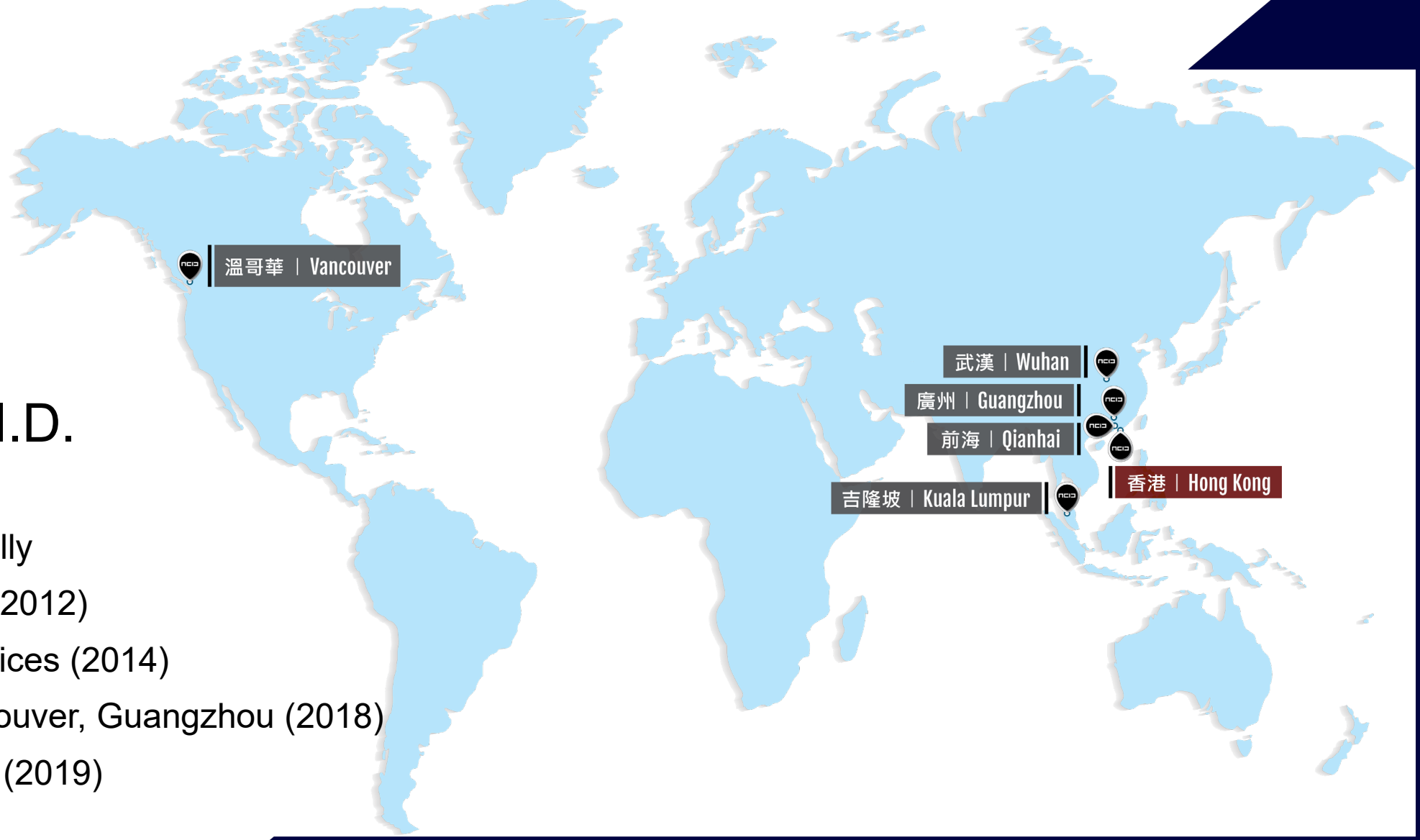
A DVANCED
C ONSTRUCTION
I NFORMATION
D EVELOPMENT LTD.

David Fung

Registered Architect, HKIA, ARB
MHKIBIM, Founder and Past Chairman
HKABAEIMA, buildingSMART International Committee Chairman
A.C.I.D. Managing Director, Architectural Practice
BIM Training, BIM Project Management, BIM Projects
26 years of BIM experience



About A.C.I.D.

- 6 offices globally
- Wuhan office (2012)
- Hong Kong offices (2014)
- Qianhai, Vancouver, Guangzhou (2018)
- Kuala Lumpur (2019)

Hong Kong Alliance of Built Asset & Environment Information Management Associations
香港建設資產及環境信息管理聯盟

buildingSMART
the Hong Kong chapter of buildingSMART International

Confirmed Corporation Members

Member of HKABAEIMA

HKIA Registered Practice

香 港 建 築 師 學 會

The Hong Kong Institute of Architects

This is to certify that

Advanced Construction Information Development Limited

was admitted as **a Corporate Member**
of the Institute on the **Twenty-fifth**
day of **April 2015**

thereby accepting the privileges and responsibility of membership and undertaking to comply with the Rules of the Institute.

President *Registrar*

The Hong Kong Society of Architects was founded in the year 1956. It was reconstituted in the year 1972 as the Hong Kong Institute of Architects.

Date of issue **29th April 2015** *Serial No.* **CM0200**

This Certificate Remains the Property of the Hong Kong Institute of Architects.

ISO19650 : 2018 – First and Only Company in HK attained (2019)

Certified ISO 19650

bsi.
BIM Level 2
ISO 19650
Parts 1 and 2
KITEMARK™

KM 697940
ISO 19650

bsi.

By Royal Charter

Kitemark™ Certificate

This is to certify that:

Advanced Construction Information
Development Limited
A2, 35/F, TML Tower
3 Hoi Shing Road
Tsuen Wan
New Territories
Hong Kong

Holds Certificate Number: KM 697940

In respect of:

ISO 19650:2018
Achieved BIM for design, construction and commissioning in accordance with ISO 19650-1:2018 and ISO 19650-2:2018 following the assessment of projects which includes client satisfaction and collaborative engagement with the delivery team

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI: Chris Lewis - Certification Director, Product Certification

First Issued: 2018-11-13
Latest Issue: 2020-01-20

Effective Date: 2020-01-20
Expiry Date: 2021-11-12

Page: 1 of 2

...making excellence a habit.™

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated online.

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A member of BSI Group of Companies.

Kitemark™ Certificate

No. KM 697940

ISO 19650-2:2018 Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling. Part 2: Delivery phase of the assets.

Specialist consultant including design/BIM consultancy and BIM management services, covering architectural, structural and building services design, process documentation, coordination, model authorship, data/information management and process support, using building information modelling on behalf of clients, Tier 1 contractors and the associated project design/construction/F.M. supply chain.

Achieved BIM for design, construction and commissioning in accordance with ISO 19650-1:2018 and ISO 19650-2:2018 following the assessment of projects which includes client satisfaction and collaborative engagement with the delivery team.

This Kitemark certificate covers activities carried out at all A.C.I.D. Hong Kong sites.

First Issued: 2018-11-13
Latest Issue: 2020-01-20

Effective Date: 2020-01-20
Expiry Date: 2021-11-12

Page: 2 of 2

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ORG9976
ORGANIZATION ID NO.

Advanced Construction Information Development Limited
AUTHORIZED TRAINING CENTER

Hong Kong, China,Hong Kong
SITE ADDRESS / COUNTRY

GC12378
SITE ID NO.

SITE AUTHORIZATION VALID UNTIL: 01 FEBRUARY 2024

AUTODESK Authorized Training Center AUTODESK Learning Partner

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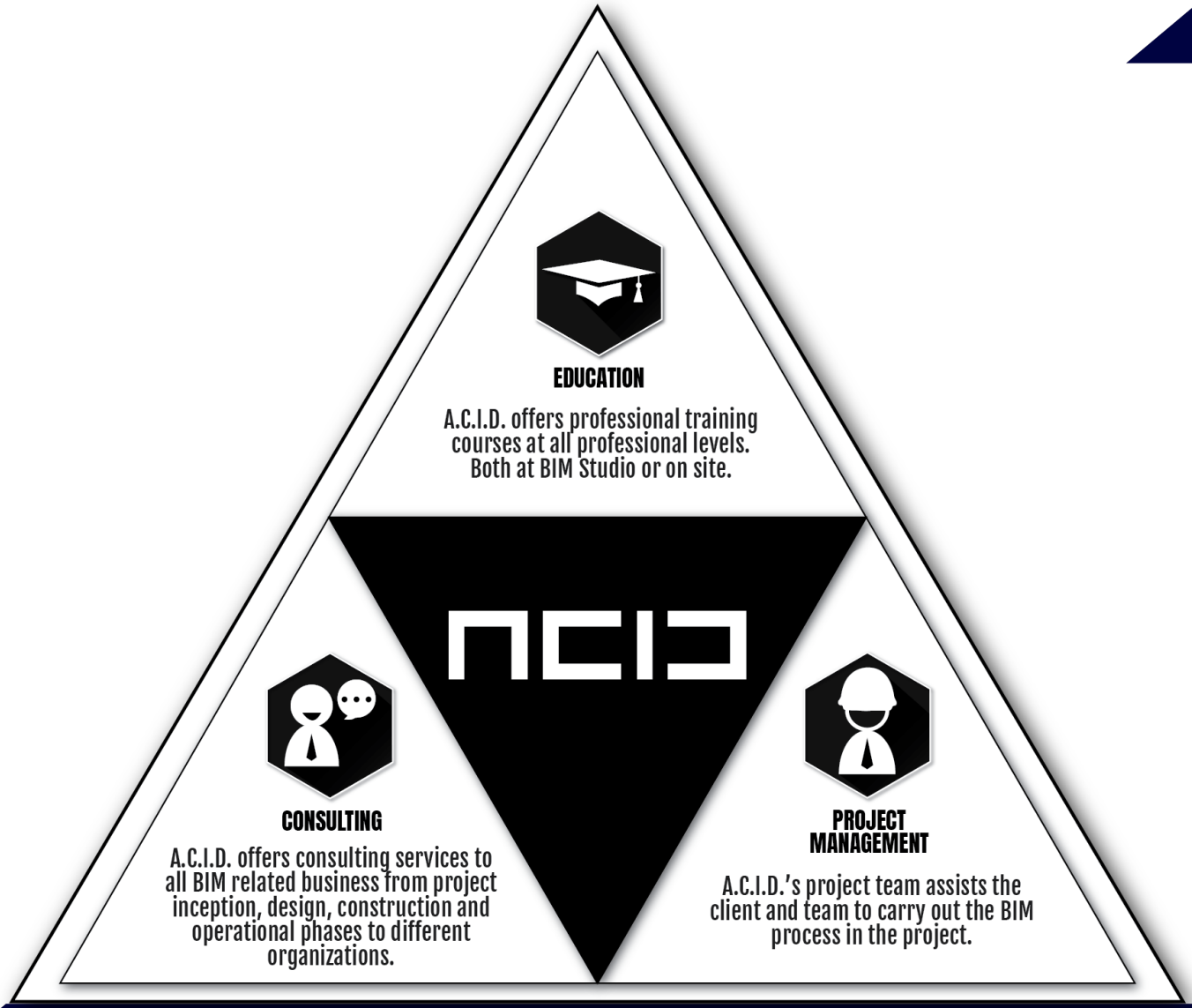
Scope of Service



FUNG Shue Kin David
馮樹堅

Managing Director (A.C.I.D.)
董事总经理 (A.C.I.D.)

