



Delivering BIM Level 2

A collaborative workflow for the entire project team

Clients, want more from BIM

- Visibility and easy access to models, get insights, but have limited Access to BIM
- Need to make the BIM process accountable, reduce RFI's and change orders, but have limited transparency
- Need for better BIM for FM and streamline the transition to building operations, but model data falls short of expectations and handover is fragmented
- A “Digital Building Manual” and a single source of truth for building data, but models delivered are not usable

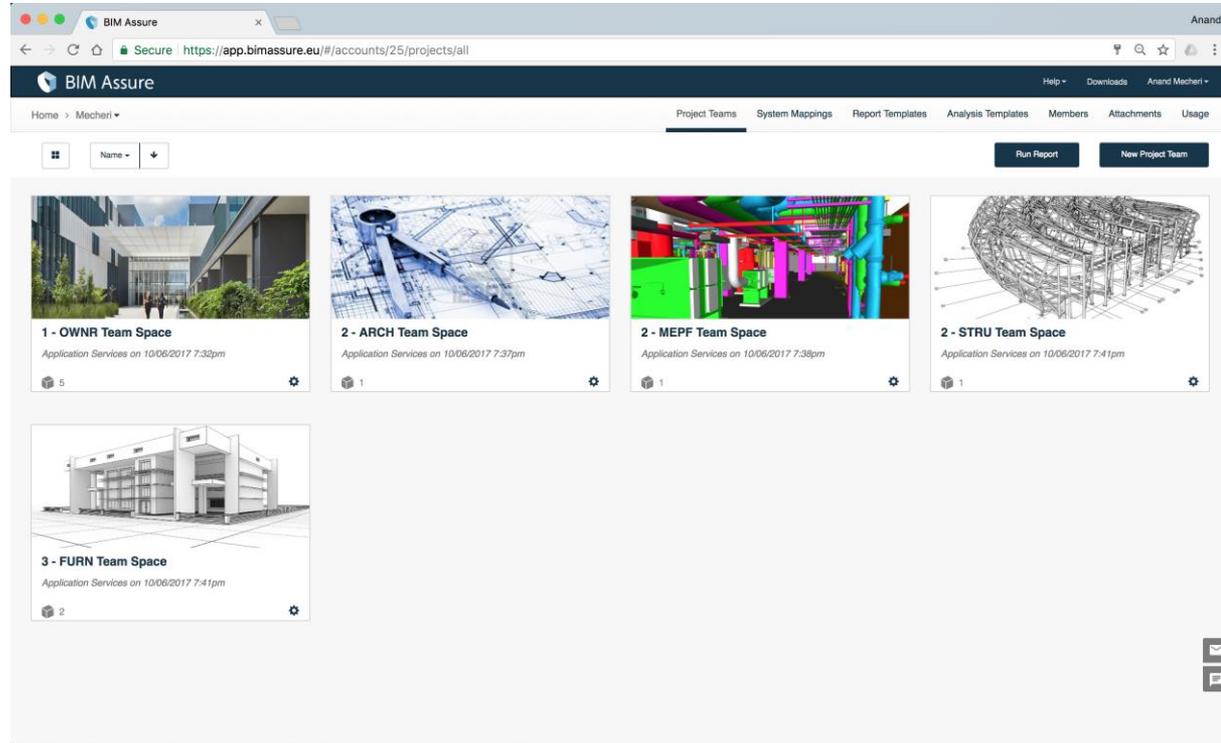
Where do we start?

- A clear definition of what information is expected.
- Develop an AIR, through a collaborative process and establish a standard for all your projects.
- AIR (Asset Information Requirement) as a machine readable doc.
 - Rows represent the assets that matter
 - Columns represent the information that matter for each asset
 - Cells represent the stage at which the information must be delivered
 - Define parties responsible to deliver the information
- Make the AIR part of the contract. All parties know the expectation.

