

BIM Capability



Nguyễn Quốc Trung









EXPERIENCE BEYOND.

EXPERIENCE BEYOND is our quest to go beyond aesthetics and functionality, into the realm of cognition. It is about how design sparks creativity and innovation.

Ultimately, it is having the continuous foresight to create better tomorrows.







Excel in

INNOVATIVE BIM

for design and beyond

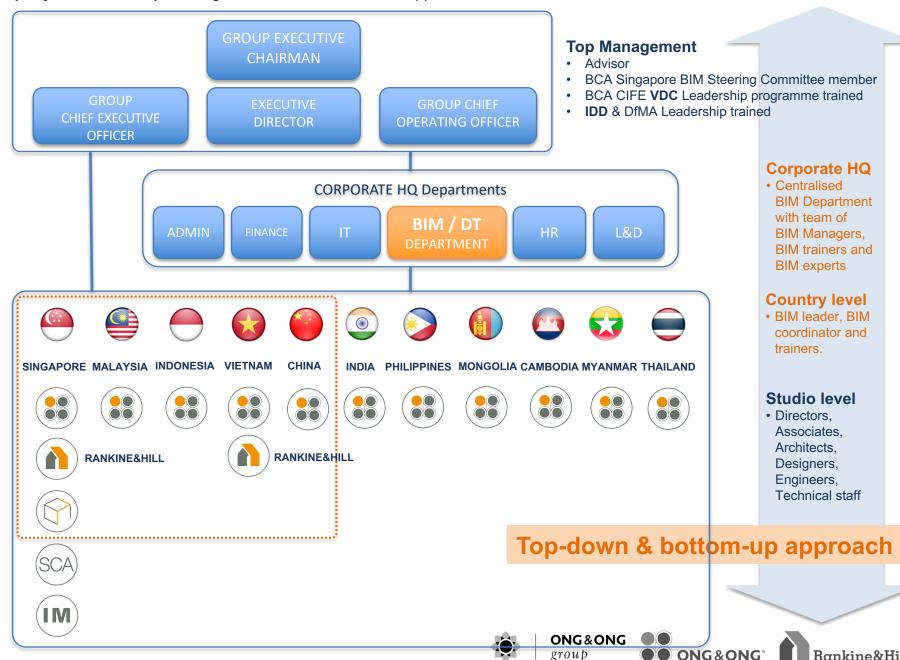
BIM is the core of multidisciplinary collaboration to deliver fully coordinated information rich sustainable design







Company BIM Roadmap/ Management Commitment and Support



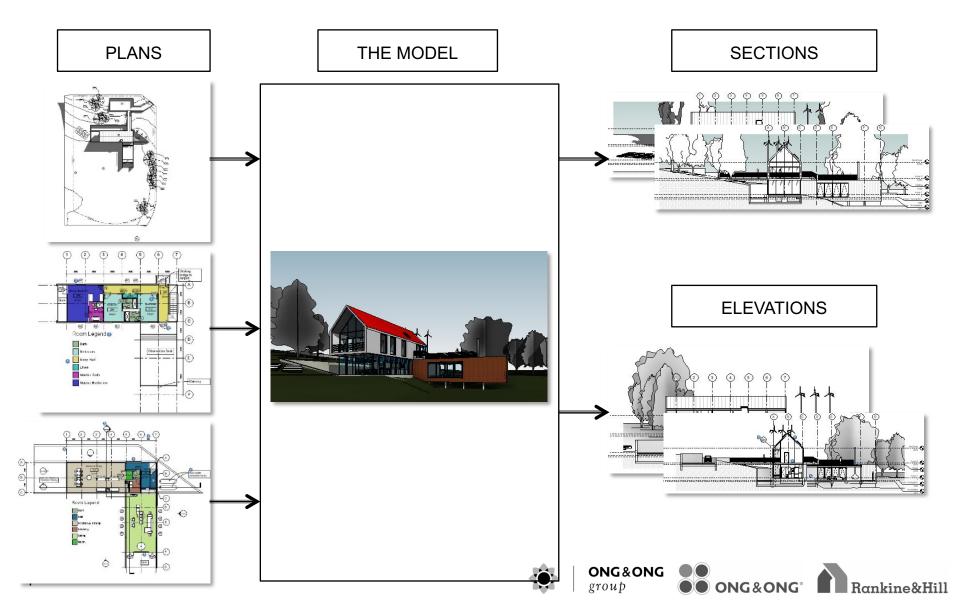
WHAT IS BIM?



