

# Multidimensional Cadastral System in Germany

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## SUMMARY

These days economy, science and administration have an increasing demand for official three-dimensional spatial information (3D-geodata) as a base for multiple applications. The surveying and mapping administration in Germany has accepted this demand as a challenge to develop and realize sustainable conceptions for 3D-geodata, focusing on fast and economic solutions. In this context, national and international standards, infrastructures and activities had to be considered. The German AAA® cadaster standard takes into account the international standardization of ISO and OGC to include 3D-geodata.

During the last years the information systems of surveying and mapping and cadaster were increasingly focusing on demands for the fourth dimension, which means the time component. Looking back to historical situations is needed by several applications such as environment protection, urban planning, disaster management and cadastral inquiries during disputes at court. The fourth dimension (life cycle information) is now an integral component of the new German cadastral information system and will be explained in the full paper as well as in the oral presentation.