# BIM in Construction





# BIM Journey Started in New World

6 Oct 2016





### **Knowledge Portal**

#### KNOWLEDGE PORTAL

Visualisation

Multi-source of Information

Diversification

Specialisation

Designers Consultants Suppliers **Fabricators** Operators

Consolidation

Coordination

Collaboration

Project Managers Designers Consultants **NWCON** 

Top Mgt VOC Project Managers Designers Consultants **NWCON** 

Comment

Approval

Endorsement

Top Mgt

VOC

Construction Information

> NWCON Procurement Subletting Sub-con

**STAKEHOLDERS ENGAGEMENT** 



NWCON BIM

### **BIM Applications**

Virtual Visual Mock-Up 虛擬樣板房

Information Hub 信息樞紐

Drawing Coordination 圖紙協調(夾圖)

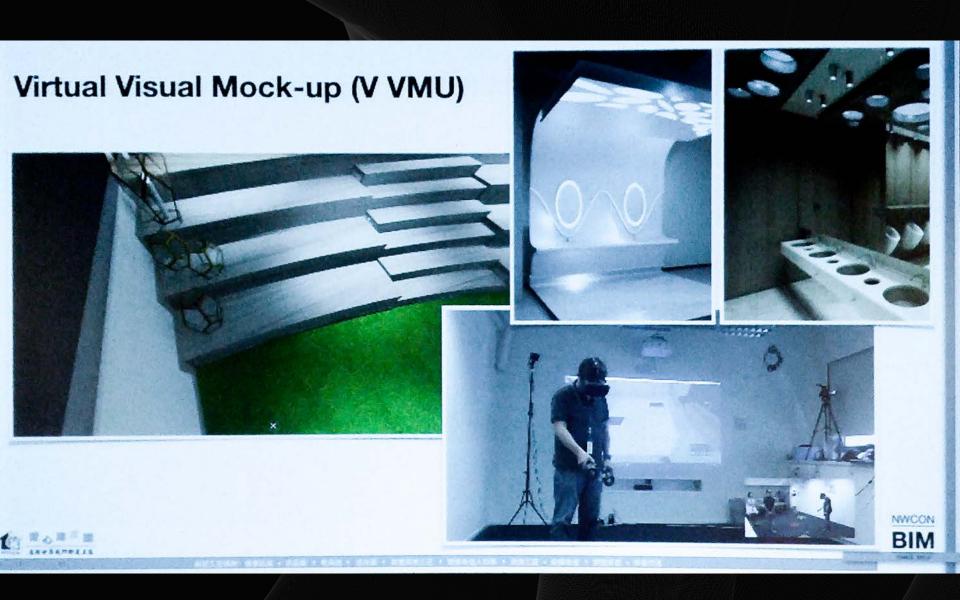
CSD / CBWD 綜合管線

Quantities Take-off 工料測量

Construction Drawings 施工圖







### Information Hub

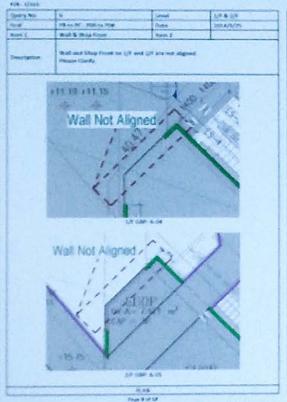
- · Permanent Works
  - Architectural
  - Structural / Civil
  - MEP
  - Interior Design
- Construction Planning / Temporary Works
  - Site Layout
  - Excavation & Lateral Support
  - Plant & Machinery
- Existing Conditions
  - Underground Utilities
  - Geological Profiles
  - Surrounding Buildings

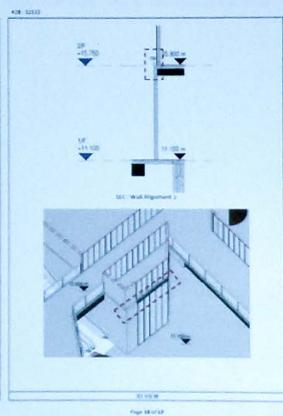


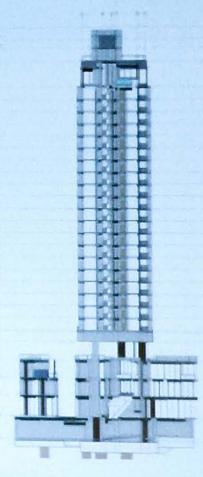


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### **Drawing Coordination**



