

Cadastral data tomorrow: What do the users need?

Karolina Itäinen, Pauliina Krigsholm and Kirsikka Riekkinen (Finland)

Key words: Cadastre; Land management; future pathways

SUMMARY

Cadastral systems are expected to adapt to the many societal changes in their operational environments, including digitalization, climate change, and geopolitical changes. Often the development of cadastral systems is considered from the perspective of cadastral authorities and the core land administration system. However, to fully utilize the potential of cadastral systems and the data they contain, the variety of uses of cadastral data and needs of various user groups should be considered. To explore the possible development paths for cadastral data, we interview Finnish cadastral data users from both public and private sector to determine, what their core needs regarding cadastral data are and how they expect these needs to change in the next ten years.

The results indicate that increasing regulation, technological development, and safety concerns are expected to have a significant impact on future cadastral data. These drivers highlight the increasing importance of both up-to-date data, and georeferenced data. Additionally, emerging uses of artificial intelligence may lead to expectations for availability of larger quantities of data for a cheaper price, to facilitate the training of machine learning models. The relevance of high quality, up-to-date cadastral information is expected to increase due to tightened regulation.