A platform for the entire project team

A Team Space is a sandbox that is administered by a member of the respective project team

Model deliverables at each stage is published into the respective team space for “Work in progress”



Revit Integration and Data Sync

Publish models directly from Revit

Full control over model elements published by managing visibility settings in Revit

Easily add data, find and fix issues directly in BIM Assure and Synch back (or) fix or in Revit



IFC Support

Check data from a wide range of tools throughout design and construction

Federate & Publish IFC files and find missing or incorrect information

Detailed issue reports from BIM Assure help modelers find and fix issues

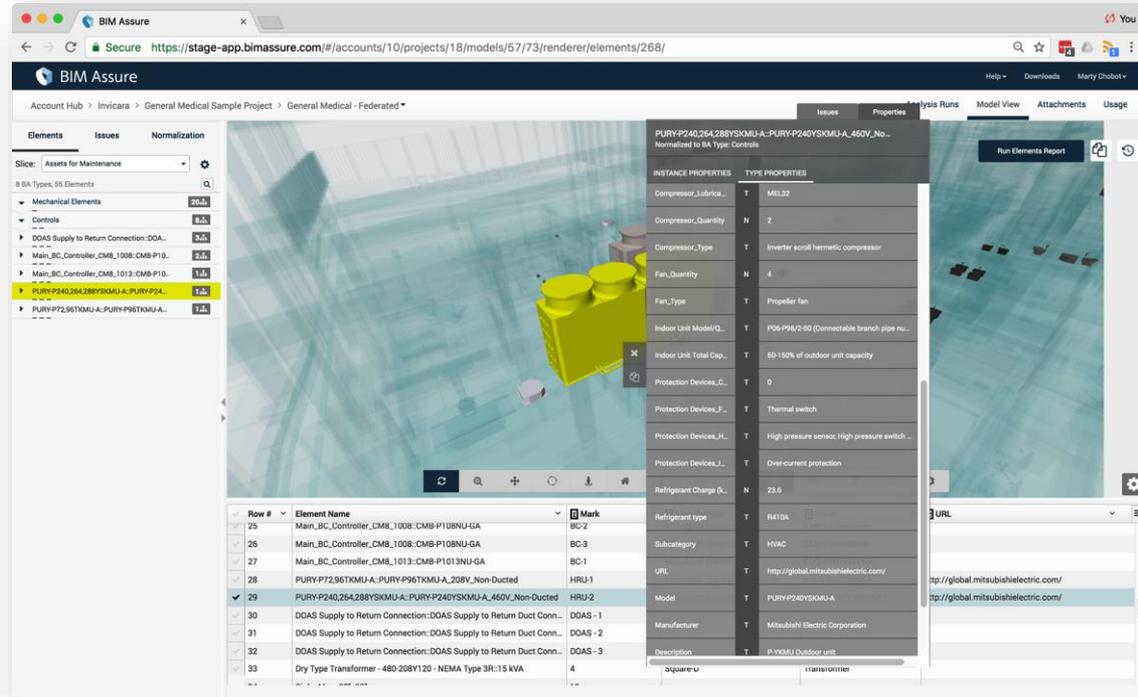


Data Viewing and Editing

Create new workflows for model data management

Decouple data management from modeling

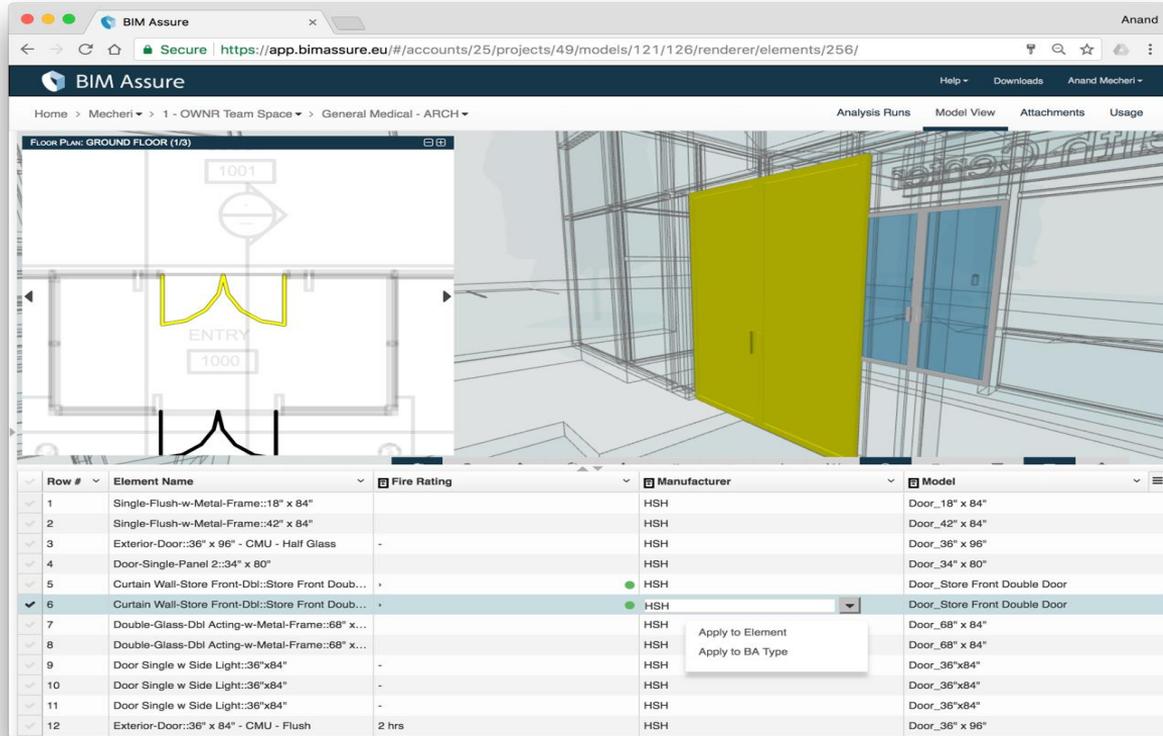
Often non-modelers are the right people to manage the data



Socialize data aggregation on models

Slice & Dice the model to focus on a collection of elements and data that matter.

Send a link to your supplier for them to easily feed data into the model