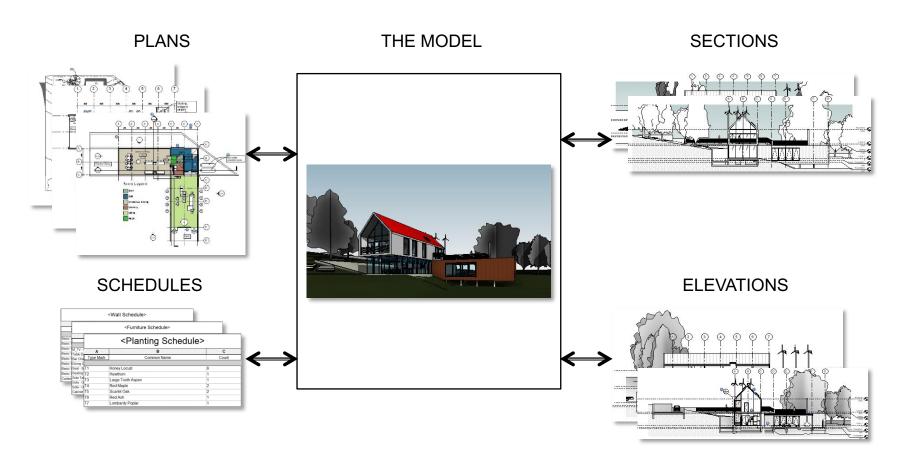




Traditional design process



BIM design process





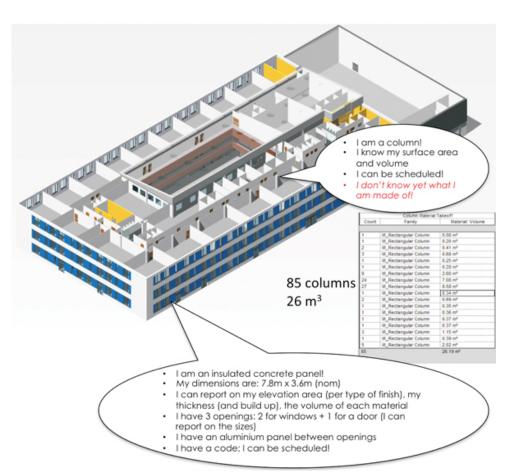




Building Information Modeling

GRAPHIC INFORMATION

NON-GRAPHIC INFORMATION

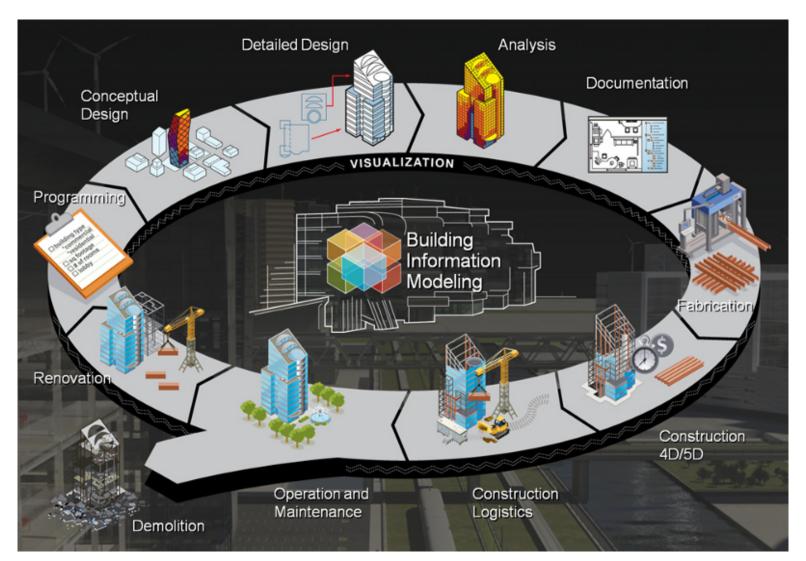