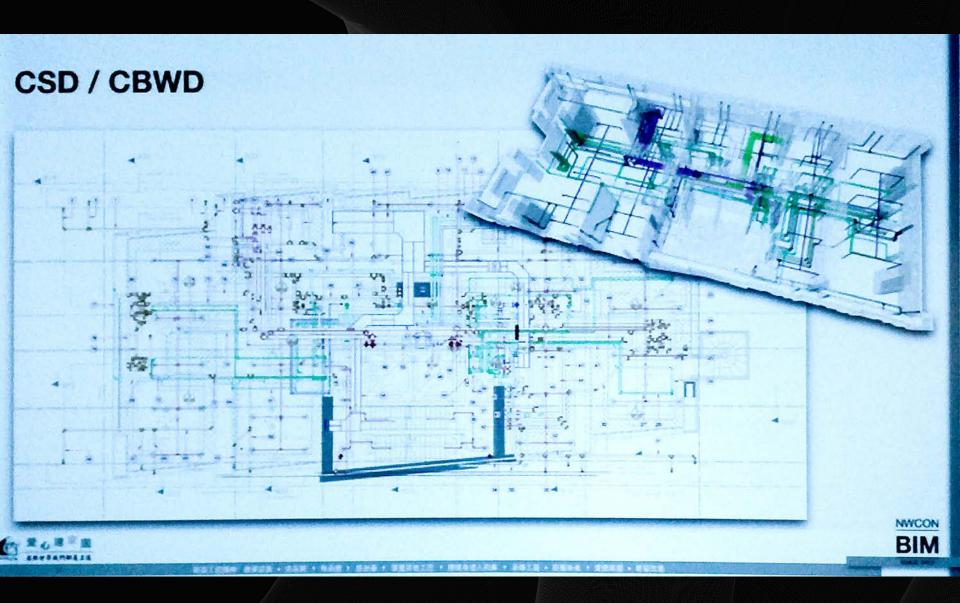


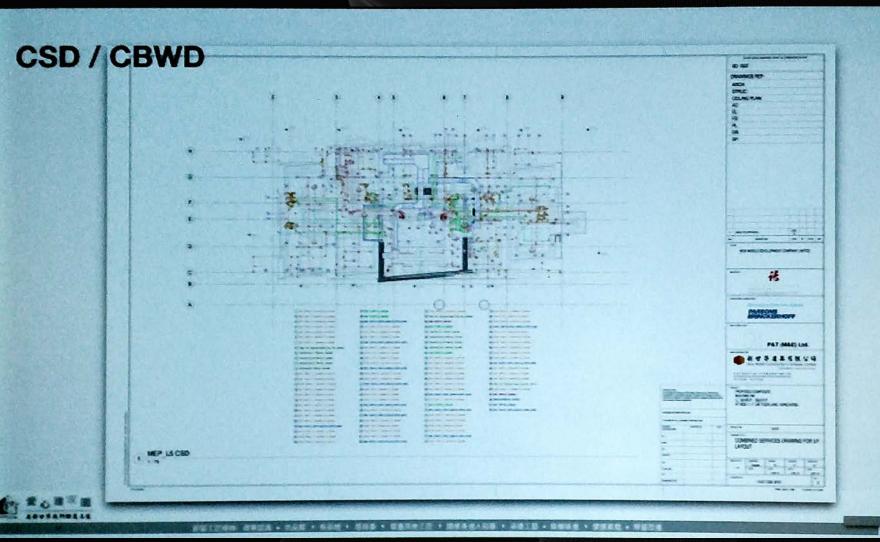




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(3) (1) 1000年,日本公司 4、万以司 4、司中司 5、京建区武司 4、司申及建入司事 7、申请工商 4 取集处理 7 配置证据 6 安置证据

