

Engineering Geodesy – Definition and Core Competencies

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SUMMARY

This article summarizes the discussion of the self-conception of engineering geodesy within the respective section of the German Geodetic Commission. It presents engineering geodesy by means of its tasks, methods and characteristics as an application-oriented science whose research questions often arise from observed phenomena or unsolved practical problems. A fundamental characteristic is the professional handling of geometry related problems taking into account the economic principle and realizing end-to-end quality assessment from the planning stage and the measurements to data processing and interpretation. The current methodical developments are primarily characterised by the increasing integration of measurement and analysis into challenging construction, production and monitoring processes as well as by the transition to spatially continuous methods. We conclude this paper with a new definition of the discipline.