

### GrotteGIS

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The project, in cooperation with NGF, takes a close look at ArcGIS from ESRI concerning gathering, storing, analysis, managing and presentation of cave related data. The project includes a multi user database based on ArcSDE and sql-server, and web solutions based on ArcGIS Server and ArcIMS. The project builds the database based on the Norwegian SOSI-Standard. Wide ranges of cave data both from digital and analogue formats are imported, and a 3D terrain model is made, including caves covering Bonådalen. Installation and configuration of the hardware and software used in the project is examined. Due to high software license costs a permanent public web solution is not made, although there may be a solution in the future with the help of Norges geologiske undersøkelse (NGU). NGU is working on publishing cave data from this project in one of their web maps on the Internet. The results of this project can be used as a platform for further development in other similar projects. The use of existing standards such as the SOSI-Standard is recommended. Apart from the costs of ArcGIS licenses, the software from ESRI is a good GIS tool for working with cave data. A further and similar project is considered appropriate to examine alternative software solutions that are affordable for the "regular" caver.