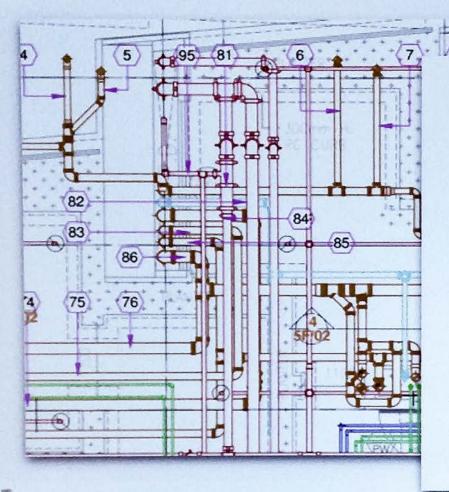




BIM

**BIM** in Construction

### CSD

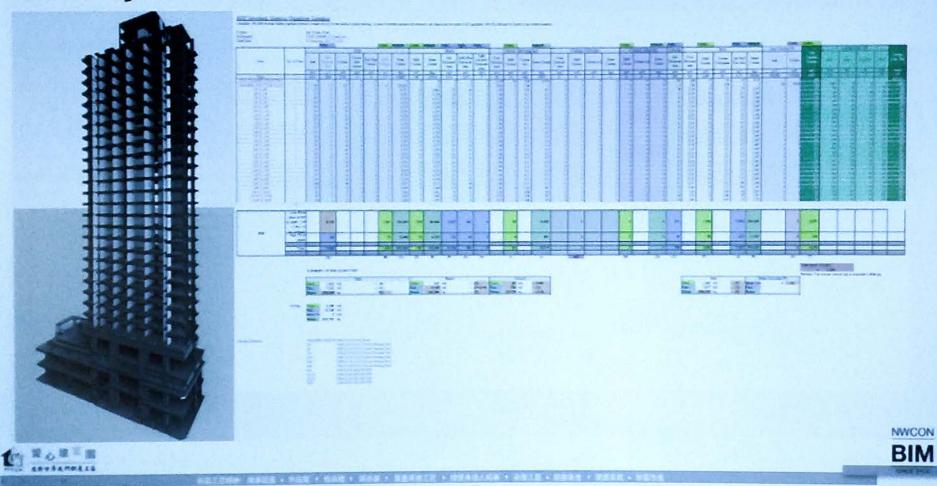


- (27) Ø35 FLWP CL:+29.050
- 28 Ø25 FLWP CL:+29.050
- 29 Ø50 CDP IL1 AFFL+5300 IL2 AFFL+5325
- (30) Ø75 RWP IL1:+28.755 IL2:+28.840
- (31) Ø75 RWP IL1:+28.885 IL2:+28.980
- (32) Ø75 RWP IL1:+28.840 IL2:+28.865
- (33) Ø80 CDP IL1 AFFL+5300 IL2 AFFL+5370
- 34) Ø75 RWP IL1:+28.825 IL2:+28.860
- (35) Ø100 VP IL1:+28.685 IL2:+28.685
- (36) Ø100 VP IL1:+28.685 IL2:+28.685
- (37) Ø150 RWP IL1:+28.720 IL2:+28.735
- (38) Ø75 CDP IL1 AFFL+4760 IL2 AFFL+4740





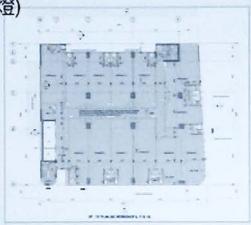
### **Quantity Take-Off**



### **Construction Information Anywhere (CIA)**

Web Based Knowledge Portal

- Drawing Register (including Modelling Progress)
- RFC Summary / RFC Plans (紅綠燈)
- BD Approved Plans
- VVMU Output
- Construction Drawings
  - · GBP, Framing Plan, RCP, ELS, ...
  - CSD / CBWD
- Quantities
- Construction Planning Animation
  - Programme
  - · Site Layout, Plant / Equipment







