



CATCHING THE I

ft. **BIM GURU**

WWW.BIMGURU.COM.AU

ABOUT ME

CONTEXT BEHIND MY TAKE

- Architectural background
- 10 years in Australian AEC
- Predominantly delivering in Revit
- Launched my consulting business in March 2020 (BIM Guru)
- Manage a BIM focused YouTube channel (Aussie BIM Guru)



BIM STRATEGY

Business and project



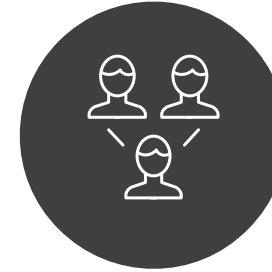
BIM MODEL SERVICES

Revit focus



BIM PROJECT COORDINATION

Navisworks focus



COMPUTATIONAL DESIGN

Dynamo focus



TRAINING AND EDUCATION

Company, project and tutoring



BUSINESS SERVICES



BIM STRATEGY

Business and project



BIM MODEL SERVICES

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BUSINESS SERVICES

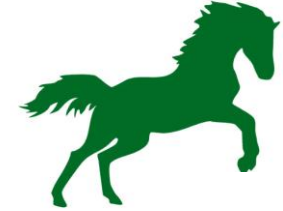


MY FOCUS

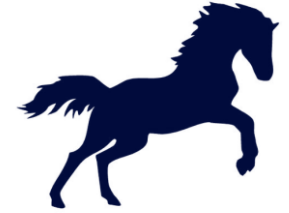
FOR THIS PRESENTATION

- Why is the I so important?
- Information challenges/problems I see
- Why is this happening?
- How are we facing the issues?

COBie

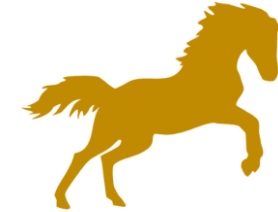


Are you here?



\$

IFC



Or here?



\$\$\$





WHY IS INFORMATION IMPORTANT?

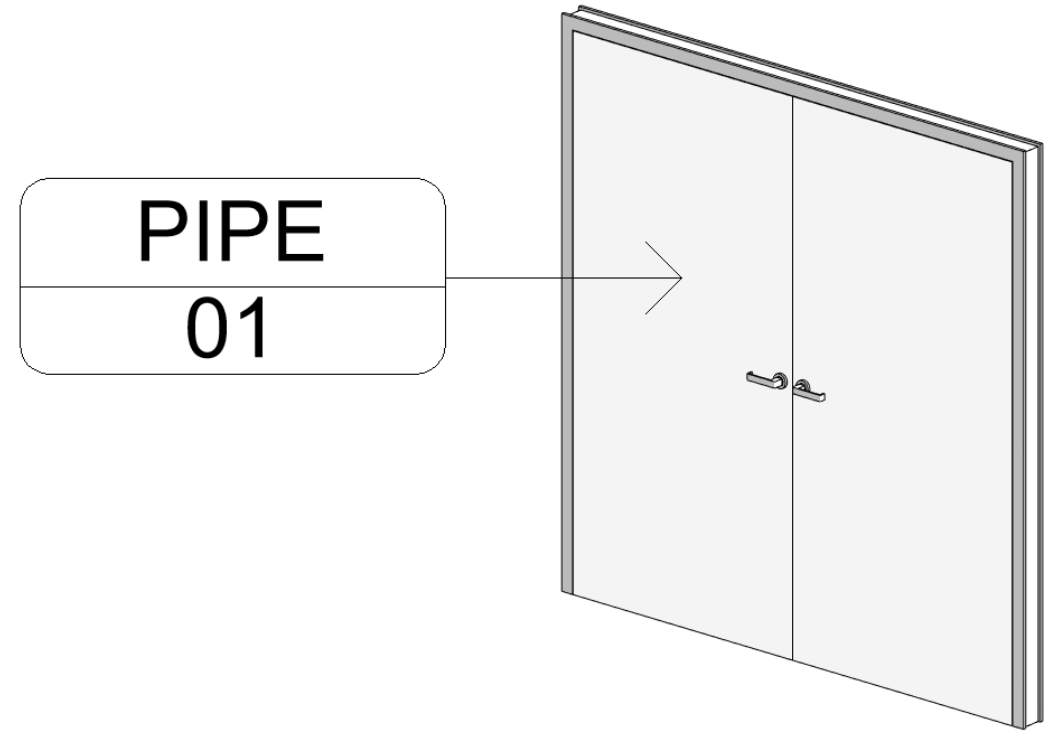
THE CRUX OF BIM

Simply put, BIM **is fully dependent** upon its information, and **so are we**.

