

Location Plan



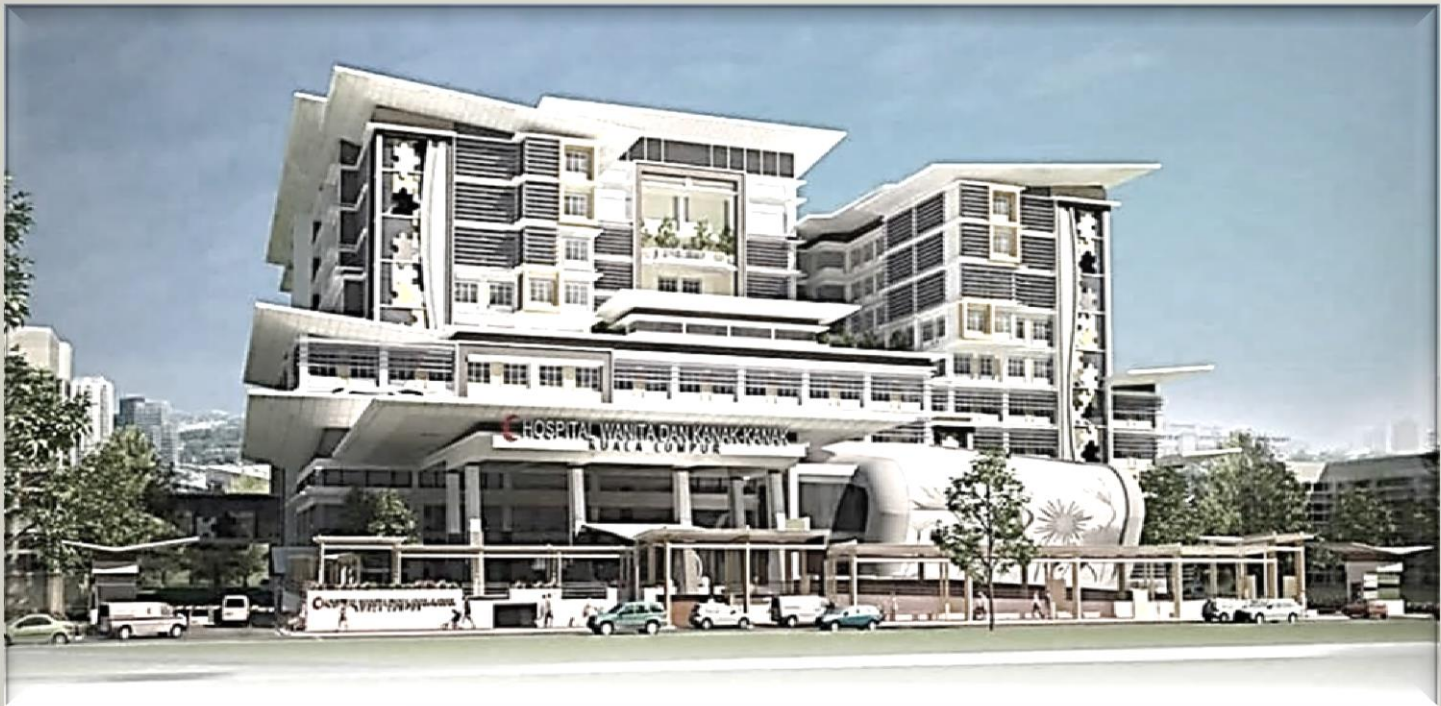
THE DESIGN , CONSTRUCTION, COMPLETION, TESTING AND COMMISSIONING OF WOMEN AND CHILDREN HOSPITAL, KUALA LUMPUR
UEM BUILDERS – NAJCOM JV

Actual Construction Image



THE DESIGN , CONSTRUCTION, COMPLETION, TESTING AND COMMISSIONING OF WOMEN AND
CHILDREN HOSPITAL, KUALA LUMPUR
UEM BUILDERS – NAIJCOM JV

Building Information Modeling (BIM)



THE DESIGN , CONSTRUCTION, COMPLETION, TESTING AND COMMISSIONING OF WOMEN AND CHILDREN HOSPITAL, KUALA LUMPUR
UEM BUILDERS – NAJCOM JV