The screenshot displays the BIM Assure web application interface. The top navigation bar includes the BIM Assure logo, user name 'Anand Mecheri', and menu items like 'Help', 'Downloads', and 'Usage'. The main content area is split into two views: a 2D floor plan on the left and a 3D perspective view of a building facade on the right. The floor plan shows a yellow highlighted area labeled 'ENTRY 1000'. The 3D view shows a yellow highlighted door element. Below the views is a data table with columns for Row #, Element Name, Fire Rating, Manufacturer, and Model.

Row #	Element Name	Fire Rating	Manufacturer	Model
1	Single-Flush-w-Metal-Frame::18" x 84"		HSH	Door_18" x 84"
2	Single-Flush-w-Metal-Frame::42" x 84"		HSH	Door_42" x 84"
3	Exterior-Door::36" x 96" - CMU - Half Glass		HSH	Door_36" x 96"
4	Door-Single-Panel 2::34" x 80"		HSH	Door_34" x 80"
5	Curtain Wall-Store Front-Dbl::Store Front Doub...		HSH	Door_Store Front Double Door
6	Curtain Wall-Store Front-Dbl::Store Front Doub...		HSH	Door_Store Front Double Door
7	Double-Glass-Dbl Acting-w-Metal-Frame::68" x...		HSH	Door_68" x 84"
8	Double-Glass-Dbl Acting-w-Metal-Frame::68" x...		HSH	Door_68" x 84"
9	Door Single w Side Light::36"x84"		HSH	Door_36"x84"
10	Door Single w Side Light::36"x84"		HSH	Door_36"x84"
11	Door Single w Side Light::36"x84"		HSH	Door_36"x84"
12	Exterior-Door::36" x 84" - CMU - Flush	2 hrs	HSH	Door_36" x 96"

Reliable Data:
BIM Assure rules help
verify deliverables at
each milestone.

