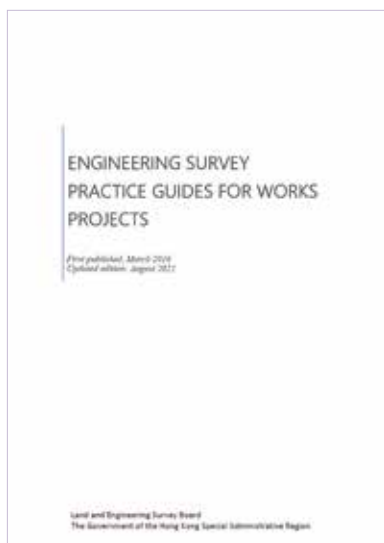




### Land Surveying Division

Sr Koo Tak Ming LSD Council Chairman

## Engineering Survey Practice Guides for Land Surveyors



Engineering Survey Practice Guides for Works Projects

The *Engineering Survey Practice Guides for Works Projects (ESPG)*, recently issued by the Development Bureau, present a recommended standard of good engineering survey practices for reference by land and engineering surveyors who carry out surveying work for consultants, contractors, and Government departments.

The *ESPG* cover different kinds of engineering survey work, namely:

- Survey data and controls
- Global navigation satellite system surveys
- Record surveys
- Setting-out and check surveys
- Monitoring surveys
- Road alignments
- Earthwork computations
- Hydrographic surveys
- Drainage record surveys
- Water mains record surveys
- Tree surveys

- Unmanned aerial vehicle surveys
- Laser scanning surveys
- Building information modelling (BIM)

Surveyors should read the *ESPG*, along with the *Engineering & Associated Consultants Selection Board Handbook*, *Project Administration Handbook for Civil Engineering Works*, the general specifications and particular specifications of consultancy briefs, and contracts for works projects.

The *ESPG* are available online at:

<https://tinyurl.com/yfwem9sq>



## Application of GIS to Urban Renewal Tasks

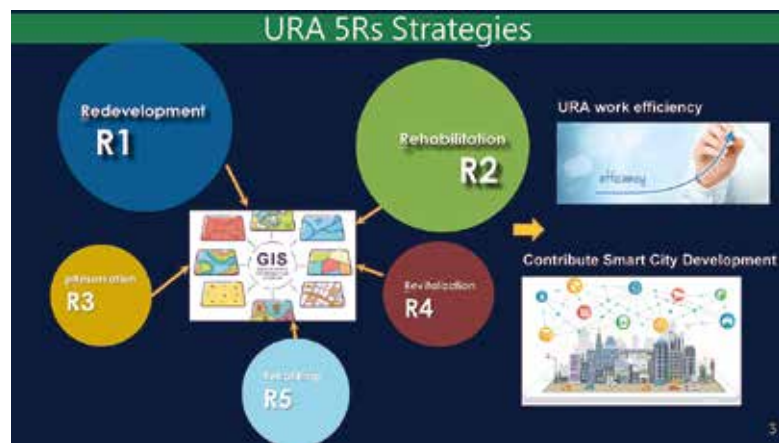
Sr Eric Poon, Executive Director of the Urban Renewal Authority, delivered a CPD on the tasks for rejuvenating older urban areas by way of Redevelopment, Rehabilitation, pReservation, Revitalisation, and Retrofitting (the 5R strategies).



Q&A Session by Sr Paul TSUI and Sr Eric POON



Question from the Floor



The 5Rs



Souvenir Presentation by Sr Paul TSUI to Sr Eric POON



The Common GIS and URIS's 15 Applications

By using the urban renewal information system (URIS), 3D intelligent maps (3D iMap), and common spatial data infrastructure (CSDI), surveyors are reinventing the process of urban renewal and have escalated this practice to a new level on the way to smart city development.

The system demonstrated the joint efforts by surveyors of various specialties, namely BS, GP, and LS, in making the task successful. The URIS improves time efficiency and achieves highly comprehensive results from the geospatial data/geo-coded textual data to fulfil the 5Rs' objectives.



The Major Components that Contribute to a Smart District and Their Applications



Steps to Building a 3D HD Mesh Model via URIS



Use of BIM-GIS Integration in URIS



Souvenir Presentation by Sr Dr Lesly LAM to Sr TM KOO



Sr Michael WONG and Sr TM KOO during the Q&A Session

## Charting Hong Kong's Waters

Oceans constantly change partly due to natural forces – waves, tides, and currents – and partly through human activities. The seabed's topography also constantly changes and mapping it is a never-ending, costly, time consuming, and laborious task.

Hong Kong is fortunate to have a sheltered natural harbour, which provides good access and a safe haven for vessels that call from around the world. To ensure navigational safety, the Marine Department's Hydrographic Office (HO) surveys Hong Kong's waters and produces nautical charts for mariners.

A recent CPD on this topic reviewed the charting of Hong Kong throughout its history. Also examined were the IHO standards adopted for hydrographic surveys (S44) and chart-making for both paper (S4) and electronic navigation charts (S57). Last to be discussed were the modern methods of acquiring hydrographic

survey data and the future challenges of keeping abreast of new IHO Standards, developing multi-beam-related technologies, and the way forward for the next generation of ENC production.



IHO Standards S44 and S57



IHO Standard S100 World Model

I hope that the talk updated members on the latest developments in hydrographic surveys for charting in Hong Kong.

### “Sr” - The Abbreviation for Surveyor

“Sr” is adopted as the abbreviation for surveyor by The Hong Kong Institute of Surveyors. The pronunciation for “Sr” is “surveyor”.

In order to promote its use to the public, corporate members are encouraged to adopt the abbreviation “Sr” in front of their English names in their official communications. Likewise, corporate members are also invited to address themselves as “測量師” after their Chinese names.

### “Sr” - 測量師的英文簡稱

香港測量師學會採納「Sr」作為「Surveyor」(測量師)的英文簡稱。其發音與 Surveyor 相同。

為向公眾宣傳「Sr」的用法，我們鼓勵正式會員在日常生活中，在英文名字之前加上「Sr」。至於中文方面，我們亦會邀請正式會員在其中文字之後加上「測量師」。

### HKIS Souvenir

#### HKIS Car Badge

A premium quality HKIS Car Badge is available now for you to decorate your car. Featuring HKIS' signature purple colour and shiny chrome, this nickel-plated car badge comes with two screws for easy installation.

Each retailed at **HK\$180.**



For enquiries and ordering, please contact our reception desk at 2526 3679 or visit [https://hkis.org.hk/en/hkis\\_shop.html](https://hkis.org.hk/en/hkis_shop.html)