BIM Uses in WACH project

Arch., Struc. &
MEP
Vizualization

Materials
Take-Off

Clashes
Discovery

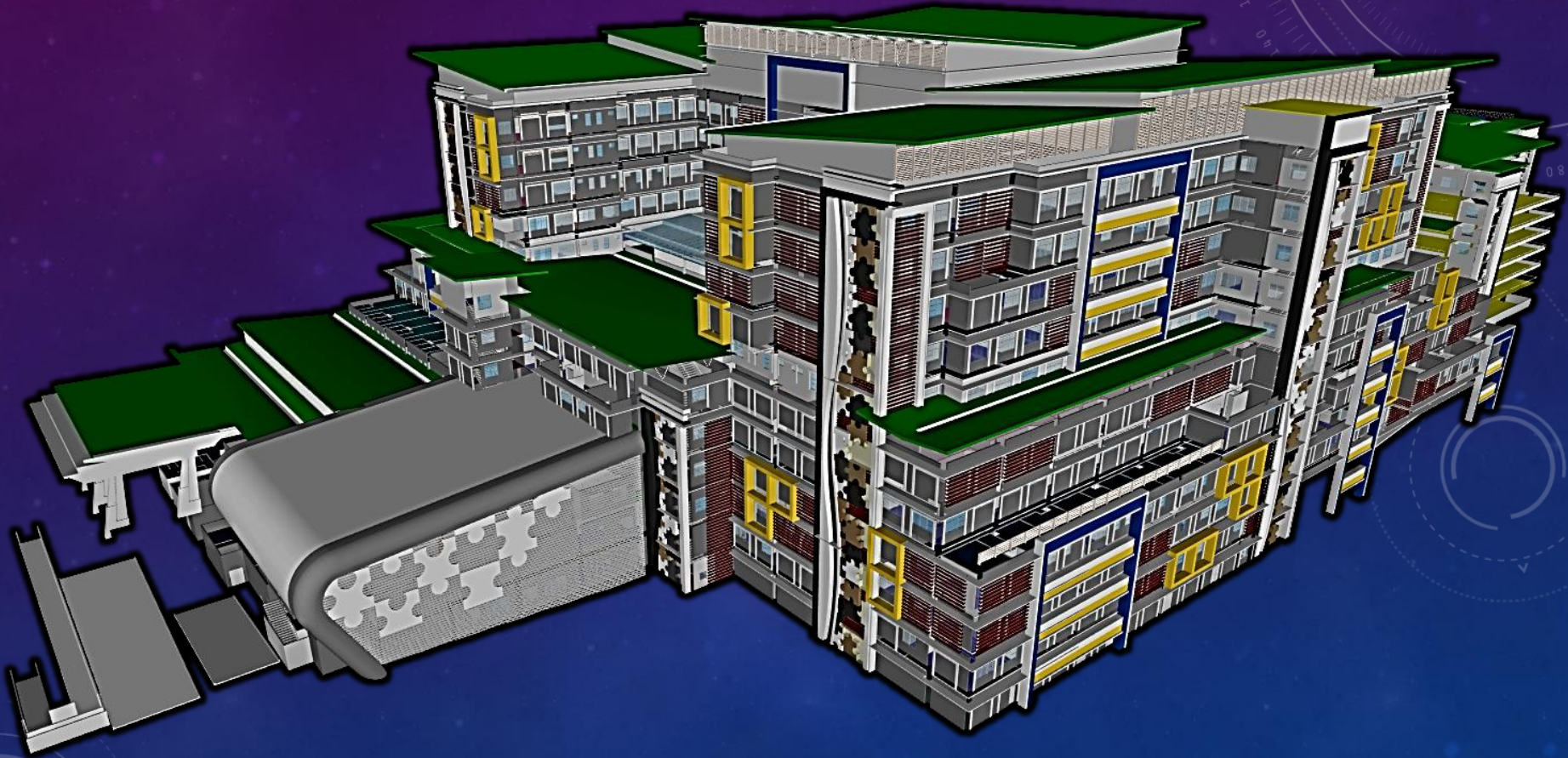
Construction
Simulation

Arch., Struc. & MEP
Vizualization

Materials Take-Off