The screenshot shows the BIM Assure web application interface. The browser address bar indicates the URL: <https://stage-app.bimassure.com/#/accounts/10/projects/18/models/56/latest/analysisruns>. The page title is "BIM Assure". The breadcrumb navigation shows: Account Hub > Invicara > General Medical Sample Project > General Medical - Architecture. The main content area displays a summary of analysis runs:

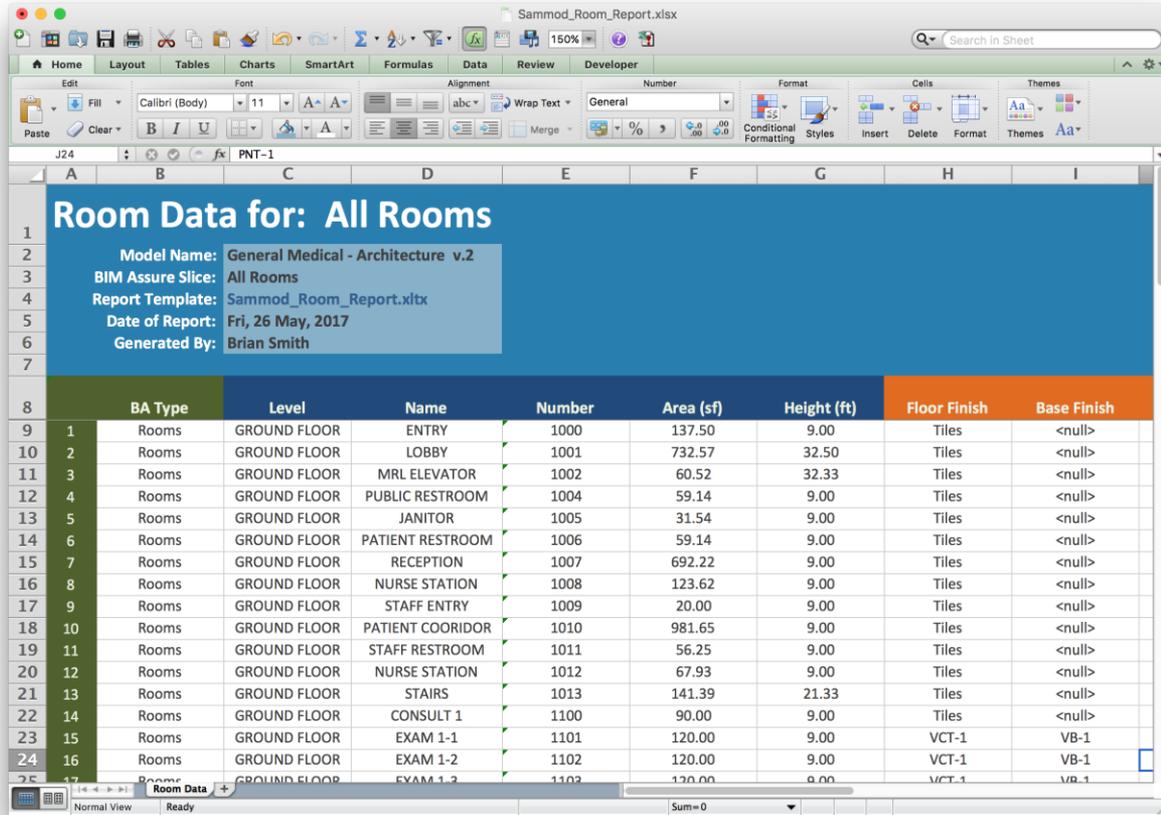
- 12 ANALYSES
- 3874 ELEMENT ISSUES
- 2 ANALYSES VALIDATED

The analysis runs are listed in a grid:

Analysis Name	Total Rules	Failing Rules	Element Issues	Status
ACME Inc. - BIM Standards	8	4	1055	Warning
ACME Inc. - Owner Handover	9	9	2528	Warning
ARCH - Check Doors	5	0	0	Validated
ARCH - Check Ceilings	9	5	65	Warning
ARCH - Check Floors	7	4	14	Warning
ARCH - Check Ramps	3	0	0	Warning
ARCH - Check Roofing	7	6	19	Warning
ARCH - Check Room	8	0	0	Validated

