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Using KPIs to measure and achieve data quality of cadstral data

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Tasks from The Ministry*

2018:

Some key data – such as real property, building and address data from the cadastre – must be of very high quality, since many processes are dependent on this data.

Establish an overall quality strategy to meet priority needs through an improvement process, based on development of business cases.

2022:

Choose KPIs for focus and report to the Ministry

*Ministry of Local Government and Modernisation, from 2022 named Ministry of Local Government and Regional Development

Strategy for improving data quality of the cadastre

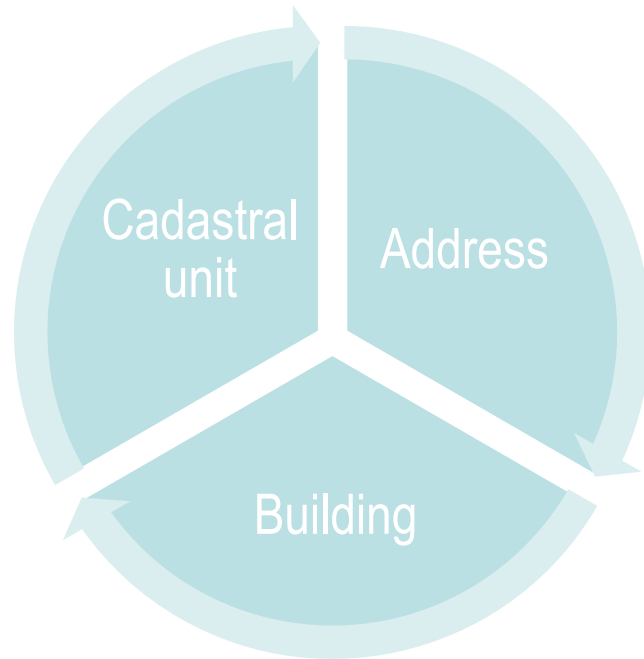
Ambition:

The cadastre have the right data content and data quality necessary for processes that use cadastral data and for user needs.

Three strategic goals:

1. A common practice for cadastral registration in all municipalities.
2. Improving the quality of priority areas or data fields.
3. Streamlining the processes for collecting and updating cadastral data.

Measuring cadastre quality



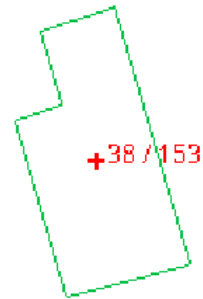
- In the search of a way to measure the data quality we need to cover the three parts; cadastral units, addresses and buildings.
- We need understandable descriptions and meaningful target figures.
- We wanted to develop Key Performance Indicators (KPI) for this purpose.

Key Performance Indicators

- KPIs represent a set of measures focusing on those aspects of performance that are most critical for success.
- KPIs can be something entirely new and different
- Performance is a statement of results compared to a goal, target, or standard
- A KPI is what we want to pay attention to so we can gauge the "health of" the data quality and the right KPIs are said to be "the ones that measure progress toward a specific mission – not just whatever measurement is available"

- The indicators in our case should describe the quality of cadastral data and be possible to measure
- The KPI development in our case start with our strategy and the objectives we are aiming to achieve.

KPI M5 Parcel of cadastral units has property boundaries, not fictitious boundaries



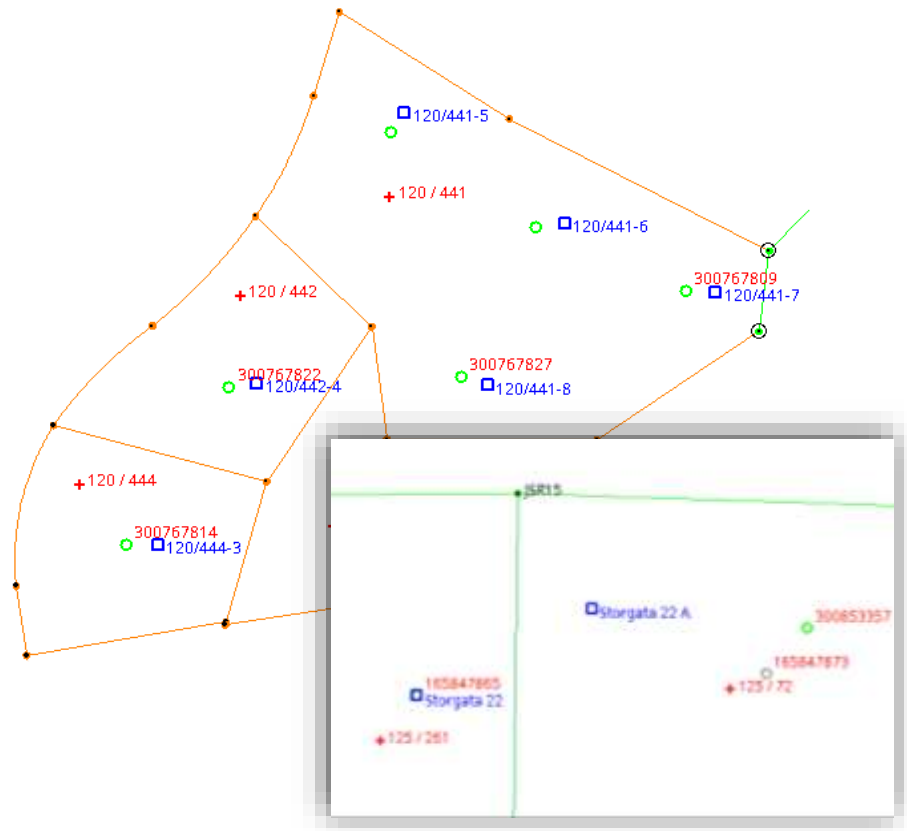
Quality dimension: Accuracy

Parameters and how to measure:

Existing cadastral units with only fictitious boundaries.



KPI A1 Addresses must be given by using named road address



Quality dimension: Completeness

Parameters and how to measure:

Proportion of road addresses, measured by using total number of road addresses and cadastral addresses

Chosen KPIs for focus and report to the Ministry of Local Government and Regional Development and target figures of 2022

KPI		Status 1 January	Status 1 July	Target figures
M2	Implementation of «MUF» is done within the timeframe regulated by law	32 %	28,6 %	28 %
A1	Addresses must be given by using named road address.	97,6 %	97,9 %	98 %
B1	Data on areas in buildings, as demanded by law, shall be completed for buildings registered after 1 January 2010.	BYA: 76,5 % BRA: 92,5 %	89,2 % 95,2 %	90 % 95 %

How to choose the tasks to improve cadastral data?



To improve the quality different tasks must be performed. 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 give the framework and direction.

Guidelines, reports and other tasks by the Norwegian Mapping Authority



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Main page of data quality



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Registrering av matrikkelen

Registrering av matrikkelen

Guideline on how to register data in the cadastre



Matrikkel-podden

Podcast



Matrikkel-mandag

Digital meeting arena

Thank you for your attention!

I'll be happy to get your feedback on the Congress or by email
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