



**The Hong Kong Polytechnic University  
Research Institute for Land and Space (RILS)  
Public Lecture Series  
Development of a 3D Digital Map in Hong Kong**

**Date & time:** Wednesday 6 March 2024  
2:00pm – 3:15pm

**Speaker:** **Mr Cheung Wing-kai, Alvin**  
Senior Land Surveyor  
3D Mapping Project Section  
Lands Department  
Hong Kong SAR Government

**Moderator:** **Prof. Xiaoli Ding**  
Director of RILS

**Location:** Online via Zoom

**Co-organisations:** China Harbour – PolyU Joint Research Centre for Land Development  
Research Centre for Artificial Intelligence in Geomatics

**Registration link:** Please click [here](#)

Attendance is free.  
An email proof of participation will be sent to participants upon request.

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# RILS Public Lecture Series

## Development of a 3D Digital Map in Hong Kong



**Mr Cheung Wing-kai, Alvin**

### **Presentation Title**

Development of a 3D Digital Map in Hong Kong

### **Abstract**

To support the development of Hong Kong into a smart city, the Lands Department has started the production of a three-dimensional (3D) Digital Map. Compared with traditional two-dimensional maps, 3D digital maps provide more realistic and extensive digital map data to help with geospatial data analysis and applications. The 3D digital map can present Hong Kong's urban landscape in more detail. Map users can study the appearance of buildings from different angles, measure their dimensions and retrieve relevant geographical information.

The 3D digital map dataset includes the territory-wide full-fledged 3D visualisation map, the 3D indoor map of 1250 buildings and the territory-wide 3D pedestrian network. The datasets have been published for public use in phases since 2021.

The speaker will introduce the Lands Department's 3D digital mapping project and share with the audience current progress and roadmap in developing 3D digital maps in Hong Kong.



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## Development of a 3D Digital Map in Hong Kong

### Biography

Mr Cheung Wing-kai, Alvin is currently the Senior Land Surveyor of the 3D Mapping Project Section in Lands Department. He is a Chartered Land Surveyor and has over 20 years of geomatics professional experience in supervision of projects in both private and government sectors. He is now leading a team to produce the territory-wide 3D Digital Map in Hong Kong.

### Programme

Time	Title
2:00pm – 3:00pm	<b>Development of a 3D Digital Map in Hong Kong</b>  <b>Mr Cheung Wing-kai, Alvin</b> Senior Land Surveyor 3D Mapping Project Section Lands Department Hong Kong SAR Government
3:00pm – 3:15pm	<b>Q &amp; A Session</b>