Clashes Discovery

Construction Simulation

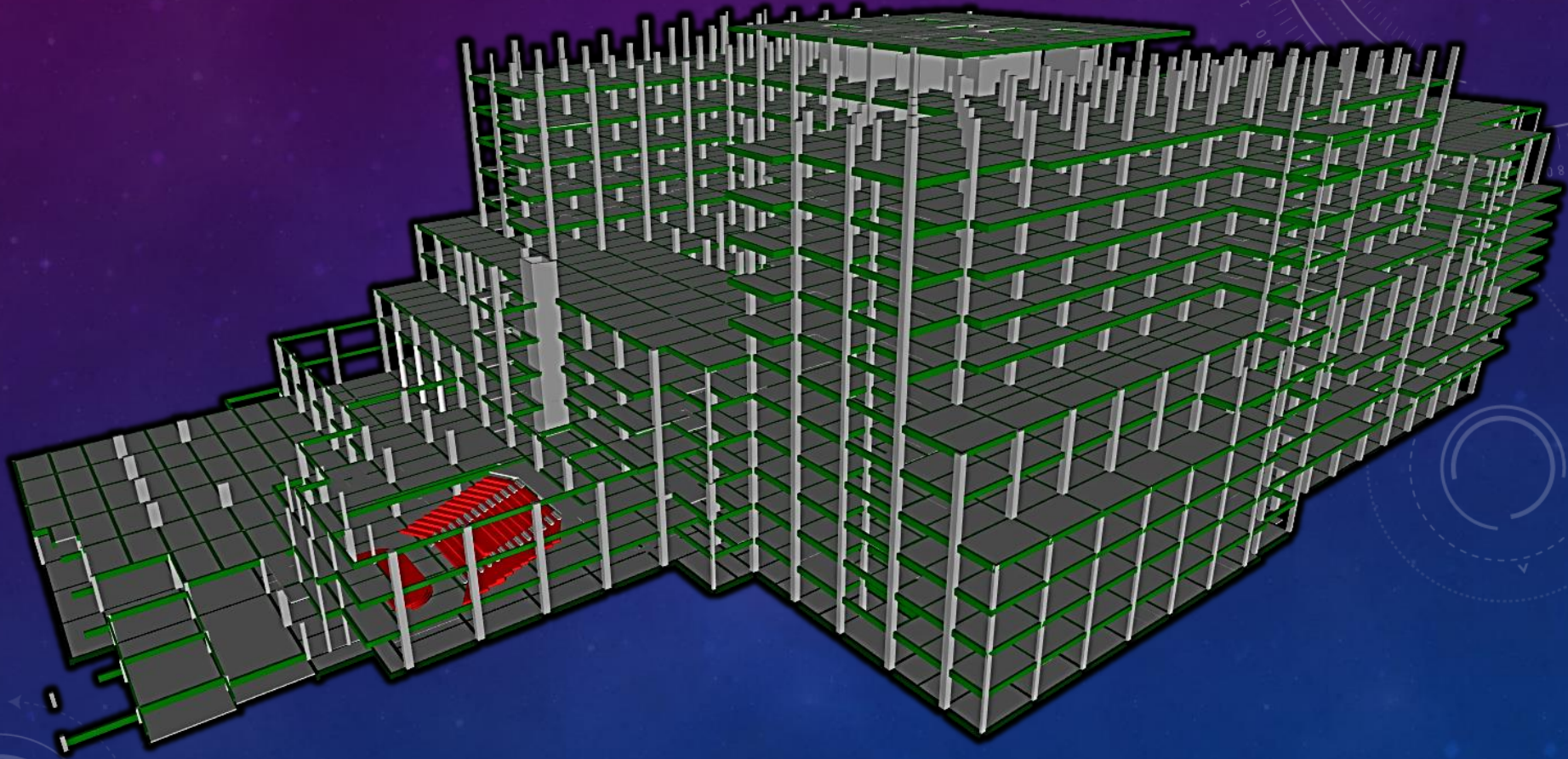


Arch., Struc. & MEP
Visualization

Materials Take-Off

Clashes Discovery

Construction Simulation