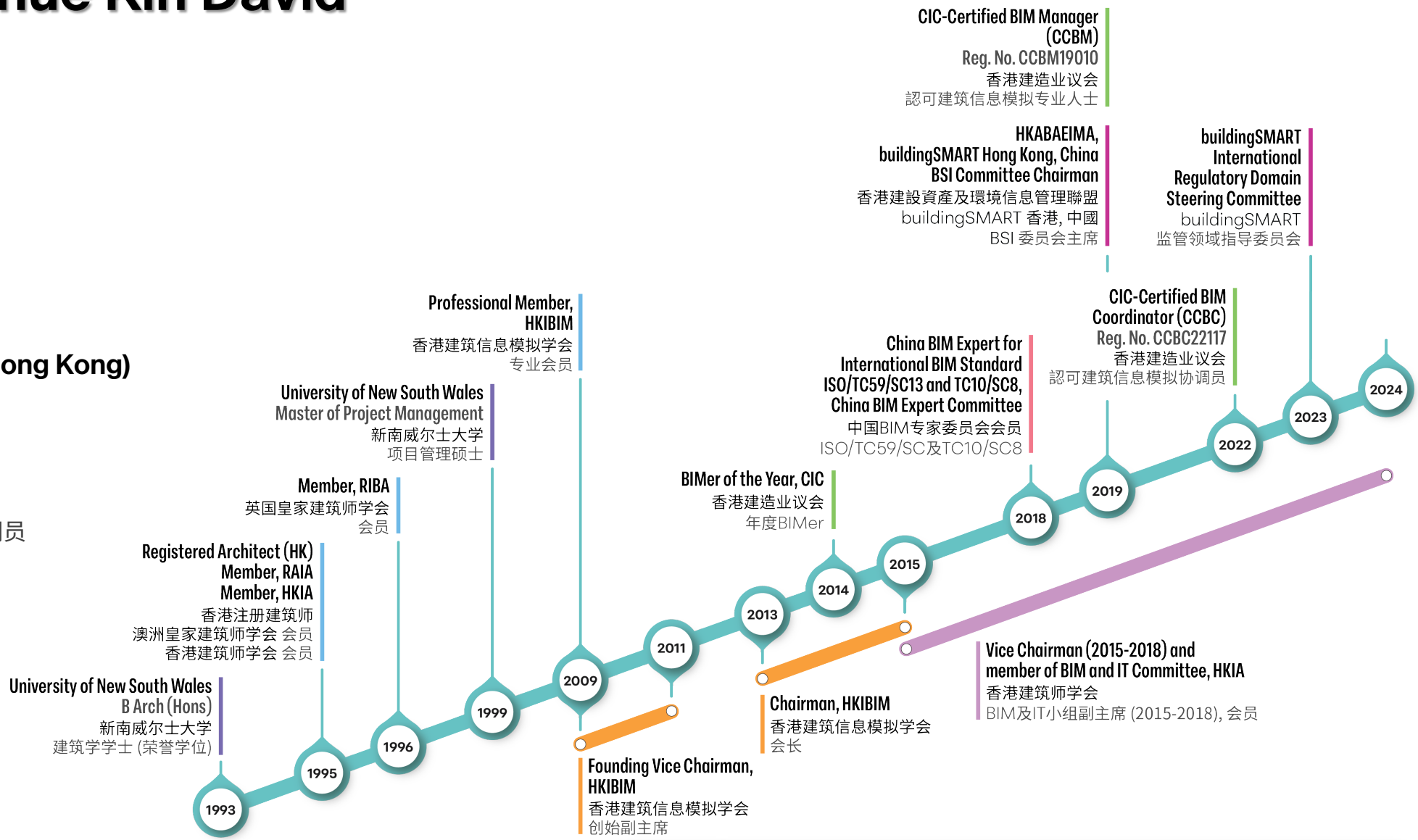
Registered Architect
(Architect Registration Board, Hong Kong)
香港建筑师学会 香港注册建筑师

BIM Pro (HKIA)
香港建筑师学会 建筑信息模拟专业人士

CCBM, CCBC (CIC)
建造业议会認可建筑信息模拟经理, 协调员

Past Chairman (HKIBIM)
香港建筑信息模拟学会 前会长

Creator of IM-CDE, MobileCDE and MetaCDE
IM-CDE, MobileCDE 和 MetaCDE 的创建者
BIM Training, BIM Project Management
BIM 培训, BIM 项目管理,
26 years of BIM experience
26 年 BIM 经验



2018

证　书

ISO

冯树坚先生：

被聘为国际标准化组织ISO／TC59／SC13、TC10/SC8中国专家委员会委员。

ISO／TC59／SC13、TC10/SC8
中国技术对口单位
中国建筑标准设计研究院
2018年10月24日

ENTERPRISE WEEK Case Study

3D設計技術建構

建築新世代

當中國播道會高打老道山福音堂計畫裝修之時，身為香港註冊建築師的會友馮樹堅，便決定利用新一代的3D建築設計軟件，以最短時間和經濟成本，助會堂完成裝修工程。

馮樹堅於澳洲新南威爾斯大學畢業，有逾十年的2D設計軟件應用經驗。由於是次教會裝修屬義務性質，欠缺往常人力支援，馮氏唯有另想辦法，最後決定採用Autodesk Architectural Desktop及Building Mechanical。

3D設計軟件和2D設計軟件的最大分別，是前者處理的乃「物件」，軟件會為物件添上應有的特性，譬如是牆、窗便是窗，處理起來較具智能。

3D設計的優點

利用2D設計軟件，工作無疑較人手快速，但仍須每幅設計圖逐張繪畫。在3D設計軟件中，建築師只要設計好整個模型，就能自動完成各種所需的2D設計圖。「今次教會裝修所用的100張圖表，就是在完成模型後自動產生出來的。」

此外，又因往日繪圖紙上的各種點、線，如今都在3D模型下添加上現實的物理特性。過去一些在工程中才發現的「走線」問題，如今在設計時已能提早預見更正，有效節省事後補救的時間。

「3D設計軟件還可以幫建築師預備各種建築構件的規格表及文件。過去我們要自行逐項填寫，隨時花上兩、三天時間，如今設計好後軟件即能自動製作，半個鐘頭便可完成。」

應用效果

在3D設計軟件協助下，馮樹堅在工餘和一位全職的建築系畢業生合作，僅花了約4個月時間便完成教會21萬方呎會堂的裝修工程，不到原訂日期的一半。每方呎的裝修成本，也由一般個案的每平方呎$450-$500，下降至$370左右，而工程品質卻沒打折扣。

「利用3D軟件，我還可以在裝修中輕易地加入一些曲線訓練造型。」現時一些Cyber設計，會採用一組訓面，合成一個富立體感的曲線模型。馮樹堅便採用這種現代手法，設計新會堂中間的十字架（見圖）。如今完成立體模型後，電腦不用半小時即可自行繪製各剖面平面圖。

學習曲線

當然，3D設計由於概念和2D迥然不同，馮樹堅在採用前，先已有其他3D設計軟件的應用經驗，但仍學習了兩天，然後運用建學。

「最大的差別是整個軟件的設計概念已不一樣。」傳統2D軟件處理的僅是點和線，繪圖員的工作較為作業性，照指示去辦即可，遇到問題再慢慢修改。3D軟件處理卻是「物件」，模型製作牽一髮動全身，要求應用者有清晰的設計認知，了解每一項構件的屬性、功能，佈置，而非單純的點和線。

其次，由於3D軟件處理的是物件，電腦會建立數據庫，記下各項物件的各種屬性。因此，應用軟件時每項指令牽涉的再非簡單的位置和長短，而是會影響到整個數據庫，所以操作時不似2D軟件的簡單直接。

最後，馮氏採用的3D設計軟件僅能自動產生2D繪圖，而不可透過修改2D繪圖自動改正3D模型，需另外選購軟件才能增添此功能。由於處理2D繪圖始終較3D模型簡單，如能雙向轉變，則更為理想。

明報 特輯 香港建築師學會50周年誌慶特輯 2　2006・11・03 星期五 G2

特約專輯

凱達環球深得中外發展商青睞

Aedas 凱達

一個城市的構成，最受注目的是當中的建築物。它可以令城市變得更有活力，更具吸引力。獲國際雜誌選為全球第六大建築師樓的凱達環球有限公司，在香港建築界扮演重要角色。香港辦事處是全球25個辦事處中最具規模的一個，員工人數佔全球1,600人中的550人，註冊建築師逾109名。

全球25個辦事處隨時效命

凱達環球有限公司的董事總經理吳家賢表示，凱達之所以能夠得到眾多外資及本土發展商的青睞，跟公司本身的三大方向有關。首先是Global Presence，全球重要城市都設有辦事處，為當地及國際機構服務。其二是Local Expertise，凱達匯集世界各地的專家，了解項目所在地的文化、經濟、法律、環境及人民生活習慣，從而設計出合適的建築。其三是Innovative Design，堅持

教人難忘的內地發展項目

近年隨着內地市場，凱達當然積極參與，意欲參與標誌性的高端建築為目標，不少正在進行中的工程，規模和箭鏃性也令人難忘。以下三個項目均由董事秦業政負責。

廈門港國際旅遊客運碼頭

佔地42公頃，發展範圍含客運碼頭、酒店、住宅、辦公大樓及展覽中心，廈門政府及中央相當重視這項標誌性的建築。8萬平方米的懸檐大樓的設計以層疊的海浪為主題，配合附近臨海的環境，又有助通風和照明。

廣州富力中心

在香港上市的富力集團的總部，緊立於珠江新城的中央商務區，樓高250米。業主要求設計要有東方色彩。主要設計概念來自中國兩千多年前古玉雕刻工藝，採用輕而透光度高的物料，大廈頂部像一塊璧立起的美玉，黃昏時分最為耀目。而方正的樓板設計，大大加強大樓的實用性和靈活性。

北京富力城

是一個樓面面積達130萬平方米的綜合發展項目，包括商場、酒店、辦公大樓及住宅。凱達擔任第一至四期住宅及共建部分的建築設計，住宅部分由凱達臺灣王聯智負責。由於涉及不同用途的建築，故須考慮心思，須顧及功能、保安、人流、效益及結構等不同因素。

BIMer of the Year, BIM Excellence Awards 2014, Construction Industry Council

2014

ACID

ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT

馮樹堅
David Fung
香港註冊建築師

董事總經理
Managing Director
Registered Architect, HKIA
BIM Pro (HKIA), CCBM, CCBC

香港建築信息模擬學會 HKIBIM 2015-17 會長
香港珠海學院建築系 CHC Dept. of Arch. 客座教授
中國專家委員會委員 China BIM Expert Committee
HKABAEIMA bSI Committee Chairman

CIC CERTIFIED BIM MANAGER 建造業議會認可建築信息模擬經理
CIC CERTIFIED BIM COORDINATOR 建造業議會認可建築信息模擬協調員

[e] davidfung@a-c-i-d.com
[o] +852 3468 5250
[f] +852 3585 5599
[m] +852 9464 3243
[fb] ACID BIM Studio
[YouTube] ACID BIM Studio
[skype] david.fung2004

