

# 3D Pedestrian Network and 3D Visualisation Map datasets made free to public

The Lands Department announced today (December 3) that the 3D Pedestrian Network and 3D Visualisation Map datasets are now available to the public for free.

In line with the Smart City initiative of promoting walkability and connectivity, the 3D Pedestrian Network (the Network) was designed to support navigation services and meet the special needs of people with physical disabilities. The key characteristics of the Network include:

(a) Based on the dataset developed by the University of Hong Kong, the Network connects footways for over 2 000 footbridges, 400 subways, and the unpaid areas of all MTR stations. Footways supporting wheelchair access at over 2 100 public facilities and 1 300 public access lifts are also mapped for people with physical disabilities.

(b) Open source data from the Transport Department on different types of crossings are also incorporated into the Network to facilitate a safe footway routing.

(c) Height information on the Network provides the vertical profile along the footways, thereby facilitating a wide range of applications ranging from simple routing to walkability studies. The gradient values of the footways generated can greatly improve the accuracy of the estimation of travelling time in the development of navigation applications. The 3D nature of the Network will support innovative uses like 3D visualisation of pedestrian routes and navigation with Augmented Reality or voice guidance.

The Transport Department's HKeMobility mobile app has adopted the above Network to enrich mobility information.

The 3D Visualisation Map shows topographical and exterior features of terrains, buildings and infrastructures that support visualisation and other geospatial applications. The dataset is created mainly by aerial imageries taken in 2017 and 2018 covering the whole territory. The dataset covering Tsuen Wan, Kwai Tsing, Tai Po and North was released earlier this year. Together with the release of data for Yau Tsim Mong, Sham Shui Po, Kowloon City, Wong Tai Sin, Kwun Tong, Yuen Long and Tuen Mun, the dataset now covers more than 23 000 hectares of land in Hong Kong. The 3D Visualisation Map of the remaining districts will be released in phases by the end of 2023.

The two spatial datasets in machine-readable formats are now available for previewing and downloading on the Hong Kong GeoData Store ([geodata.gov.hk](http://geodata.gov.hk)) and the Public Sector Information Portal ([data.gov.hk](http://data.gov.hk)).