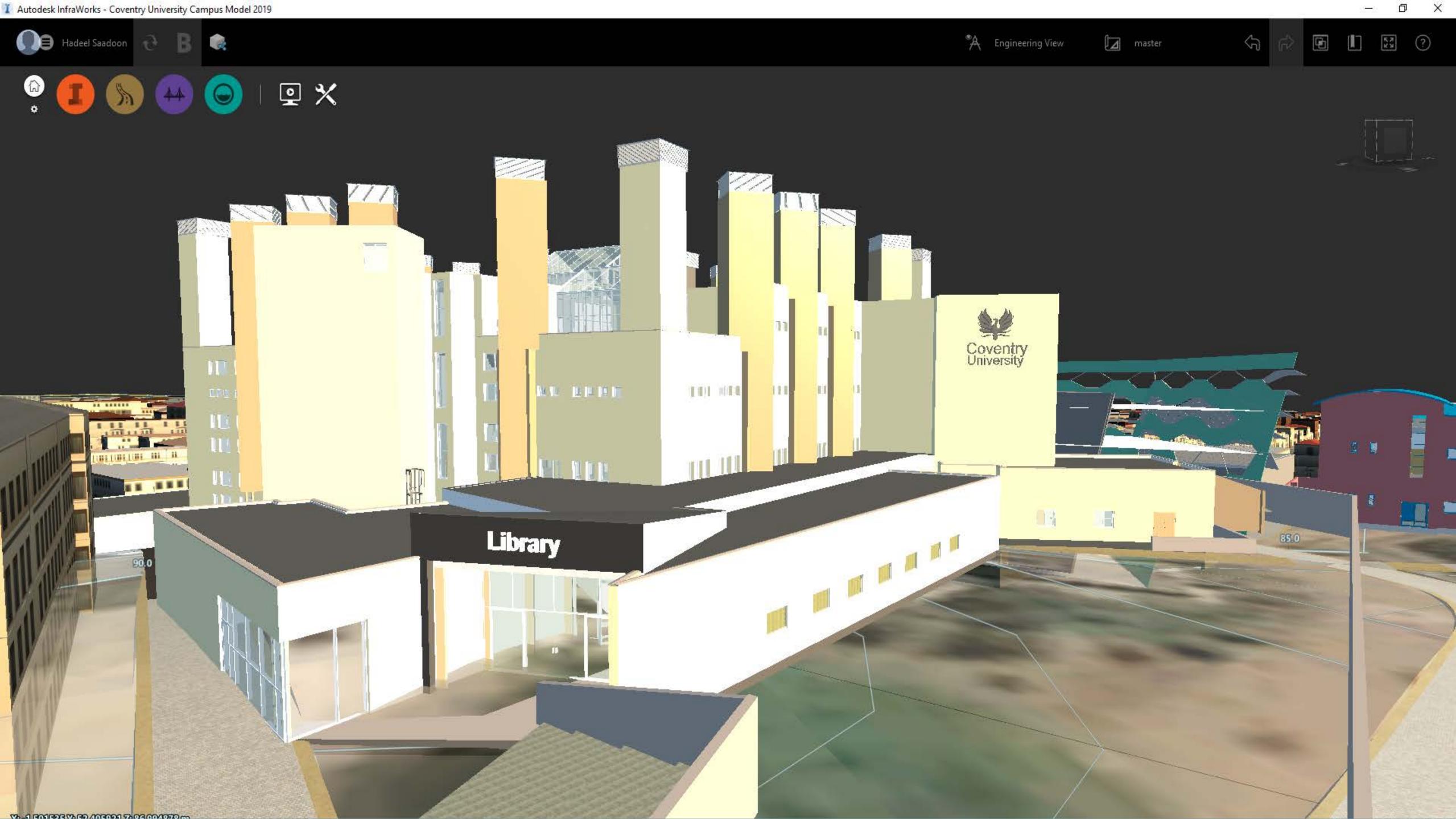


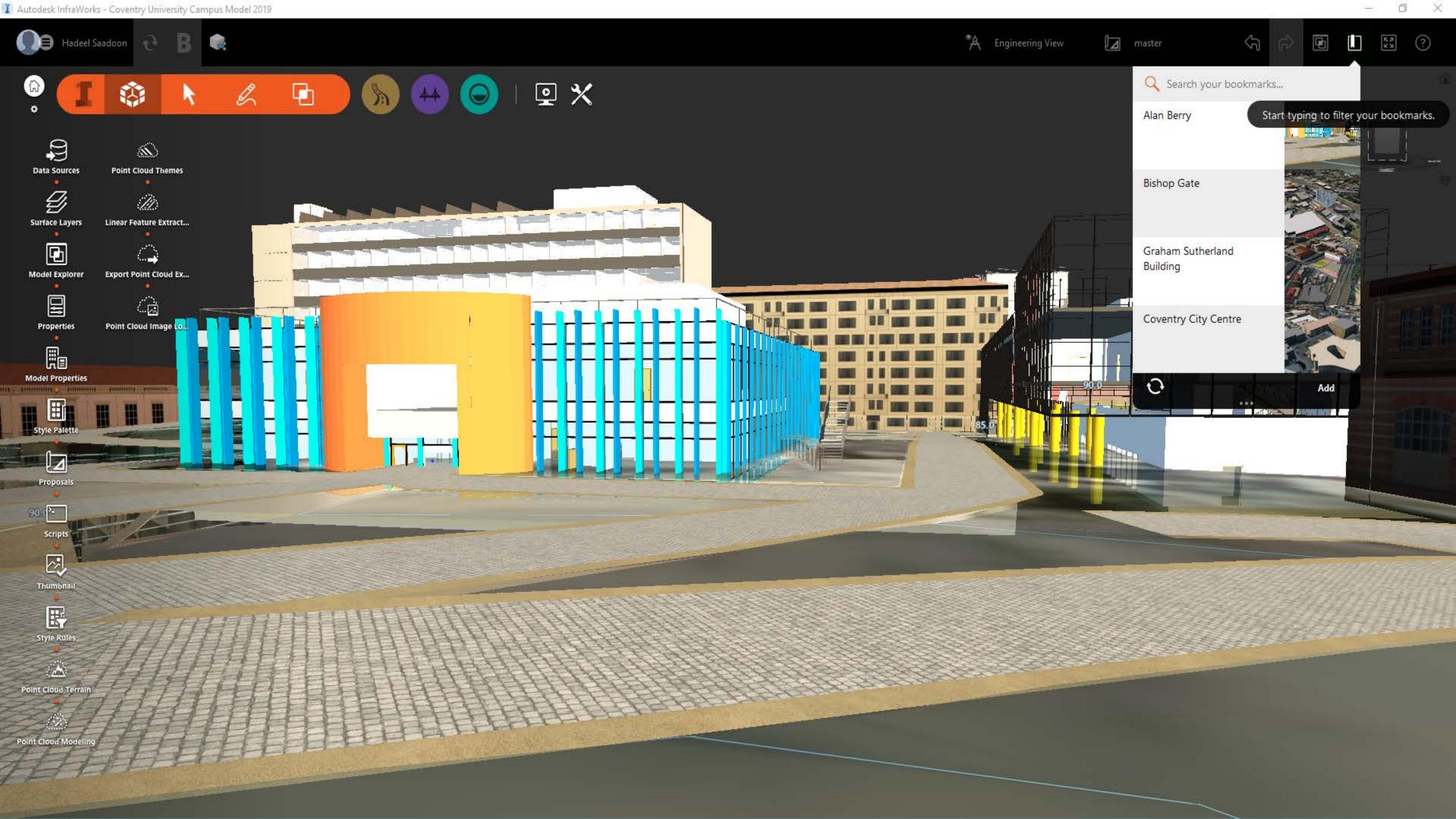










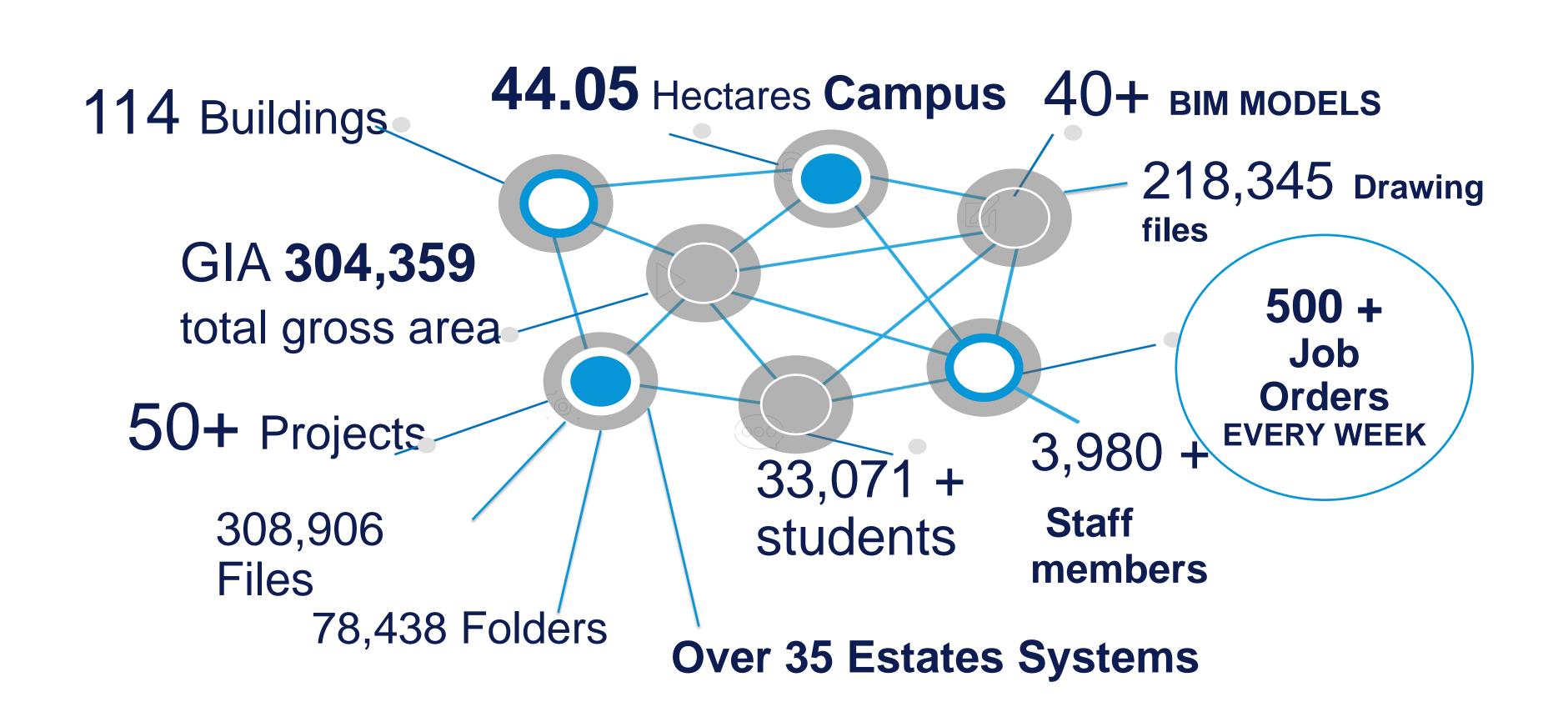




# Complex Data Sets Managing multiple campus buildings is not easy

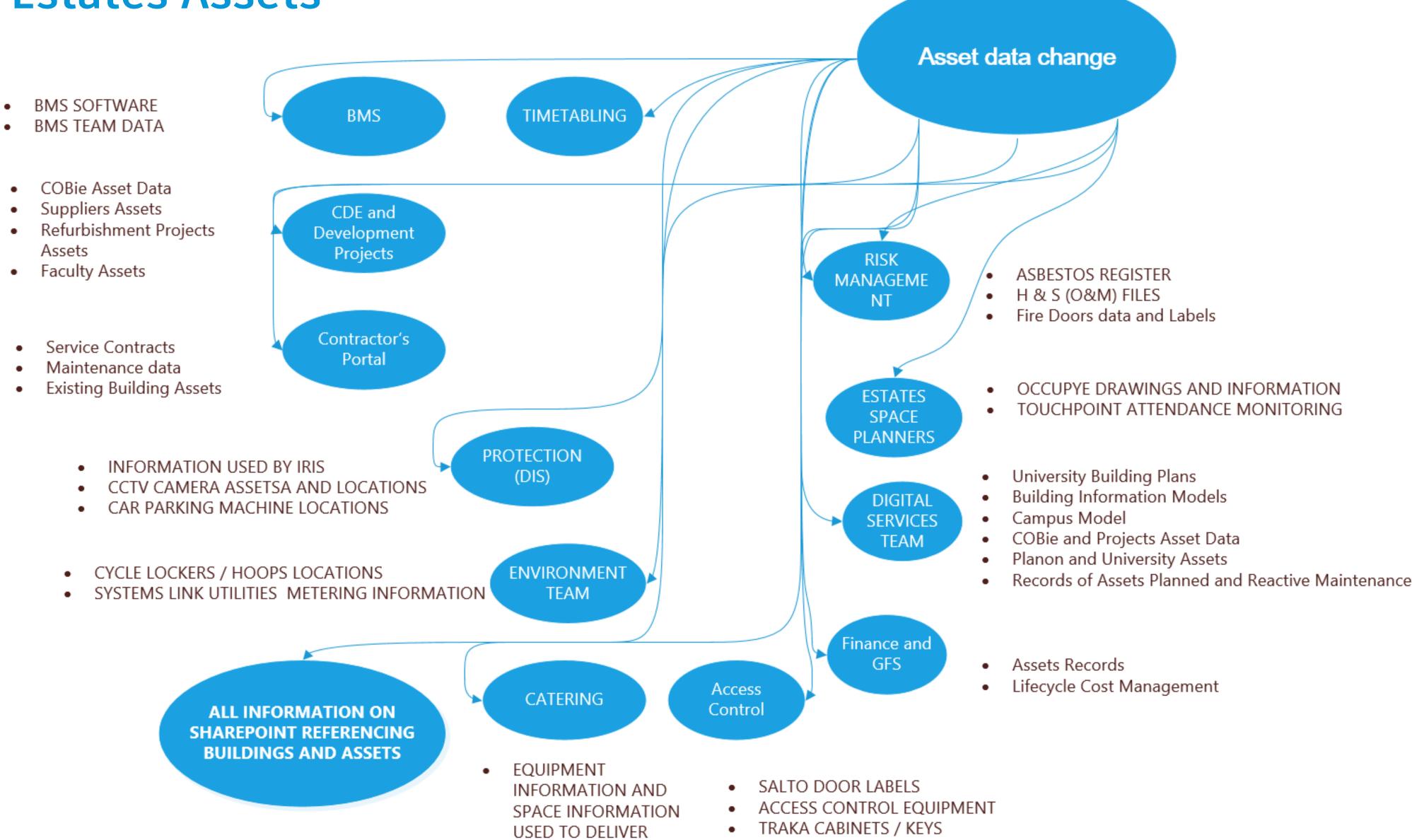
#### **Complex Estates**

Coventry University
Campuses in Coventry, London and Scarborough



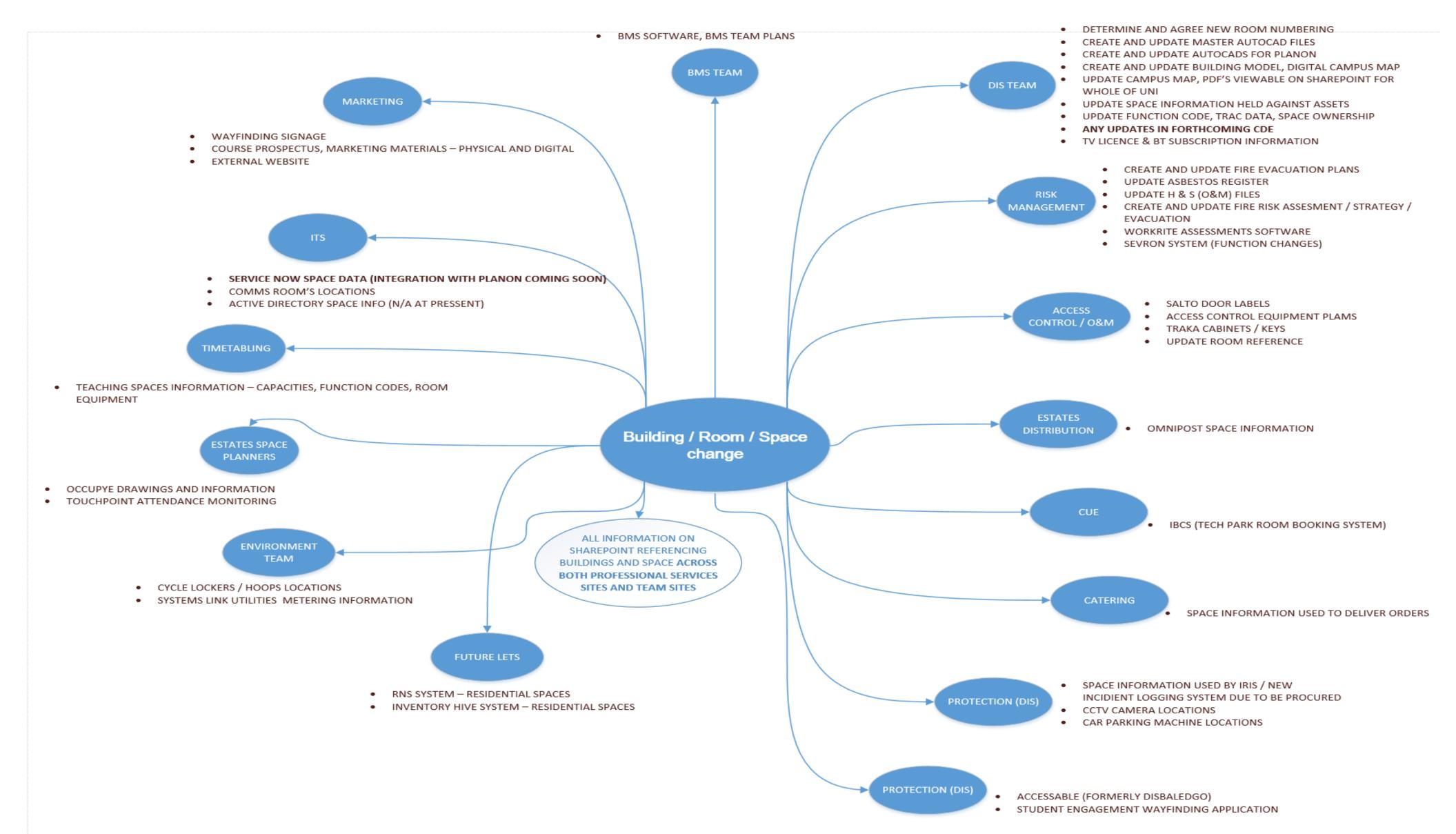
#### Assets Data Management

**Complex Estates Assets** 



ORDERS

## Systems Management Complex Estates Systems



## Space Management Complex Estates Spaces

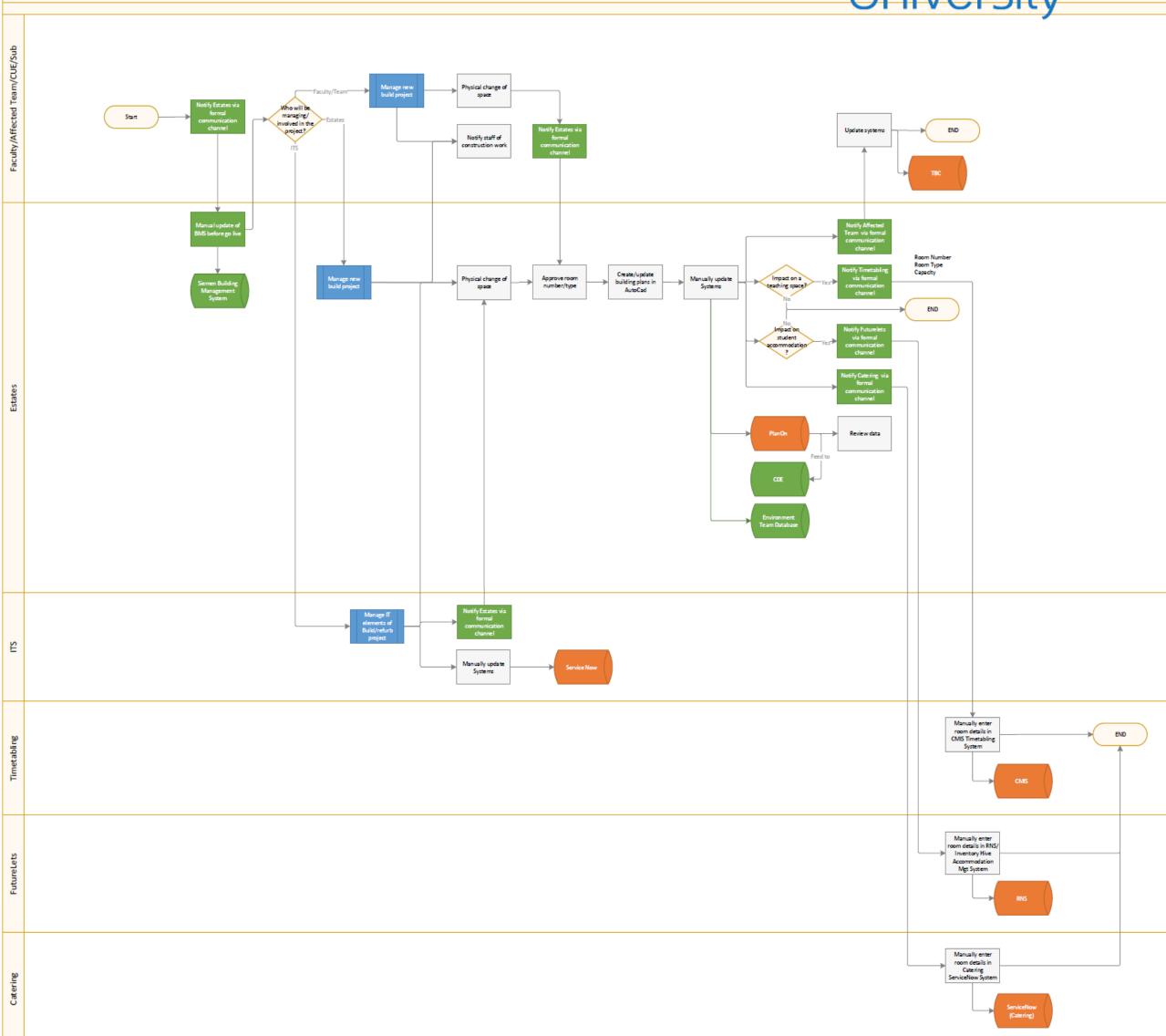


Date of Request:	try University - Space (	<u> Change Checklist</u>						
Date of Change: Building Code:	<u>.</u>		Cov	ventry				
Floor Code: Current Room Numbers (if applicable): Proposed CAD Plans (if applicable):	- -		0		ry University - Space C	hange Checklist		
Checklist Documentation to be held on DIS Team Share					<u> </u>	8		W /v
No. Item	Team Responsible Space Numbering		Does this require updati Date	Date of Request:				900
1 New Room Numbers Confirmed	DIS Team Building Drawings	Brett Plant		Date of Change:				
<ol> <li>Building Drawings Updated: Master AutoCAD Files</li> <li>Building Model Updated: Master Revit Models</li> </ol>	DIS Team DIS Team	Chadila Azeem Clias Mohlahii		Building Code:				Coventry
4 Building Model Updated: Digital Campus Map 5 Building Drawings Updated: Fire Evacuation Maps	DIS Team Rick Management	Hadeel Saadoon Andy Jackson		Floor Code:				Coverity
<ol> <li>Building Drawings Updated: Campus Map (20)</li> <li>Building Drawings Updated: Drawings to CAFM</li> </ol>	DIS Team DIS Team	Paul Clarke Paul Clarke		Current Room Numbers (if applicable):				University
Building Drawings Updated: PDF Version Updated/K     Building Drawings Updated: Upload to Webpage	DIS Team DIS Team	Elias Mohlahli Elias Mohlahli		Proposed CAD Plans (if applicable):				,
<ol> <li>Building Drawings Updated: SharePoint (if required</li> <li>Building Drawings Updated: M&amp;I Services Drawing</li> </ol>	DIS Team	Eliax Mohlahli						
12 Building Drawings Updated: Security Maps 13 Building Drawings Updated: Marketing / Wayfinding	Marketing			Chacklist Documentation to be held on DIS Team S	haraPoint For any averies surrounding th	is shasklist or space shapaes	nlages amail: act dist@coventry a	s uk
<ol> <li>Building Drawings Updated: Emergency Lighting Mb</li> <li>Building Drawings Updated: Accessibility/ Disability</li> </ol>	OSM team OSM team or Risk Management	Christiano Landgraf Christiano Landgraf		Checklist Documentation to be held on DIS Team Si				
<ol> <li>Building Drawings Updated: ITS (Network / W/F) Dr.</li> <li>Building Drawings Updated: Elec Panel Drawings</li> </ol>	Disk Management	Terry Watson? Andy Jackson	<u>•</u>	<u>ltem</u>	<u>Team Responsible</u>	Data Contact	Does this require updating?	Date of Change   Signed By
18 Physical Change: Door Numbers	Physical Changes DIS Team?	Brett Plant			Space Numbering			
<ol> <li>Physical Change: Salto Door Labels</li> <li>Physical Change: Wayfinding Signage</li> </ol>	Access Control Marketing	Chris Davis		New Room Numbers Confirmed	DIS Team	Brett Plant		
21 Physical Change: Distribution Board Labelling 22 Physical Change: ITS Network Point Labels (7 or dat	OSM team ITS	Nell Williams Terry Watson?			Building Drawings			
21 Physical Change: Fire Alarm Control Panels 24 Physical Change: Access Control / TRAKA / Keys	Risk Management Access Control / O&M	Andy Jackson Chris Davis / Phil Hodek		Building Drawings Updated: Master AutoCAD Files	DIS Team	Khadija Azeem		
25 Document Records: Asbestos Register 26 Document Records: OSM Manuals	Risk Management OSM team	Tom Marriot	<del></del>	Building Model Updated: Master Revit Models	DIS Team	Elias Mohlahli		
27 Document Records: H&S Files 28 Document Records: Website Information	Risk Management	Karen Lawrence		Building Model Updated: Digital Campus Map	DIS Team	Hadeel Saadoon		
29 Document Records: SharePoint Information 30 Procument Records: Team Star.				Building Drawings Updated: Fire Evacuation Maps	Risk Management	Andy Jackson		
11 Document Records: Emergency Lighting 12 Document Records: Fire Risk Assessment / Strategy	OEM Risk Management	Karen Lawrence						
13 Document Records: ITS Network Points etc? 34 Document Records: Wayfinding Documentation	ITS			Building Drawings Updated: Campus Map (2D)	DIS Team	Paul Clarke		
15 Document Records: Lease Documentation?? (Chec) 15 Document Records: Marketine Materials (Ones Dec	Estates Development Marketine	Steve Drans	<del>                                     </del>	Building Drawings Updated: Drawings to CAFM	DIS Team	Paul Clarke		
