

Improving Cadastral Quality Management as a Foundation for Citizen's Trust

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SUMMARY

Cadastral datasets often suffer from quality issues, common issues are demonstrated from publicly available datasets and include: topological issues, misalignment, attribution blunders, measurements blunders and poor (or unknown) spatial accuracy. For authoritative cadastral data to be adopted, it must be easily accessible, current and provide quality metrics to citizens and stakeholders.

Different parcel types (or 'RRR') should have different properties and behavior which is enforced by a configurable rule engine. Errors are created when the rules are executed to produce a clear operational pictures and metrics of the issues at hand. Each error type can have a set of predefined fix methods that can be applied automatically to thousands of errors. More complex issues can be addressed by providing a step by step workflow. Certain errors can be marked as exceptions for maximum flexibility.

The system should also be able to prevent bad data from being created in the first place without be too constrictive. Finally, the cadastral data, together with the issues, is shared with citizens and stakeholders in real time as a visual map that can be consumes on any type of client: desktop, web and mobile devices.