BIM Studio
香港荃灣海盛路3號TML廣場35樓A2
A2, 35/F, TML Tower,
3 Hoi Shing Road, Tsuen Wan, HK

ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT

hkacid.com

BIM Education, Consulting, Project Management

Mr. David Fung is one of the first batch of CIC-Certified BIM Managers

CONSTRUCTION INDUSTRY COUNCIL
建造業議會

CIC ACCREDITED
BIM MANAGER COURSE
建造業議會認證建築信息模擬經理課程

Accreditation Scheme for BIM Training Courses
建築信息模擬培訓課程認證計劃

Certificate of Accreditation Status
認證資格證明書

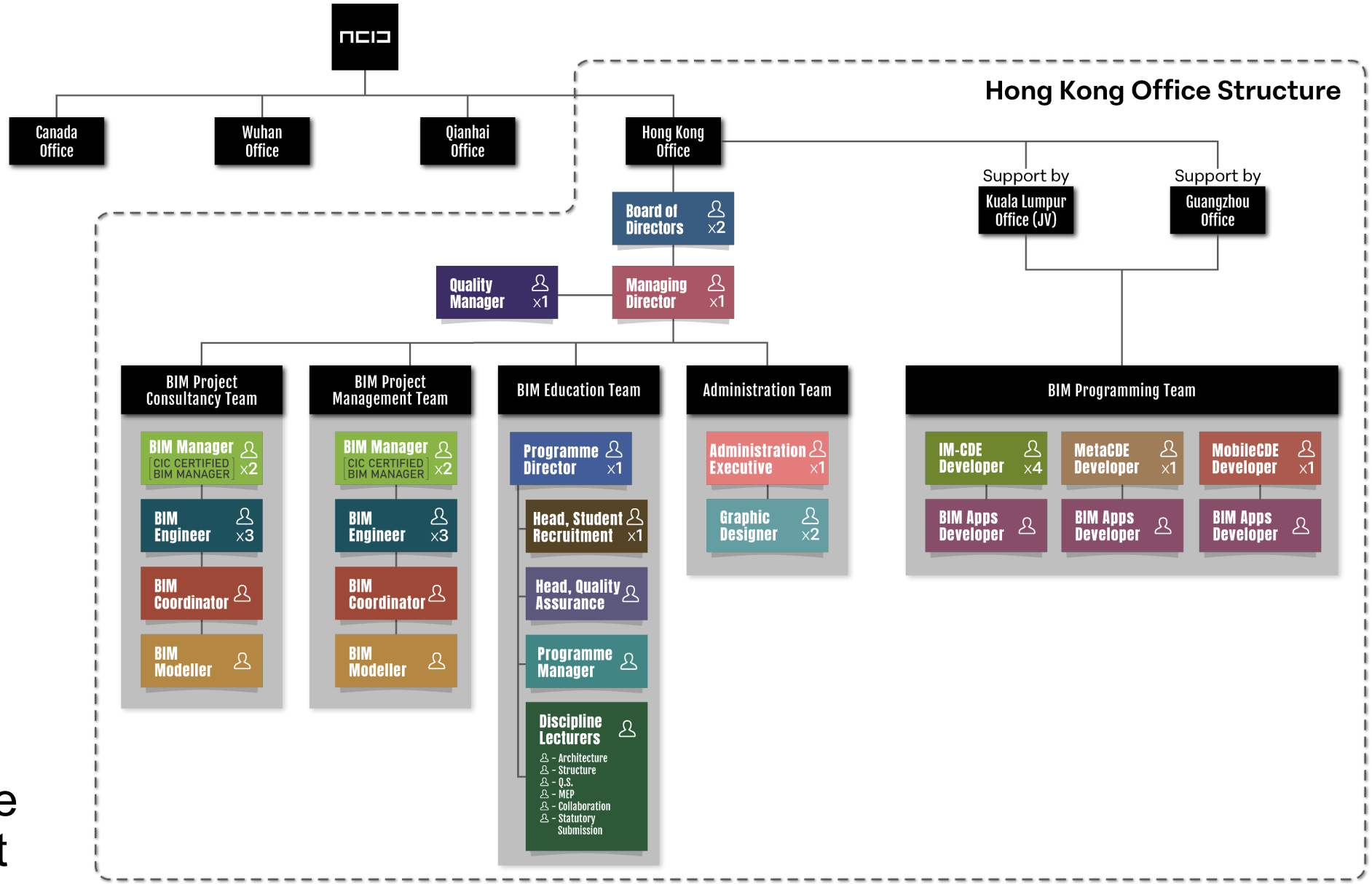
Name of Course Provider **課程營辦機構**	Advanced Construction Information Development Limited (A.C.I.D.)
Name of Award Granting Body **資歷頒授機構**	Advanced Construction Information Development Limited (A.C.I.D.)
Course Title **課程名稱**	Advanced Certificate for BIM Manager Course 建築信息模擬經理高級證書課程
Qualification Title **資歷名稱**	Advanced Certificate for BIM Manager 建築信息模擬經理高級證書
Target Students **對象學生**	General Public 公眾
Notional Learning Hours **學時**	Contact hours: 40, Self-study hours: 20 面授時數: 40, 自學時數: 20
Mode(s) of Delivery and Course Duration **授課模式及授課期**	Part-time, 8 hours x 5 days or 4 hours x 10 evenings 兼讀制, 8小時 x 5日 或 4小時 x 10晚
Valid Period **有效日期**	From 23 September 2021 To 31 December 2023 2021年9月23日至2023年12月31日
Instructor to Student Ratio **師生比例**	1:24
Address of Teaching / Training Venue(s) **教學 / 培訓地址**	A2, 35/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan and 3/F and 7/F, Righteous Centre, 585 Nathan Road, Mongkok 荃灣海盛路3號TML廣場35樓A2及 香港九龍彌敦道585號富時中心3樓及7樓

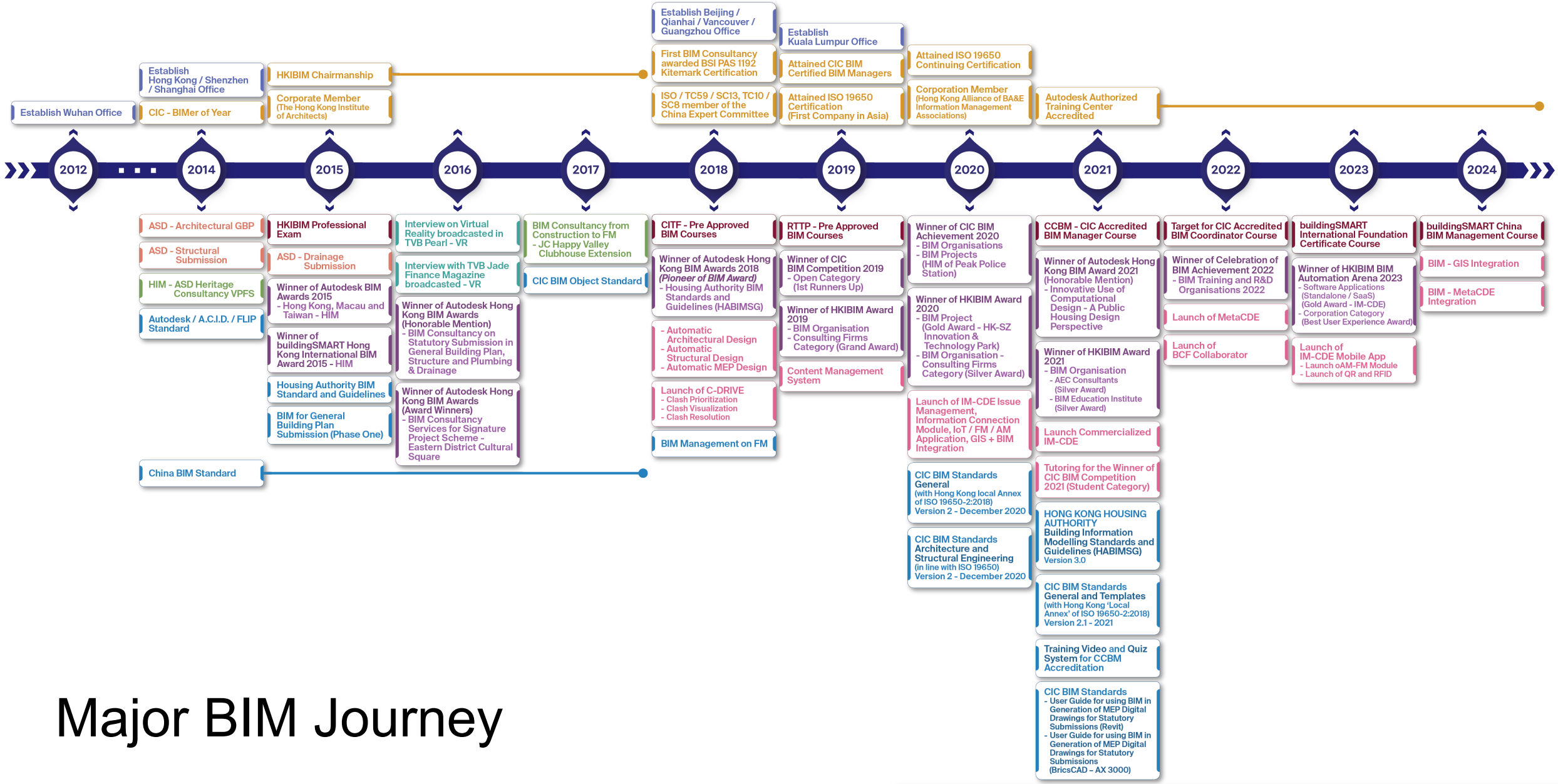
Ir Albert CHENG
鄭定寧工程師
Executive Director
執行總監

Ir Prof. CHUNG Kwok-fai
鍾國輝教授工程師
Chairperson
Building Information Modelling Certification and Accreditation Board
主席
建築信息模擬認可及認證委員會

Registration Number: **A210011**
註冊號碼: **A210011**

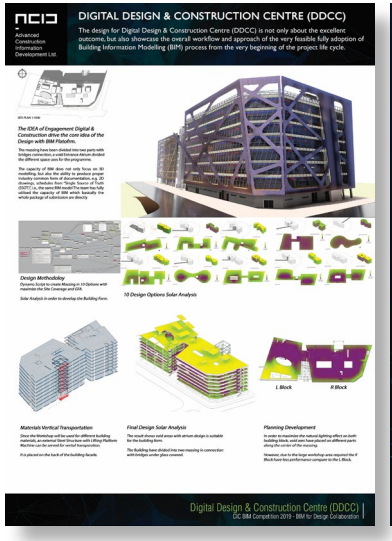
Current Company Structure Organization Chart