17 Student Engagement: AccessAble Hormerly Bisable	Student Services Student Services?	T		Building Drawings Updated: PDF Version Updated/Created	DIS Team	Elias Mohlahli		
18 Student Engagement: Wayfinding Application 39 Moodle - Update drawings shared to students - DCI		Richard Stephenson		Building Drawings Updated: Upload to Webpage	DIS Team	Elias Mohlahli		
40 Plance: Soors Numbers (Undated)	Systems Data DIS Team	Boatt Plant	0	Building Drawings Updated: SharePoint (If required)	DIS Team	Elias Mohlahli		
41 Planon: Drawings Uploaded 42 Planon: Function Code / Room Type	DIS Team DIS Team	<u> </u>	1	Building Drawings Updated: M&E Services Drawings				
43 Planon: Decartment / Division 44 Planon: Functional Suitability Score	DIS Team DIS Team	David Woolley	2	Building Drawings Updated: Security Maps				
45 Planon: TRAC Solit 46 Planon: Assets Attatched	DIS Team DIS Team	David Woolley David Woolley (TBC)	3	Building Drawings Updated: Marketing / Wayfinding Maps	Marketing			
47 ServiceNow: Spaces Listed on ITS Helpdesk 48 Timetabling: Teaching Spaces Information	ITS Timetabline	Terry Watson? Adrian Kittlety	1	Building Drawings Updated: Emergency Lighting Map	O&M team	Christiano Landgraf		
49 Systems Link: Space Data / Assets 50 BMS: Space Numbers (and update Building Plan)	Environment Team BMS Team	Selina Fletcher Dave Pugh	4			_		
51 BMS: Asset Names linked to Scace Numbers 52 Access Control: Update Room Reference	BMS Team Access Control	Dave Push Chris Davis	5	Building Drawings Updated: Accessibility/ Disability Access Drav		Christiano Landgraf		
<ul> <li>53 Security: Incident Report Software (If Applicable)</li> <li>54 Fire System: Space Numbering</li> </ul>	Protection (or DIS Team?) Risk Management	Gary Bedden Andy Jackson	6	Building Drawings Updated: ITS (Network / WiFi Drawings)	ITS	Terry Watson?		
55 Active Directory: Space Numbers (Staff Locations in 55 CDC: Space Numbering	DIS Team	Hadeel Saadoon	7	Building Drawings Updated: Fire Panel Drawings	Risk Management	Andy Jackson		
57 CDC: Asset information 58 CDC: Drawings / Models Updated	DIS Team DIS Team	Hadeel Saadoon Hadeel Saadoon			Physical Changes			
59 OccupEye: Drawings Update 60 OccupEye: Room Utilisation Numbering	Estates Space Planners Estates Space Planners	Stephen Heath Stephen Heath	8	Physical Change: Door Numbers	DIS Team?	Brett Plant		
61 Attendance Monitorina: Correct Scace Numbering 62 WorkRite: Office Update - Assessment Required 63	Estates Space Planners? Risk Management Risk Management	Stephen Heath Karen Lawrence Karen Lawrence	9	Physical Change: Salto Door Labels	Access Control	Chris Davis		
64 Flaed Wire Information 65 OmnPost Correct Seace Numbering	OSM Estates - Distribution	James Carter	0	Physical Change: Wayfinding Signage	Marketing	?		
65 Future Lets RNS: Residential Sonces Linds 67 Distural ate investory liter Desidential Sonces Linds	FutureLets FutureLets	Chris Morean Ohris Morean	1	Physical Change: Distribution Board Labelling	O&M team	Neil Williams		
68 Caterior Online Order Form  69 Agresso: 81 sopilizable - budget code names etc)	Catering Finance	Michael Ricketts	±	Physical Change: ITS Network Point Labels (? or data)	ITS	Terry Watson?		
70 Cucle Locker: Bookings Sustem 71 Emergency Lighting Software (P4 / Dail / Protec)	Environment Team OSM	Selina Fletcher Christiano Landeraf		Physical Change: 113 Network Point Labels (For data)	113	i ierry warson:	ı	1
72 Lighting Control System	OSM		<u> </u>					

#### Timetabling Space Mapping

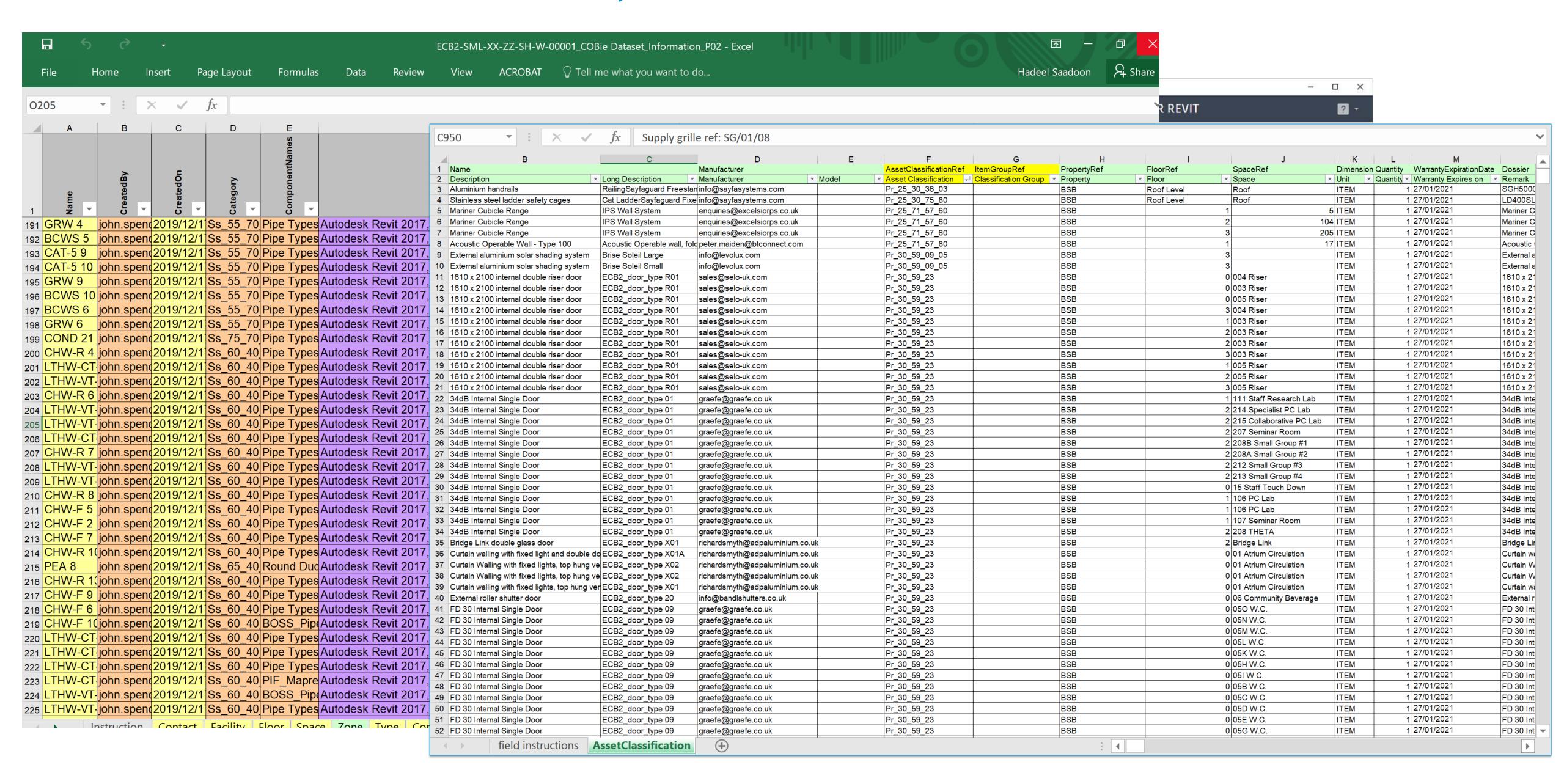
- Example of one data set where we need Lining up of systems Planon CAFM and CMIS for Timetabling
- Both using space data and were not integrated
- Highlighted when completed the EMR exercise when comparing data sets to ensure accurate reporting
- As the arbiters of space data within Estates Digital Services we
  took it with the timetabling team to start this work, by
  comparing space data with building plans, sometimes walking
  the site to update info on Planon and we created a process in
  which now information flows, not yet automated but we do
  report changes to ensure systems are up to date
- Because we did this pre Covid as basic as it sounds and as obvious as it sound, if we hadn't done so then the planning for Covid would be horrendous because we needed to plan capacity in rooms, manage occupancy and social distancing with accurate space data.