A **model** represents information.

Communication is the relaying of information.

Process is the generation of information.



*Ceci n'est pas
une pipe*





The more we move it
The more we lose

CHANGING OF HANDS

INFORMATION LOSS/LEAK

- Team members coming/going
- Design > Construct handover
- Models exported to lossy formats
- Proprietary formats not able to convert
- BIM to paper



BIG BM, LITTLE i

CONTEXT BEHIND MY TAKE

- A model can be seen
- A building can be sold

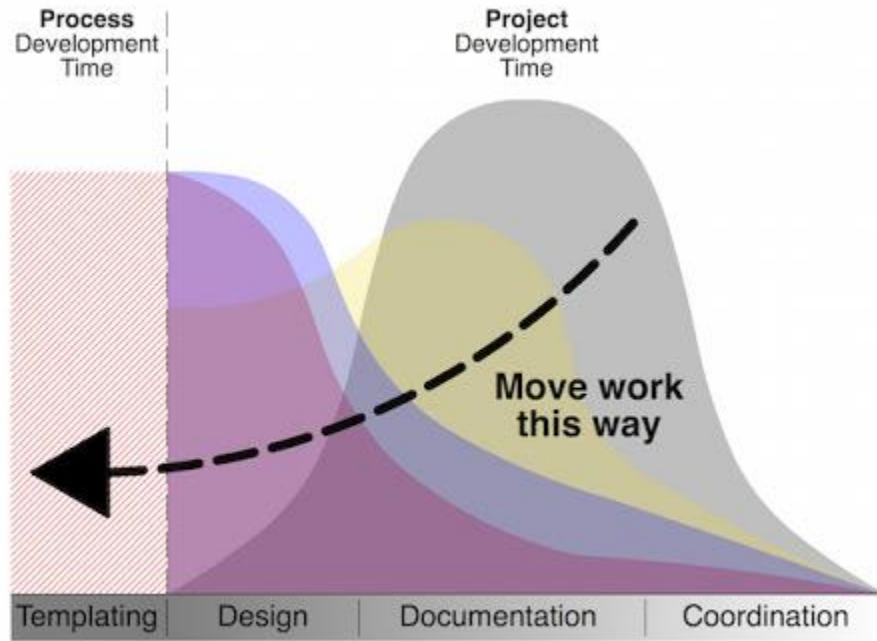
Information is much harder to communicate the importance of to clients and non-technical staff until it is a problem.

B . M

The Little I

Sometimes it can be a bit like this!





The MacLeamy Curve
Chances are we've all seen it!

FAILING TO PLAN IS PLANNING TO FAIL

DAMNED IF YOU DON'T

Most issues in Information can be traced back to:

- Low focus on templating upfront
- Lack of research
- 'We'll sort it out later' mentality
- Poor team communication

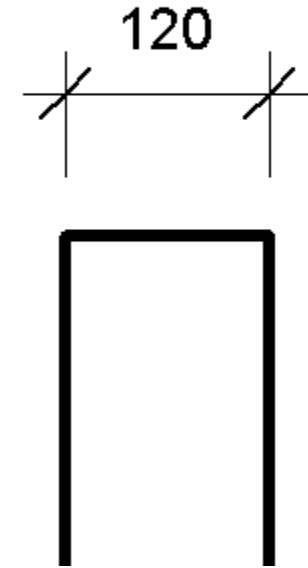
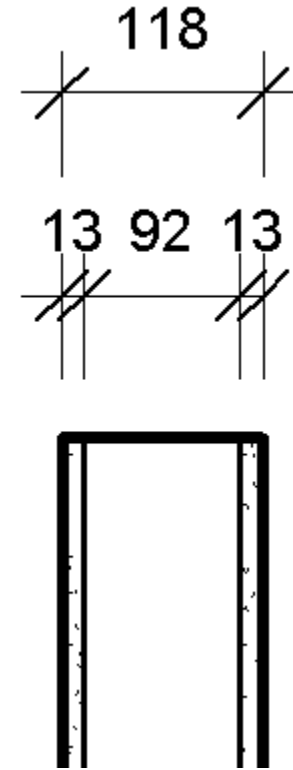