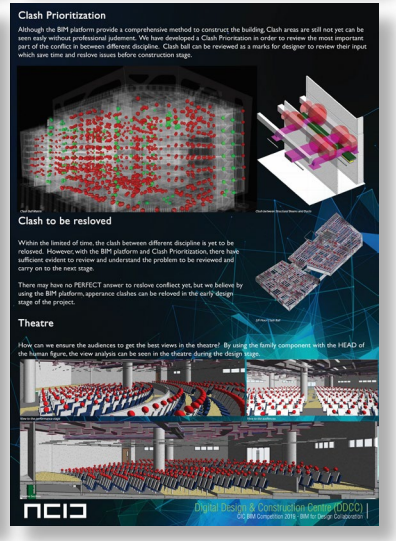




Major BIM Journey

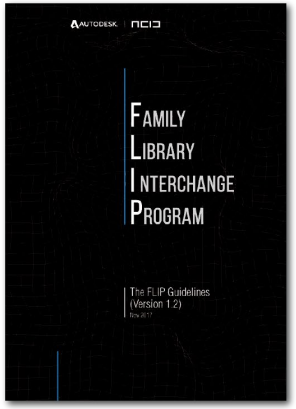
CIC BIM Competition 2019

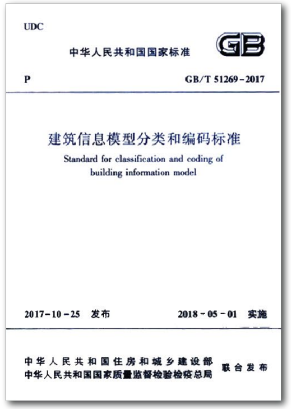


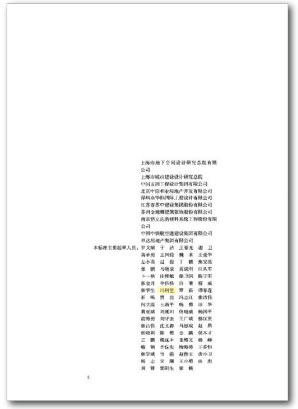


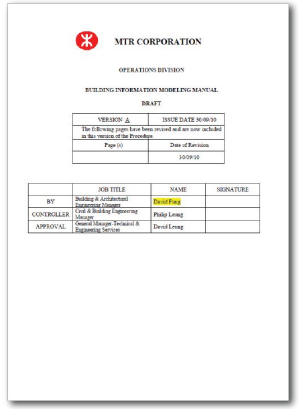
CIExpo 2019

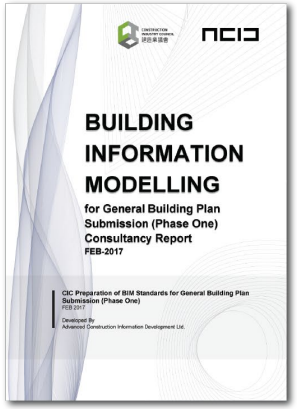
CIC BIM Achievement 2020

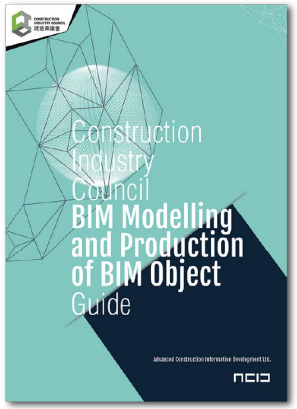


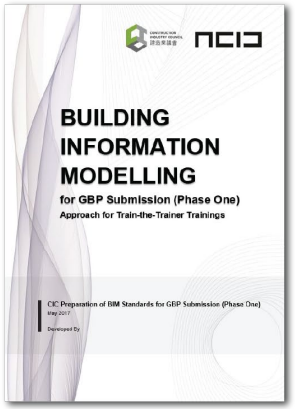


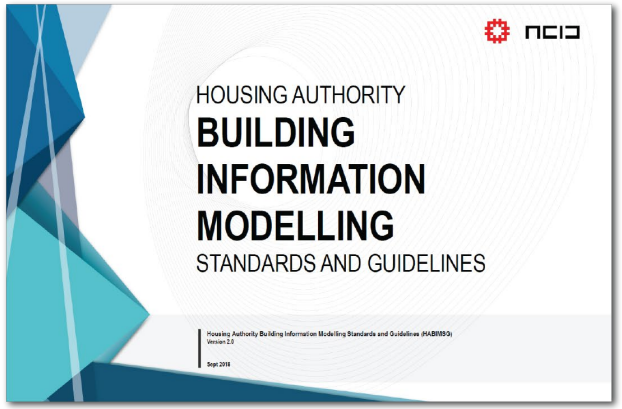


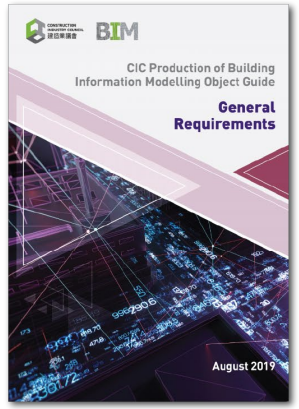


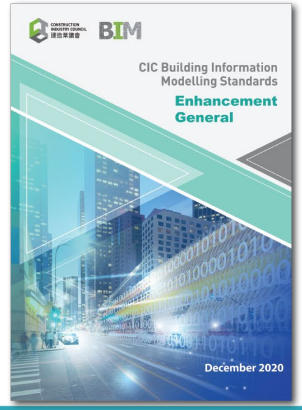


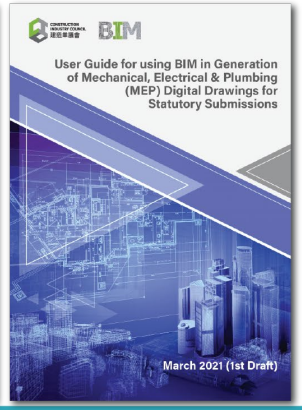


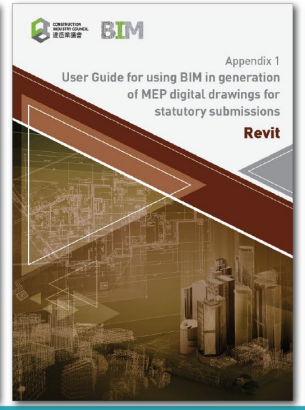


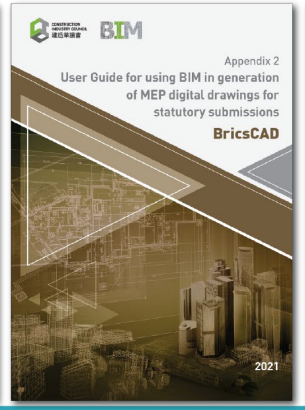


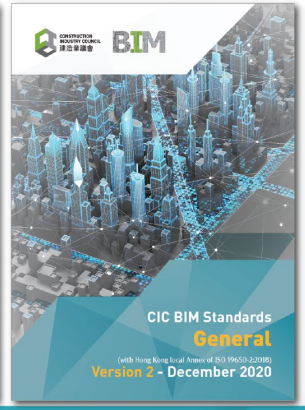


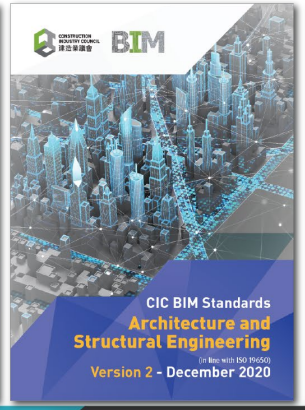


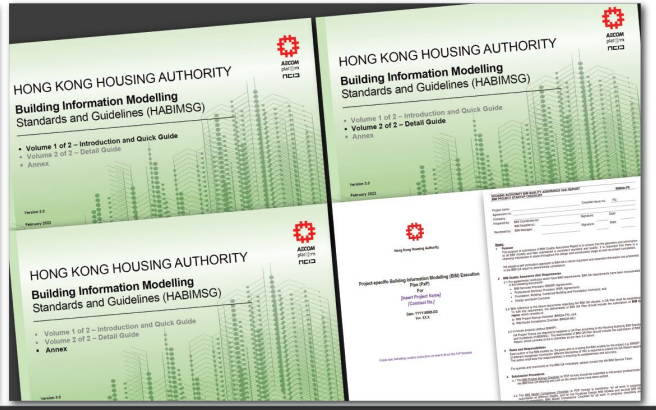






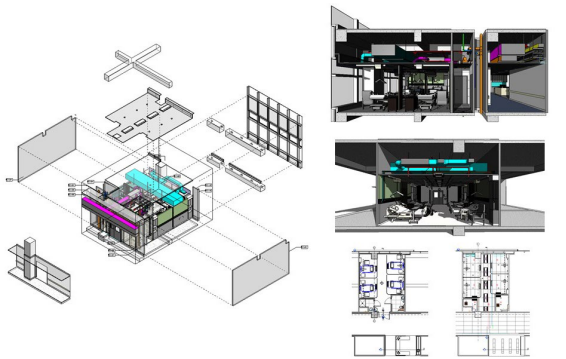


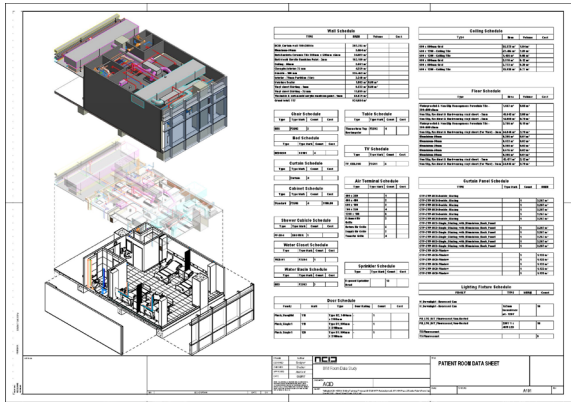


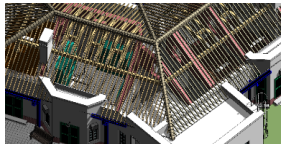


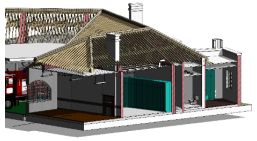
BIM Standard

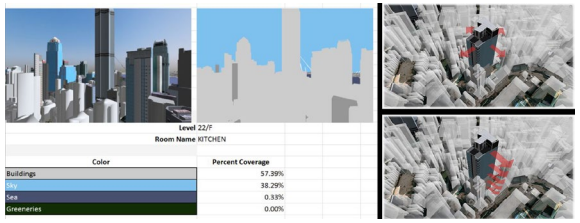
ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT LTD. nci