# Space Data, Assets Data and Systems Interoperability

#### Revit, COBie and CAFM



## Unified data sets – Mapping Systems Assets

Asset Register format reguire	 ments and data mapping for COBie/Planon PE	ET imports	D
PLANON FIELD NAME	Comments	limitations/Example	COBie equivlant
Code (CU Estates Internal)			
COBie Unique Identifier			COBie Component ExtIdentifier
Description (Name)	Free text	255 characters	COBie Component Name
ong Description	Free text	100 Characters	COBie Component Description Plus statement on Equipment Type (e.g. Lifts could be Hydraulic, Tr
Manufacturer/Make	Free text	255 Characters	COBie Type Manufacturer
Model	Free text	30 Characters	COBie Type Model Number
Туре			
Size			
System			
Sub-System	Please indicate whether it is primary, secondary or tertiar	ту	
Serial Number	(Where applicable)		COBie Componate Serial Number
Condition	Assessment of the condition of the asset. A = Excellent Condition no signs of defects B = Good Condition minor signs of defects C = Poor Condition major signs of defects D = Extremely Poor Condition and showing signs of immanent failure NA = Not Applicable	8	Add a field in Revit before creating COBie
Replacement Priority	Internal codes by CU Estates		
Asset Classification (Uniclass 2015)	Unicalss 2015 asset classification- Please ensure you ar using an up to date Uniclass code from the NBS website		COBie Type Category
Technical Classification (SFG20)	Use SG20 Code for the asset	Example 43-06 for Photovoltics	Add a field in Revit before creating COBie
Asset Groups (NRM3)	Use the NRM code that matches SFG20 code in the provided mapping		
Property	Should be the Building short code	Such as AG for Alison Gingel	COBie Facility Site Name (Or site name depending how it was nam
loor			COBie Space Floor Name
Space Refrence (Room/Location)	Should be the space code - Important to be exact or it won't link the asset to the space	Such as ML-02-31	COBie Component Space
Serving	Indicate the area that it serves where applicable		
► ► Asset Register instr	ructions Data Gathering SheetAsset Reg. Maintainal	ole Assets List (MAL) NRM to SFG2	0 mapping Data Change Faculty Assets Sheet1

#### Unified data sets - Maintainable Assets & SFG20

A		р 
SFG20 - Maintainable Assets List		in this at CU Es
<u>Specialist Services</u>	Y/N	
Access Equipment and Lifts		
Access Equipment		
81-01 : Cable and Track/Rail Based Safety Systems	Y	
81-02 : Connectors		
81-03 : Energy Absorbing Lanyards	Y	
81-04 : Eyebolts used for Personal Fall Protection	Y	
81-05 : Mobile Man Anchors	Y	
81-06 : Retractable Fall Arrester		
81-07 : Rope Climbing/Abseiling/Steeplejack - Connectors		
81-08 : Rope Climbing/Abseiling/Steeplejack - Eyebolts used for Personal Fall Protection	Y	
81-09 : Rope Climbing/Abseiling/Steeplejack - Personal Suspension and Access Systems	Y	
81-10 : Fixed Access Ladders and Stairs	Υ	
<u>Lifts</u>		
82-01 : Vertical Platform Lifts	у	
82-02 : Escalators And Moving Walkways	n/a	
82-03 : Hydraulic Lifts	у	
82-04 : Inclined Platform Lift and Stair Riser	у	
82-05 : Traction Lifts	у	
82-06 : Escalators and Moving Walkways - Thorough Examinations	n/a	
82-07 : Goods and Passenger Lifts - Thorough Examinations	у	
82-08 : Lifts - Electrical Periodic Examination	у	
84-55 : Rack and Pinion Goods Only Hoists - Permanent Installations	n/a	
84-59 : Construction Hoists - Temporary Installations	n/a	
Building Fabric		
23-17 : Fire Doors	Υ	
88-01 : Ancillary Buildings and Other Structures		
88-02 : Automatic Ticket Gates and Barriers		
88-03 : Boundary Vegetation and Landscaping		
88-04 · Building Inspections	Υ	

**SFG**20



#### Maintenance Task Schedules

Welplan - Printed: 30/11/2015





ERING IATION ublications

### Unified data sets -Existing Building Assets

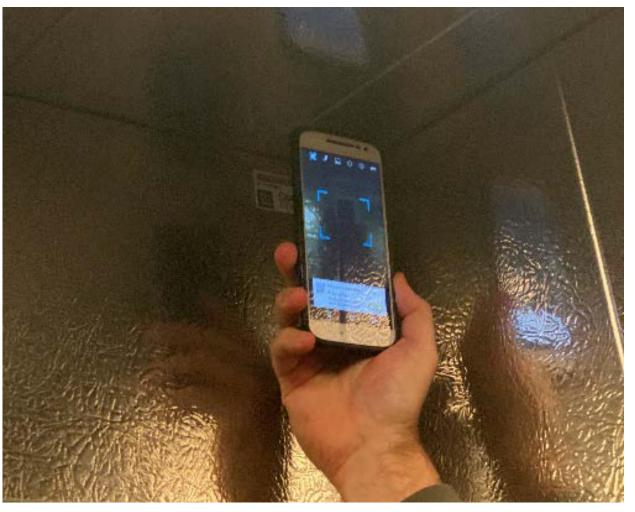
A		o 00D: a //	Diaman DEET in a suf-	C			<u>ט</u>	-				
sset Register format requirm		or COBie/			COBie equivlant							
ANON FIELD NAME	Comments			mitations/Example								
de (CU Estates Internal)	Unique Barcode generated b	arcode generated by the Estates. Example		0000427								
Bie Unique Identifier					COBie Compone	nt ExtIdentifier						
escription (Name)	Free text		255 characters	255 characters C		nt Name						
ong Description	Free text		100 Character		COBie Compone	COBie Component Description  Plus statement on Equipment Type (e.g. Lifts could be Hydraulic Tra						
	Co	ode (CU Desc	cription (Name)	Long Description	Manufacturer	Model	Туре	Size	system	sub sysytem	Gsa type	Serial Number
		****		ELOOP MOUNTED	SPIROVENT	MAGGAEO	SPIROVENT	NA			NA	75918019
lanufacturer/Make	Free text	Code (CU	DEGASER UNITS	FLOOR MOUNTED	SPIROVENT	MA06A5O	SPIKUVENI	INA	system	sub sysytem	NA	
odel	Free text	Estates	Description (Name)	Long Description	Manufacturer	Model	Туре	Size			Gsa type	Serial Num
odel	I TOO TON	Internal)										
-		Code (CU										
ype		Estates Internal)										
ze		TH	ERMAL MIXING VALVES	omalan state	V4 BOOOMIV	B000	DOCOMIN	4E			b.i.a.	
ystem			THERMAL MIXING VALVES THERMAL MIXING VALVES	under sink under sink	X1 BOSSMIX X9 BOSSMIX	BOSS BOSS	BOSSMIX BOSSMIX	15 mm 15 mm			NA NA	NA NA
ub-System	licate whether it is		THERMAL MIXING VALVES	under sink	X3 BOSS MIX	BOSS	BOSSMIX	15 mm			NA NA	NA NA
erial Number	(\Mhere a)		THERMAL MIXING VALVES THERMAL MIXING VALVES	under sink under sink	X3 BOSSMIX X4 BOSSMIX	BOSS BOSS	BOSSMIX BOSSMIX	15 mm 15 mm			NA NA	NA NA
		Code (CU							system	sub sysytem		
Condition	7 toocooment of the conte		Descripa	Long Description	Manufacturer	Model	Туре	Size			Gsa type	Serial Num
	Condition no signs of defec	The same of the sa										
	signs of defects C = Poor C		THE UNITS									
	defects D = Extremely Poor					1/014	LIEAT DECOVEDY				NIA	V250f-
	of immanent failure NA = N		AIR HANDLING AIR HANDLING UNITS		Flaktwoo	C1658	HEAT RECOVERY Flaktwood				NA NA	Vam350fa
			AIR HANDLING UNITS		Daikin	VAM	HEAT RECOVERY				NA	vam650
Replacement Priority	Internal codes by CU Estate		AIR HANDLING UNITS AIR HANDLING UNITS		Carrier /30XA		EUGU-30				NA NA	NA NA
sset Classification (Uniclass 2015)	Unicalss 2015 asset classifi		AIRTIANDEING GNITG		L000	Coo	2000-30		system	sub sysytem	IVA	INA
33Ct Classification (Officiass 2010)	using an up to date Uniclas	Code (CU Estates	Description (Name)	Long Description	fecturer	Model	Туре	Size			Gsa type	Serial Num
echnical Classification (SFG20)	Use SG20 Code for the ass	Internal)										A
` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `												
Asset Groups (NRM3)	Use the NRM code that ma		FANCOIL UNIT									
	provided mapping											
Property	Should be the Building shor		FANCOIL UNIT FANCOIL UNIT	CELING MOUTED CELING MOUTED	Trane Eaton	u76					NA NA	u76151
Toor	Should be the floor code		FANCOIL UNIT	CELING MOUTED	Eaton	u76					NA NA	u76741
			FANCOIL UNIT	CELING MOUTED	Eaton	u76					NA	u76731
Space Refrence (Room/Location)	Should be the space code -	Code (CU	FANCOIL UNIT	CELING MOUTED	Eaton	u76			system	sub sysytem	NA	u76743
	won't link the asset to the s	Estates	Description (Name)	Long Description	Manufacturer	Model	Туре	Size	System:	oub cycytem	Gsa type	Serial Num
erving	Indicate the area that it serv	Internal)										
Asset Register instru	ctions Data Gathering Shee		CLOSED CONTROL									
Asset Register Histra	Data Gathering She	AM	RCONDITIONING UINITS									
			Control Split Air Conditioning	FLOOR MOUNTED	MITSUBISHI MITSUBISHI	PUHZ-ZRP-100	PUHZ				R407C R407C	39u00659
			Control Split Air Conditioning Control Split Air Conditioning	FLOOR MOUNTED FLOOR MOUNTED	MITSUBISHI MITSUBISHI	PUHZ-ZRP-100 PUHZ-ZRP-100	PUHZ PUHZ				R407C R407C	39v00660 39v0063
		Close	Control Split Air Conditioning	FLOOR MOUNTED	MITSUBISHI	PUHZ-ZRP-100	PUHZ				R407C	39v00663
			Control Split Air Conditioning	FLOOR MOUNTED	MITSUBISHI	PUHZ-ZRP-100AL	PUHZ		system	sub sysytem	R407C	39v00660
		Code (CU					_		system	sub sysytem		
		Estates Internal)	Description (Name)	Long Description	Manufacturer	Model	Туре	Size			Gsa type	Serial Num
			SPLIT AIRCONDITIONING									
			UNITS									
	-		Split Air Conditioning	WALL MOUNTED	MISUBISHI	SUK-KA50VA	KA50VA				R410A	64P04225
			Split Air Conditioning	WALL MOUNTED	MISUBISHI	SUZ-KA50VA	KA50VA				R410A	64P0241:
	<u>⊢</u>		Split Air Conditioning	WALL MOUNTED	MISUBISHI	SUZ-KA50VA	KA50VA				R410A	64P0245

#### Processes to capture Buildings & Faculty Assets

			PLANON FIELD NAME	Comments	limitations/Example
			Code (CU Estates Internal)	Unique Barcode generated by the Estates.	Example: EST0000427
			COBie Unique Identifier		·
	-	<u>-</u>	Description (Name)	Free text	255 characters
PLANON FIELD NAME	Comments	limitations	Long Description	Free text	100 Characters
Code	simply update the asset with that	For example you can Start at COBie000001	Type		
	reference. You can adjust the import		Status		
	routine to stop ort skip if it find		Manufacturer	Free text	255 Characters
	duplicates		Model	Free text	30 Characters
Description	Free text	100 characters	Serial Number		30 Characters
Long Description	Free text	255 Characters		(Where applicable)  Assessment of the condition of the asset. A = Exceller	nt .
		l h	Condition	Condition no signs of defects B = Good Condition min	
				signs of defects C = Poor Condition major signs of	
Manufacturer	Free text	255 Characters		defects D = Extremely Poor Condition and showing si	ans
Model	Free text	30 Characters		of immanent failure NA = Not Applicable	gno
Serial Number	(Where applicable)	C	Age of Asset		
Asset Classification	Must only have "code group.code"	C	Replacement Priority	Internal codes by CU Estates	
	that matches the Unicalss 2015 asset classification		•	·	Lara
Property	Should be the property short code	1	Asset Classification (Uniclass 2015)	Unicalss 2015 asset classification- Please ensure you using an up to date Uniclass code from the NBS webs	
Floor	Should be the floor code - i.e. 00 not		Tachnical Classification (CEC20)	0 1	
	Ground		Technical Classification (SFG20)	Use SG20 Code for the asset	Example 43-06 for Photovoltics
Space Refrence	Should be the space code -		Asset Groups (NRM3)	Use the NRM code that matches SFG20 code in the	
	Important to be exact or it won't link the asset to the space			provided mapping	
Unit	Leave this as UNIT		Property	Should be the Building short code	Such as AG for Alison Gingel
Quantity	generally leave this as 1 - unless		Floor	Should be the floor code	
and an interpretation of the control	you wanted to define that there are		Space Refrence	Should be the space code - Important to be exact or it	Such as ML-02-31
	more than 1 identical assets in the			won't link the asset to the space	
	same space		Unit	Leave this as UNIT	
Warranty Expires on	in a date format dd/mm/yyyy		Quantity	generally leave this as 1 - unless you wanted to define	e
				that there are more than 1 identical assets in the same	e
			Installation Date		
Remark	free text comments	i	Warranty Expires on	in a date format dd/mm/yyyy	
Expected Technical End date	in a date format dd/mm/yyyy		Service Company	Internal by Estates	
Life expectancy	I.E 60 years		To the company	microsia dy Totaloo	1

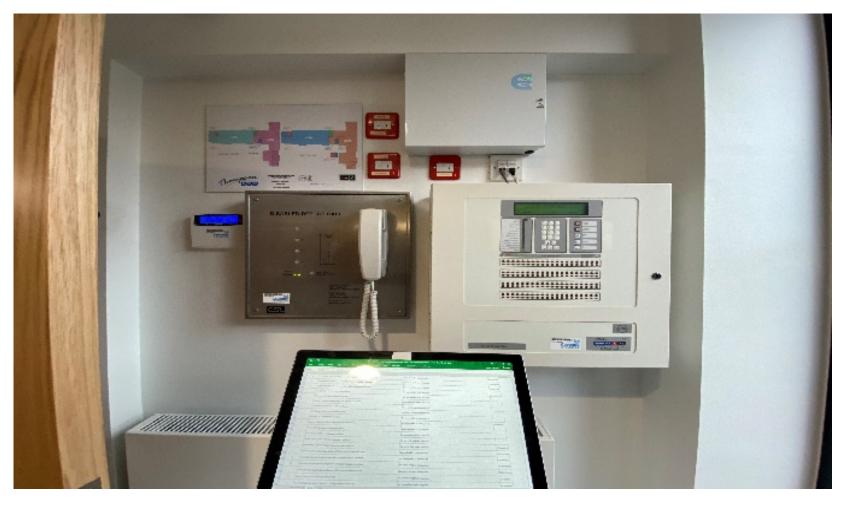
### Data Capturing and Labelling process