TIMING OF INFORMATION

COMPLEX ISN'T ALWAYS BAD

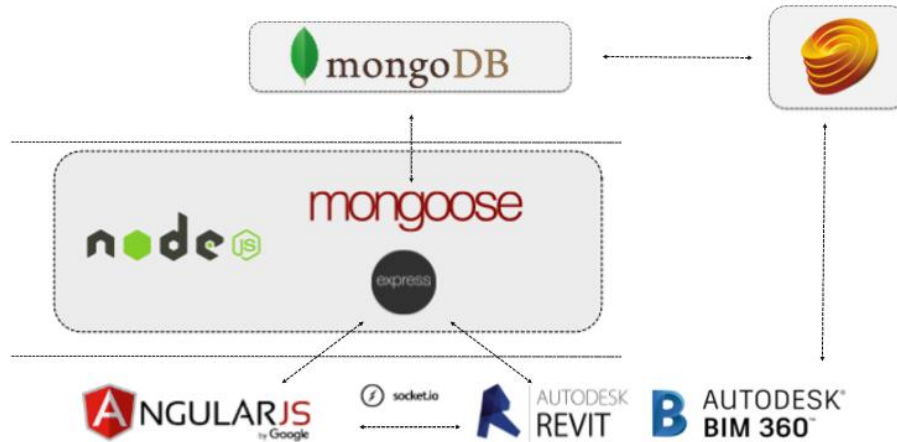
A common belief in AEC is that information should **develop over time** rather than be added too early.

A good template means we can introduce information early, and with little effort/consequence.



Generic vs detailed
Does the 2mm really matter?





HOK's AEC Mission Control
*Open source database
 integration to Revit*

MOVING DATA OUTSIDE THE MODEL

WHERE IS DATA STORED?

One emerging solution is to store data in more accessible places, such as databases.

This means that;

- Data is available to non-authors
- Structure can be controlled more easily
- Open data formats can be provided on

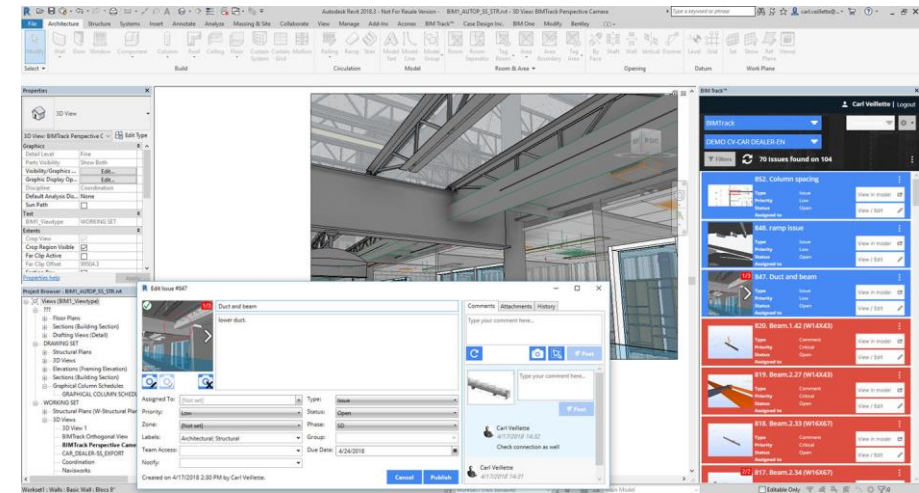
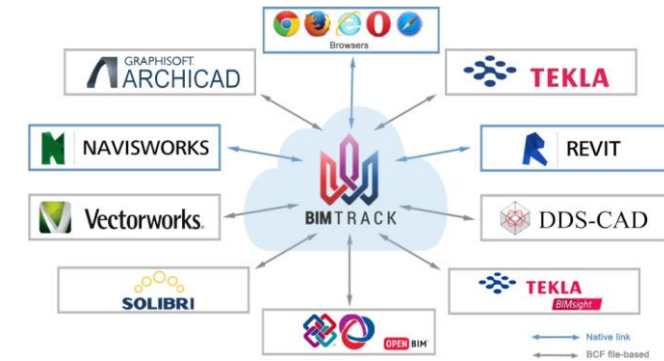