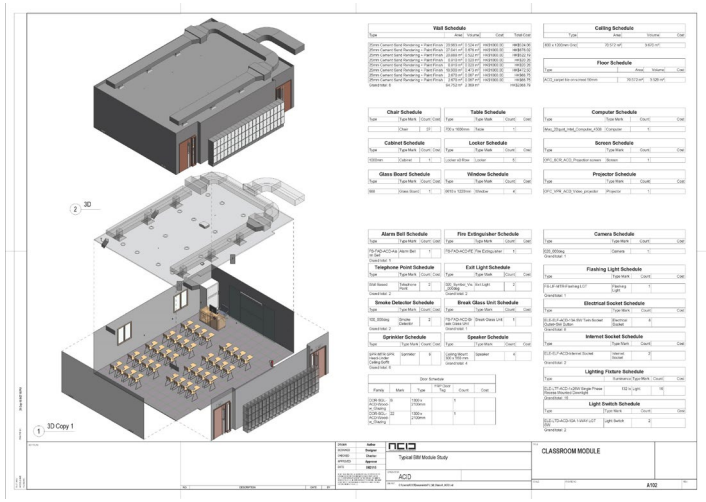


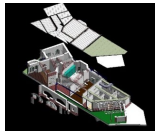


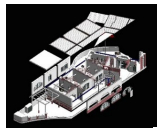


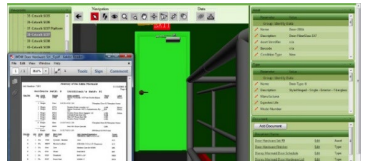


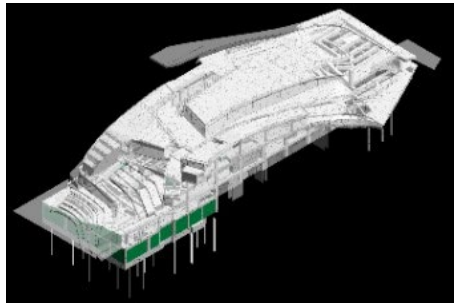


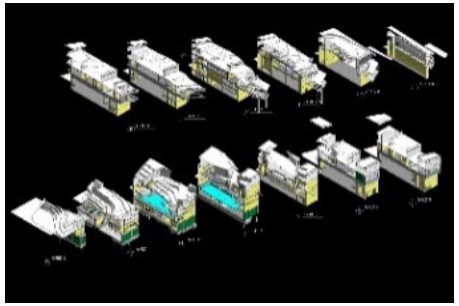


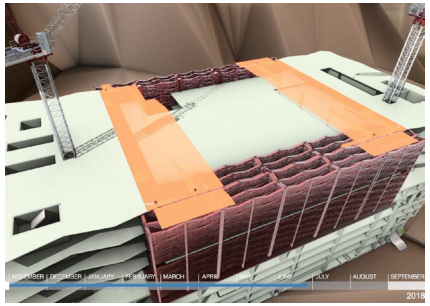


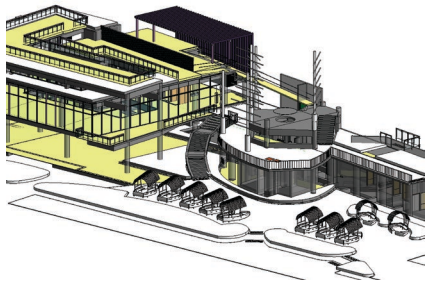


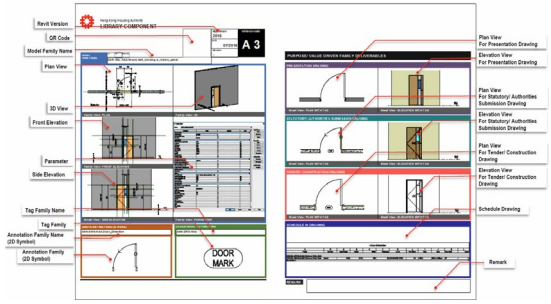






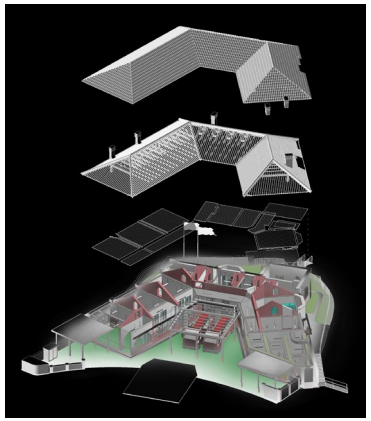


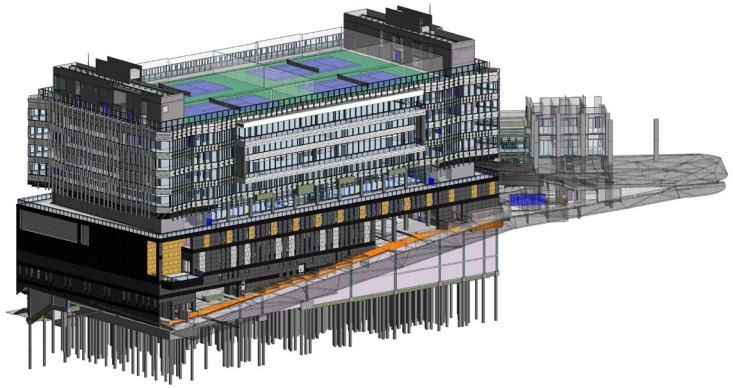


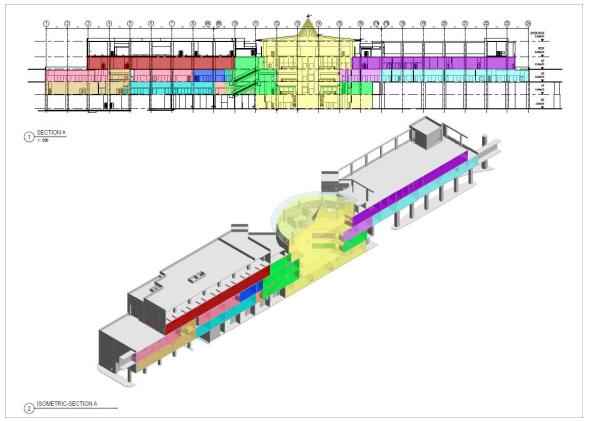


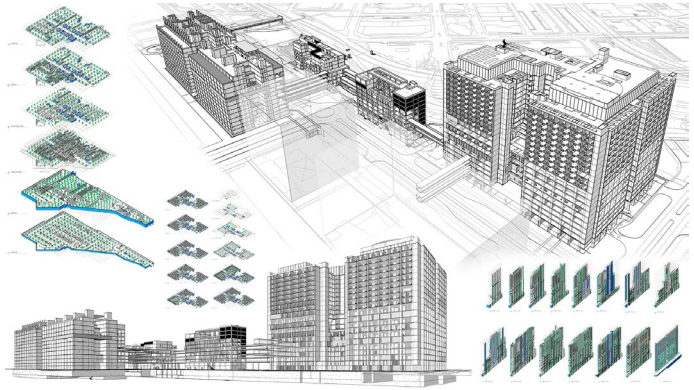
BIM Project

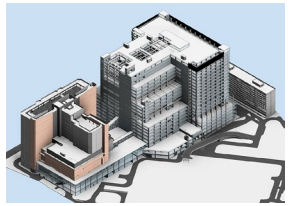
ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT LTD.