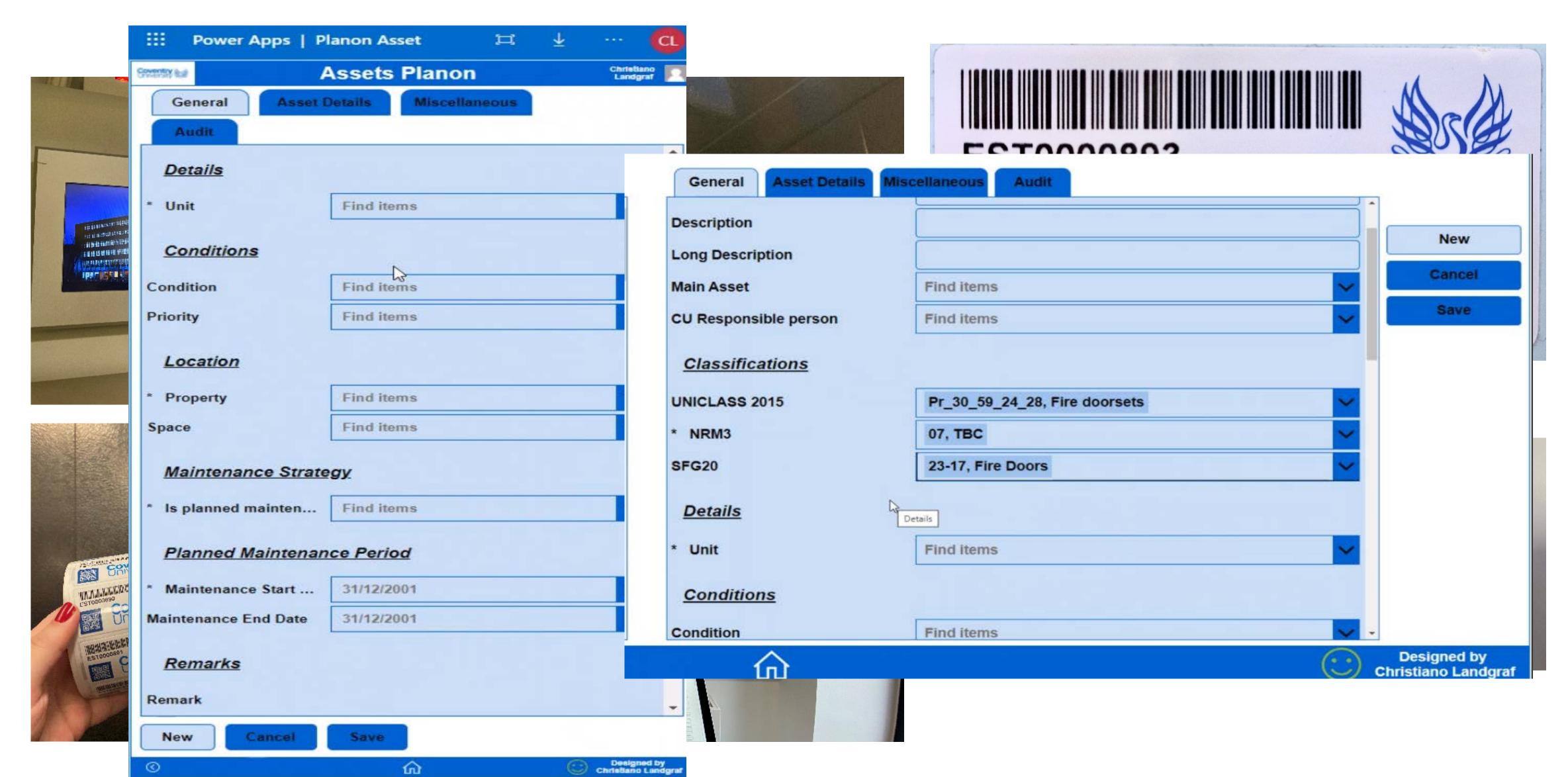






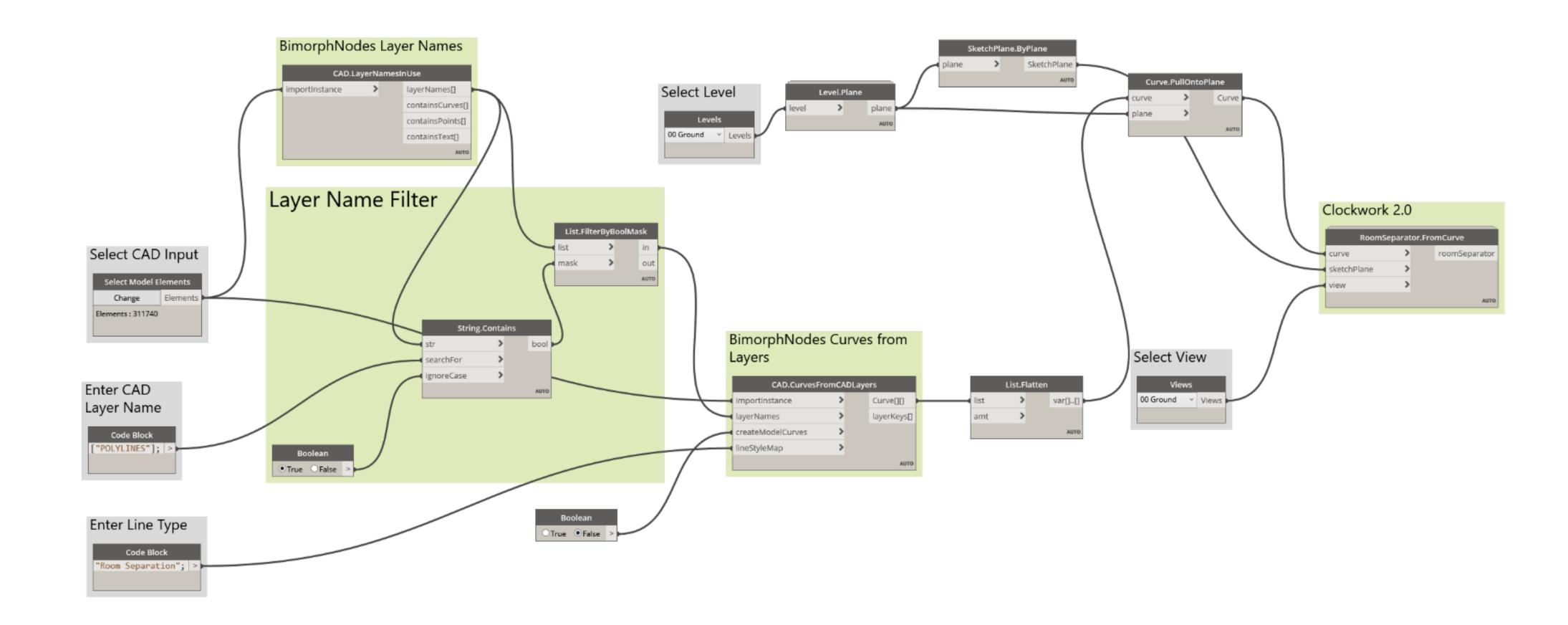


### Data Capturing and Labelling process



## Processes to facilitate Software Field Based Integration

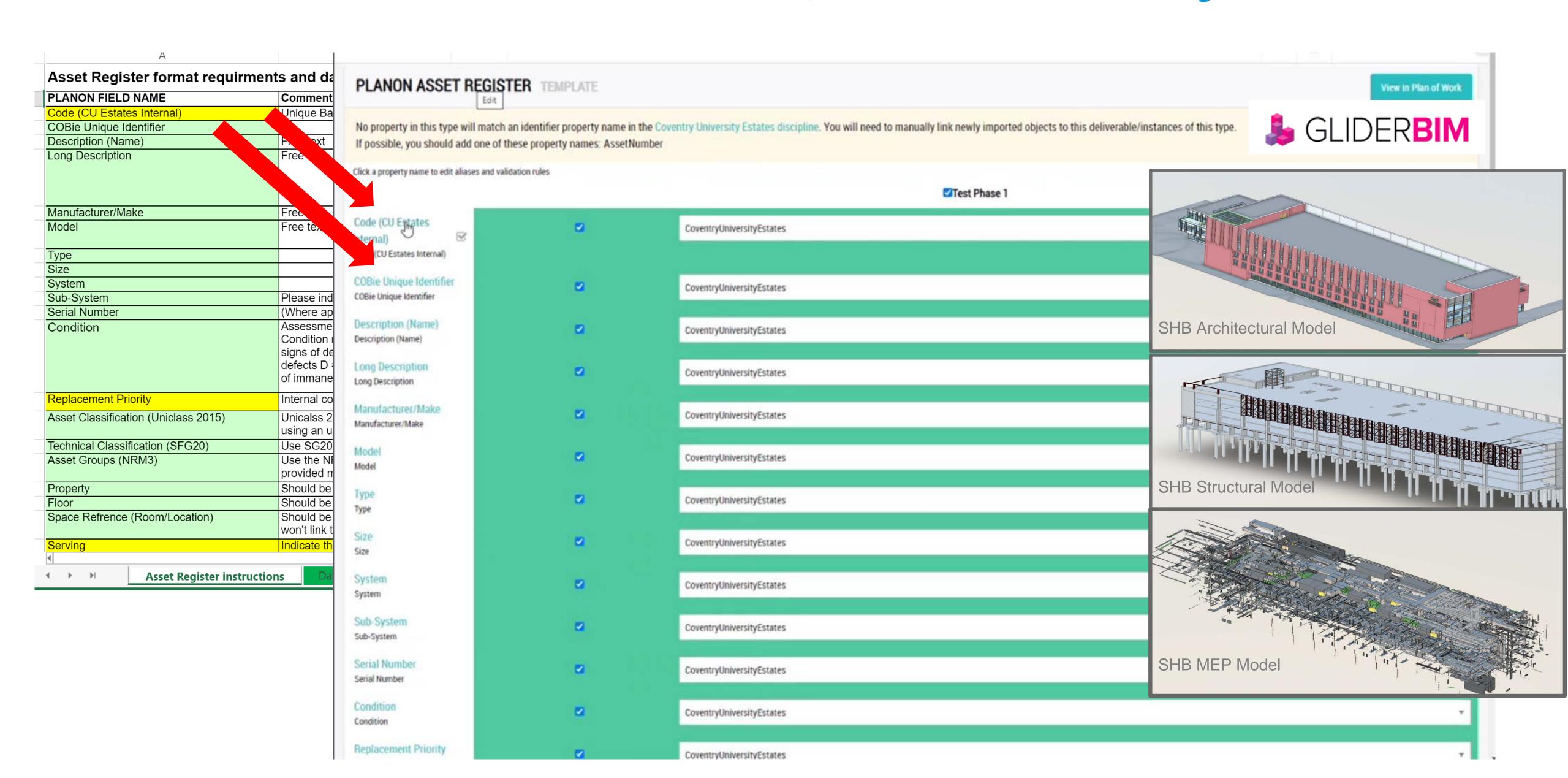
#### Spreadsheets VS Automation



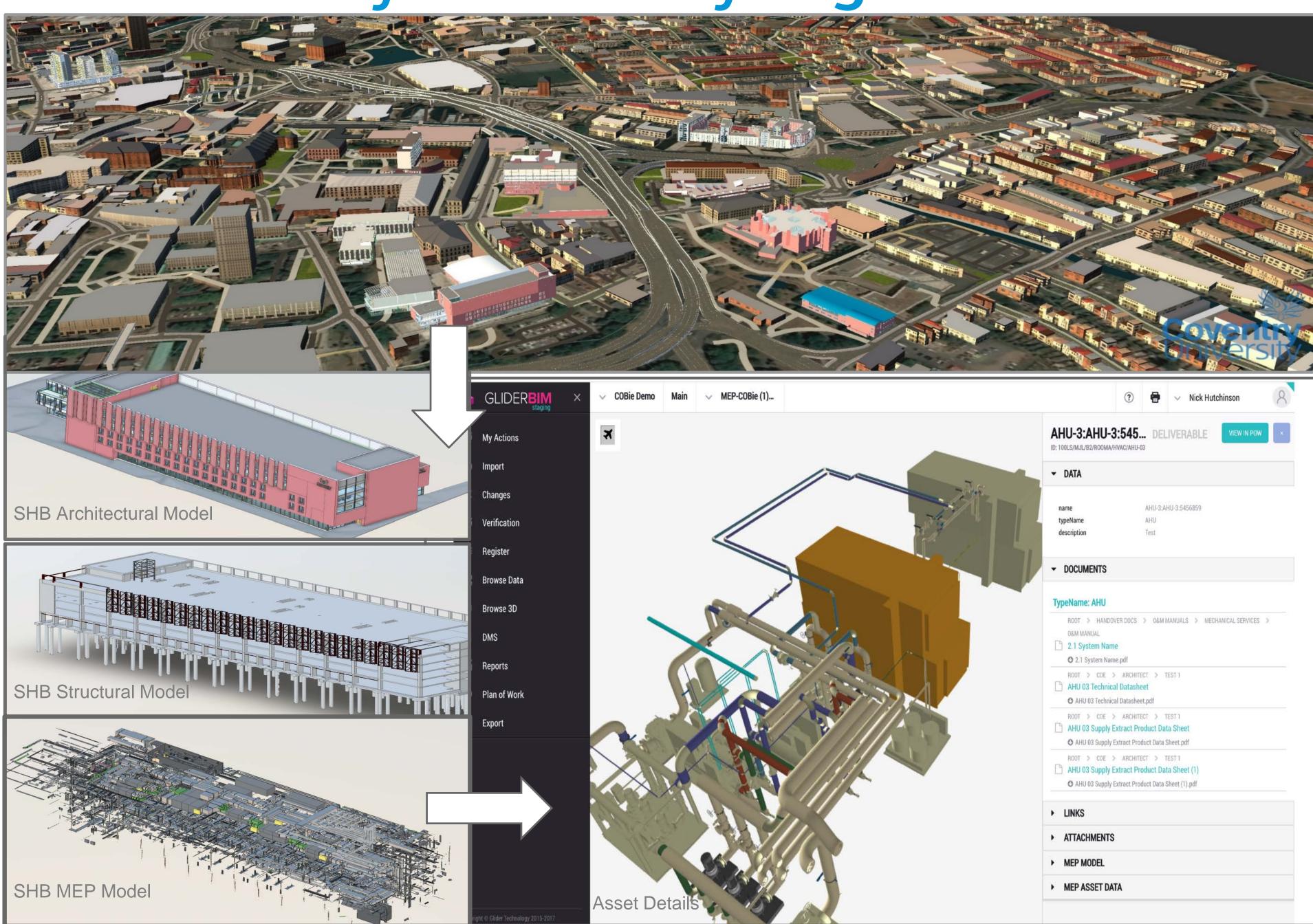
#### Spreadsheets VS Automation

					5				
<b>□</b> 5 ¢ ≠	ECB2-SML-XX-ZZ-SH-W-00001_COB	Bie Dataset_Informatio	n_P02 - Excel		团 一 口	X			
File Home Insert Page Layout Formulas Data Review	View ACROBAT ♀ Tell r	me what you want to c	do		Hadeel Saadoon 🔑 Sha	ire			
O205 $\checkmark$ : $\times$ $\checkmark$ $f_X$						~			
A B C D E									
8	C950 ▼ : × ✓	$f_X$ Supply grill	le ref: SG/01/08						~
Age de la companya de	В	С	D	E F	G H	l J	К	L M	
entf / Da 33	1 Name 2 Description		Manufacturer  Manufacturer	AssetClassificationRef Item@  Model		FloorRef SpaceRef Floor Space	Dimension (	Quantity WarrantyExpirationD Quantity Warranty Expires on	
gory   tedit	3 Aluminium handrails	RailingSayfaguard Freestar	n info@sayfasystems.com	Pr_25_30_36_03	BSB	Roof Level Roof	ITEM	1 27/01/2021	SGH5000
irea firea	4 Stainless steel ladder safety cages	Cat LadderSayfaguard Fixe		Pr 25 30 75 80	BSB	Roof Level Roof	ITEM	1 27/01/2021 1 27/01/2021	LD400SL Marinar C
191 GRW 4 john.spenc2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	5 Mariner Cubicle Range 6 Mariner Cubicle Range		enquiries@excelsiorps.co.uk enquiries@excelsiorps.co.uk	Pr_25_71_57_60 Pr_25_71_57_60	BSB BSB		1 ITEM	1 27/01/2021	Mariner C Mariner C
192 BCWS 5 john.spen(2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	7 Mariner Cubicle Range	IPS Wall System	enquiries@excelsiorps.co.uk	Pr_25_71_57_60	BSB		ITEM	1 27/01/2021	Mariner C
193 CAT-5 9 john.spen(2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	8 Acoustic Operable Wall - Type 100 9 External aluminium solar shading system	Acoustic Operable wall, fold Brise Soleil Large	lc peter.maiden@btconnect.com info@levolux.com	Pr_25_71_57_80 Pr_30_59_09_05	BSB BSB	1 1	ITEM ITEM	1 27/01/2021 1 27/01/2021	Acoustic ( External a
194 CAT-5 10 john.spen(2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	10 External aluminium solar shading system	Brise Soleil Small	info@levolux.com	Pr_30_59_09_05 Pr_30_59_09_05	BSB	3	ITEM	1 27/01/2021	External a
195 GRW 9 john.spen(2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	11 1610 x 2100 internal double riser door	ECB2_door_type R01	sales@selo-uk.com	Pr_30_59_23	BSB	0 004 Riser	ITEM	1 27/01/2021	1610 x 21
196 BCWS 10 john.spen 2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	12 1610 x 2100 internal double riser door 13 1610 x 2100 internal double riser door	ECB2_door_type R01 ECB2_door_type R01	sales@selo-uk.com sales@selo-uk.com	Pr_30_59_23	BSB BSB	0 003 Riser 0 005 Riser	ITEM	1 27/01/2021 1 27/01/2021	1610 x 21 1610 x 21
197 BCWS 6 john.spen 2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	14 1610 x 2100 internal double riser door	ECB2_door_type R01	sales@selo-uk.com	Pr_30_59_23 Pr_30_59_23	BSB	3 004 Riser	ITEM	1 27/01/2021	1610 x 21
198 GRW 6 john.spen 2019/12/1 Ss_55_70 Pipe Types Autodesk Revit 2017,	15 1610 x 2100 internal double riser door	ECB2_door_type R01	sales@selo-uk.com	Pr_30_59_23	BSB	1 003 Riser	ITEM	1 27/01/2021	1610 x 21
199 COND 21 john.spen 2019/12/1 Ss_75_70 Pipe Types Autodesk Revit 2017,	16 1610 x 2100 internal double riser door 17 1610 x 2100 internal double riser door	ECB2_door_type R01 ECB2_door_type R01	sales@selo-uk.com sales@selo-uk.com	Pr_30_59_23	BSB BSB	2 003 Riser 2 003 Riser	ITEM	1 27/01/2021 1 27/01/2021	1610 x 21
200 CHW-R 4 john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	, 18 1610 x 2100 internal double riser door	ECB2_door_type R01	sales@selo-uk.com	Pr_30_59_23 Pr_30_59_23	BSB	3 003 Riser	ITEM	1 27/01/2021	1610 x 21
201 LTHW-CT john.spen 2019/12/1 Ss 60 40 Pipe Types Autodesk Revit 2017,	19 1610 x 2100 internal double riser door	ECB2_door_type R01	sales@selo-uk.com	Pr_30_59_23	BSB	1 005 Riser	ITEM	1 27/01/2021	1610 x 21
202 LTHW-VT-john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	20 1610 x 2100 internal double riser door	ECB2_door_type R01 ECB2_door_type R01	sales@selo-uk.com sales@selo-uk.com	Pr_30_59_23 Pr_30_59_23	BSB BSB	2 005 Riser 3 005 Riser	ITEM	1 27/01/2021 1 27/01/2021	1610 x 21 1610 x 21
203 CHW-R 6 john.spen(2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	22 34dB Internal Single Door	ECB2_door_type R01	graefe@graefe.co.uk	Pr_30_59_23 Pr_30_59_23	BSB	1 111 Staff Research Lab	ITEM	1 27/01/2021	34dB Inte
	23 34dB Internal Single Door	ECB2_door_type 01	graefe@graefe.co.uk	Pr_30_59_23	BSB	2 214 Specialist PC Lab	ITEM	1 27/01/2021	34dB Inte
205 LTHW-VT-john.spenc2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	24 34dB Internal Single Door	ECB2_door_type 01	graefe@graefe.co.uk	Pr_30_59_23	BSB BSB	2 215 Collaborative PC Lab 2 207 Seminar Room	ITEM	1 27/01/2021 1 27/01/2021	34dB Inte
206 LTHVV-CT John.spen(2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	20 3400 Internal Single Door	ECB2_door_type 01 ECB2_door_type 01	graefe@graefe.co.uk graefe@graefe.co.uk	Pr_30_59_23 Pr_30_59_23	BSB	2 207 Seminar Room 2 208B Small Group #1	ITEM	1 27/01/2021	34dB Inte
207 CHW-R 7 john.spen(2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	, 27 34dB Internal Single Door	ECB2_door_type 01	graefe@graefe.co.uk	Pr_30_59_23	BSB	2 208A Small Group #2	ITEM	1 27/01/2021	34dB Inte
208 LTHW-VT-john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	00 04 10 1 1 10: 1 0	ECB2_door_type 01	graefe@graefe.co.uk graefe@graefe.co.uk	Pr_30_59_23	BSB BSB	2 212 Small Group #3 2 213 Small Group #4	ITEM	1 27/01/2021 1 27/01/2021	34dB Inte
209 LTHW-VT-john.spen(2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	30 34dB Internal Single Door	ECB2_door_type 01 ECB2_door_type 01	graefe@graefe.co.uk	Pr_30_59_23 Pr_30_59_23	BSB	0 15 Staff Touch Down	ITEM	1 27/01/2021	34dB Inte
	31 34dB Internal Single Door	ECB2_door_type 01	graefe@graefe.co.uk	Pr_30_59_23	BSB	1 106 PC Lab	ITEM	1 27/01/2021	34dB Inte
211 CHW-F 5 john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,		ECB2_door_type 01	graefe@graefe.co.uk	Pr_30_59_23	BSB BSB	1 106 PC Lab 1 107 Seminar Room	ITEM	1 27/01/2021 1 27/01/2021	34dB Inte
212 CHW-F 2 john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	33   34dB Internal Single Door 34   34dB Internal Single Door	ECB2_door_type 01 ECB2_door_type 01	graefe@graefe.co.uk graefe@graefe.co.uk	Pr_30_59_23 Pr_30_59_23	BSB	1 107 Seminar Room 2 208 THETA	ITEM	1 27/01/2021	34dB Inte
213 CHW-F 7 john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	2 35 Bridge Link double glass door	ECB2_door_type X01	richardsmyth@adpaluminium.co.uk	Pr_30_59_23	BSB	2 Bridge Link	ITEM	1 27/01/2021	Bridge Lir
214 CHW-R 1(john.spen(2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	Ţ Ţ		richardsmyth@adpaluminium.co.uk		BSB	0 01 Atrium Circulation	ITEM	1 27/01/2021 1 27/01/2021	Curtain wa
215 PEA 8 john.spen 2019/12/1 Ss_65_40 Round Dud Autodesk Revit 2017,	37 Curtain Walling with fixed lights, top hung ve 38 Curtain Walling with fixed lights, top hung ve		richardsmyth@adpaluminium.co.uk richardsmyth@adpaluminium.co.uk		BSB BSB	0 01 Atrium Circulation 0 01 Atrium Circulation	ITEM	1 27/01/2021	Curtain W Curtain W
216 CHW-R 1 john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	2 39 Curtain walling with fixed lights, top hung ve		richardsmyth@adpaluminium.co.uk		BSB	0 01 Atrium Circulation	ITEM	1 27/01/2021	Curtain wa
217 CHW-F 9 john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	10 External relief chatter acci	ECB2_door_type 20	info@bandlshutters.co.uk	Pr_30_59_23	BSB	0 06 Community Beverage	ITEM	1 27/01/2021 1 27/01/2021	External r
218 CHW-F 6 john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,		ECB2_door_type 09 ECB2_door_type 09	graefe@graefe.co.uk graefe@graefe.co.uk	Pr_30_59_23 Pr_30_59_23	BSB BSB	0 050 W.C. 0 05N W.C.	ITEM	1 27/01/2021	FD 30 Int
219 CHW-F 10john.spen 2019/12/1 Ss_60_40 BOSS_Pipe Autodesk Revit 2017, 220 LTHW-CT john.spen 2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	43 FD 30 Internal Single Door	ECB2_door_type 09	graefe@graefe.co.uk	Pr_30_59_23	BSB	0 05M W.C.	ITEM	1 27/01/2021	FD 30 Inte
LTHW-CT john.spen(2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	44 FD 30 Internal Single Door	ECB2_door_type 09	graefe@graefe.co.uk	Pr_30_59_23	BSB	0 05L W.C.	ITEM	1 27/01/2021 1 27/01/2021	FD 30 Int
LTHW-CT john.spen(2019/12/1 Ss_60_40 Pipe Types Autodesk Revit 2017,	, 45 FD 30 Internal Single Door 46 FD 30 Internal Single Door	ECB2_door_type 09 ECB2_door_type 09	graefe@graefe.co.uk graefe@graefe.co.uk	Pr_30_59_23 Pr_30_59_23	BSB BSB	0 05K W.C. 0 05H W.C.	ITEM	1 27/01/2021	FD 30 Inte
222 LTHW/CT john spend 2010/12/1 Sc 60, 40 DIE Manre Autodesk Pevit 2017	47 FD 30 Internal Single Door	ECB2_door_type 09	graefe@graefe.co.uk	Pr_30_59_23	BSB	0 05I W.C.	ITEM	1 27/01/2021	FD 30 Inte
LTUNANT: L	48 FD 30 Internal Single Door	ECB2_door_type 09	graefe@graefe.co.uk	Pr_30_59_23	BSB	0 05B W.C.	ITEM	1 27/01/2021	FD 30 Int
224 LTHW-VT-john.spen(2019/12/1 Ss 60 40 Pipe Types Autodesk Revit 2017,	1	ECB2_door_type 09 ECB2_door_type 09	graefe@graefe.co.uk graefe@graefe.co.uk	Pr_30_59_23 Pr_30_59_23	BSB BSB	0 05C W.C. 0 05D W.C.	ITEM	1 27/01/2021 1 27/01/2021	FD 30 Int
	51 FD 30 Internal Single Door	ECB2_door_type 09	graefe@graefe.co.uk	Pr_30_59_23	BSB	0 05E W.C.	ITEM	1 27/01/2021	FD 30 Int
Instruction   Contact   Facility   Floor   Shace   Zone   IVhe   Cor	52 FD 30 Internal Single Door	ECB2_door_type 09	graefe@graefe.co.uk	Pr_30_59_23	BSB	0 05G W.C.	ITEM	1 27/01/2021	FD 30 Int
	field instructions	AssetClassification	<b>(+)</b>		: 1				<b>D</b>