CLOUD INTEGRATION

HEAD IN THE RIGHT PLACE

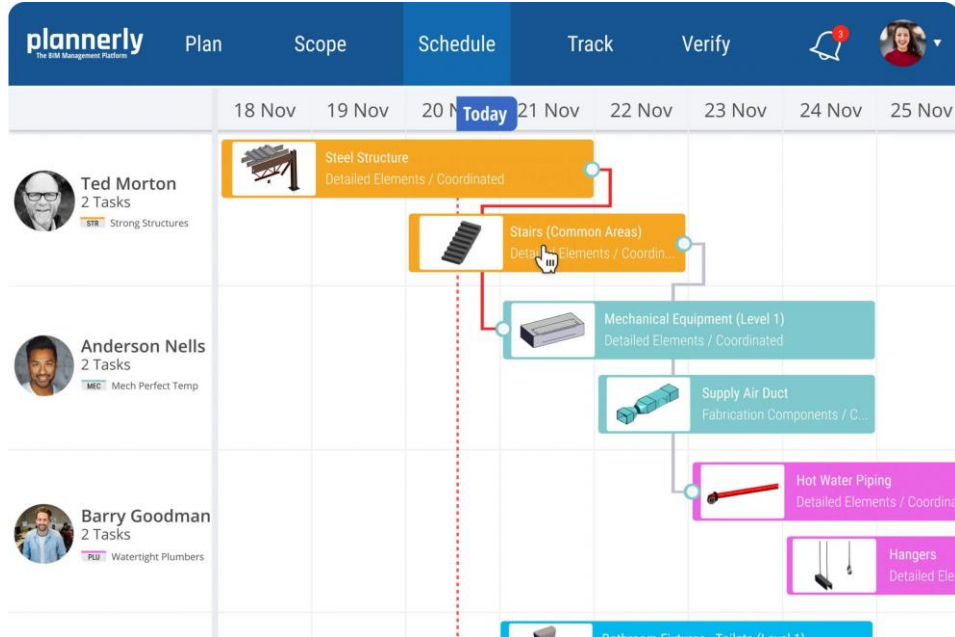
Web environments can support multiple sources of data, and feed data back to them dynamically.

This is the emerging future of how we coordinate and deliver our projects.



BIM Track
Amalgamators





Plannerly

*Planning and documenting
project needs early and
transparently*

INVITING OTHERS TO THE PARTY

DON'T BE LATE!

Often, we need input from end users early to avoid assumptions or rushed rework.

In an ideal setup;

- Client FM team has a voice
- Client FM systems are explained/tested
- Data format(s) are specified
- Handover is controlled

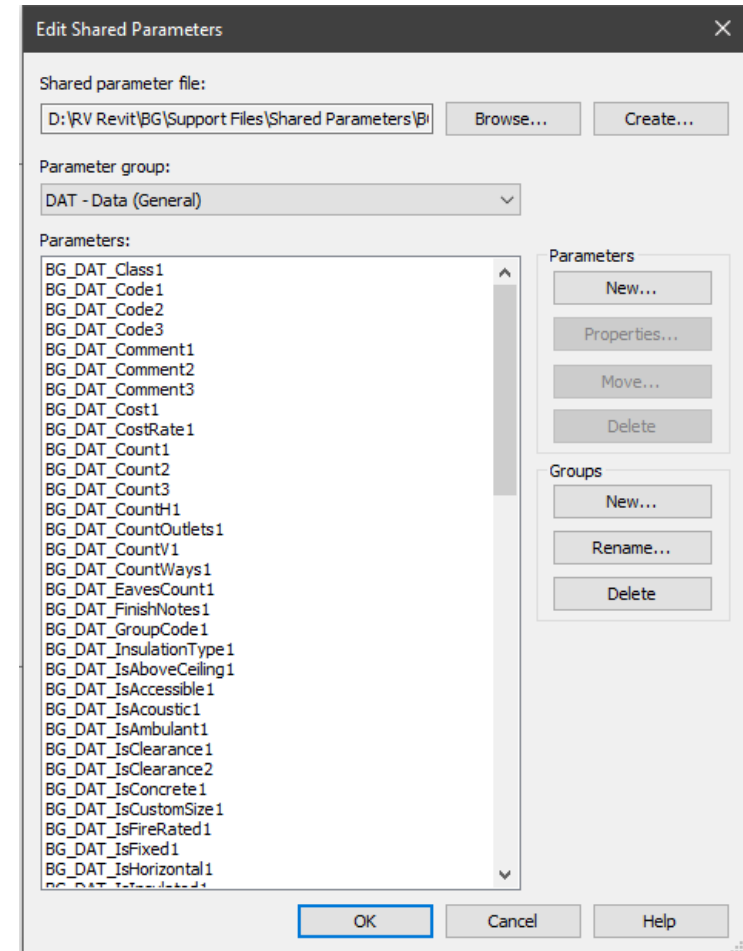


FIXING IT AT THE SOURCE

SYSTEMS IN REVIT

Information systems to manage:

- Shared parameters
- Assembly codes (e.g. UC15)
- Omniclass
- Material management
- IFC property mapping



BIM Guru Shared Parameters
Clean, consistent and simple





Uniclass 2015
(Assembly code)



Omniclass



IFC export fields



< Typical	
Switch ID	
Electrical - Loads	
Apparent Load	0VA
Circuit Number	
Panel	
Identity Data	
Assembly Code	Pr_70_70_48
Assembly Description	Luminaire, lig...
BG_DAT_Code1	X.LIF-51
BG_DAT_Comment1	Lighting Fixtur...
Code Name	
Comments	
Cost	0
Description	Lighting Fixtur...
Keynote	X.LIF-51
Manufacturer	
Mark	305
Model	
Omniclass Number	23.80.70.11.21
Omniclass Title	Emergency Lig...
Type Comments	
Type Mark	
Type Name	
Type Name	Typical
URL	
IFC Parameters	
IfcExportAs	IfcLightFixture
IfcExportType	SECURITYLIGH...
Materials and Finishes	
BG_MAT_Material1	BG_MAT_Plasti...
BG_MAT_Material2	BG_MAT_Plasti...
BG_MAT_Material3	BF_MAT_Light-...
Other	
BG_DIM_Depth1	475mm
BG_DIM_Width1	100mm
Family	Typical
Family and Type	Typical
Family Name	



BIM Information

Search

I.WSK-02_150 Aluminum Skirting (649)

‣ CHS 165x5 (2)

Supports

‣ Bracket, Type 2 (91)

‣ D40@900 (-40mm) (88)

‣ Painted, 1000 High (24)

Topography

‣ Subregion (2)

Surface

Wall Sweeps

‣ I.WSK-02_150 Aluminum Skirting (649)

‣ I.WSK-03_150 Vinyl Skirting (49)

Walls

‣ _Host 150 (9)

‣ _Host 300 (3)

‣ E.FLA-01 - 10 (2)

‣ E.FLA-01 - 10x50 Skirt (33)

‣ E.WCC-01 - 150 (25/100/25) (7)

‣ E.WMC-01 - 125 (25/100/-) (2)

‣ E.WMC-01 - 125 (25/100/-) Flashing (20)

‣ E.WMC-01 - 50 (25/25/-) (4)

‣ I.WBF-02_140 (-/140/-) F2 (28)

‣ I.WPA-02_90 (13/64/13) (6)

‣ I.WPA-04_118 (13/92/13) (141)

‣ I.WPA-12_77 (13/64/-) (69)

‣ I.WPA-12_77 (13/64/-) Sill (61)

‣ I.WPA-14_105 (13/92/-) (473)

‣ I.WPA-16_105 (26/92/-) (53)

‣ I.WPA-21_41 (13/28/-) (215)

‣ I.WPA-34_131 (26/92/13) (87)

‣ I.WPF-44_156 (32/92/32) F2 (19)

‣ I.WSP-01_78 (-/78/-) F2 (10)

‣ I.WTL-01_10 (-/10/-) 300x300 (151)

‣ S.HOB_100 (-/100/-) (17)

‣ S.WIC_150 (-/150/-) (13)

‣ S.WIC_225 (-/225/-) (2)

‣ S.WIC_300 (-/300/-) (43)

