



STEM Talk (Level I)

Smart City and 3D Mapping in HK

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Application Deadline
16 December 2022
12:00 noon

Intended Learning Outcomes

Upon completion of the programme, participants should be able to:

1. enhance their understanding of the map;
2. understand the world geographically;
3. be equipped with a wide range of geospatial technologies;
4. develop their problem-solving skills through the application of geospatial technologies.



◆ Introduction

What is a map? We perceive that any map is represented on a piece of paper with schematics, annotations, and legends. But today, the nature of maps has evolved to the 3D computer model and even 4D (changes with time), especially when the idea of a smart city is realized with the development of geospatial technologies. How did geospatial technologies develop, and how did they help?

This talk will introduce a wide range of geospatial technologies, such as total stations, laser scanning, photogrammetry, remote sensing, geophysics, hydrography, and geographic information system. We hope this STEM talk will give the audience a new perspective on maps and the technologies that shape them.

◆ Schedule

Session	Date	Time	Venue
1	23 December 2022	10:00 a.m. – 11:00 a.m. (Talk) 11:00 a.m. – 12:00 noon (Lab visit)	Z212, 2/F, Block Z, The Hong Kong Polytechnic University (Map)

*The venue is scheduled premises under the Cap. 599F, all persons entering the venue, except for exempted persons, are required to scan the “LeaveHomeSafe” QR code and comply with the requirement of the Vaccine Pass. For details, please refer to the latest Government announcement in a timely manner.

◆ Target Participants

- S3 – S6 HKAGE student members in 2022/23 school year only
 - Class size: 50
- * First-come-first-served.

◆ Pre-requisite

No special prerequisites are needed.

◆ Medium of Instruction

English with English handouts

◆ Certificate

E-Certificate will be awarded to participants who have attended the talk.