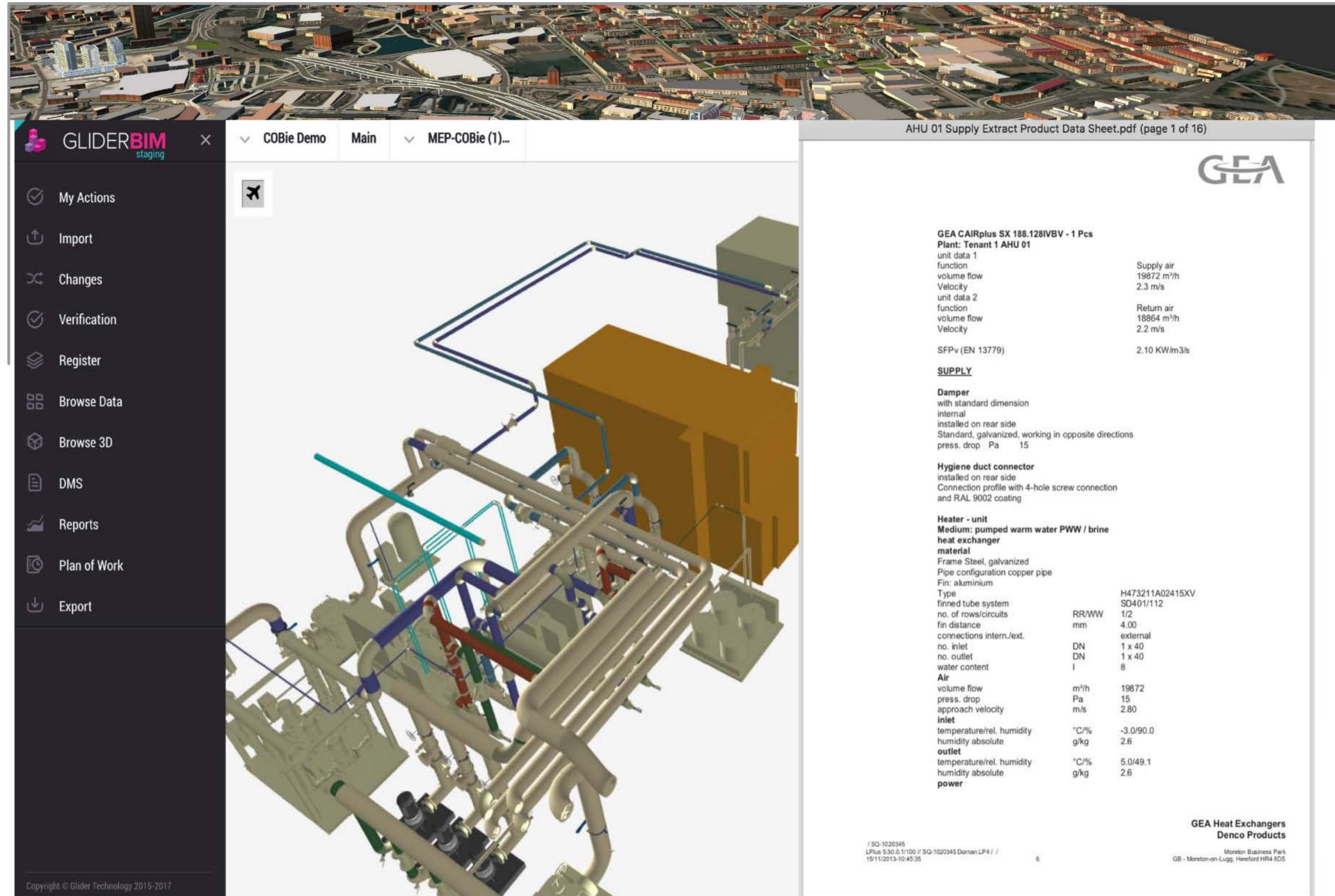
### Unified data sets – CDE, IFC and Project Assets



