

# **A Participatory Model for the Assessment of Cadastral Survey Systems – Case study report of Hong Kong**

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**Key words:** Cadastral survey system; performance assessment; participatory approach; benchmarking

## **SUMMARY**

Performance-review facilitates an organization to meet its user demands and achieve planned goals. Evaluation on the performance of a cadastral survey system helps decision makers understand the current development of the cadastral survey industry and the way forward to enhance its performance. Previous evaluation and assessment datasets for the Hong Kong cadastral survey system are formed by readily available information and long-time field experiences of the assessor himself. There is a lack of “peer-review” design to incorporate industry practitioners’ judgements in local cadastral survey evaluation projects. This paper introduces a research project which aims to measure the performance of individual cadastral survey system world-wide from practitioners’ opinions of individual system. A structured multi-criteria assessment model based on the methodology of Analytic Hierarchy Process (AHP) has been established and then applied to measure the system performance in a holistic way. The case study of the Hong Kong cadastral survey system shows the capability of the designed assessment model and the applied participatory approach in investigating the development of individual cadastral survey systems. In addition, the assessment criteria set is not fixed. Different systems world-wide may adjust their evaluation criteria to better meet the design of their own cadastral survey systems. Meanwhile, those model normalized performance scores can still be valid as a set of international benchmarking elements to share understandings on the development cadastral survey systems and shed lights on areas for improvement.

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