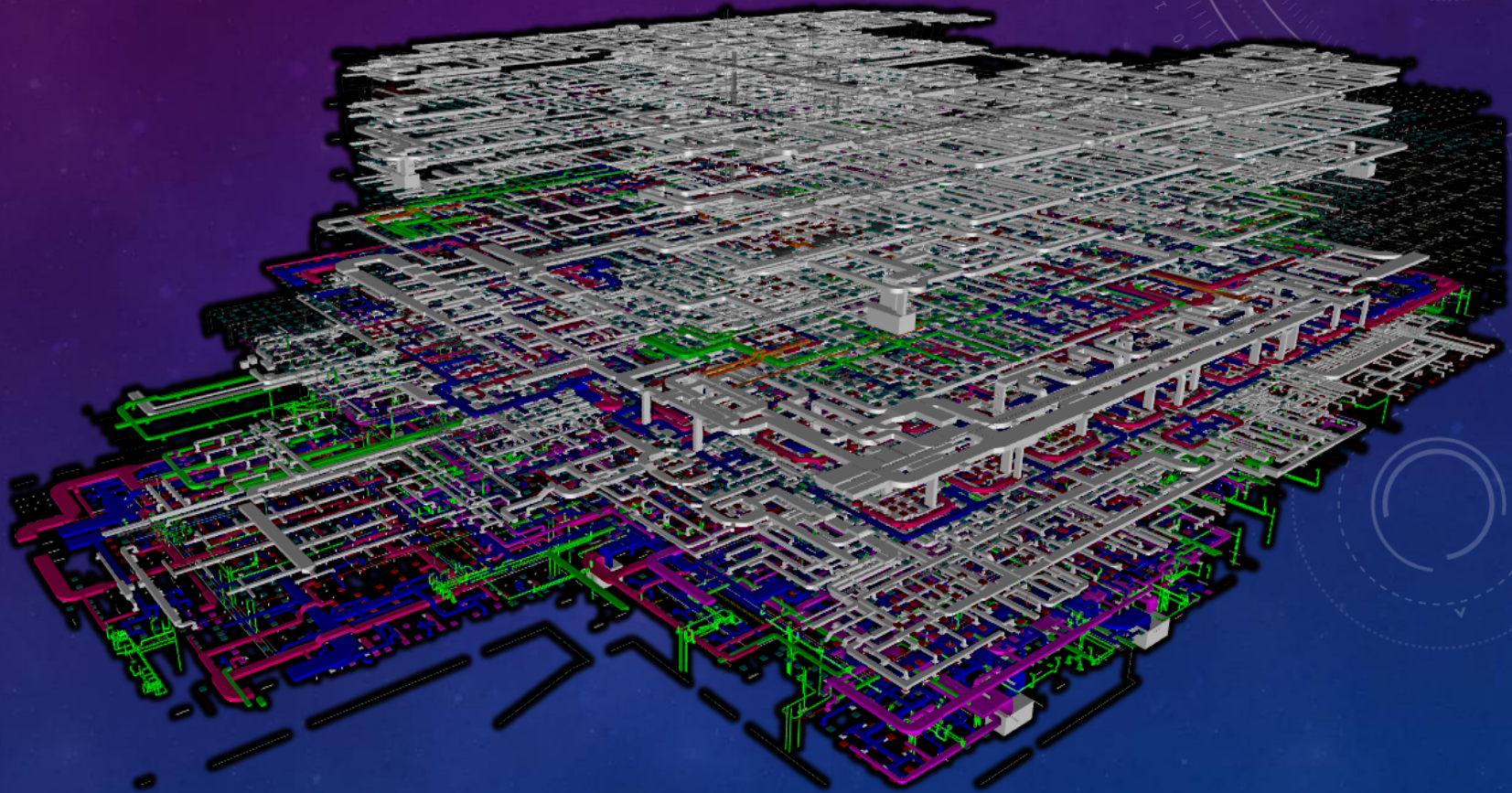


Arch., Struc. & MEP
Visualization

Materials Take-Off

Clashes Discovery

Construction Simulation



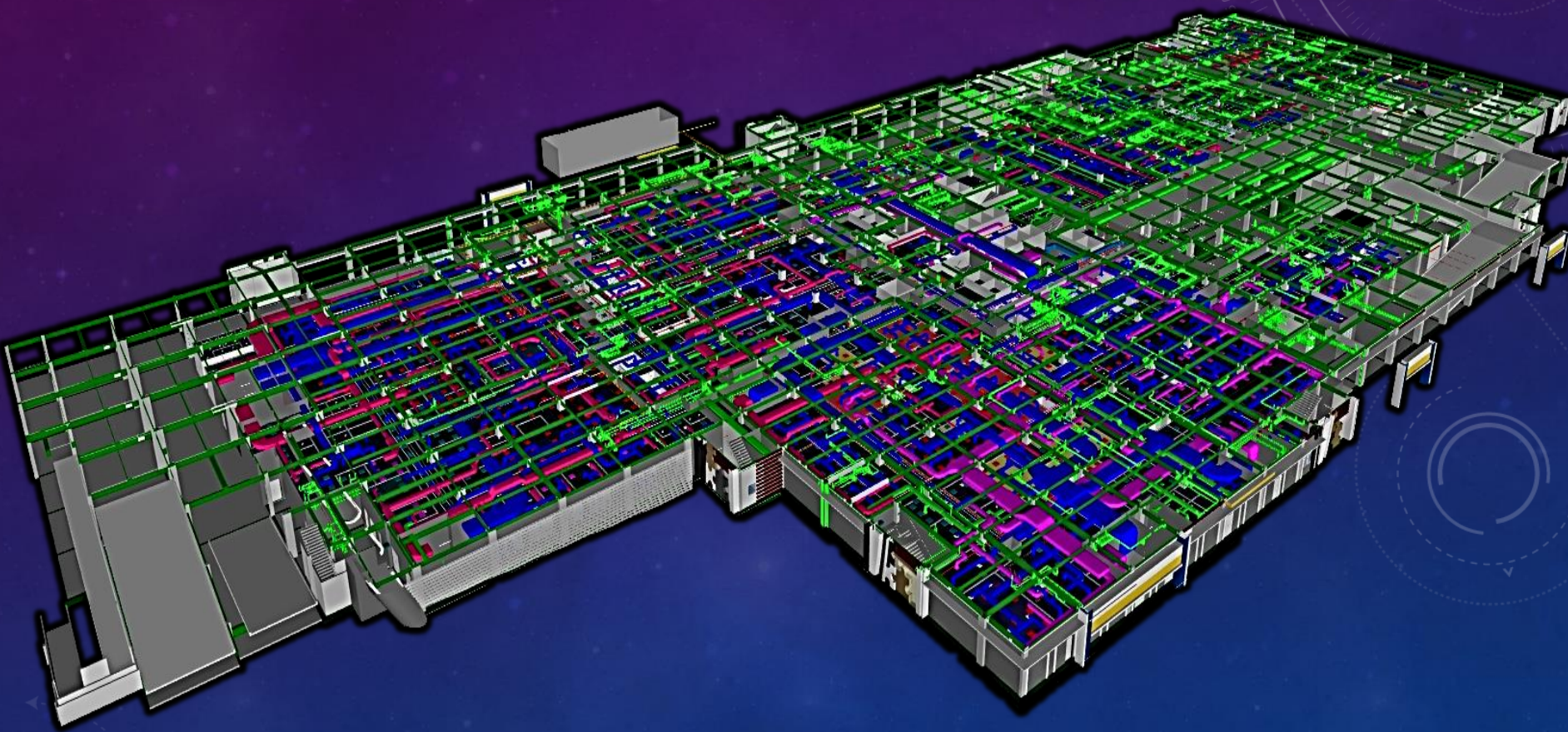
Mechanical, Electrical and Plumbing (MEP)