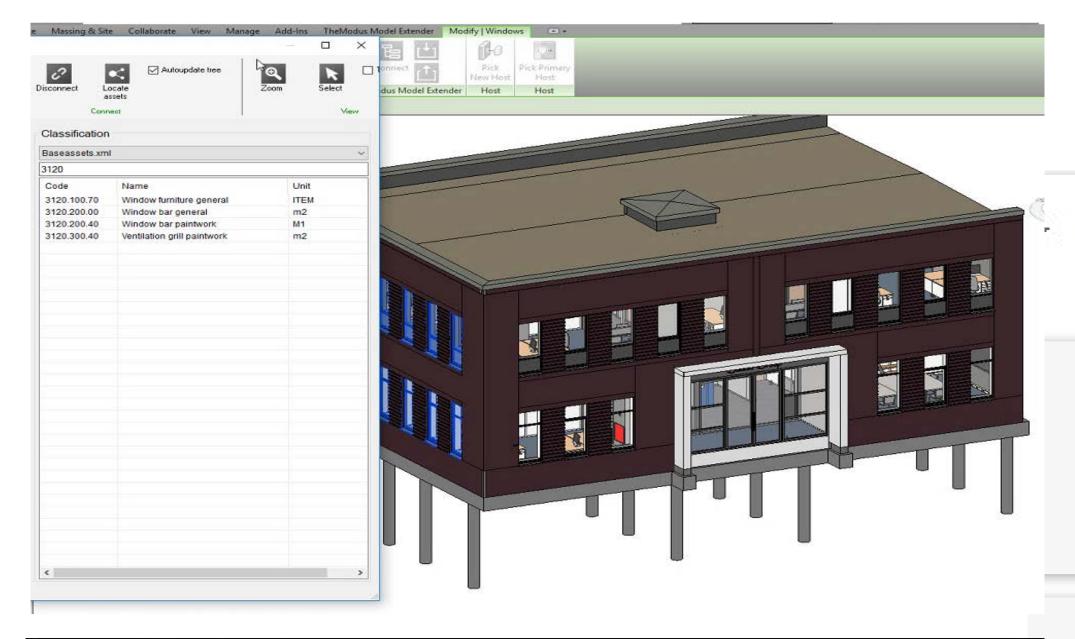
### Coventry University Digital Twin

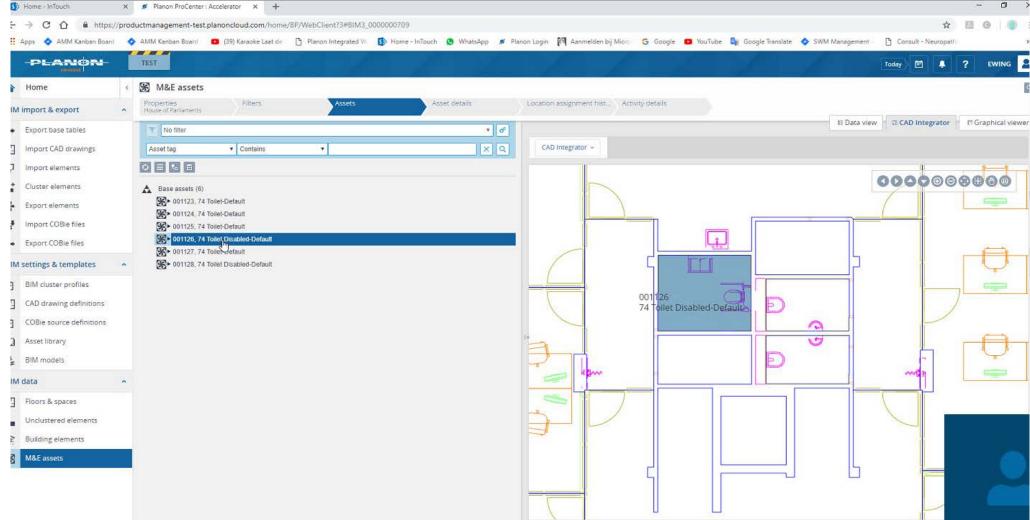


### Coventry University Digital Twin



## Integration with Planon





#### My Estates Self Service





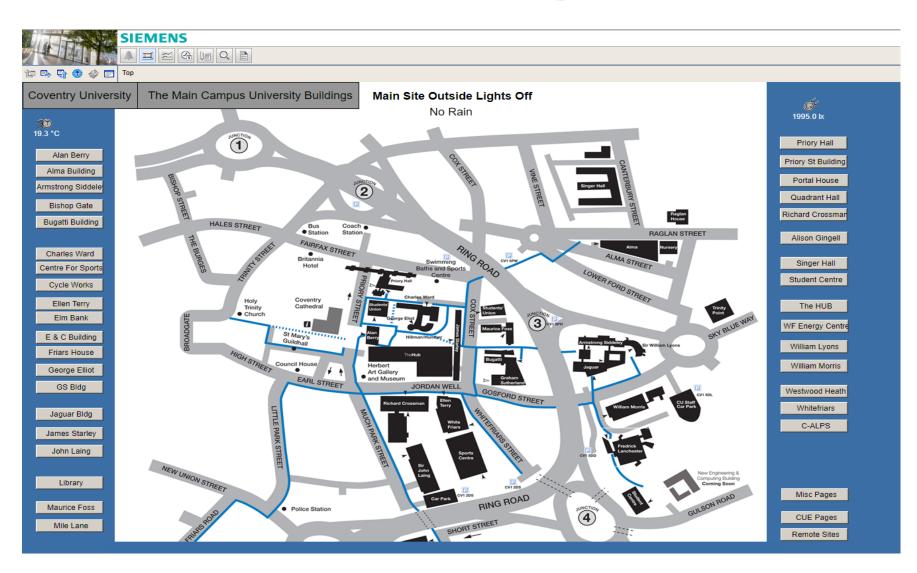


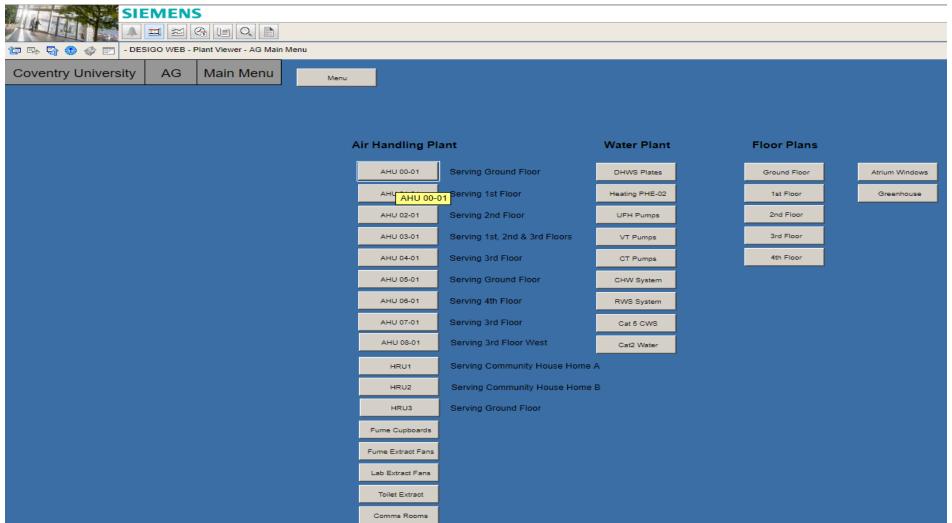
Estates News Feed

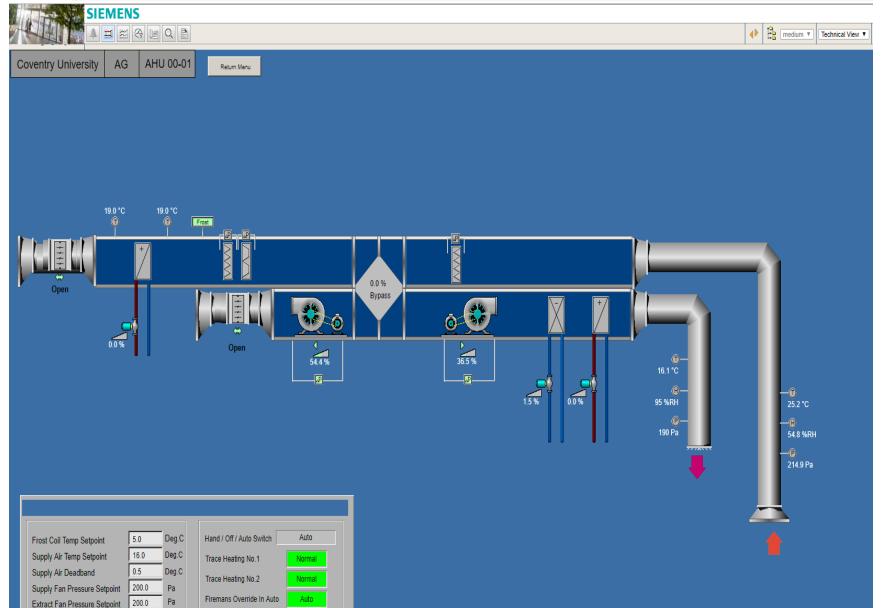


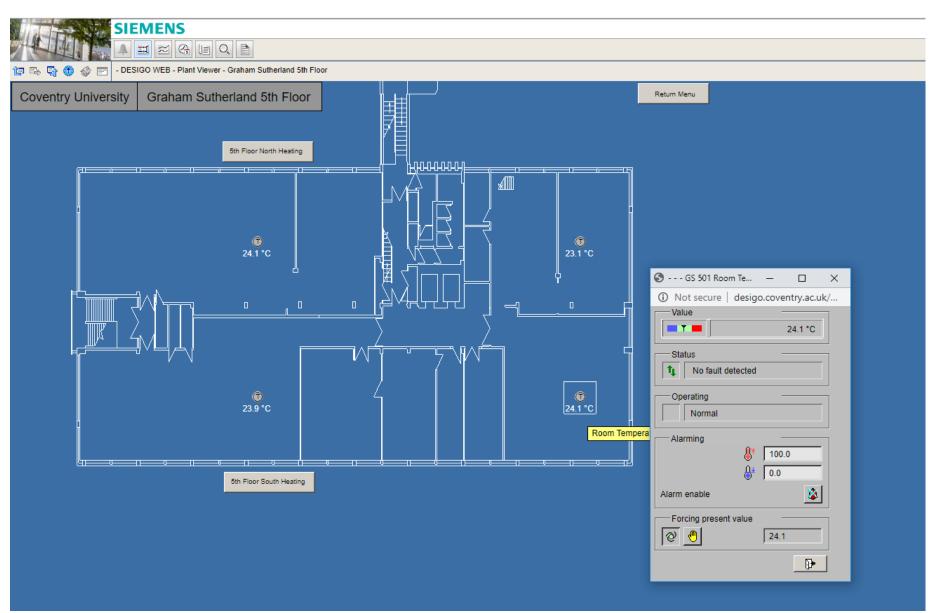
Estates Telephone Directory

### Integration with BMS



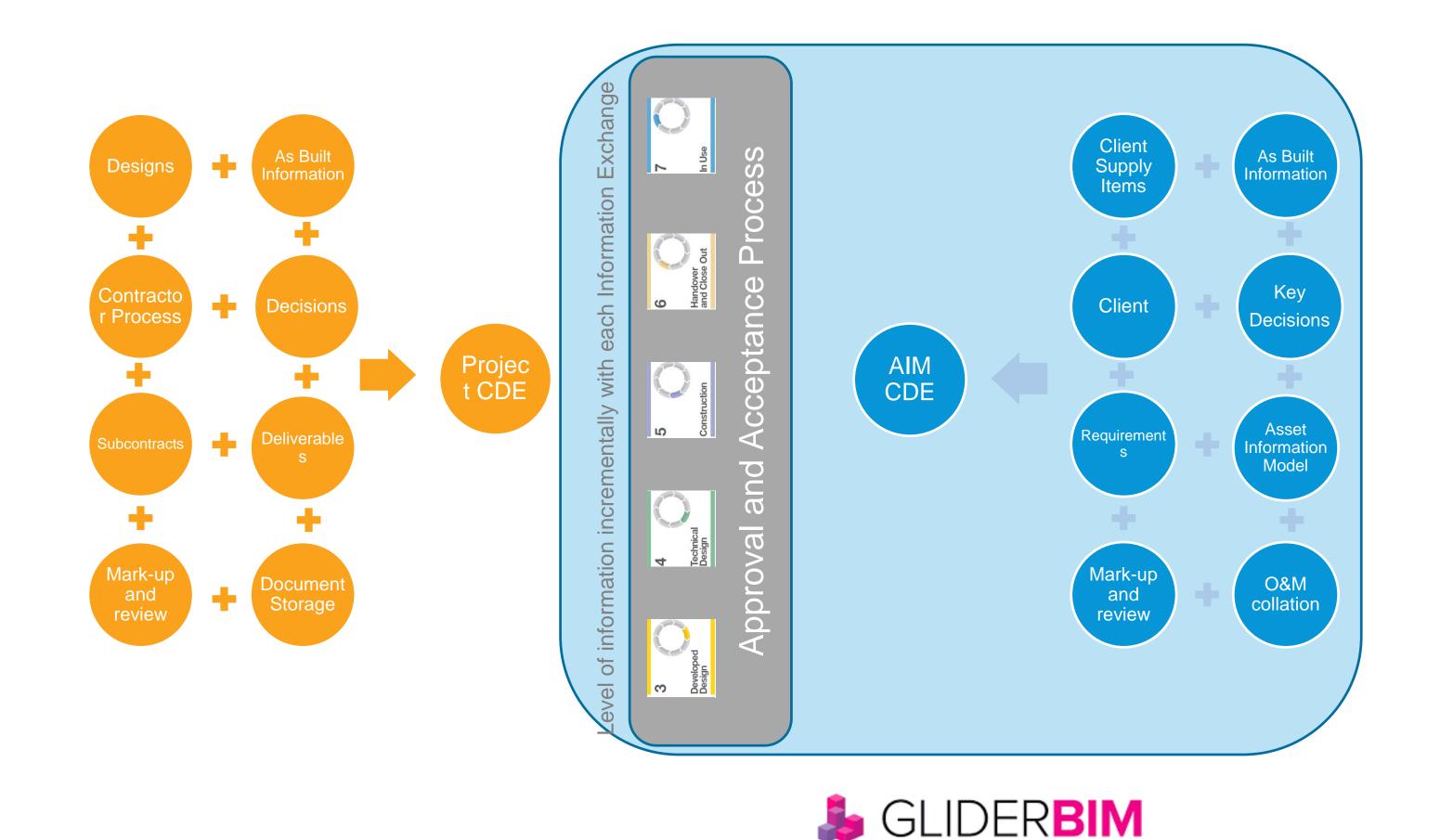




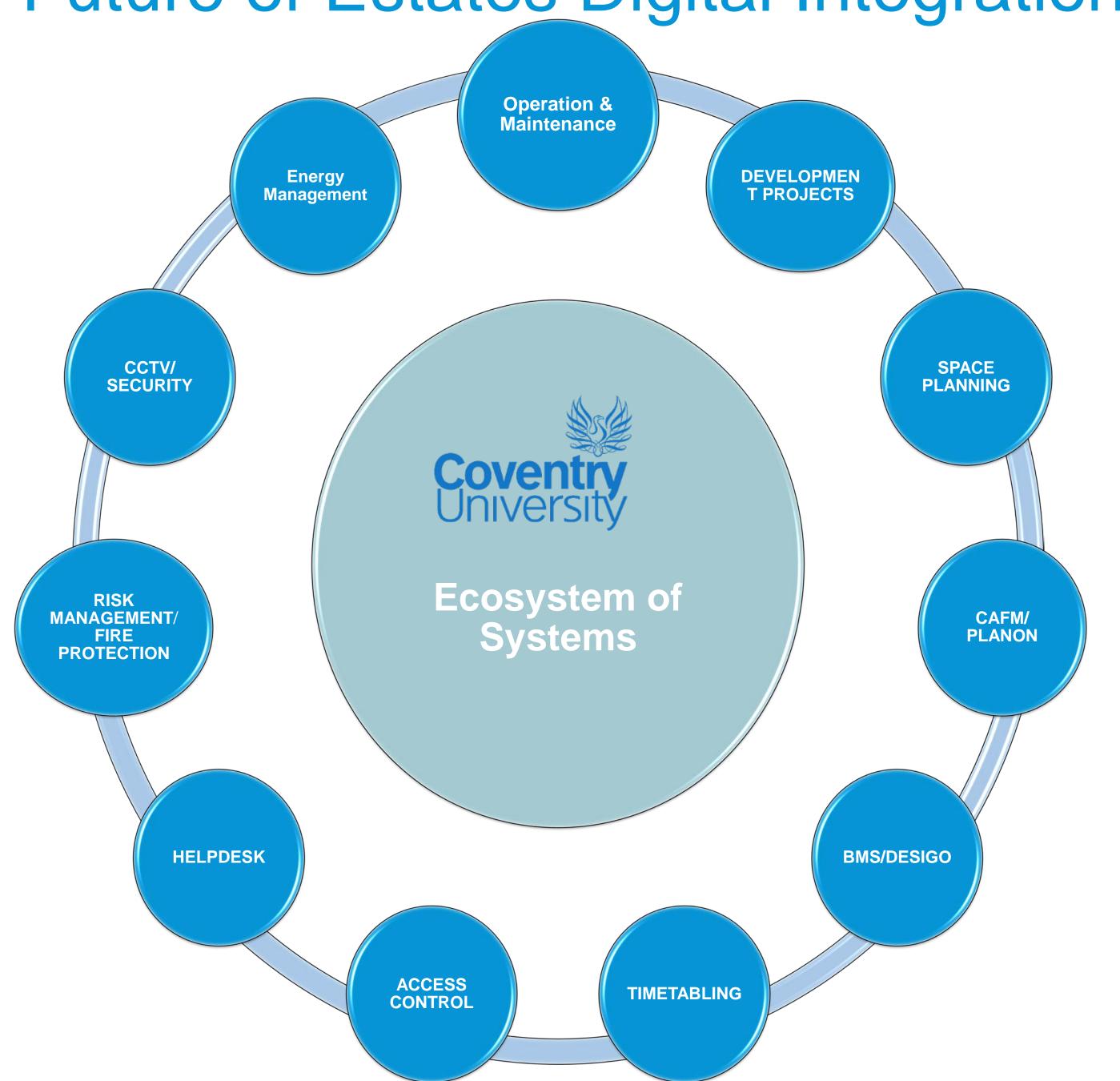


# BIM, Asset Data and Maintenance Documentation Digitised

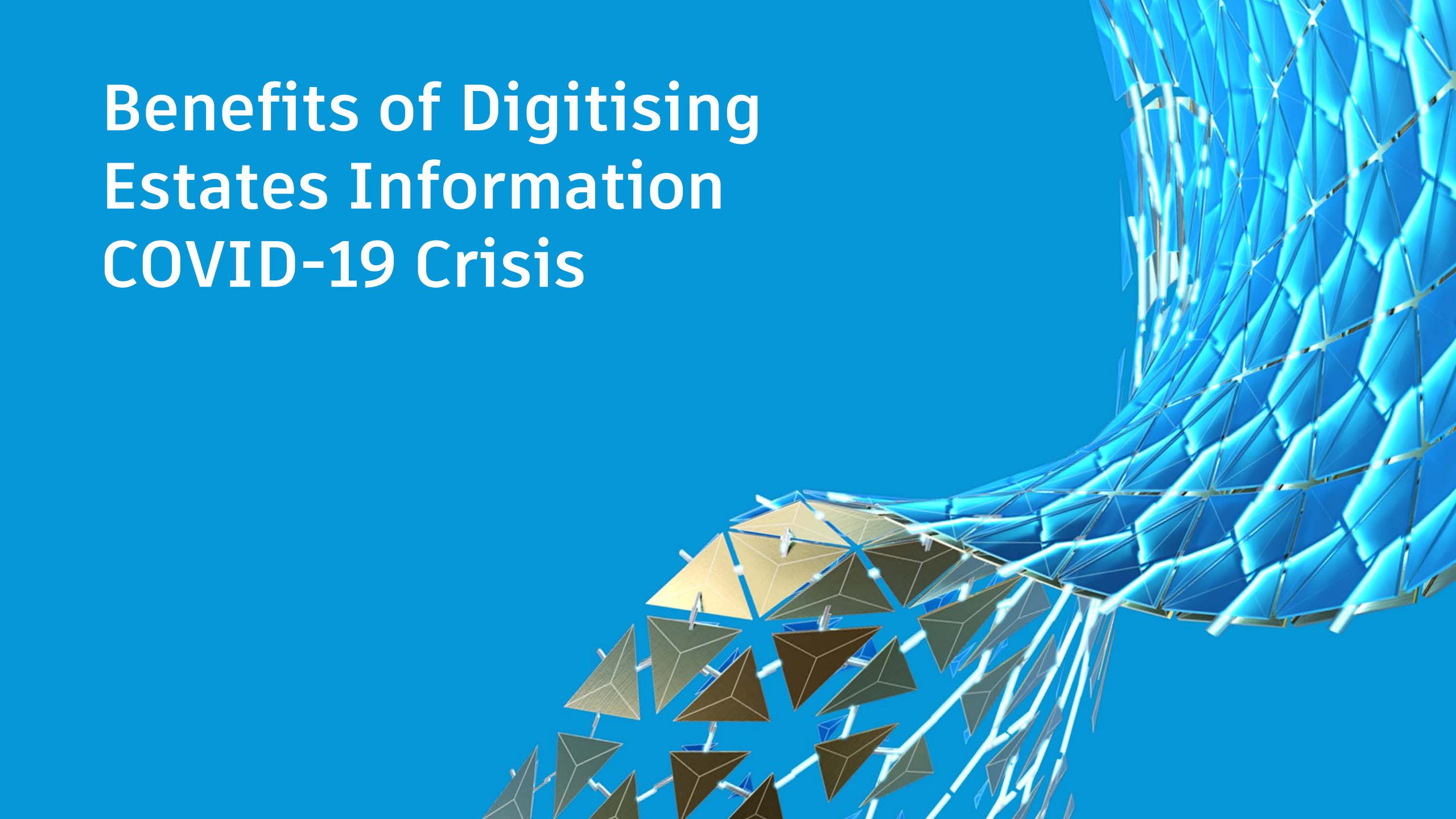
#### Common Data Environment for Projects & for AIM



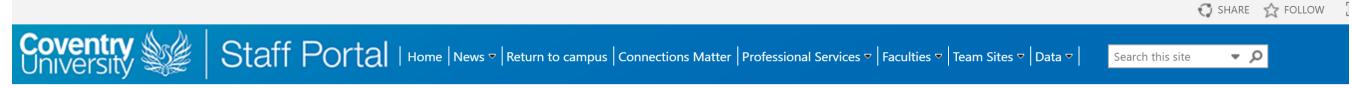
Future of Estates Digital Integration







#### Fully up to date building plans with accurate information





**Building Plans** 

Pictures

Documents

Lists

Home

Roles and Responsibilities

Customer Services

Car Parking

Cycle Lockers Bookings

University Building Postcodes

#### **Building Plans**

Switchboard

Access Control

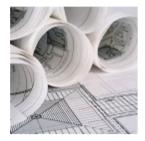
Design and Projects

Document Sharing
Centre

Environment

Health and Safet

Operations and Maintenance



#### Coventry University Building Floor Plans

The Estates department regularly receives requests for various building plan their time at the University. In order to provide a quicker method of obtaining basic floor plans for all of our main buildings. Please scroll through this page

alphabetically by building.

Due to the way in which the campus continually evolves, these plans may not always be composited Services team are in the process of reviewing and updating all campus buildings. Whe mentioned when this was done next to the building name.

If you spot any errors on these plans, we would appreciate it if you could email us with the debuilding has had any recent works it is likely that the updated plans are being worked on.

Under no circumstances should these documents be distributed to any organisation or i without the prior consent of the Estates department.

These plans are all in PDF format. If you require a plan in a different format, please send your @coventry.ac.uk. .

Desk Booking Plans & Occupancy

- Alma Ground Floor
- Alma First Floor
- Alma Second Floor

Alma Nursery



• Alma Nursery Ground Floor

Alan Berry Building - Updated December 2018



- Alan Berry Basement
- Alan Berry Ground Floor
- Alan Berry First Floor
- Alan Berry Second Floor
- Alan Berry Roof

Alison Gingell - Updated February 2018



Latatespigitaiser vicesweoveritry.ac.ak

Godiva Place - Updated July 2018



If you require plans for this building please send your request to: <a href="mailto:EstatesDigitalServices@coventry.ac.uk">EstatesDigitalServices@coventry.ac.uk</a>.

Singer Hall Admin Building - Updated November 2018

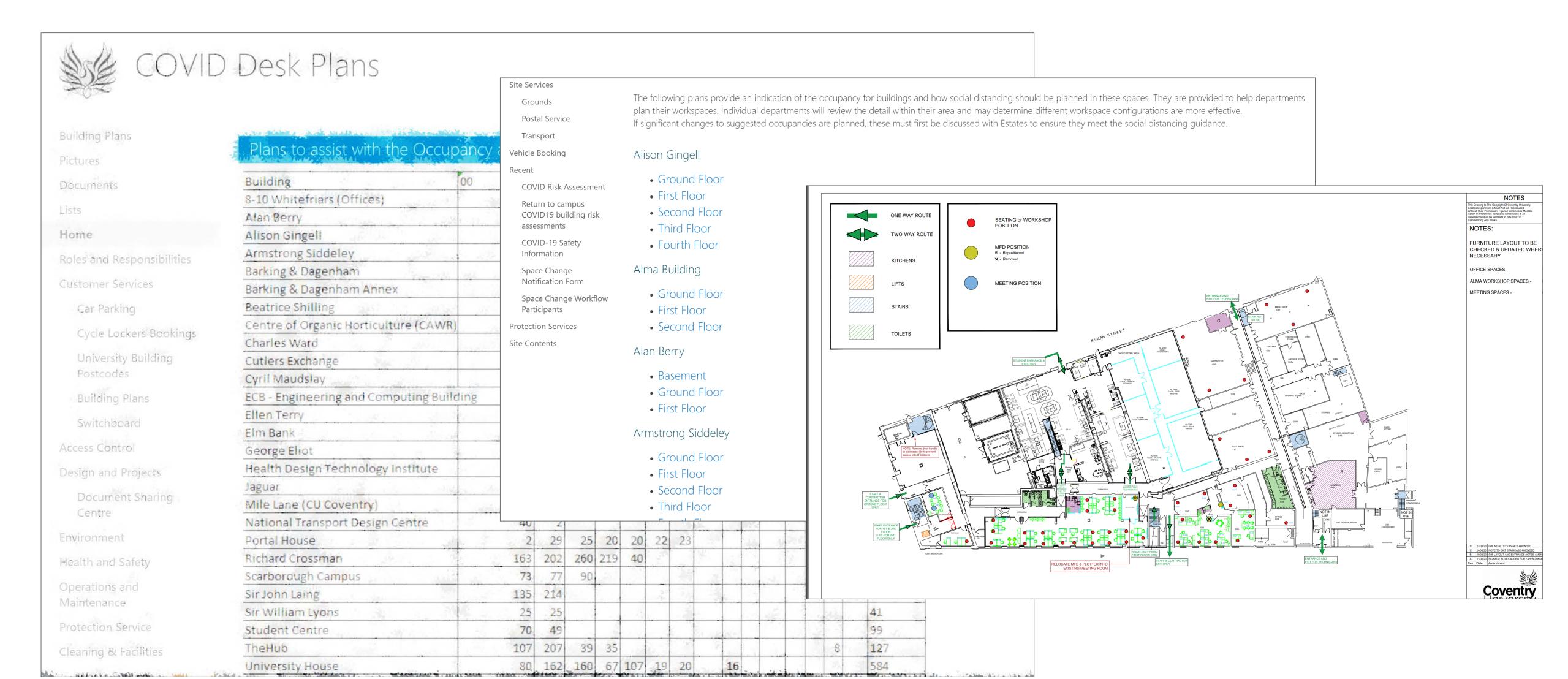
If you require plans for this building please send your request to: <a href="mailto:EstatesDigitalServices@coventry.ac.uk">EstatesDigitalServices@coventry.ac.uk</a>.

The Cycle Works - Updated January 2019



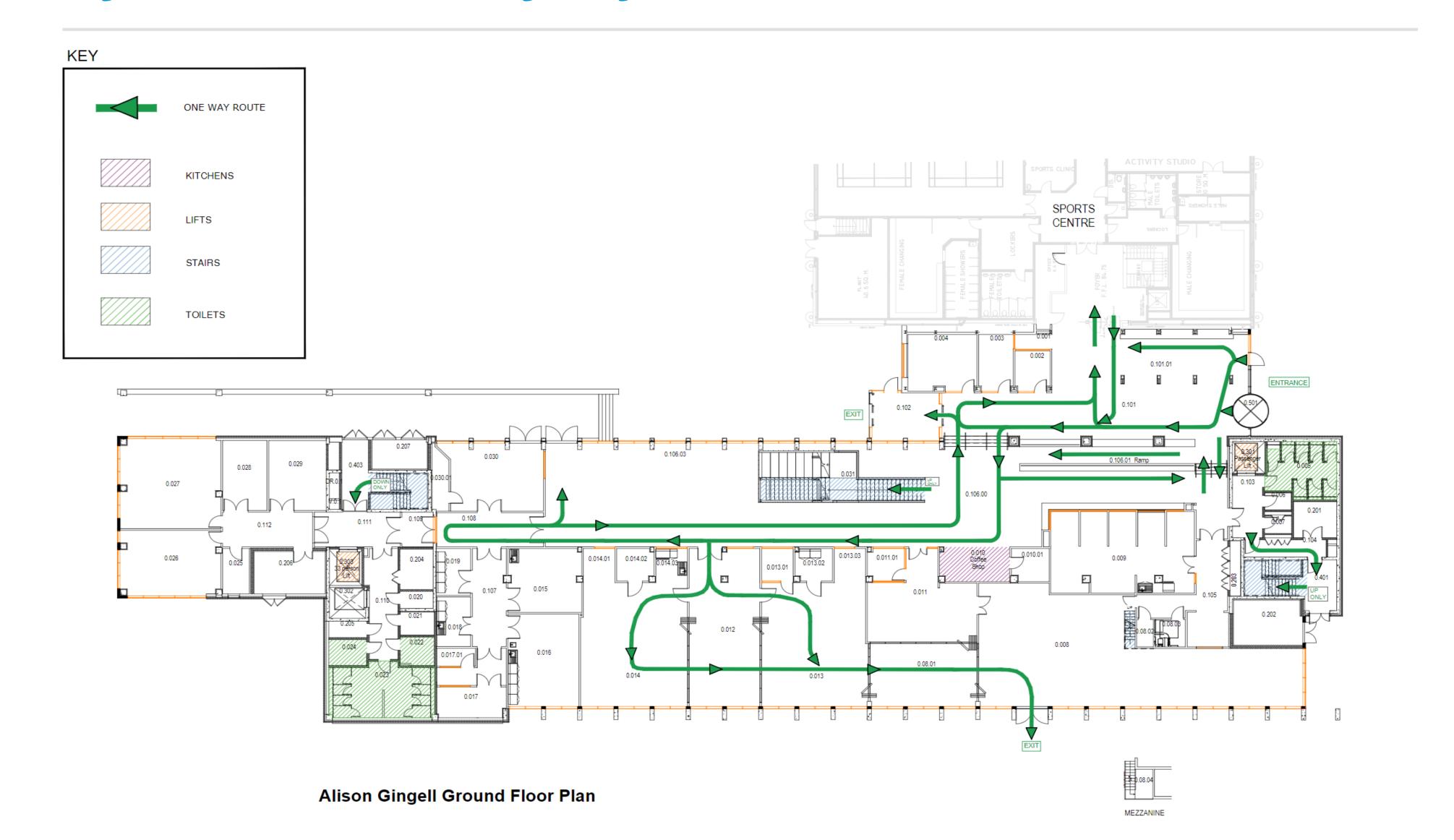
If you require plans for this building please send your request to: <a href="mailto:EstatesDigitalServices@coventry.ac.uk">EstatesDigitalServices@coventry.ac.uk</a>.