NWCON

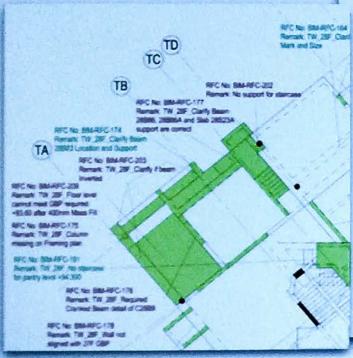
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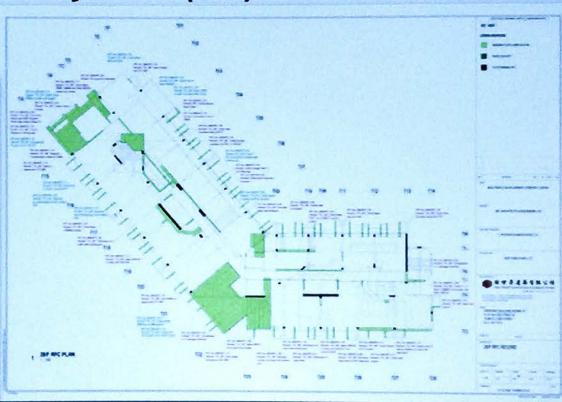


近十六旬钟,女名云波 · 过去在 · 有品度 · 应用家 · 迎至其他工艺 · 四项用原人民家 · 清集工器 · 提用连集 · 整面装置 · 经营业税

# **Construction Information Anywhere (CIA)**

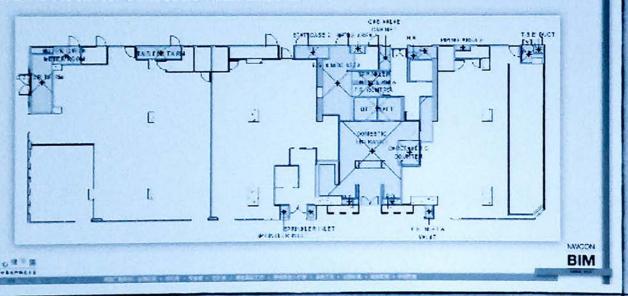
• RFC Plans (紅綠燈)



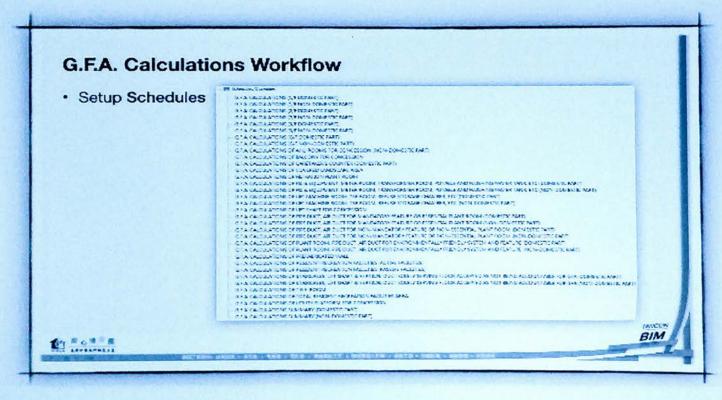


# G.F.A. Calculations Workflow

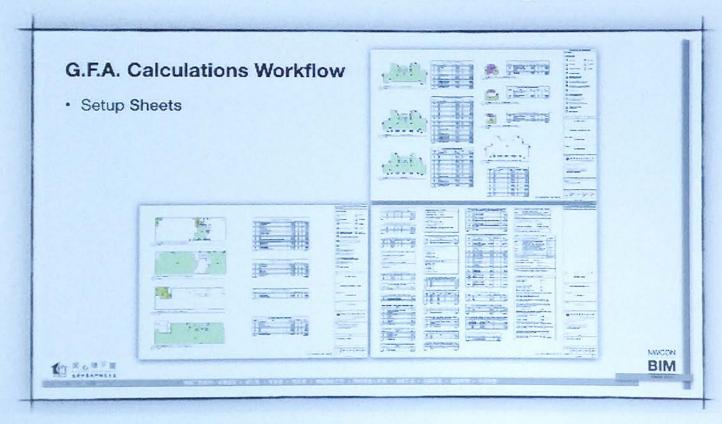
· Define Room for concession calculations