Arch., Struc. & MEP
Visualization

Materials Take-Off

Clashes Discovery

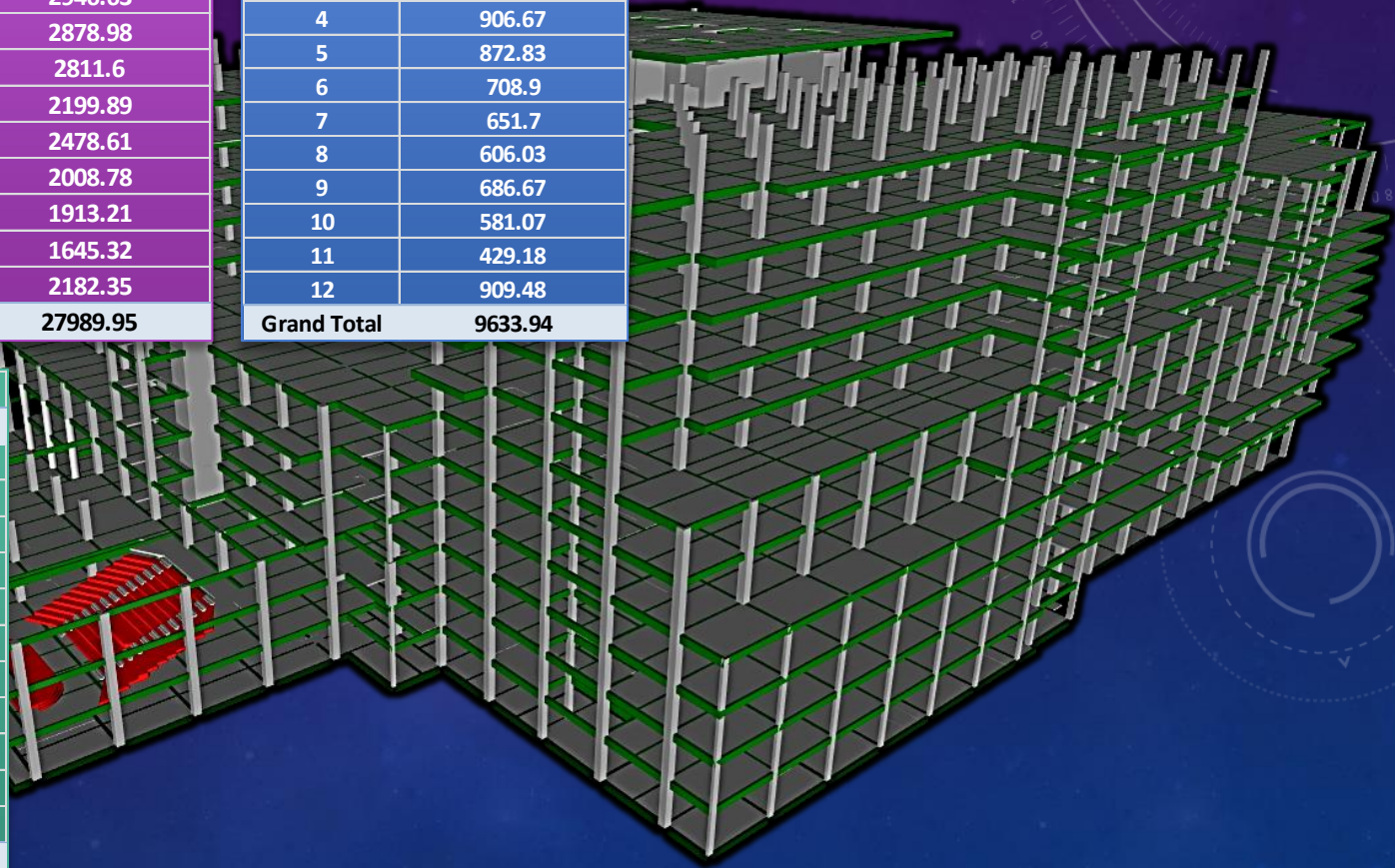
Construction Simulation



Concrete Floor		
Level	Area (m ²)	Volume (m ³)
1	21740	3627.73
2	18869	3296.85
3	17793	2946.63
4	17417	2878.98
5	17094	2811.6
6	13444	2199.89
7	14952	2478.61
9	12962	2008.78
10	11724	1913.21
11	9549	1645.32
12	14095	2182.35
Grand Total	169639	27989.95

