Module name	**GeoData infrastructures**
Module number	CMS-TRK-ED5
Senior Lecturer	Prof. Dr. Lars Bernard lars.bernard@tu-dresden.de
Qualification objectives	Students have an in-depth overview of spatial data infrastructures (GDI) and related technologies. They shall have methodological competence in the development of geospatial information services and in the use and adaptation of related software products.
Contents	The content of the module includes organisational and technical concepts of GDI, interoperability for geospatial information, and the development of GDI based on interoperable geospatial information services.
Forms of teaching and learning	The module includes lectures of 2 SWS, exercises of 2 SWS and self-study. The teaching language of lectures and exercises may be German or English and will be specifically determined by the teacher at the beginning of each semester and announced in the usual manner.
Eligibility for participation	Basic knowledge of geo-informatics is required, in particular on spatial data structures, geo-databases, geo-object analysis, GIS, software modelling and design, and bachelor level programming.
Usability	In the Masters Course Computational Modeling and Simulation, the module is an optional module in the Track Computational Environmental Science and Engineering, to be selected in accordance with Annex 2 to the Specific Examination Regulations. The module cannot be chosen in the Master's Course Computational Modeling and Simulation if this or a module with substantially the same content from a Course with which the entry conditions under § 3 of the Studienordnung have been met has already been completed. The module provides the pre-requisites for the modules it designates under the pre-requisites for participation.
Conditions for the award of credits	Credits are awarded when the module test is passed. The module test consists of a complex service of 40 hours. The language of the exam will be German or English, at the student's choice.
Credits and marks	The module allows 5 credit points to be obtained. The module score corresponds to the test performance score.
Frequency of the module	The module is offered every winter semester.
Workload	The total workload is 150 hours.
Duration of the module	The module covers 1 semester.