Building Life Circle





group





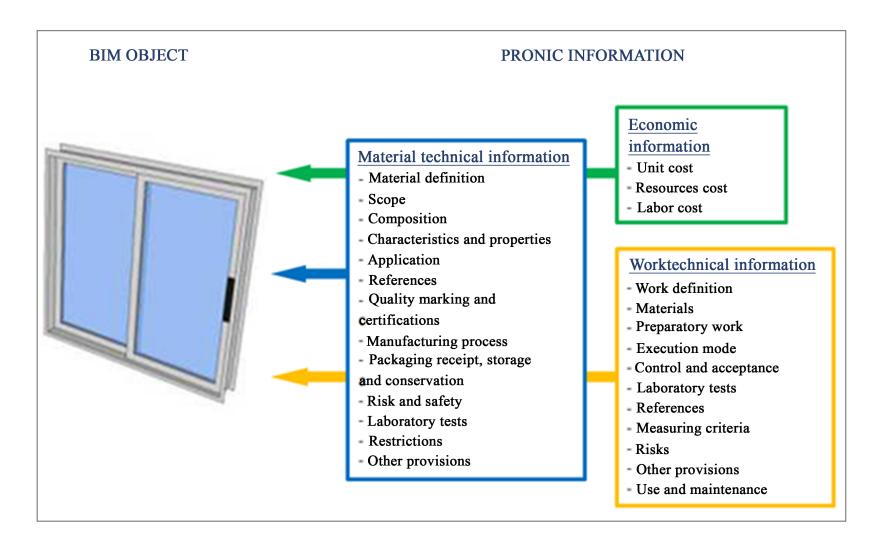
BIM BENEFIT







Model Information

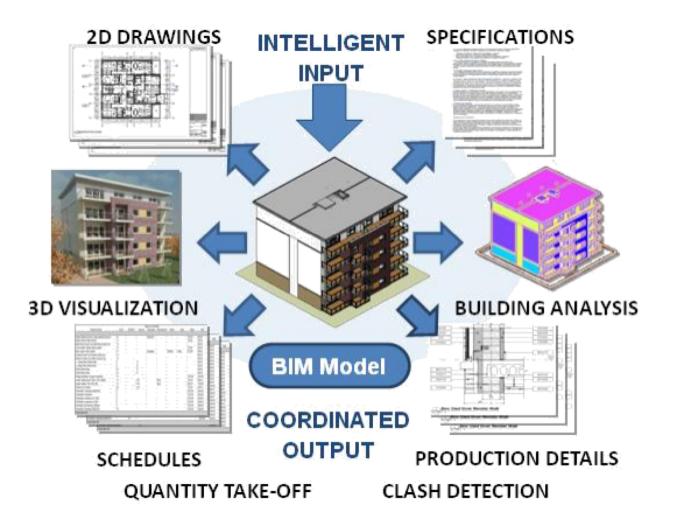








Output Information

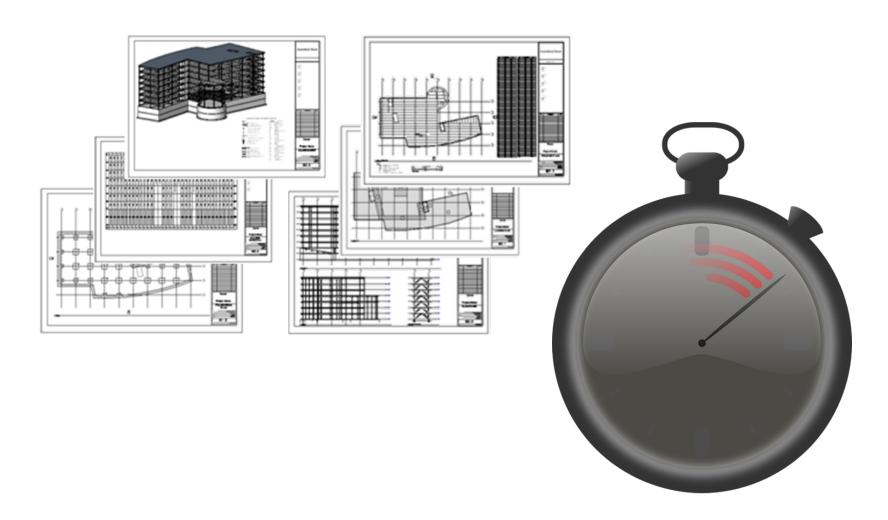








Time-saving