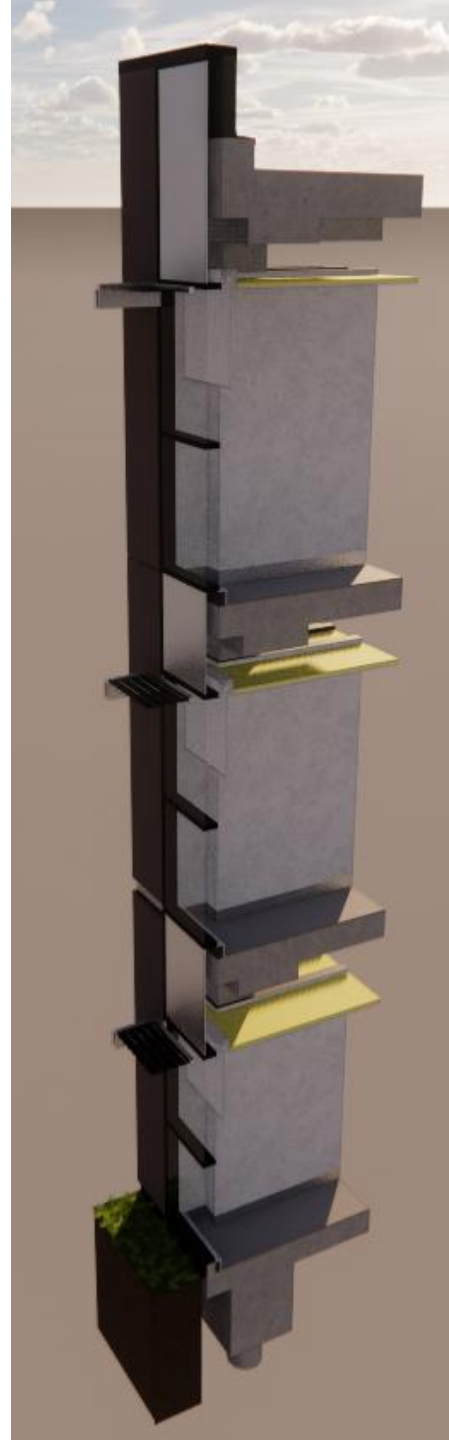
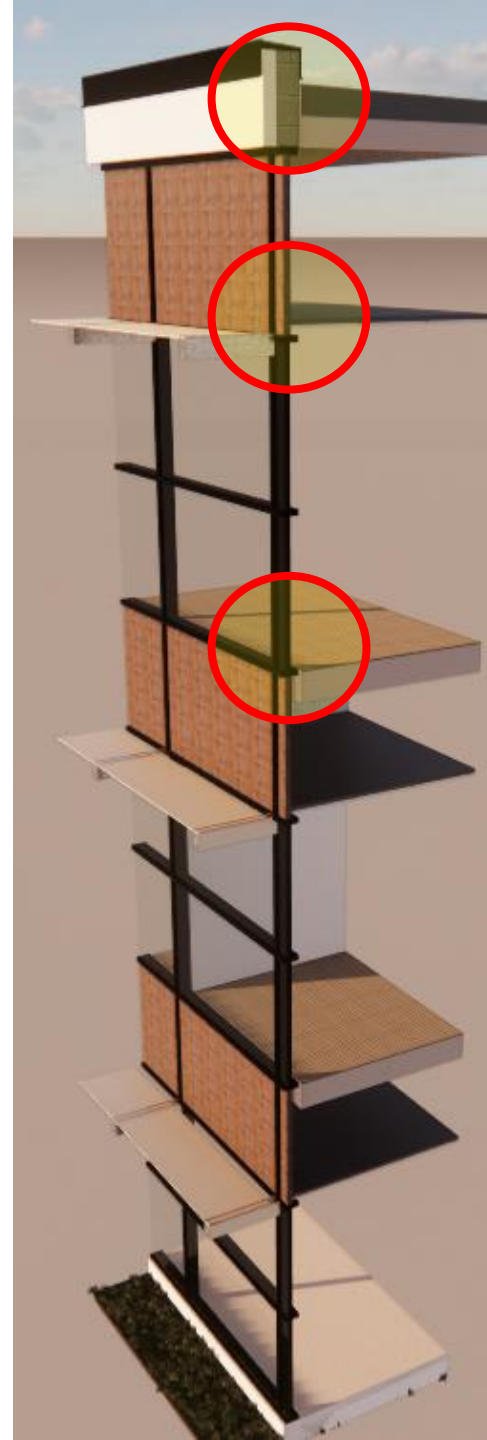


MODELLING IT WELL

MODEL ONCE, DRAW NEVER

The more detail we can put into our models from a geometry and information perspective, the more likely our data will be captured.

Additionally, the model becomes a better educational tool.




FINAL THOUGHTS

FOR THIS PRESENTATION

- Plan early
- Develop systems upfront
- Communicate with your team
- Strive for consistency
- Involve all parties



 **GAVIN CRUMP** +02 8188 1674**TODAY'S HIGHLIGHTS**

Brief Introduction
Financial Struggles
Insights on Saving Money
Spending Habits of Millennials
Practical Steps to Regularly
Saving Money
Planning for Retirement
Final Words

02

**Discussion
Outline**

Financial Preparation for Millennials | EWCC

THANK YOU

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