

# Enrichment of Land Information Database for Smart City Development

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**Key words:** Geoinformation/GI; GSDI; Standards; land information; land administration; database; CSDI; smart city

## SUMMARY

A reliable and well-kept land information database is crucial for implementing an effective and efficient land administration and management system which has been recognized by the World Bank as a fundamental infrastructure for proper functioning of land markets. The Survey and Mapping Office of the Lands Department (LandsD) of the Hong Kong Special Administrative Region Government has been maintaining a Land Information System (LIS) comprising a departmental-wide land information database to support the daily operations of land administration and management in Hong Kong. However, some fundamental information of land parcels, such as type of grant, lease term, user restriction, development conditions (e.g. gross floor area, building height, number of storeys, site coverage, number of units, etc.), restriction on alienation, etc, is often incomplete in the LIS, causing inefficiency in searching land parcel information and difficulty in providing timely and accurate analysis to support the day-to-day land administration and the development of the Common Spatial Data Infrastructure (CSDI) as one of the smart city initiatives in Hong Kong. In view of this, LandsD has initiated a data enhancement project to enrich the existing land information database since 2018 to improve the quality of LIS. This paper outlines the key activities, progress, and achievements of this project.

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