

Using KPIs to measure and achieve data quality of cadastral data

Leikny Gammelmo (Norway)

Key words: Access to land; Cadastre; Digital cadastre; e-Governance; Land management; Legislation; Data quality; KPI; Digitalization; Strategy

SUMMARY

Cadastral data is an important part of many processes, preferably digital processes. In 2021, we wanted to address that the cadastre is not of the calibre to fulfil its purpose as part of the land registration system in a digital world and play a key role in land management. We suggested different quality dimensions and parameters for the use of measuring data quality. Many others, thru the years, also state the need of improved data quality, the importance of the cadastre and need of standards and ways of measuring.

This year we will present what we can say is one-step forward to work in a unified direction in Norway, when it comes to the quality of cadastral data. The objective of this paper is to define key performance indicators for measuring quality of cadastral data. This is one of many results from the project Masterplan cadastre and a task given to the Norwegian Mapping Authority in the Award Letter from the Ministry of Local Government and Regional Development. The task in 2022 is to achieve a measurable quality improvement of cadastral data.

We have developed eight KPIs and target figures of where we want to be in the end of 2025. The KPIs measure the quality of the three parts of the cadastre and with the following main topics:

- Cadastral unit's register with boundaries and parcels and within the time limit set in the regulations.
- Named road addresses are the preferred addresses in the cadastre.
- Buildings register within the time limit and with the data set in the regulations.

Using KPIs to measure and achieve data quality of cadastral data (11647)
Leikny Gammelmo (Norway)

FIG Congress 2022
Volunteering for the future - Geospatial excellence for a better living
Warsaw, Poland, 11–15 September 2022

The KPIs are all build up with a quality dimension, measuring parameters, description on how to measure, a description/name of the KPI and a target figure.

To improve the quality different tasks most be set into force. We ended with a long action plan containing possible tasks. To decide which one to use, the goals of the data quality strategy and the KPIs gives the framework and direction.

In 2022 the work of operationalization of the data quality strategy starts. This paper present the KPIs. Furthermore, their quality dimensions and parameters, status and how we measure. It also give examples of how to connect tasks to improve the data quality with the KPIs and strategic goals. Together this will answer how we have started the journey to achieve a measurable quality improvement of cadastral data.

Using KPIs to measure and achieve data quality of cadastral data (11647)
Leikny Gammelmo (Norway)

FIG Congress 2022
Volunteering for the future - Geospatial excellence for a better living
Warsaw, Poland, 11–15 September 2022