

# GEUS 3D DATABASE PRESENT STAGE AND WHAT DID WE LEARN

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We would like to present GEUS 3D database, where geological 3D models produced in different modelling tools of all scales and geometries can be archived. So, 3D models are archived in a common format, that may be read also in the future, when original model-files may have become outdated.

The development of GEUS 3D database has been coordinated with the development of the 3D database for the European Geological Data Infrastructure. The EGDI 3D database is a common facility for the European geological surveys to make their 3D models available for the public and the two databases share their data model and routines.

Along with the 3D database itself, an application has been developed to show whatever is stored in the database. Besides giving other geologists and consultants the opportunity to find and acquire existing geological models for re-use, this viewer application gives a broader audience an accessible version of current geological knowledge.

GEUS 3D database archives local models and as of now 2 national models. One of the national models is of the deep underground and the geological units important for the utilization of geothermal energy. The second national model is of shallow hydrogeological layers and is used, among other purposes in the management of groundwater in Denmark.