



# Executive Training Programme on BIM x GIS Integration

## Programme Objective:

This aim of this executive training programme is about the integration of the **Building Information Modelling (BIM)** and **Geographical Information System (GIS)**. The contents will cover how the openBIM and openGIS integration can support various data transformation, streamline the workflows and empower the AEC industry, ultimately to support the Smart City Development of Hong Kong. This course combines lecture and hands-on tutorial to learn BIM and GIS integration skills by practice, in 3 days.

## Upon completion, a fully engaged candidate will be able to:

- Understand the foundation concept of BIM and GIS;
- Discuss and evaluate the role and capability of openBIM and openGIS integration in the AEC Industry;
- Experience the integration techniques and workflows of BIM and GIS.

## About the Course:

**Duration:** 3 day (6 sessions for 24 hours)

**Time:** 09:00 – 18:00 (1-hour lunch)

**Venue:** BIM Studio, A2, 35/F, TML Plaza, 3 Hoi Shing Road, Tsuen Wan

**Class Size:** 20 – 28

**Language:** Cantonese and supplemented with English technical terms

**Pre-requisite:** Candidate should have successfully completed the buildingSMART Professional Certification (PCERT) program

## Course Instructors:



**Ar David FUNG** is a registered architect with over 32 years of architectural experience in Australia and Hong Kong. He has been using BIM for 27 years and applied this technology into building design, documentation and co-ordination, construction and facility management, establishing the most efficient way of working practices. David is the past Chairman of HKIBIM promoting BIM in HK and winner of the HK BIMer Excellence Awards 2014 organized by Construction Industry Council. He also has extensive experiences in BIM teaching, BIM implementations and establishing BIM standards. He won numerous BIM Awards throughout the years and speakers for conferences and forum. He is now the Buildingsmart International Committee Chairman of HKABAEIMA.



**Prof. Paulina WONG** is currently an Associate Professor and Head at the Lingnan University. She is an environmental geographer, with over 15 years of industrial/academic research experiences in New Zealand, Hong Kong and USA, mainly on ecological and practical applications of GIS, AIoT and GeoAI Modelling. She is a certified GIS Professional. She also has extensive GIS professional training experiences for professional, corporate, and government sectors. Currently, Paulina serves as the council member, honorary secretary and committee member of several professional associations: HKGISA, HKABAEIMA, Smart City Consortium and International Chamber of Sustainable Development (ICSD) to foster GIS, OpenBIM, ESG and Smart city development.



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## Course Outline (6 Sessions):

01	<p><u>Lecture:</u> Course Introduction and Welcome Note; Introduction of BIM &amp; GIS – Policy, Need, Requirement, Local &amp; International Standards – Institutes, Practitioners, Statutory Bodies</p> <p><u>Tutorial:</u> BIM Model hierarchy, discipline and Coordinate Setup</p>
02	<p><u>Lecture:</u> BIM in Design, Analytical, Statutory Submission, Fabrication, Construction and Handover Value, Limitation and interoperability, CDE to open CDE, BIM to open BIM</p> <p><u>Tutorial:</u> BIM Properties and parametric, Single Source of Truth, Drawing Generation</p>
03	<p><u>Lecture:</u> Introduction to GIS, CSDI and spatial applications</p> <p><u>Tutorial:</u> Basic operation of ArcGIS Pro and spatial analysis</p>
04	<p><u>Lecture:</u> Open-source GIS, advanced special analysis and raster data analysis</p> <p><u>Tutorial:</u> Site search and baseline-review for local planning; Network analysis for facility planning and service area analysis</p>
05	<p><u>Lecture:</u> Integration BIM x GIS</p> <p><u>Tutorial:</u> Worked Example of BIM x GIS Integration</p>
06	<p><u>Lecture:</u> Use cases and examples</p> <p><u>Tutorial:</u> 3D-GIS for visual impact analysis; City Information Modelling (CIM) analysis</p>



Supporting Organization:



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