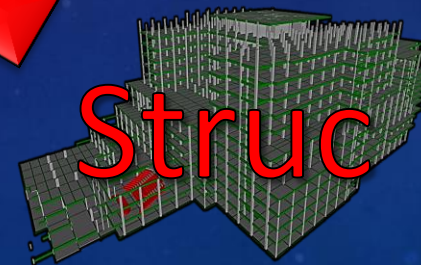
Concrete Column	
Level	Volume (m ³)
1	1143.68
2	1086.33
3	1051.4
4	906.67
5	872.83
6	708.9
7	651.7
8	606.03
9	686.67
10	581.07
11	429.18
12	909.48
Grand Total	9633.94

Concrete Beam	
Level	Volume (m ³)
1	1463.1
2	1578.97
3	1463.21
4	1420.15
5	1341.56
6	1088.98
7	1235.9
9	975.64
10	995.86
11	827.09
12	1324.42
Grand Total	13714.88





Level	Conflicts	Allowable	Total
L1	310	0	310
L2	1815	949	2764
L3	1764	1201	2965
L4	2857	2	2859
L5	3229	807	4036
L6	2773	642	3415
L7	1709	883	2592
L8	1478	863	2341
L9	1656	801	2457
L10	1521	571	2092
L11	1375	743	2118
L12	1520	27	1547
Roof	46	0	46