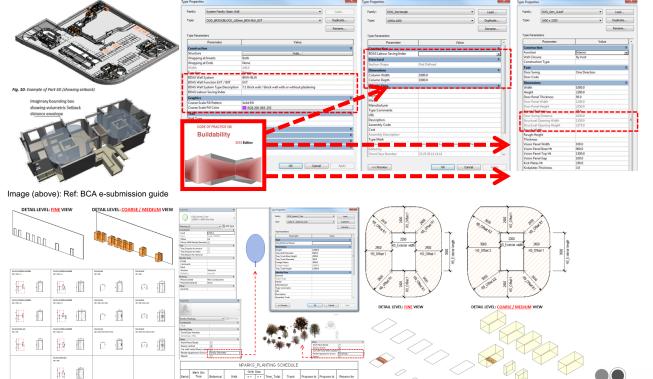






ONG&ONG template integration with BIM Code of Practice - Singapore













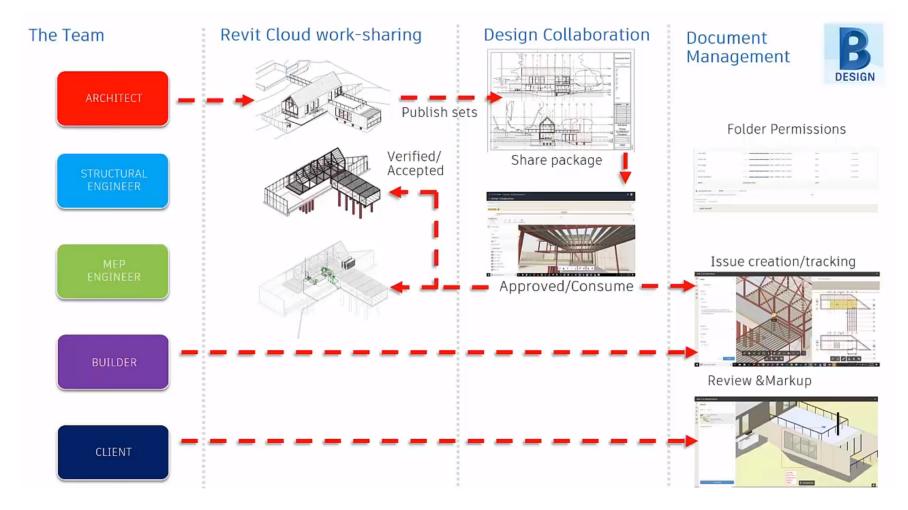








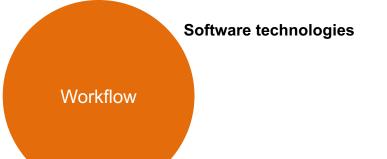
WORK-FLOW





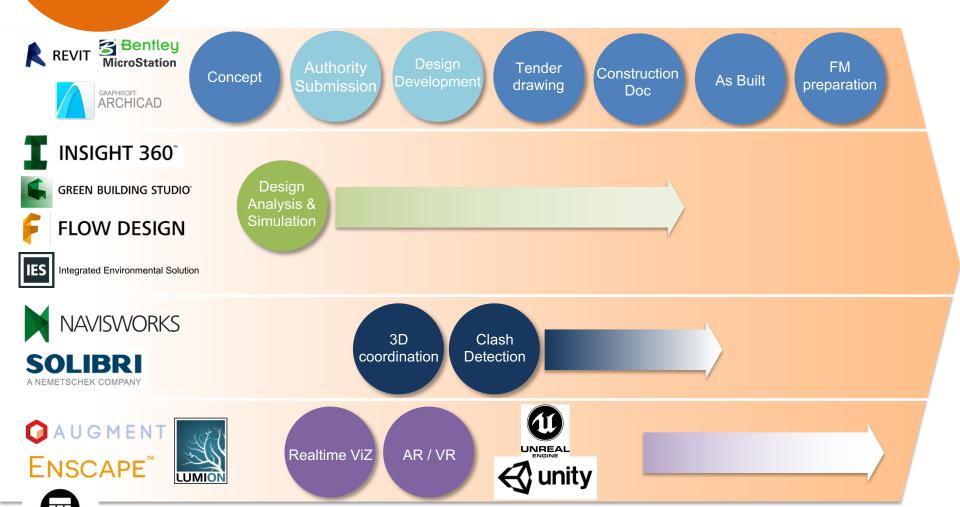






Twinmotion[®]