#### Flexible Working Desk Plans –Library for Coventry University Staff

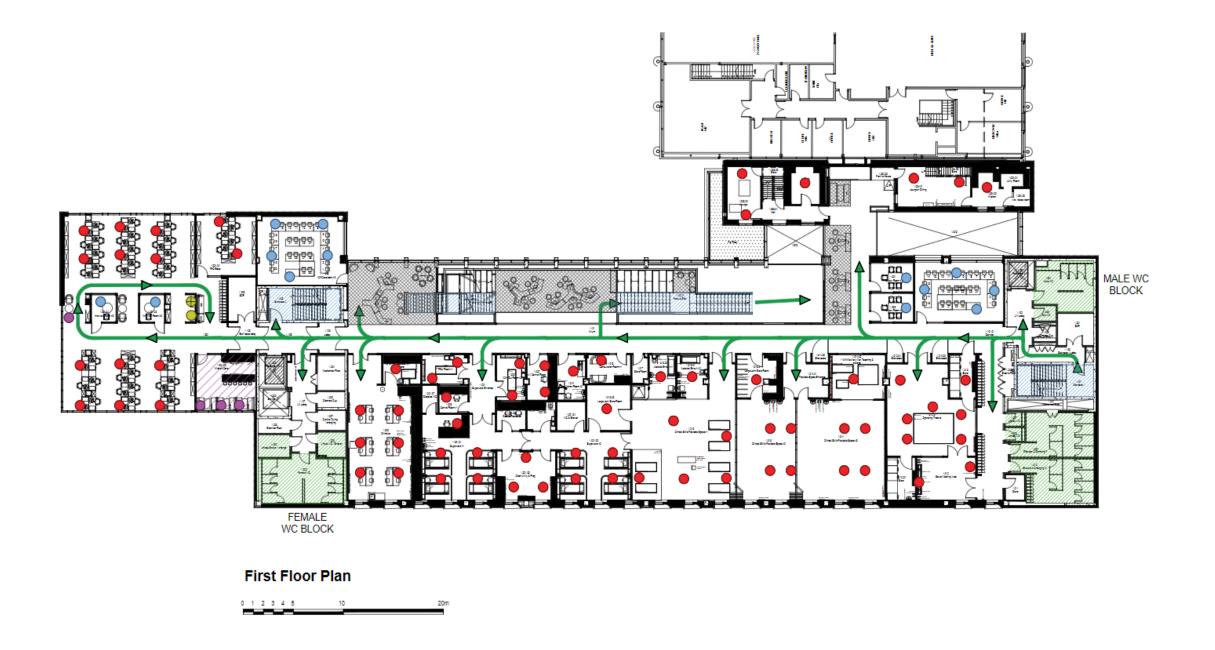


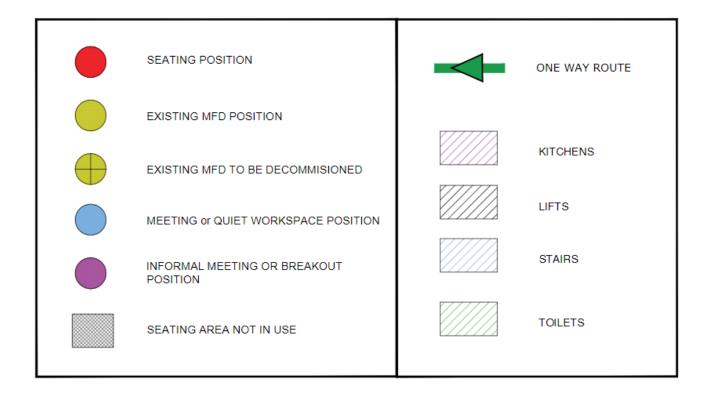
Address Combined

## Production of Campus Reopening Plans One –Way and Two-Way Systems



#### Occupancy and Seating Plans





#### NOTES

This Drawing is The Copyright Of Coventry Univer States Department & Must Not Be Reproduced Without Their Permission. Figured Dimensions Mu Taken in Preference To Scaled Dimensions & All Dimensions Must Be Verified On Site Prior To

#### NOTE

LAYOUT SUBJECT TO CHANGE FOLLOWING ISSUING OF OFFICIAL GOVERNMENT GUIDELINES

FURNITURE LAYOUT TO BE CHECKED & UPDATED WHERE NECESSARY

OFFICE SPACES - 14

MEETING or QUIET WORK
SPACES - 13

INFORMAL MTG SPACES - 01

BREAKOUT SPACES - 03

LAB & SPECIALIST SPACES - 50

HOUSE SPACES -



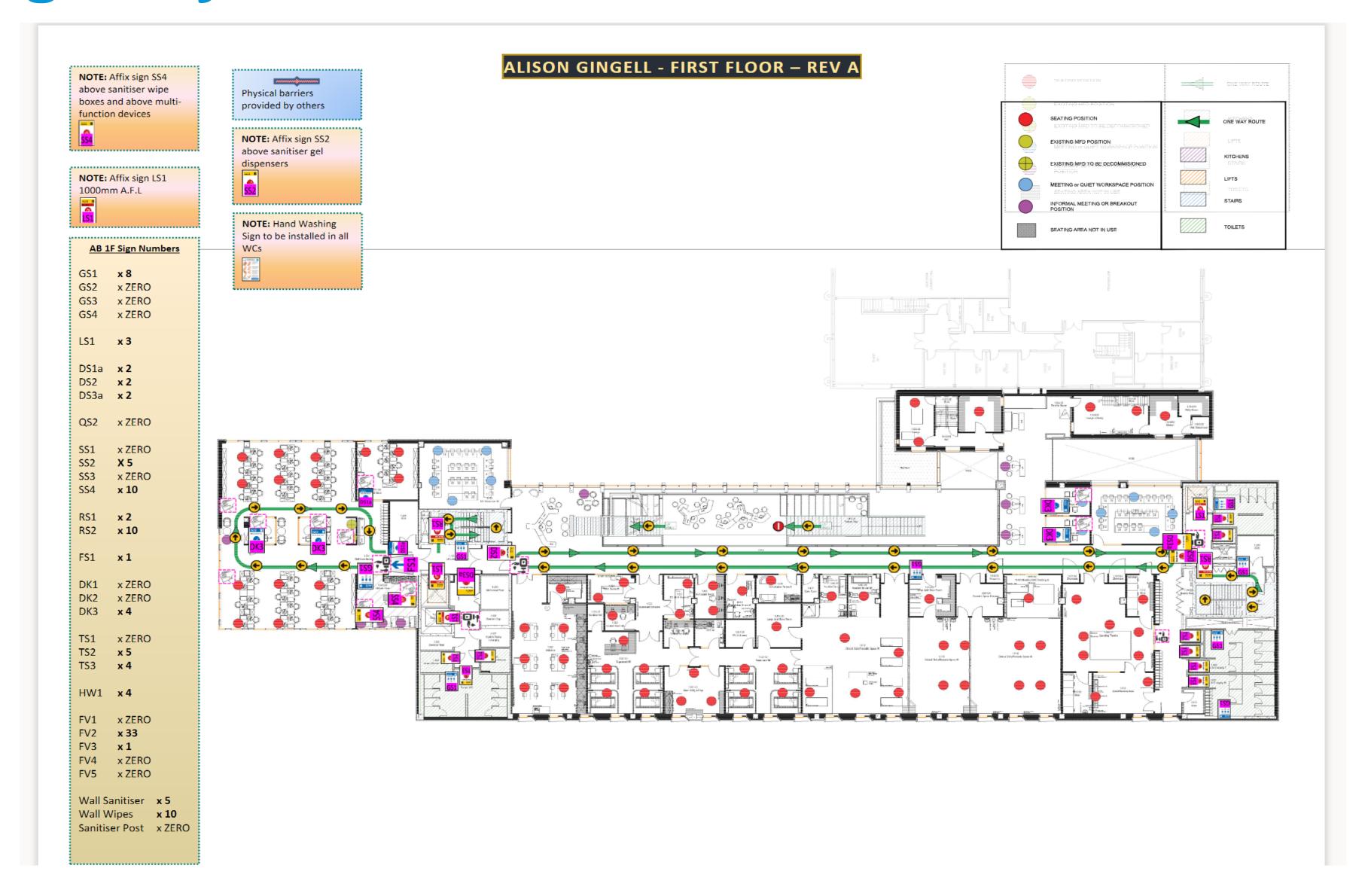
Priory Street, Coventry CV1 SFB Tel: 024 76887688 Fax: 024 76887336

FOR INFORMATION

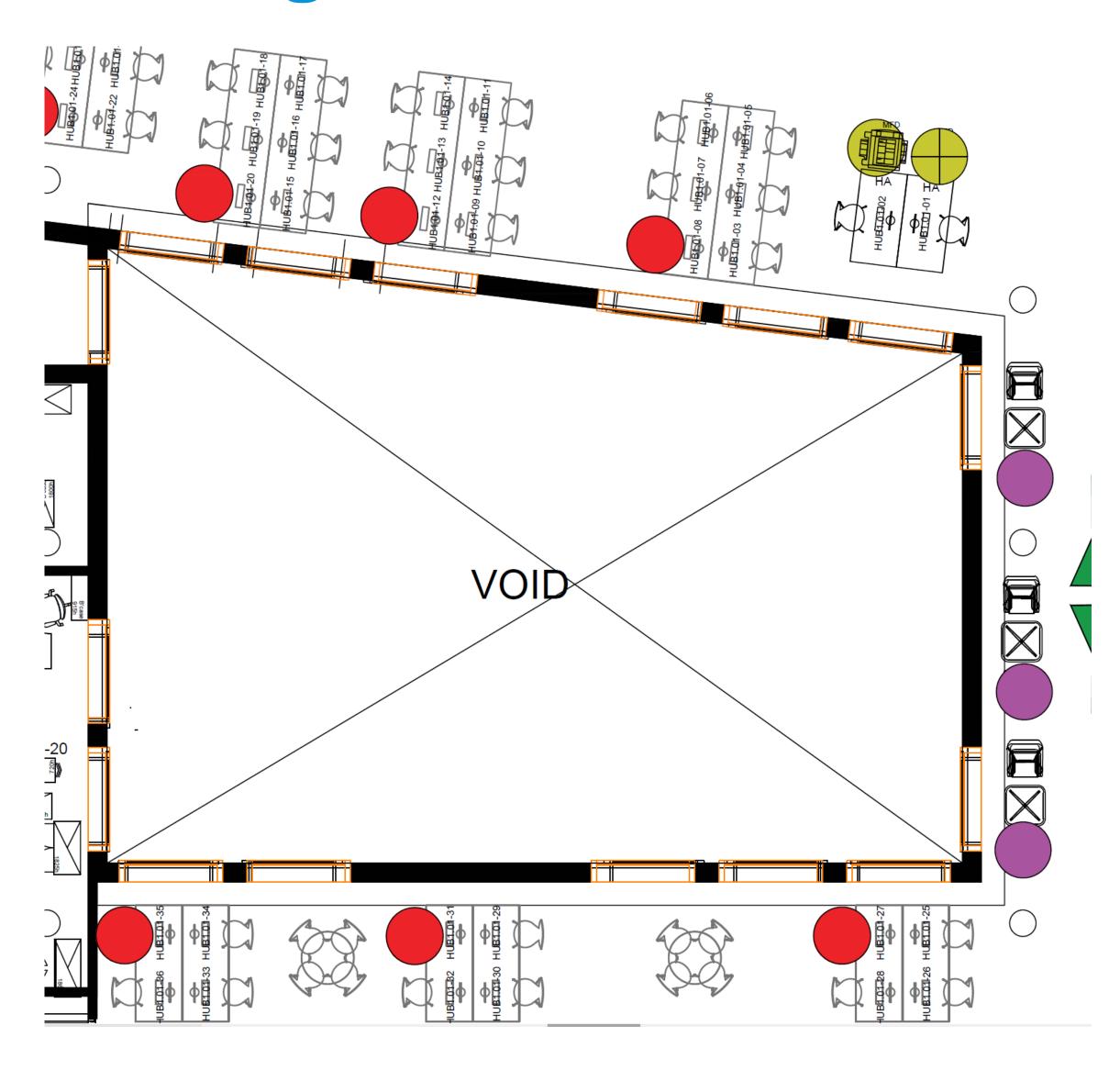
ALISON GINGELL FIRST FLOOR

PROPOSED "COVID 19"
BACK TO WORK LAYOUT

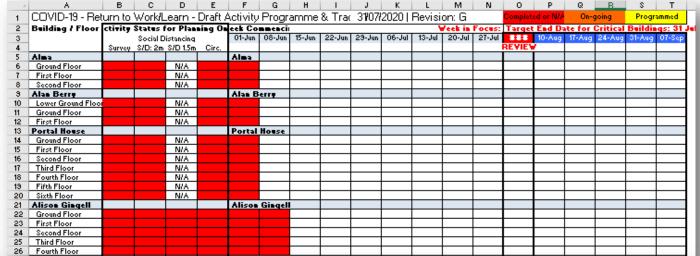
# Signage Layouts – Floor and Walls



# Desk Numbering

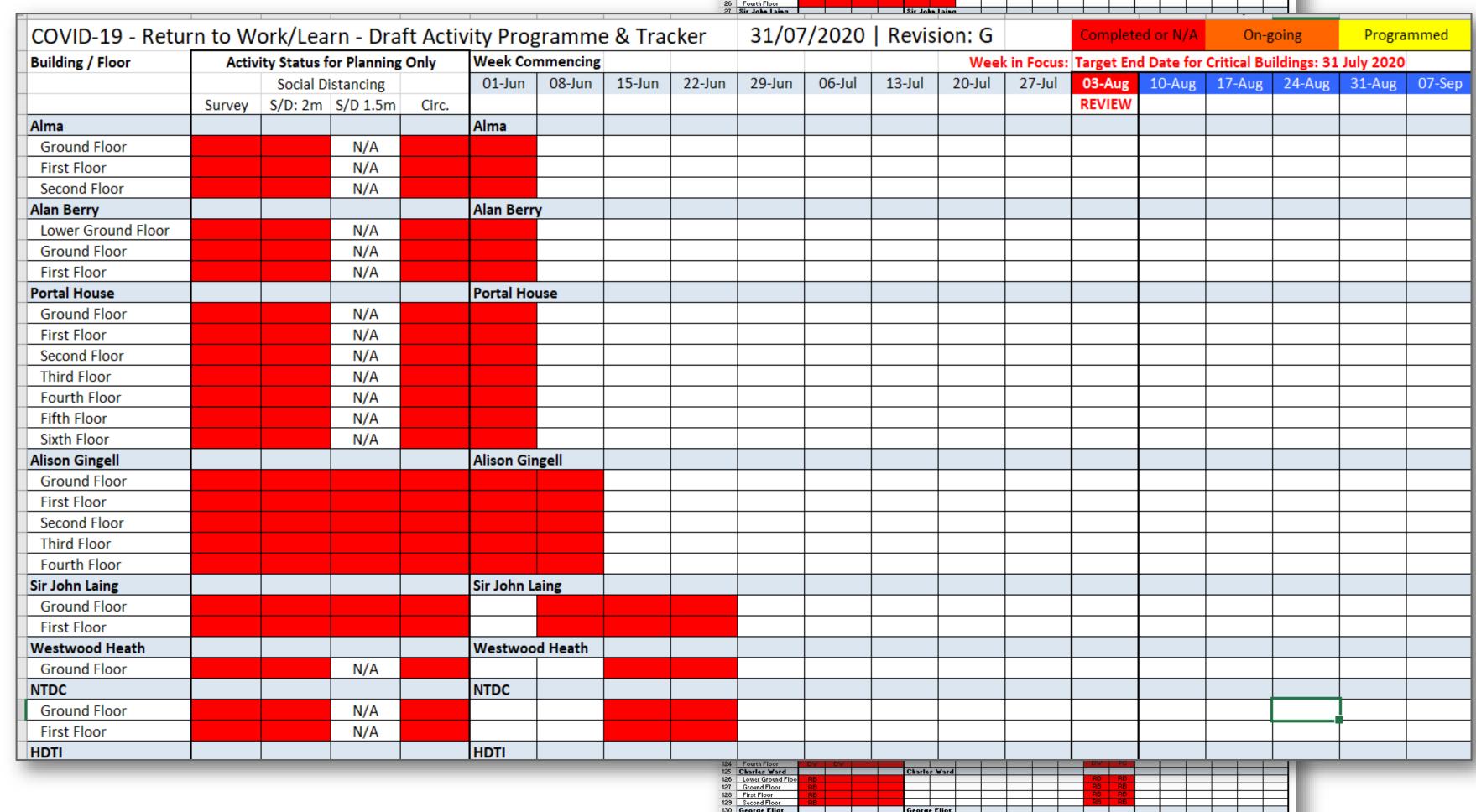


### **COVID-19 Return to Work Planning**

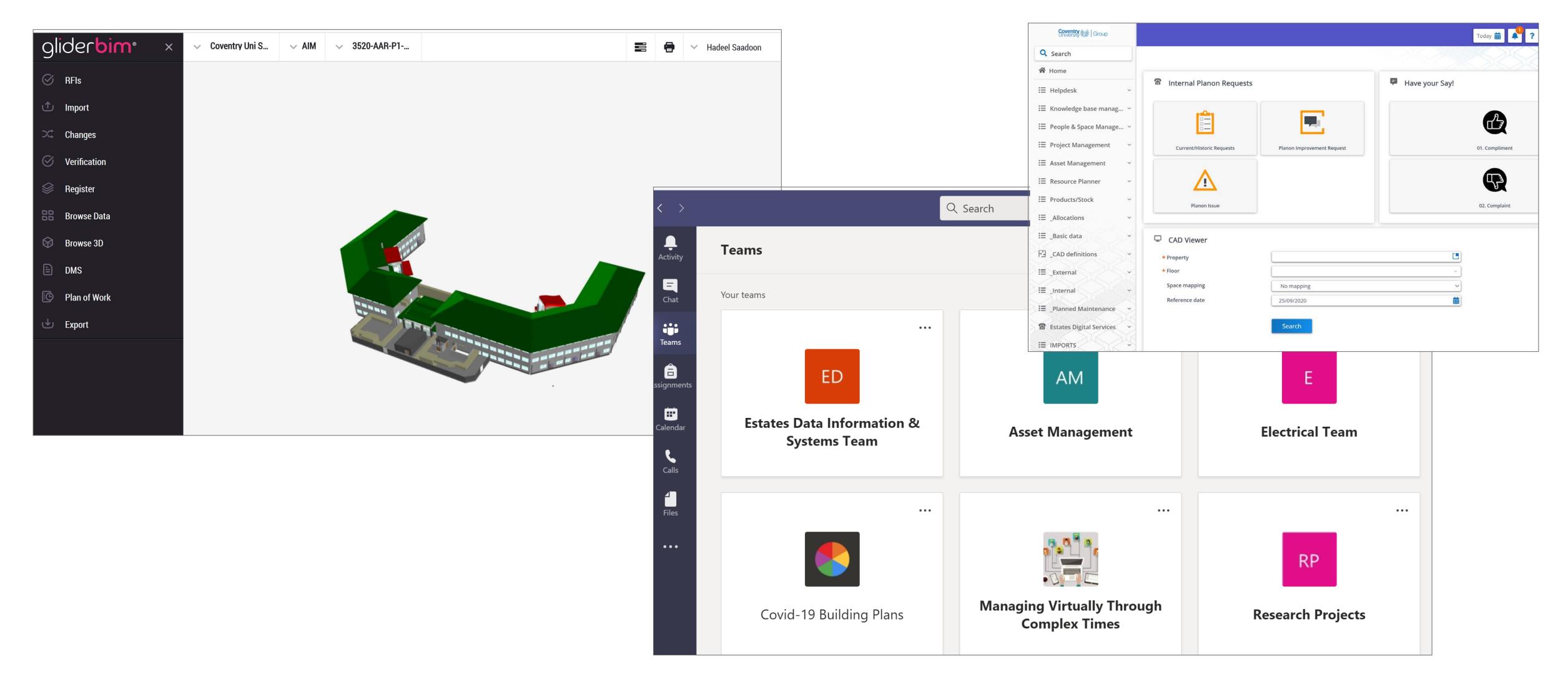


**COVID-19 RtW Tracker** 

- Plans updates
- Internal Routes
- Furniture Layouts
- Seating capacity
- Stakeholders
- Physical Signage
- Desk Numbering
- External space
- Systems update
- H&S Processes
- Publishing to staff



# Adoption and development of Online Platforms MS Teams, Planon and CDE



# Rapid systems development Desk Booking System

<b>General information</b>	Time and location	<ul><li>Overview</li></ul>
ſ-		
Welcome to the Workspace Booking Form  Please enter your details below and press 'Continue' to search and book a desk. If you have any difficulty in using this screen please email the Estates Digital Service Team on EstatesDigitalServices@coventry.ac.uk		
To view the floor plan for your building please select (ctrl and click) here.		
* Description	Reservation flexible workspace	
Requestor	ac7665 Hadeel Saadoon	
On behalf of		
Department		
Comment		
Cancel		Continue Done, go to overview

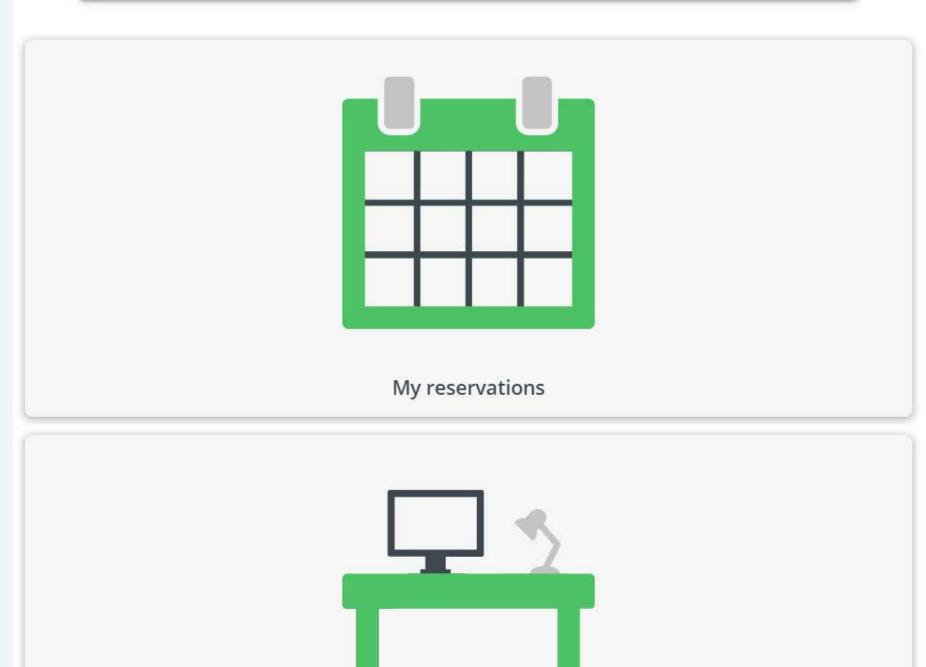
#### □ Book and Check a Workspace Booking

Not all buildings are utilising this booking system. Please see the list below for available buildings.