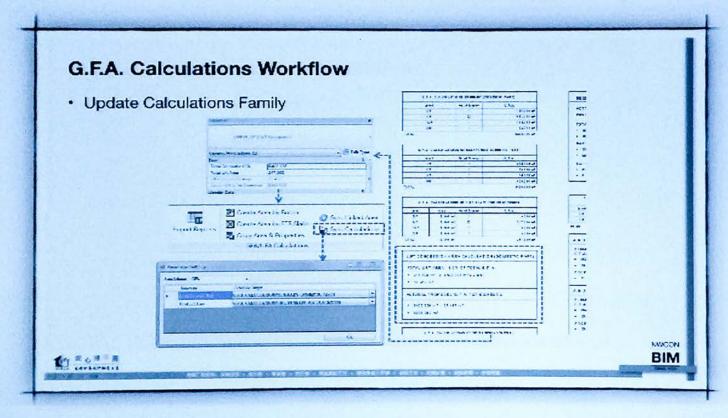








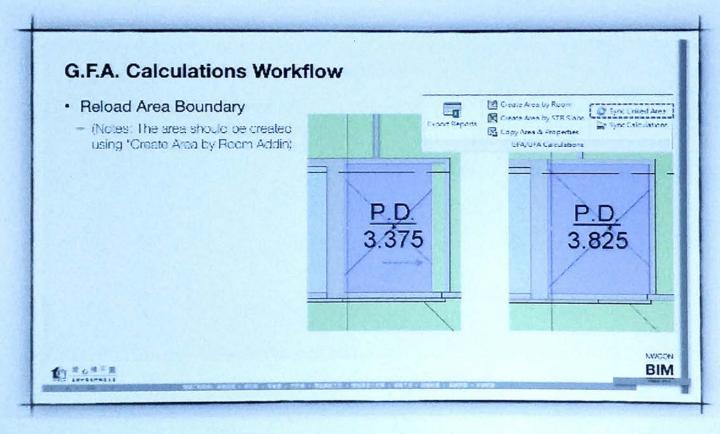






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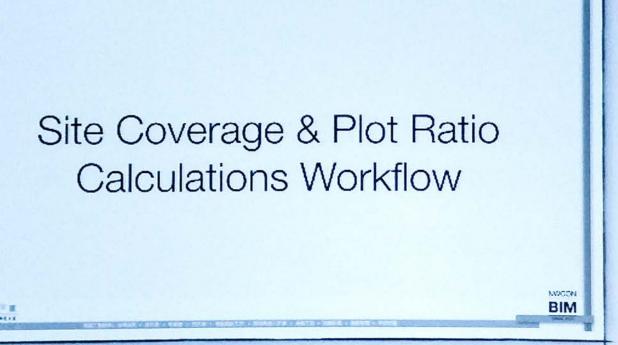
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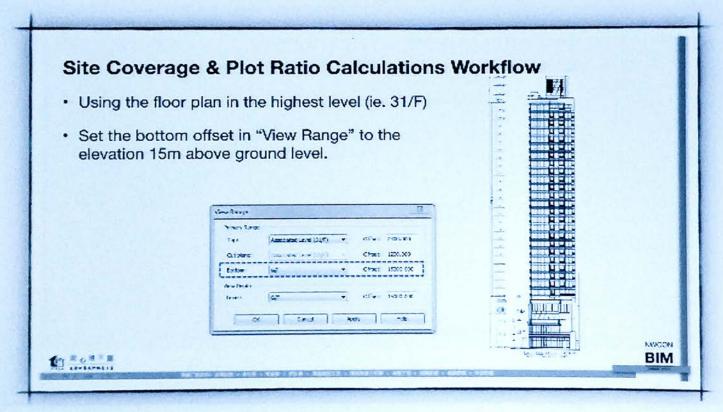
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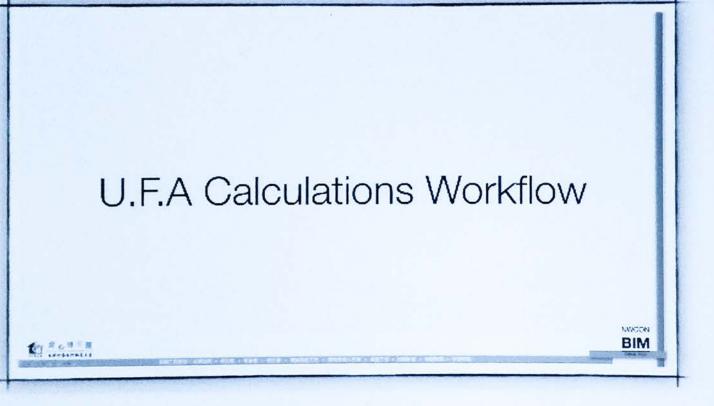