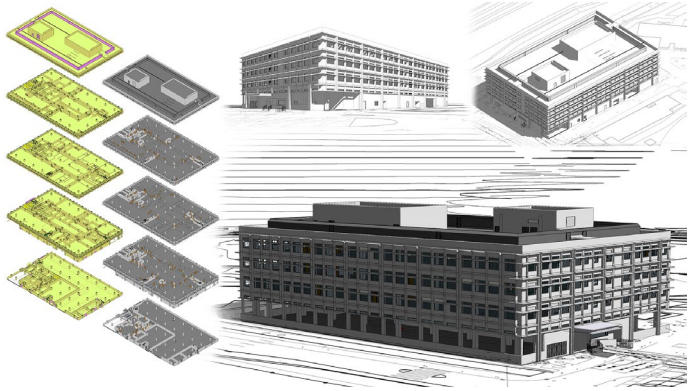


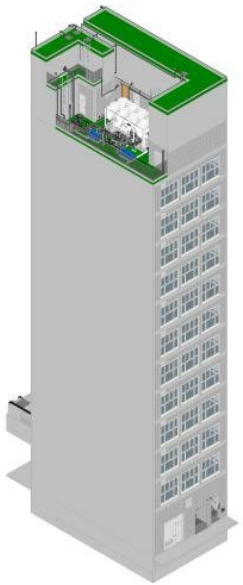




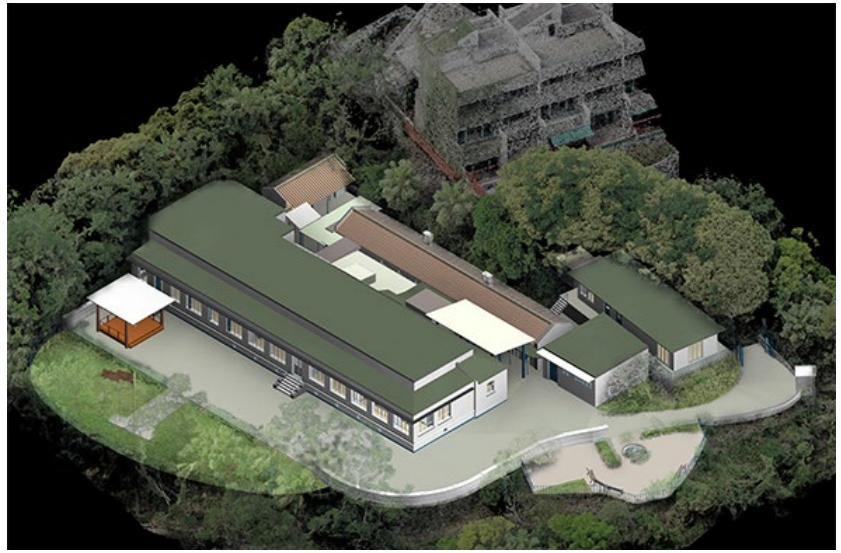


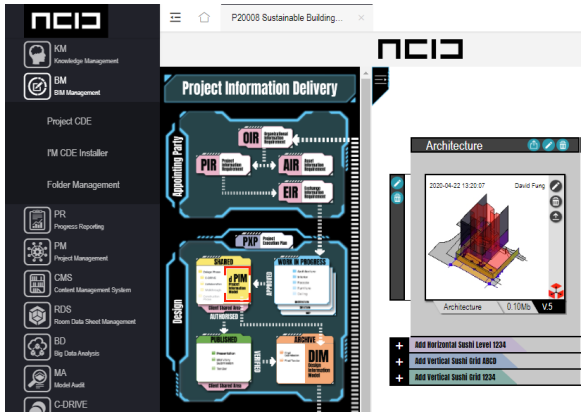


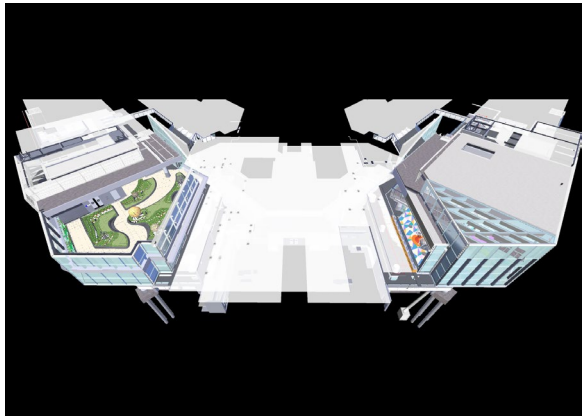


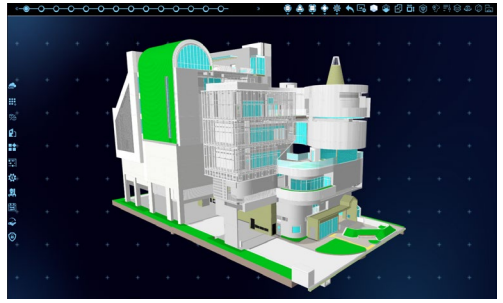


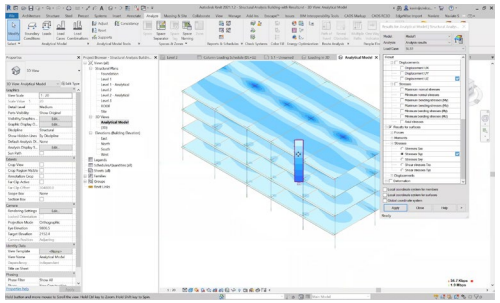
BIM Project

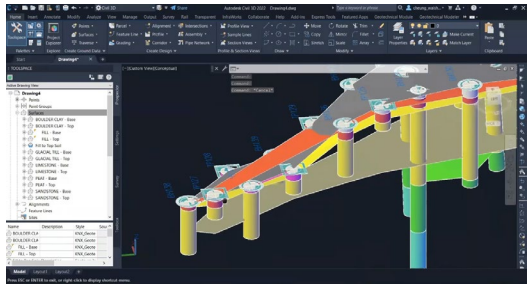


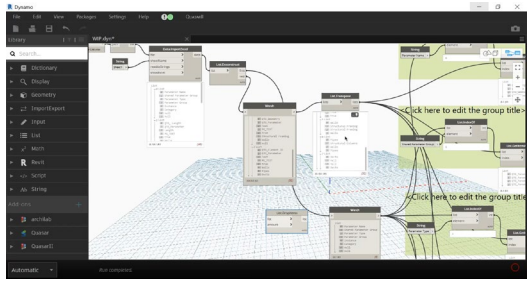

P20008 Sustainable Building...
KM
Knowledge Management
BM
BIM Management
Project CDE
I'M CDE Installer
Folder Management
PR
Progress Reporting
PM
Project Management
CMS
Content Management System
RDS
Room Data Sheet Management
BD
Big Data Analysis
MA
Model Audit
C-DRIVE
Project Information Delivery
Appointing Party
Design
OIR
PIR
AIR
EIR
PXP
DIM
Architecture
Add Horizontal Sushi Level 1234
Add Vertical Sushi Grid ABCD
Add Vertical Sushi Grid 1234



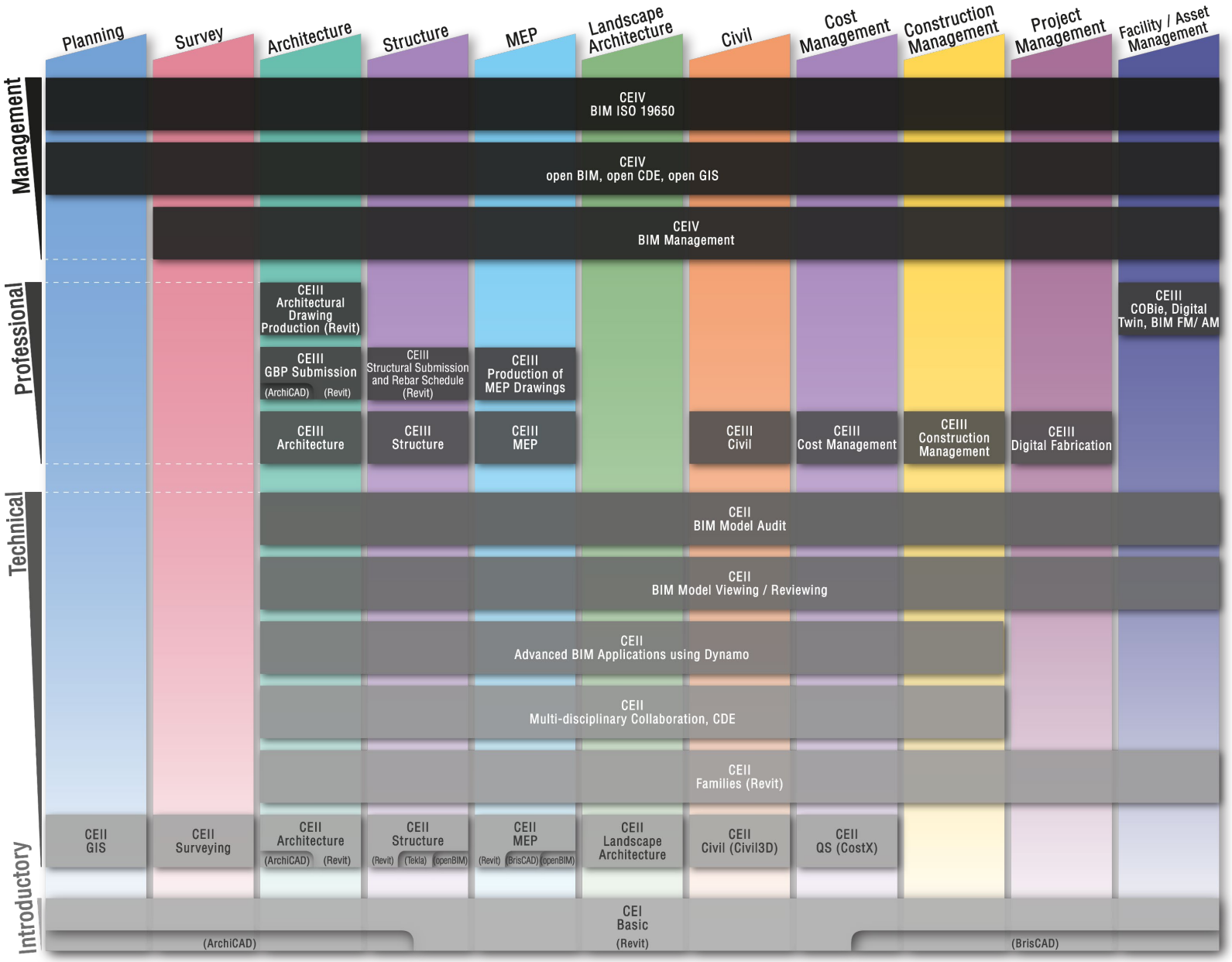








BIM Project



BIM Education Road Map

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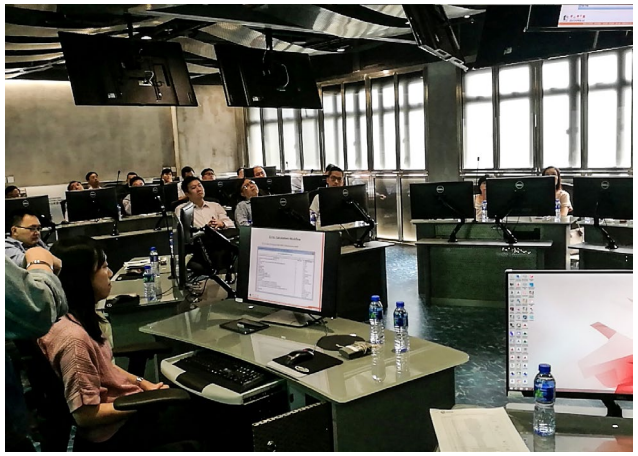
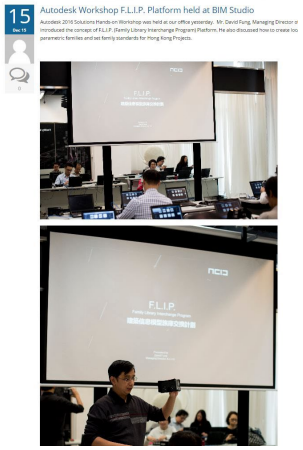
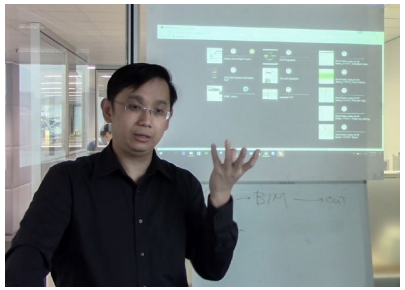
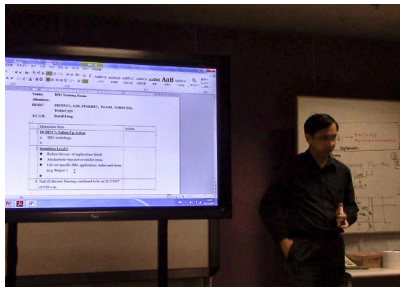
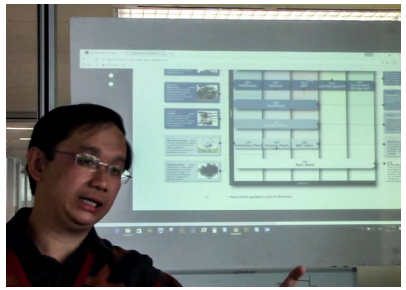
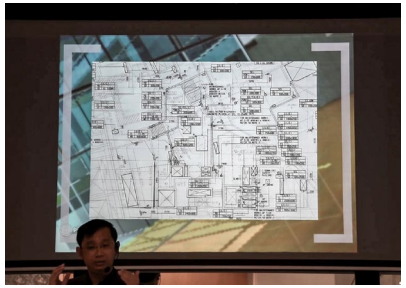


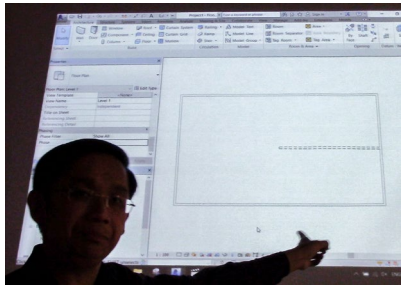


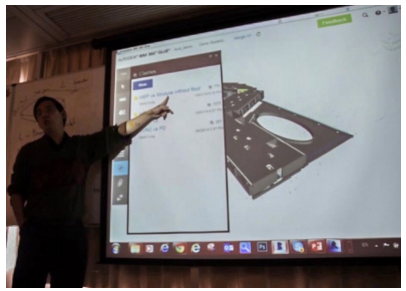


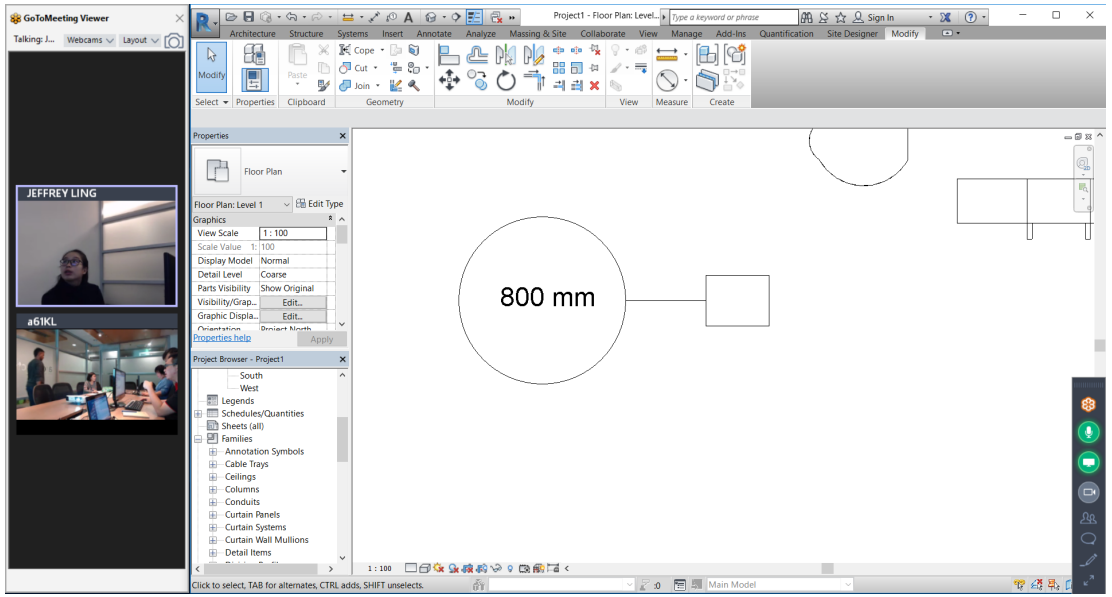












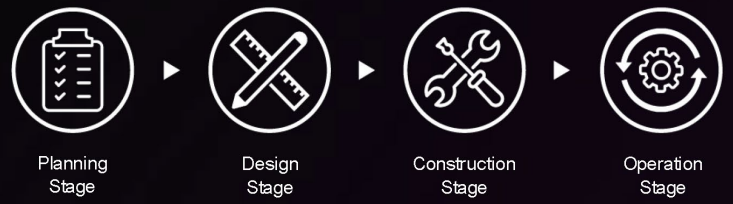
Training

ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT LTD.