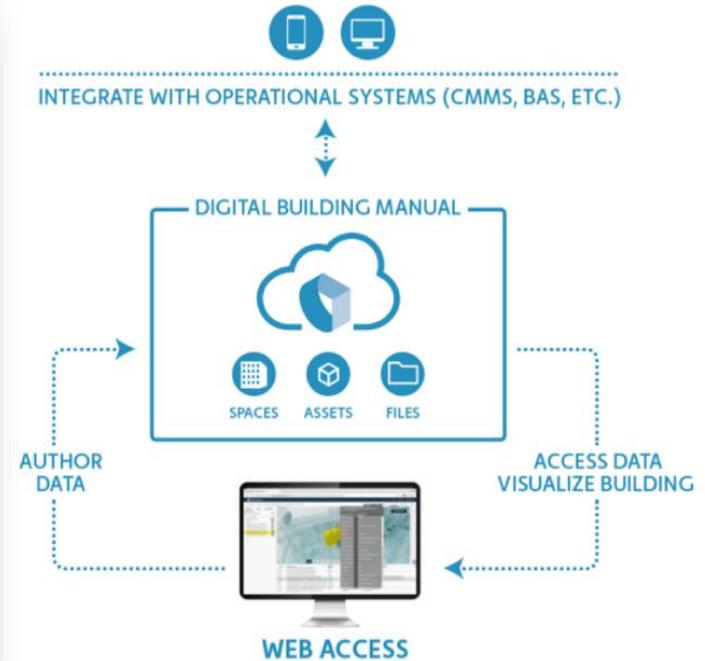
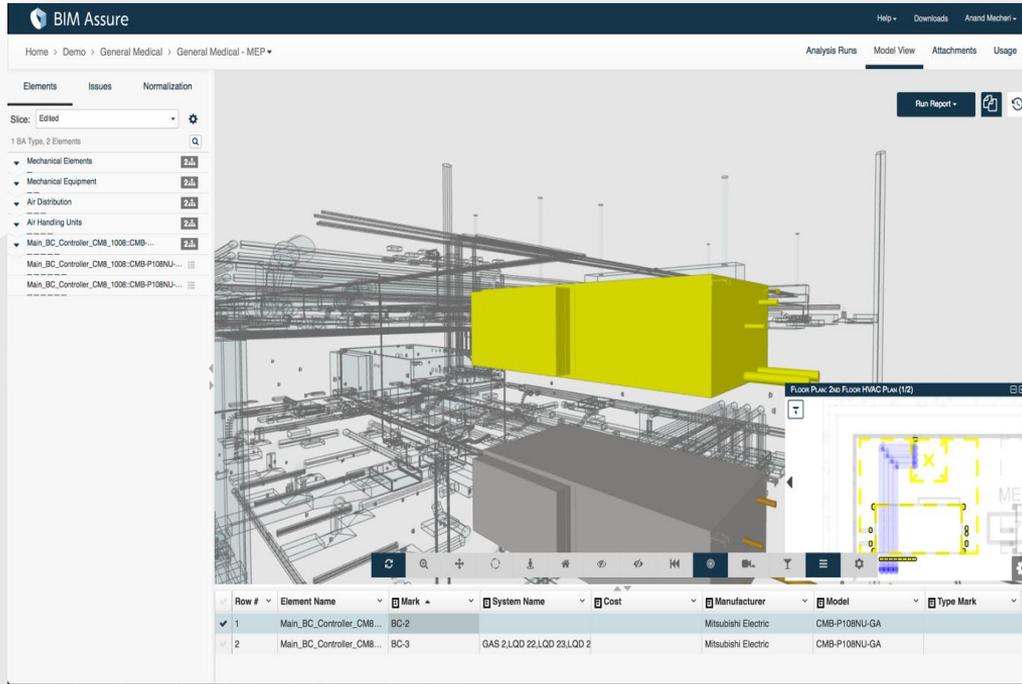
An orange callout box on the right contains the text: "The project team publishes their models into BIM Assure and easily check and fix any missing or incorrect data at each project milestone."