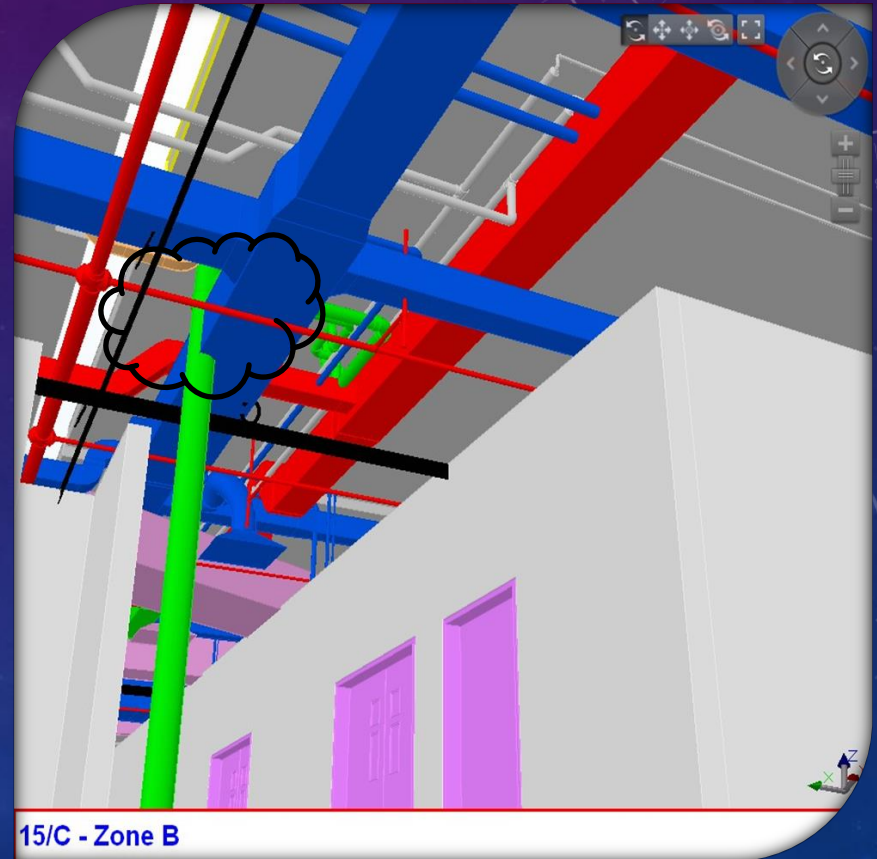


Clashes

Actual



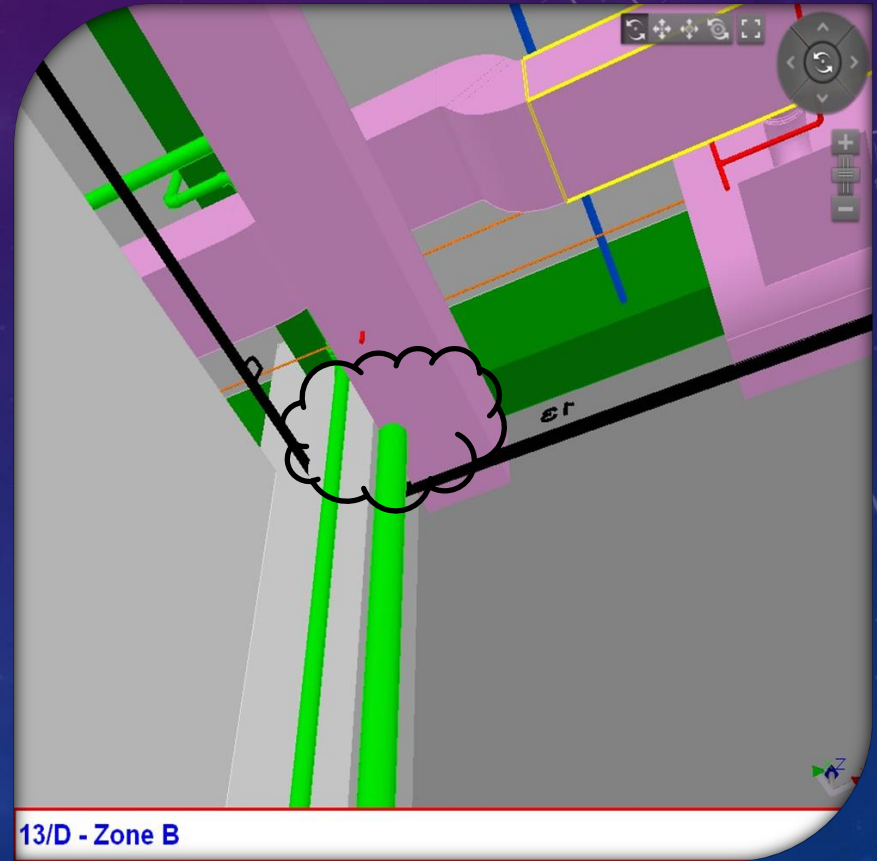
Model



Actual



Model

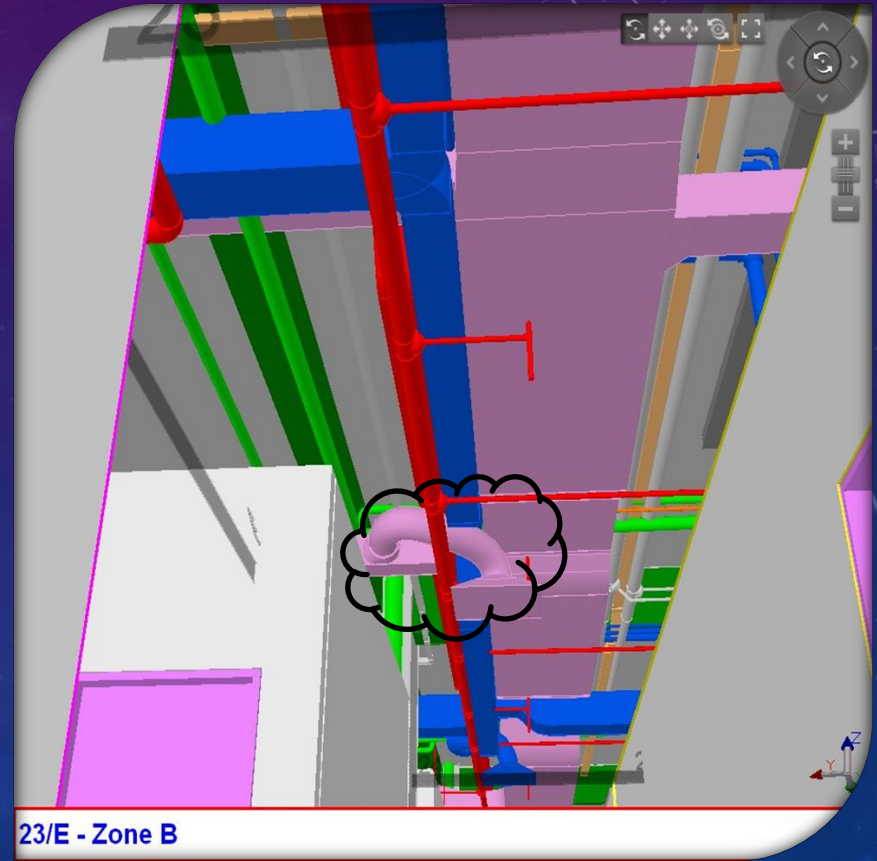


Clashes

Actual



Model



Clashes

Arch., Struc. & MEP
Vizualization

Materials Take-Off

Clashes Discovery

Construction Simulation



BIM Challenge in WACH project

Misconception of
BIM

Consultant/Engineer
Hesitate to
Implement BIM

Application of BIM
will Affect the
Current Process
Practice

Software Related
Matters (i.e.: Ease of
Use)

Lack of Data of ROI
(Return on
Investment) of BIM

Lack of Working
Procedures and
Standards

Lack of Experienced
Resource Staffing

Misconception of BIM

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BIM is all about the software