Seamless interoperability



ONG&ONG

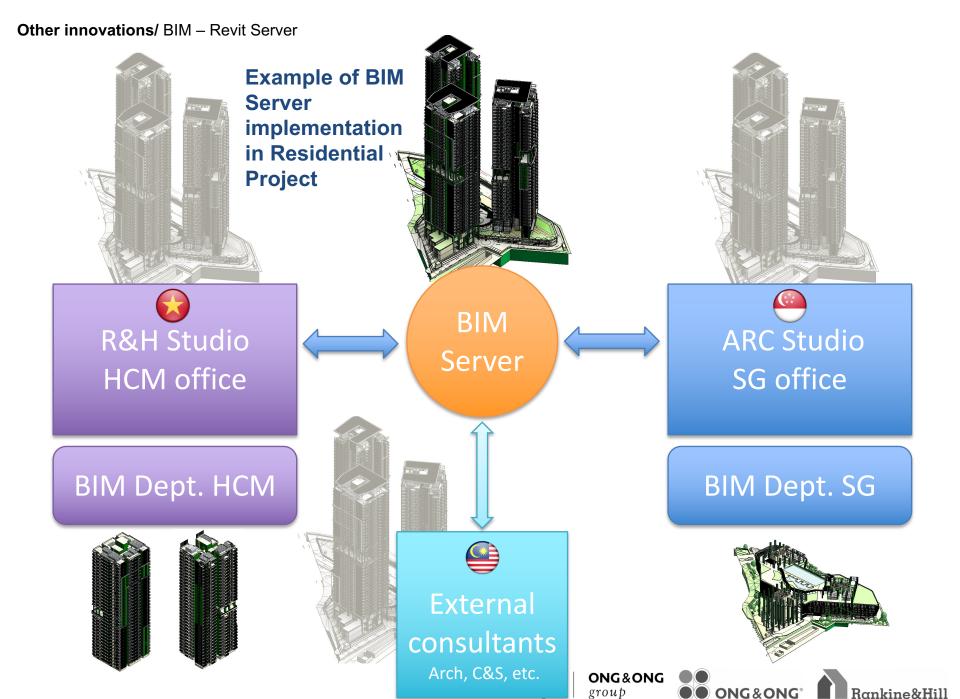
group





















Information Management

BIM management

BIM Manager role Information exchange management between stakeholders Model review, clash detection and report



Project Set Up on A360 with all project member invited. Events such as meeting were also schedule and announce to all here.



C&S & M&E combined service model review



ARCH model review



ARCH, C&S & M&E combined services model review

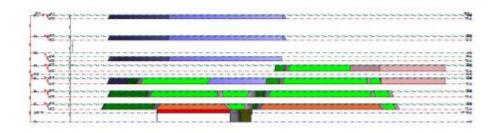


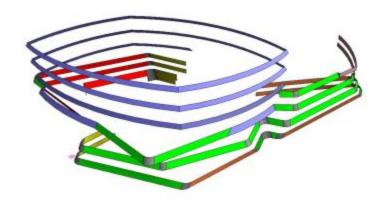
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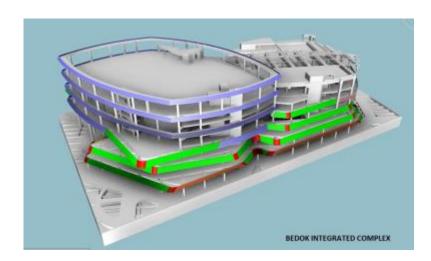


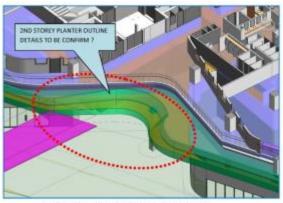


Massing & Coordinating Walls with varying angles and curves

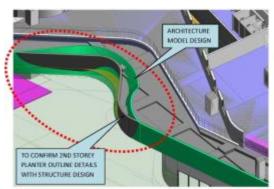








ST07 - 157 ~ 210 STOREY ARCHI REVIT 3D VIEW



- 21/0 STOREY ARCHI AND STRUCTURE COMBINE 3D VIEW





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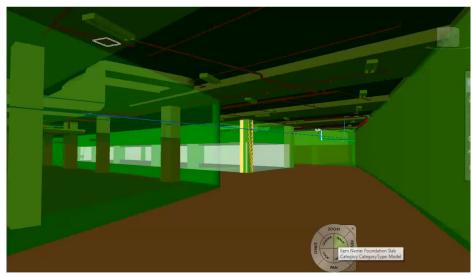




