

The Cadastral Map of the Netherlands Improved

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SUMMARY

Although the Dutch Cadastral Map does fit the designed goal, namely to be an index to the registration, 100 % complete and topologic correct, the defined geometric quality of several decimeters don't seem to be enough in a future where people want to zoom in and establish the exact location of their boundaries themselves. Also the uncertainty of the exact size of the parcel might become more and more a problem. Because of this Kadaster has started a research to bring the exact location information that is stored in millions of field documents to the map and to generate and show more metadata about the geometric quality.

We intend to do this by creating a much richer database management for the surveying data and the map, trying to extract measurement data from historic, analog documents and recalculate the map respecting each individual measurement.

We already found out that modern, to GNSS-reference systems connected measurement files can be combined with the map, and by combining all kind of files a lot of new information can be extracted. We are planning to build in as many automatic checks in the system as possible for both quality and efficiency reasons. The moment this article is written we have the first, promising results in our search to a way to automatic extract data from analog field sketches, but we are aware of the complexity of it and take into account to do a lot of work manually (if we decide so).

We already learned from it that good communication of geometric quality is important as a service to the public.