

MAPPING, GIS and SPATIAL ANALYSIS

GIS (Geographic Information System) is the prerequisite and entry point for modern urban and regional analyses. The concept of MAPPING has become a central concept that comprises the approach and methodology that characterises contemporary urban analyses.

In connection with the development of Information and Communication Technologies (ICT), mapping has developed into an activity that seeks to identify invisible relations and make complex correlations accessible. A number of different methods and representations are used in this process. Mapping is a design activity in which the surrounding world is drawn anew, over and over again. It is a creative process, which describes and designs our physical surroundings, an important activity in both planning and architecture. Mapping not only reveals the context, it also provokes new associations and forms the basis for innovation and inspiration.

Development within mapping is closely connected with the development of GIS. However, GIS is more than just a tool for mapping. GIS is a knowledge field that requires knowledge of collection, storage, analysis and presentation within professional architectural urban and landscape planning.

PhD project

The PhD project should examine and systematise the knowledge field within GIS and mapping as well as the use of GIS in physical planning.

The project should also develop new methods for mapping and spatial analysis in physical planning with a focus on current issues such as sustainable urban development, density, accessibility and climate adaptation.

PhD supervision

Supervision will be handled by Associate Professor Bruno Tournay and Professor Jens Kvorning.

The PhD student will also be attached to the doctoral school at the Royal Danish Academy of Fine Arts, School of Architecture.

Research environment

The PhD student will become a part of the research circle at the Center for Urban Planning with association to the entire research field of the Institute of Planning. Research will include the research fields of Landscape Planning in association with the Center for Public Space Research, Urban Planning in association with the Center for Urban Planning and the Department of Human Settlements, and Building Planning, which includes research in residential construction, and the Center of Sports and Architecture.