Model Checking for Truck Turning Headspace Clearance



Massing created to represent spatial requirements



Multiple rounds of Review and Report for Action





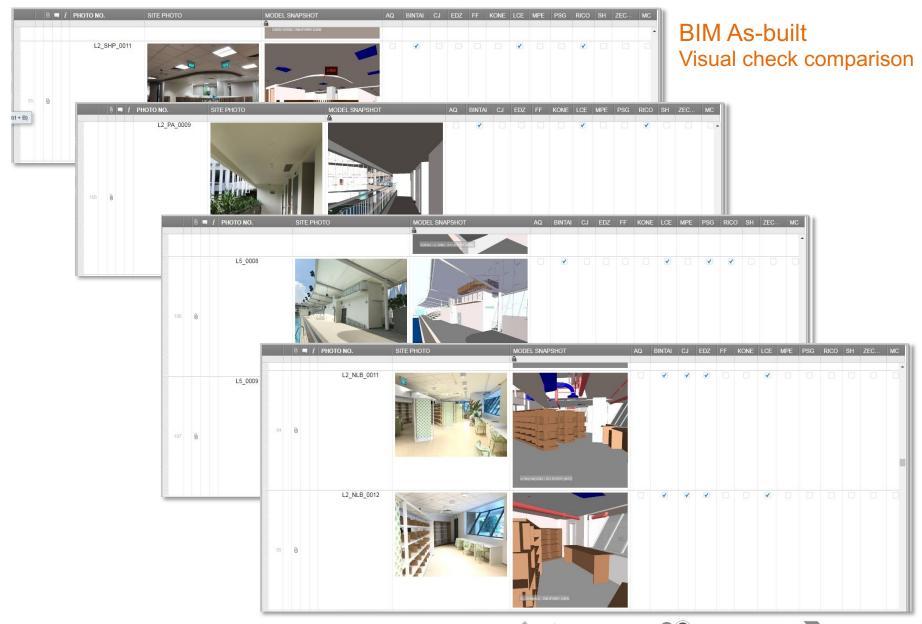








BIM As-built





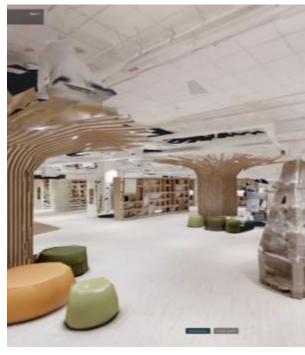






Scan to BIM – as built model verification with point cloud























Augmented Reality (AR)

Visualise design using interactive AR <u>directly from BIM model</u>







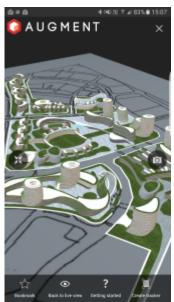






















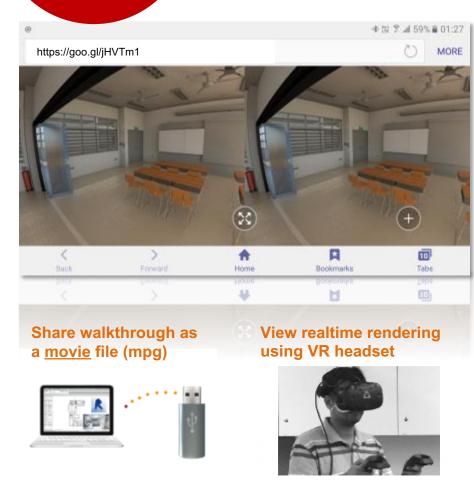


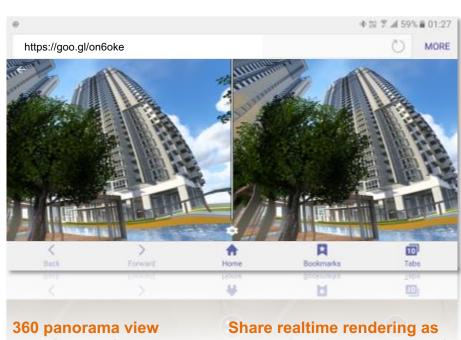




Realtime Rendering – Visualisation & Virtual Reality (VR)

Using gaming engine technology for fast and immersive visualisation





with Google Cardboard



an .exe file (no Revit needed)





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Design exploration in 360 panorama with Google cardboard



http://panaroma.enscape3d.com/elew/dacxw5ih/

















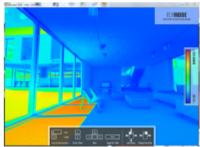
Full colour rendering



Sketch paper mode



White polystyrol mode



Light view









Design exploration with VR headset



Share walkthrough as a movie file (mpg)



View realtime rendering using VR headset



360 panorama view with Google Cardboard



Share realtime rendering as an .exe file (no Revit needed)





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Thank You!

BIM@group.ong-ong.com