Advanced Construction Information Development Limited

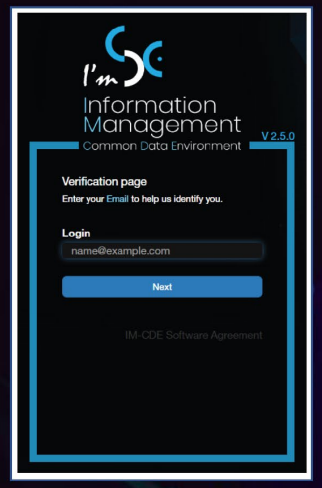
IM-CDE : Cloud, Mobile and Metaverse

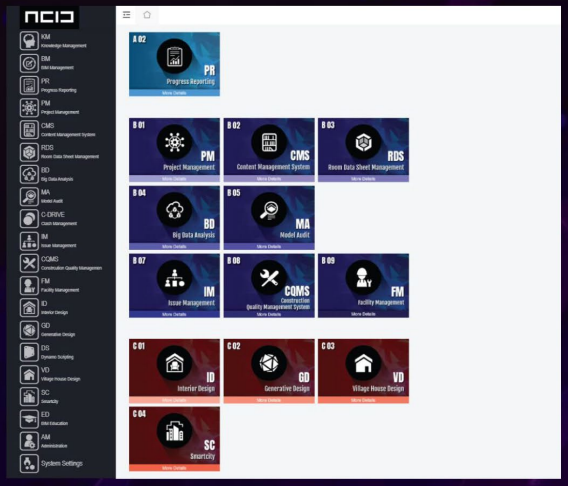
Information Management - Common Data Environment (IM-CDE)
is a central repository where construction project information is housed spanning from



A **FULL** Project Life Cycle Information Management Platform.

ISO 19650 Compliance with Block Chain Security





Contents of the IM-CDE are not limited to assets created in a 'BIM environment' and it will therefore include documentation, graphical model and non-graphical assets. In using a single source of information collaboration between project membersshould be enhanced, mistakes reduced and duplication avoided.

IM-CDE

imCDE mobile

MetaCDE

Web - Mobile - Metaverse

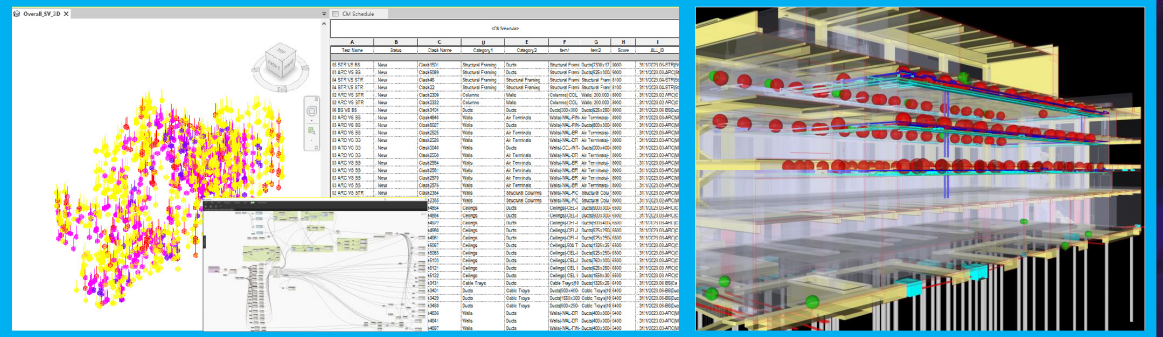
BIM Automation Arena: Software Application

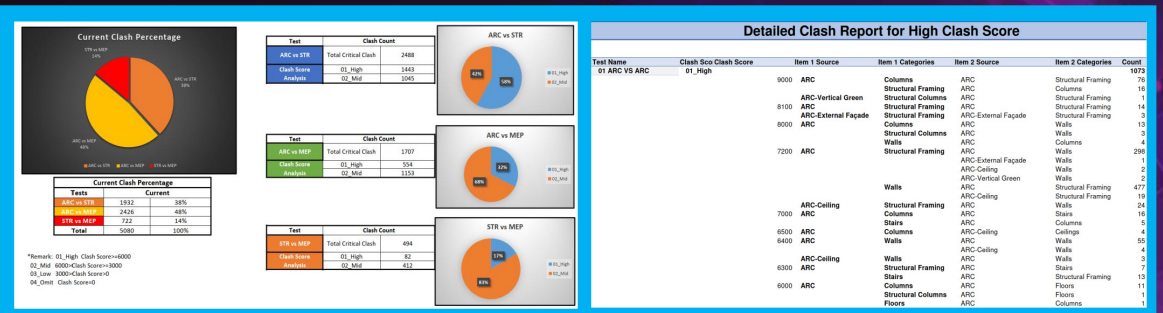
C-DRIVE (Revit, Navisworks): Dynamo
Sushi View (Revit,): Dynamo

C-DRIVE is applied in all our projects to enhance the coordination efficiency by prioritizing the clash. The results from C-DRIVE provide clear and detail analysis. All prioritized clash markers will be generated automatically and to be export to any platform for clash visualization purpose.

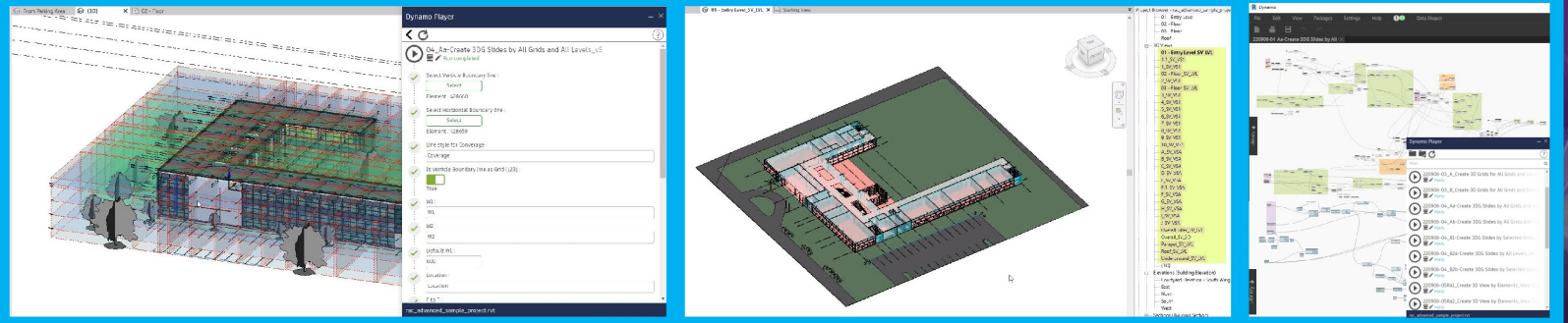
Sushi View is a semi-automatic program to prepare all 3D views according to grids and levels. This provides friendly camera angles for user and reduces the time in navigation in the meeting.

C-DRIVE



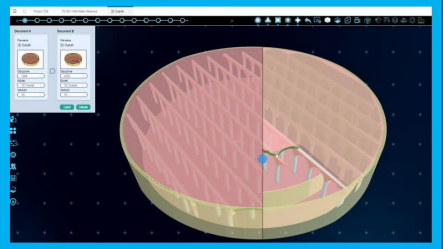


Sushi View
Setup for Navigation



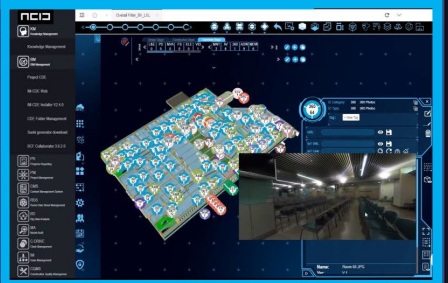
We never stop at model itself, but further **connect** all information in IM-CDE via **Information Connector (IC)**.

Model Comparison



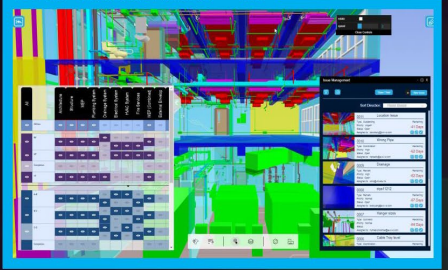
Asset Management - AM

Information Connector - IC

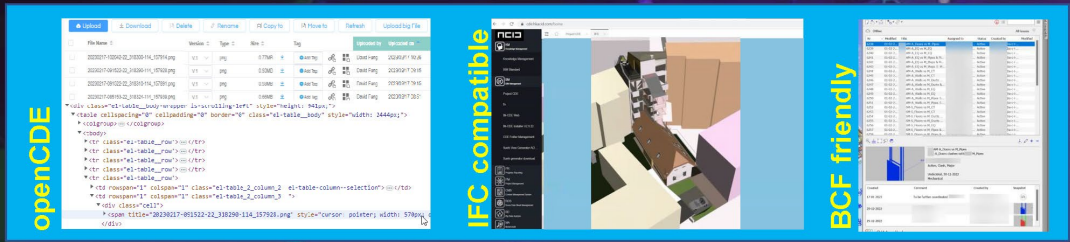


Facility Management – FM, BMS, IoT

Issue Management – IM



We are **openBIM** friendly



imCDE mobile
Login Page
Project List
Project Detail
Project Information Delivery
Folder Structure synched with IM-CDE
Direct Upload
Model Navigation