(Alison Gingell, Alma, Alan Berry, Cyril Maudslay, ECB, Sir John Laing, Elm Bank, Whitefriars (Offices), William Lyons (ICTE), William Morris, Jaguar, CAWR, Portal House (4th Flr), University House, Cutlers Exchange, Scarborough, Mile Lane and Confucius Institute)

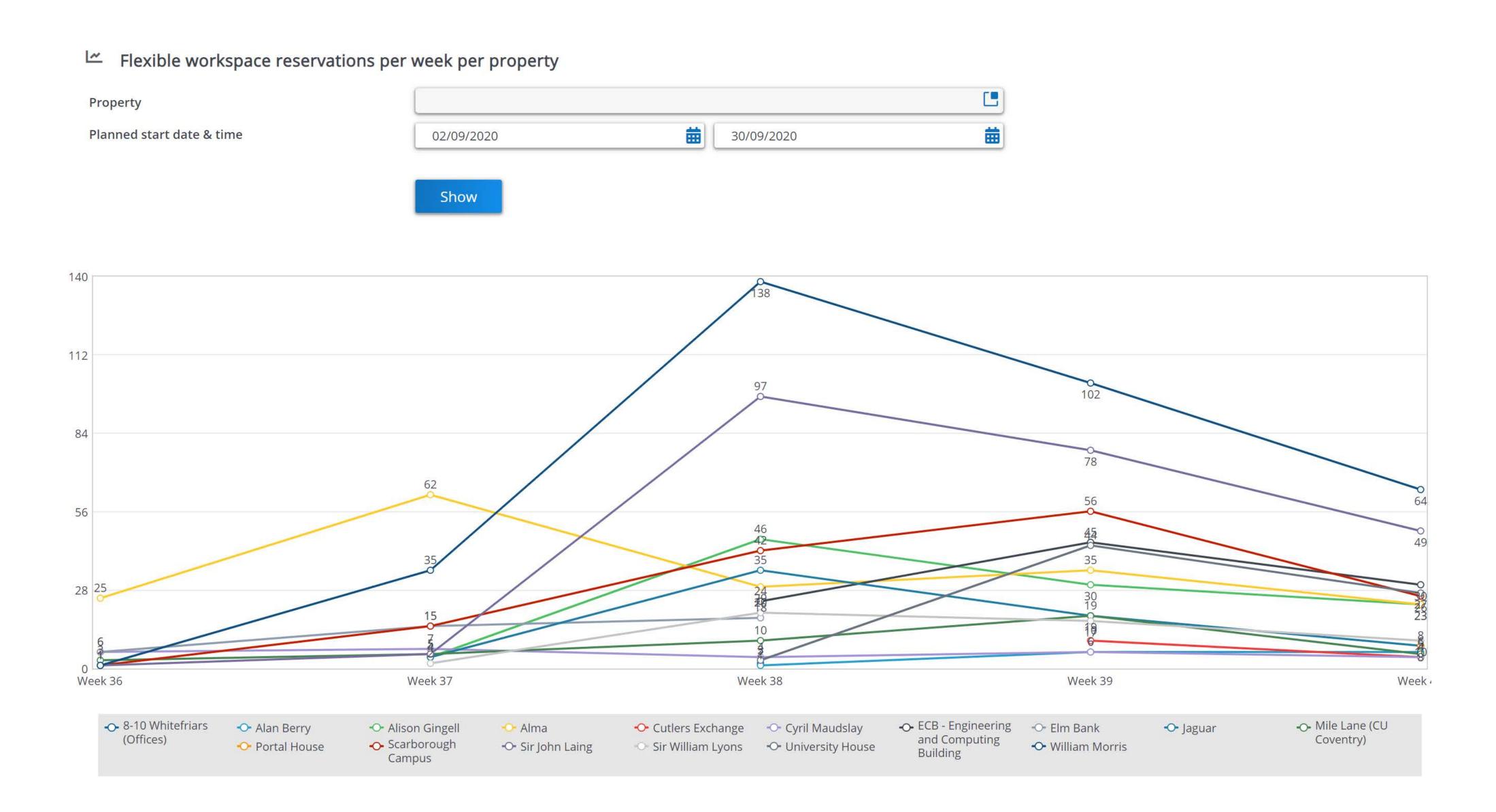
For more information contact

EstatesDigitalServices@coventry.ac.uk



Reservation flexible workspaces

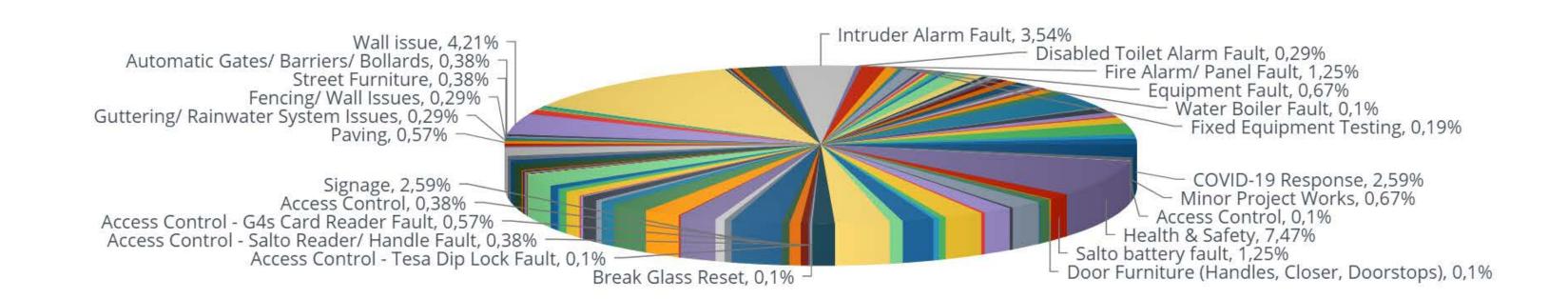
### Reporting on Flexible workspace reservations (per week per property)



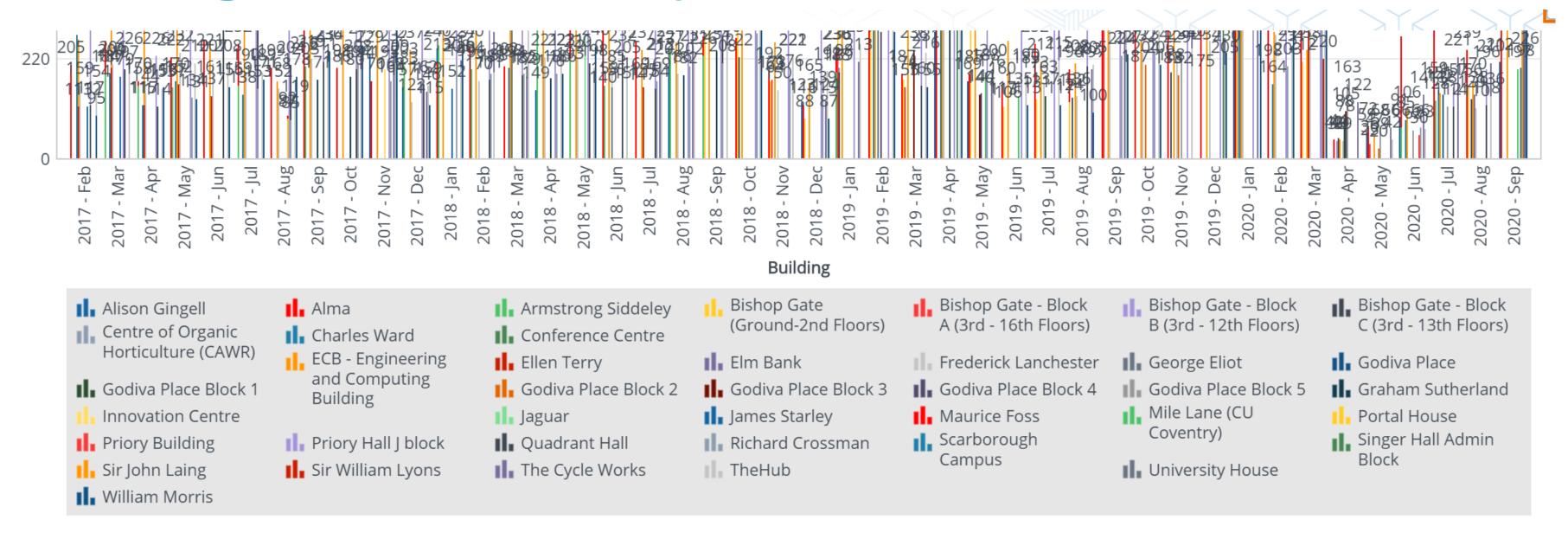
### Remote Management of Work Orders

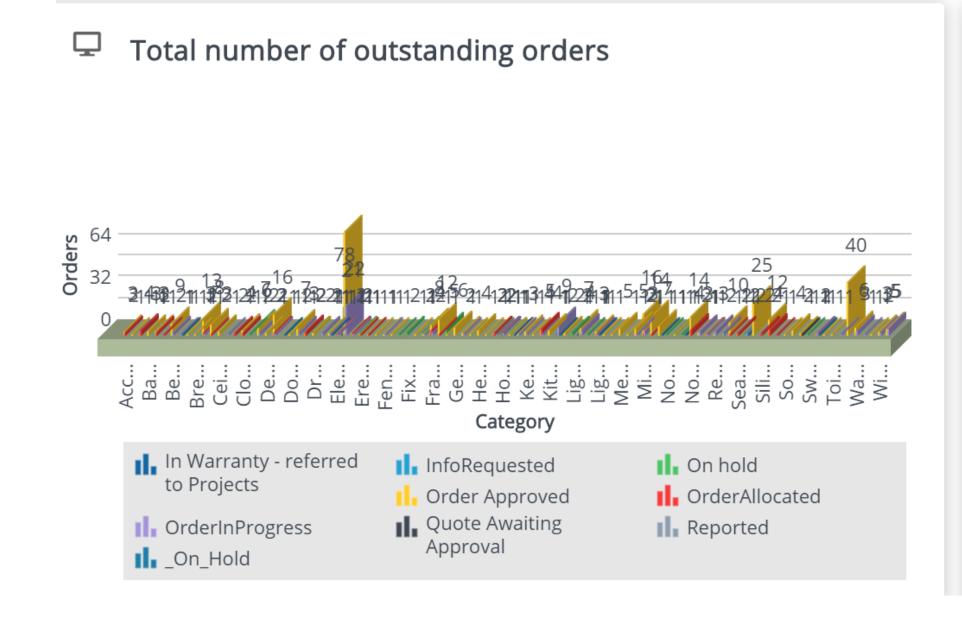


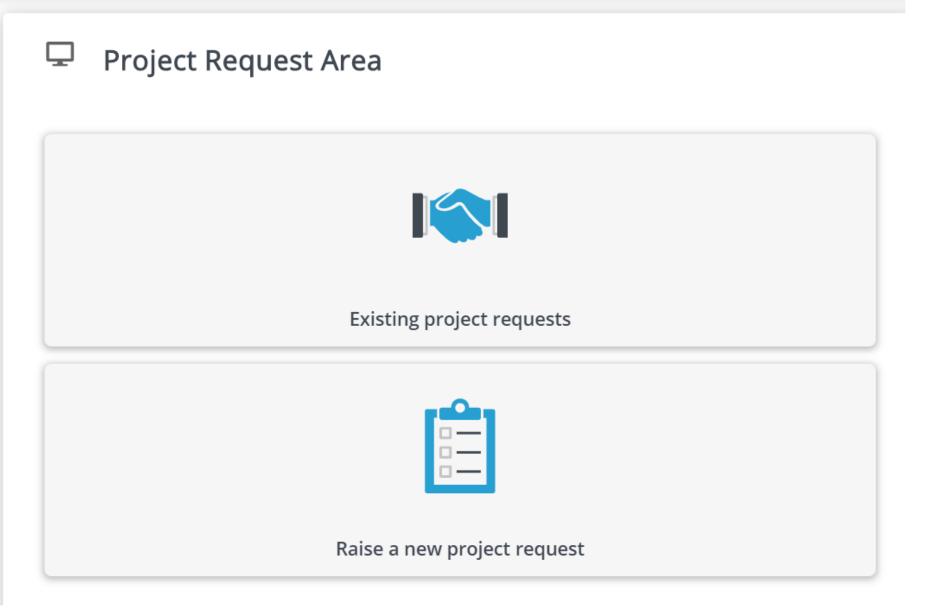
Outstanding work orders per order group



### Remote Management of Projects Requests

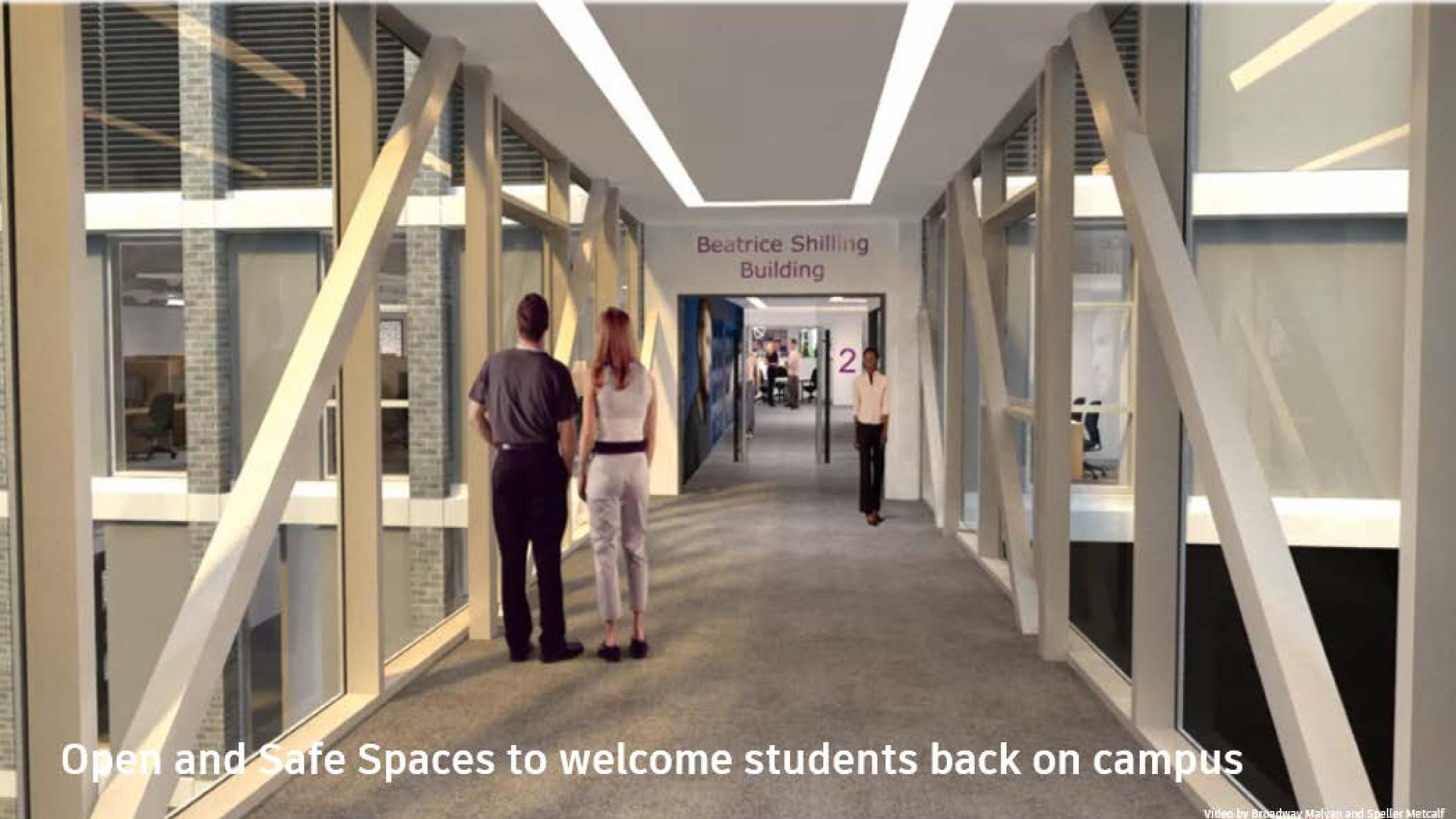






# Coventry University Digital Campus







Thank You Hadeel Safaa Saadoon



Autodesk and the Autodesk logo are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2020 Autodesk. All rights reserved.