# Site Coverage & Plot Ratio Calculations Workflow · Draw area boundary lines to fully outline the Covered area of the building · Setup plans & schedules DOMESTIC COVERED AREA DIAGRAM 4 % BIM

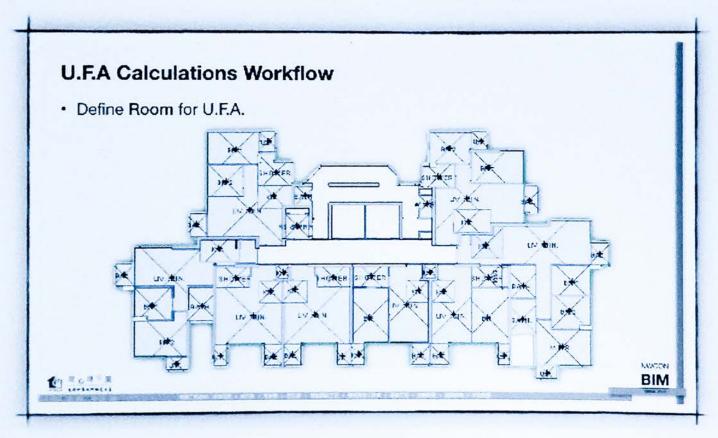






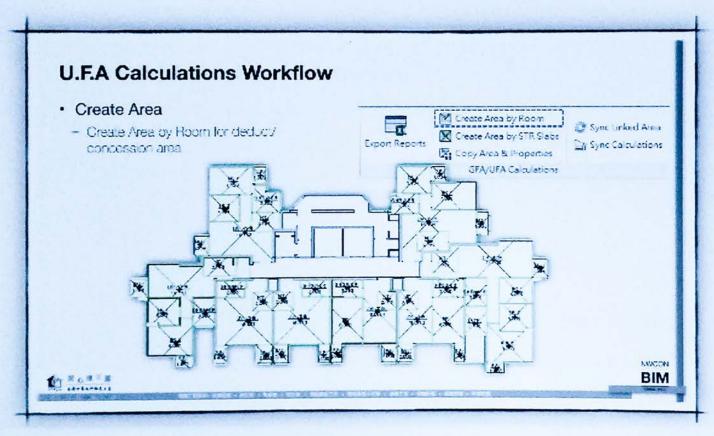












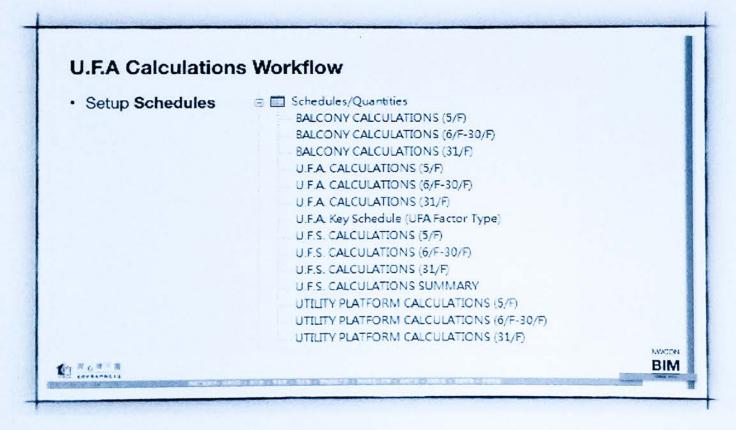




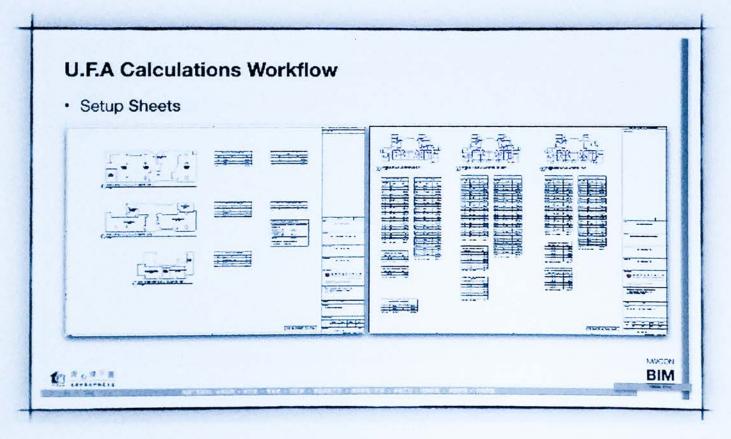
### **U.F.A Calculations Workflow** Define UFA Factor Type, Number of Storey, Non-Domestic Usage for Area 2 minutes and Key Schedule for UFA Factor Type: AU.F.A. Key Schedule (UFA Factor Type) Direction - State - - - -Fee min School by Garage manage OT HORE BIM





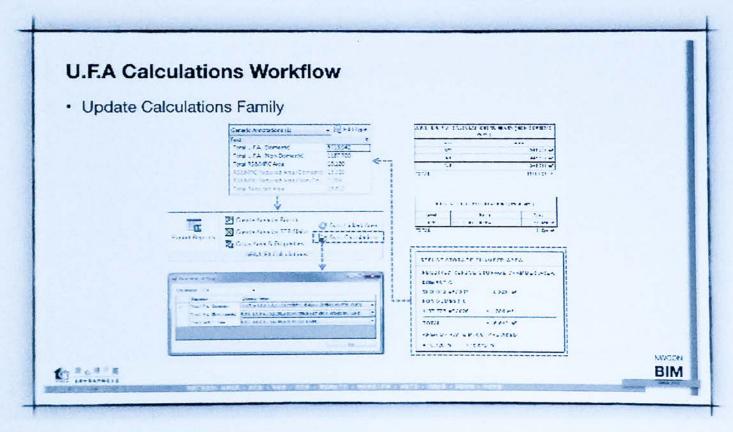






















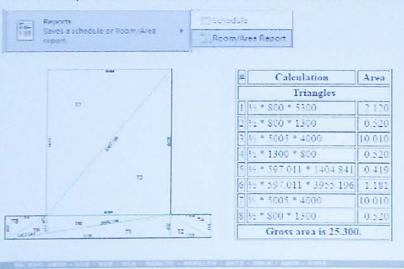
#### **Export Schedule Reports** Urease Area by Koom · Export all area 1 The Valley Discourage Court Crowic Area by STR Sla schedules and Chay ama a Property GFA/UFA Calculate calculations to an 1 1 22 -100 m 5 - 1 - 100 m excel format and Area Scheme Selector D 50 C-1.322 str. Dire COVERED I sille C 170 m 500r. 150 at CASIN GFA (REV K) (10.20%) 1302.6 6 274 12 M. 120 at Good Eudling COURS 400. 000 d 200.2 000 d 0000 de de 6 N300 m Chemeras' C3.585.4 ALL REPORTED AT DARL CARRE NOW AND AND AND LOCAL COTTON STATE 700 2004 O. ( 1) THE NVACON Py Rozza BIM





#### **Export Area Reports**

· Generate a detailed report that describes the calculations for the areas







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### **BIM Standards**



### **BIM Mission**

- BIM will be a game changer which bridges the gaps in the life cycle of buildings to address the growing demand for building energy efficiency and user engagement
- BIM is more than a construction model; it is a sustainability decision-making tool that helps property development professionals and the public visualise our future products and services and allows us to deliver bespoke facilities management services at an optimal resource efficiency
- BIM will connect visionary talents and resources within and outside the Group and empower us to build with insights.