MetaCDE (Unreal Engine + Cesium ion): C++, C#, JSON

MetaCDE

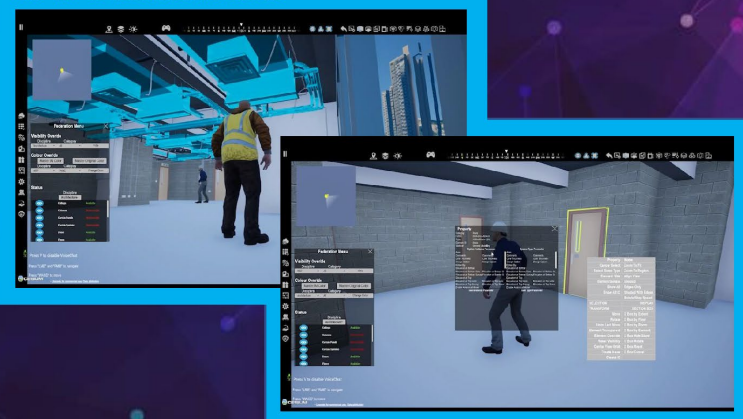
Experiencing BIM in Metaverse

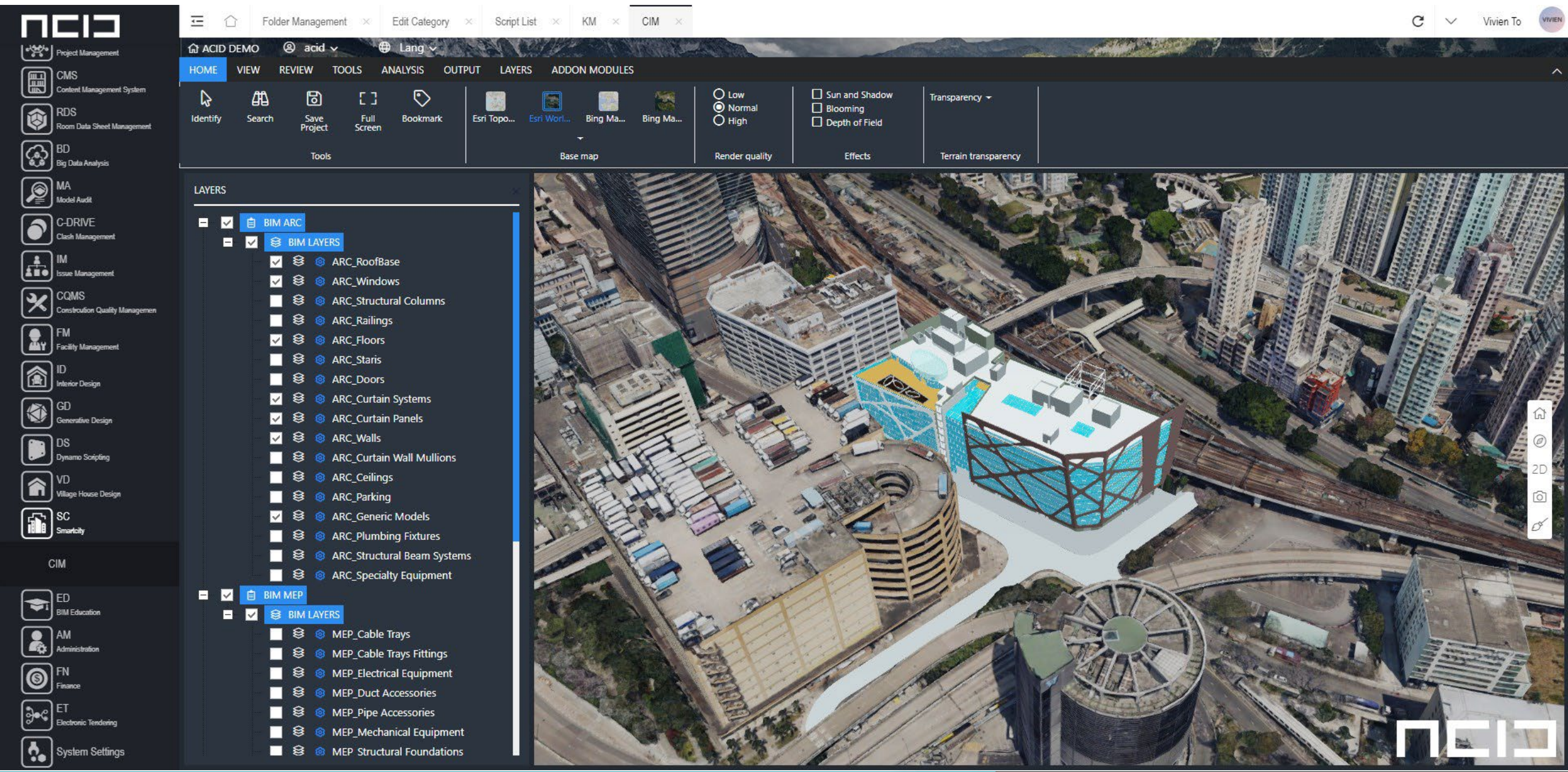
GIS & BIM Integration

Sunlight Analysis

Synchronization with IM-CDE Database and IC

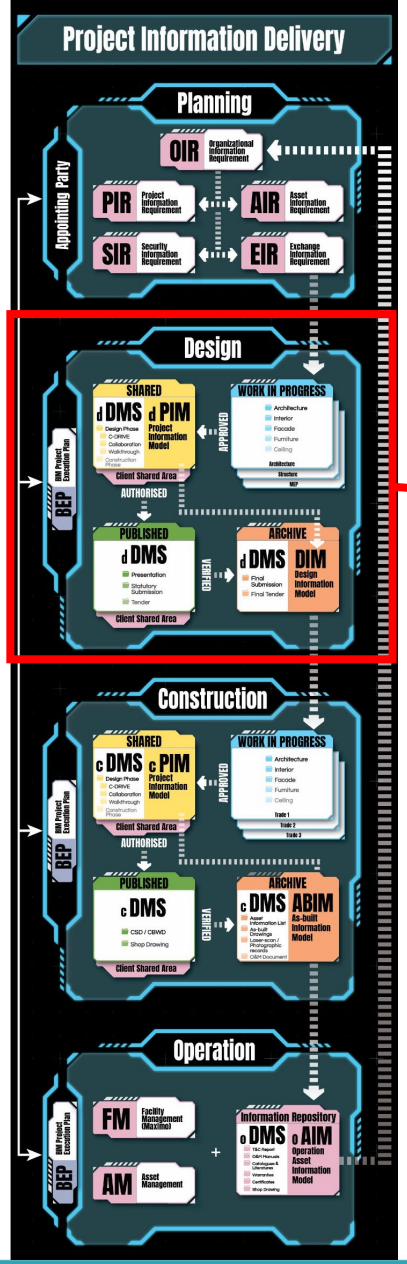
Meta Collaboration

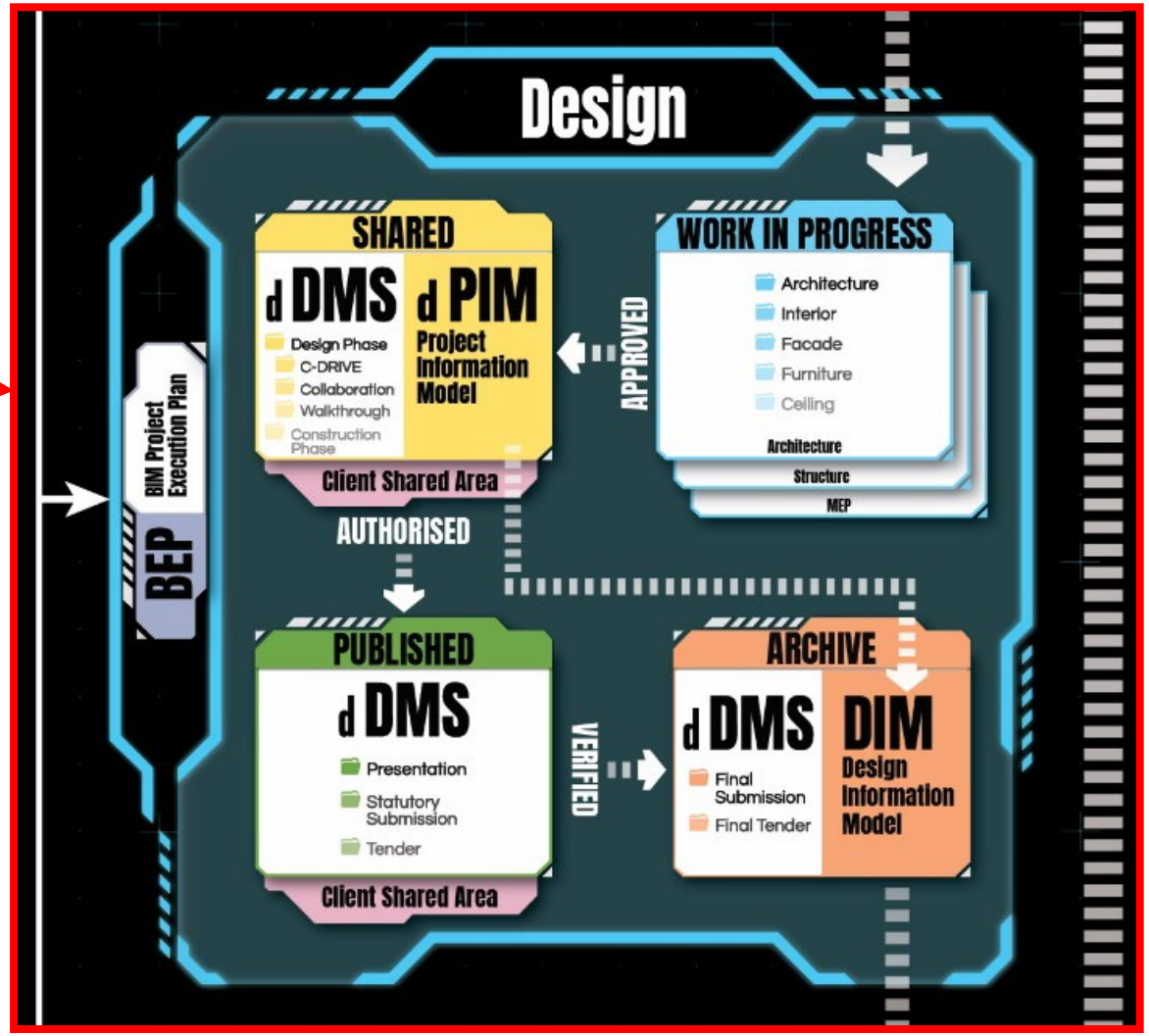




A.C.I.D. – Integration of BIM & GIS

ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT LTD.


Project Information Delivery
Planning
OIR
PIR
AIR
SIR
EIR
Appointing Party
Design
SHARED
dDMS
dPIM
Project Information Model
WORK IN PROGRESS
APPROVED
BIM Project Execution Plan
BEP
AUTHORISED
PUBLISHED
dDMS
VERIFIED
ARCHIVE
dDMS
DIM
Design Information Model
Client Shared Area
Construction
cDMS
cPIM
cDMS
ABIM
As-built Information Model
Operation
FM
Facility Management (Maximo)
AM
Asset Management
Information Repository
oDMS
oAIM
Operation Asset Information Model


Design
SHARED
dDMS
Design Phase
C-DRIVE
Collaboration
Walkthrough
Construction Phase
dPIM
Project Information Model
Client Shared Area
APPROVED
WORK IN PROGRESS
Architecture
Interior
Facade
Furniture
Ceiling
Architecture
Structure
MEP
BIM Project Execution Plan
BEP
AUTHORISED
PUBLISHED
dDMS
Presentation
Statutory Submission
Tender
Client Shared Area
VERIFIED
ARCHIVE
dDMS
Final Submission
Final Tender
DIM
Design Information Model

Contact

hongkong@a-c-i-d.com

+852 3468 5250

+852 3585 5599

A.C.I.D. – HK

hkacid.com

IM – CDE (Login)

cde.hkacid.com/login

IM - CDE (Website)

im-cde.com/por/MainPage

ACID BIM Studio

ACID BIM Studio

BIM Studio

A2, 35/F, TML Tower,

3 Hoi Shing Road, Tsuen Wan, Hong Kong

香港荃灣海盛路 3 號 TML 廣場 35 樓 A2

Thank you !