Powerful reports: Easily export space and asset data to Excel for analysis, to share with other departments, and to import into other systems.



Room Data for: All Rooms								
Model Name:		General Medical - Architecture v.2						
BIM Assure Slice:		All Rooms						
Report Template:		Sammod_Room_Report.xlsx						
Date of Report:		Fri, 26 May, 2017						
Generated By:		Brian Smith						
BA Type	Level	Name	Number	Area (sf)	Height (ft)	Floor Finish	Base Finish	
1	Rooms	GROUND FLOOR	ENTRY	1000	137.50	9.00	Tiles	<null>
2	Rooms	GROUND FLOOR	LOBBY	1001	732.57	32.50	Tiles	<null>
3	Rooms	GROUND FLOOR	MRL ELEVATOR	1002	60.52	32.33	Tiles	<null>
4	Rooms	GROUND FLOOR	PUBLIC RESTROOM	1004	59.14	9.00	Tiles	<null>
5	Rooms	GROUND FLOOR	JANITOR	1005	31.54	9.00	Tiles	<null>
6	Rooms	GROUND FLOOR	PATIENT RESTROOM	1006	59.14	9.00	Tiles	<null>
7	Rooms	GROUND FLOOR	RECEPTION	1007	692.22	9.00	Tiles	<null>
8	Rooms	GROUND FLOOR	NURSE STATION	1008	123.62	9.00	Tiles	<null>
9	Rooms	GROUND FLOOR	STAFF ENTRY	1009	20.00	9.00	Tiles	<null>
10	Rooms	GROUND FLOOR	PATIENT COORIDOR	1010	981.65	9.00	Tiles	<null>
11	Rooms	GROUND FLOOR	STAFF RESTROOM	1011	56.25	9.00	Tiles	<null>
12	Rooms	GROUND FLOOR	NURSE STATION	1012	67.93	9.00	Tiles	<null>
13	Rooms	GROUND FLOOR	STAIRS	1013	141.39	21.33	Tiles	<null>
14	Rooms	GROUND FLOOR	CONSULT 1	1100	90.00	9.00	Tiles	<null>
15	Rooms	GROUND FLOOR	EXAM 1-1	1101	120.00	9.00	VCT-1	VB-1
16	Rooms	GROUND FLOOR	EXAM 1-2	1102	120.00	9.00	VCT-1	VB-1
17	Rooms	GROUND FLOOR	EXAM 1-3	1103	120.00	9.00	VCT-1	VB-1

A Digital Twin for operations



BIM Assure gives Clients more reasons to use BIM



Mr. Tom Costello
IPUT plc

“We have adopted BIM Assure at IPUT, as our platform of choice to get visibility to BIM deliverables and help us get data we need from design and construction teams to efficiently operate and maintain our buildings,” says Tom Costello, Head of Construction at IPUT, Chairman, National Pediatric Hospital Development Board.

“In addition to new construction projects, we expect BIM Assure to help us progressively digitize our estate of buildings to create a uniform standard of care across all our properties, new and existing.”

BIM Assure gives Clients confidence in their program



The GDA are delighted to partner with Invicara and use their platform BIM Assure to receive BIM information from our supply chain and validate/verify this information for completeness.

This partnership with BIM Assure is to help advance BIM, particularly in Ireland

... Robert Moore, GDA.

AEC firms are enabled to deliver data with ease



"Using BIM Assure helps us create a higher quality product at the end of the day, that provides long term benefits to clients. We now have processes in place and the tools to deliver high quality, usable data that add value."

Carl Goodiel, VDC Manager, Hensel Phelps

Extract from published case study ... "In fact, the workflow has become so efficient that Carl and Monty have taken what had previously been a week's worth of work to gather and check data for a milestone down to half a day or less."



BIM Assure

Questions?