BIM is for Architectural Visualization only

BIM is similar to 3D model in animation movie

BIM begins after physical works commenced

BIM will replace Quantity Surveyors

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BIM will Affect the Current Process Practice

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Lack of Experienced Resource Staffing

Not One Stop Software

Lack of Training at Work

High-End PC is Mandatory

Interoperability Issues with Small 3D Software Maker

Steep Learning Curve

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Lack of Data of ROI

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Lack of Working Procedures and Standards

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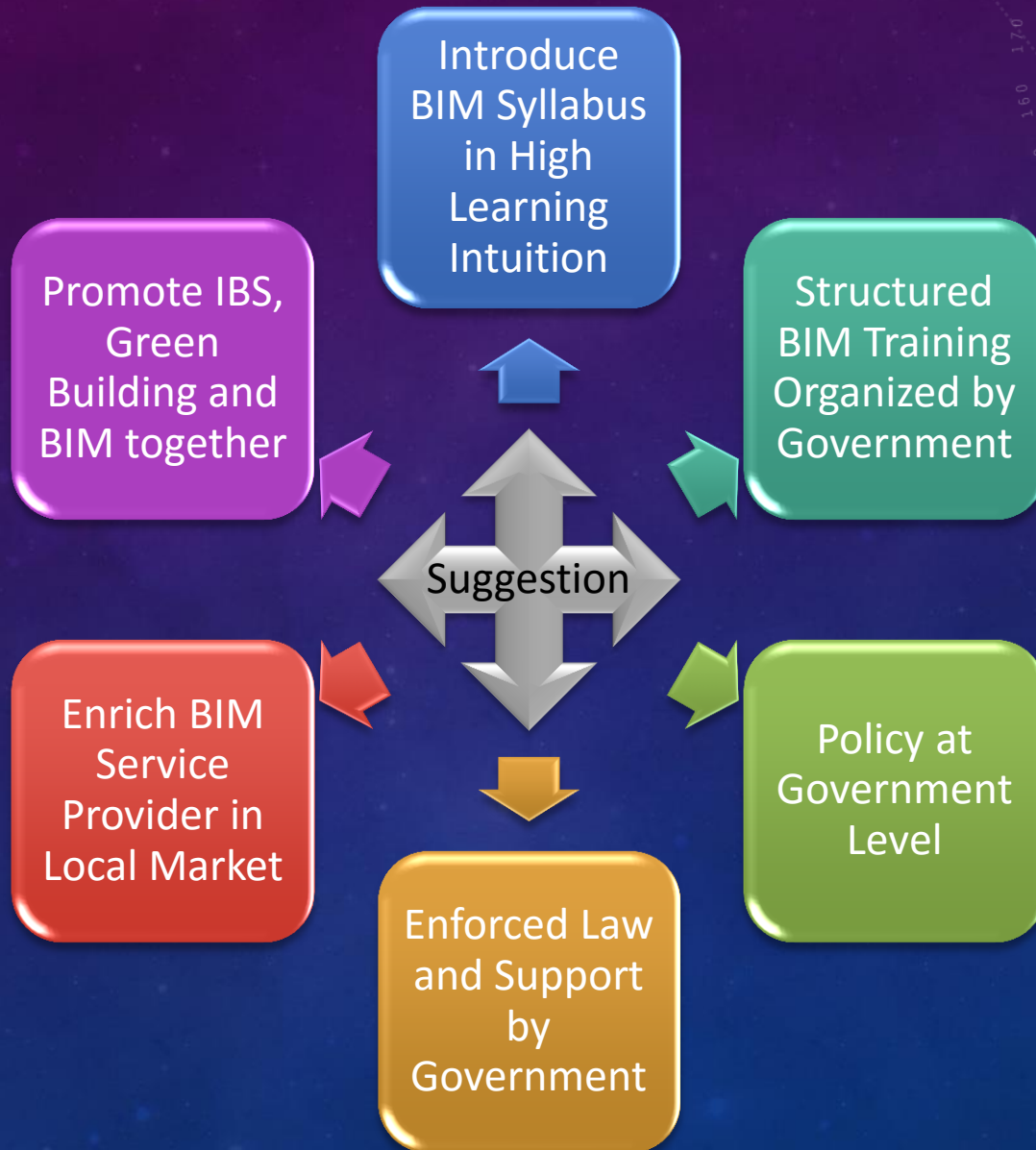
Lack of Working Procedures and Standards

Lack of Experienced Resource Staffing



Lack of Experienced Resource Staffing

Moving Forward



спасибо
danke 謝謝
ngiyabonga
teşekkür ederim
dank je
gracias
tapadh leat
mochchakkeram
go raibh maith agat
merci
ευχαριστώ
arigato
takk
dakujem
merci
terima kasih
sukriya
kop khun krap
grazie
sagolun
dziękuję
hvala
maunuru
bedankt
obrigado