The following conditions must be taken into account:

- Ensuring compliance with the mandatory minimum requirements of the relevant geotechnical standards (e.g., ÖNORM EN 1997-2) in the generated reports

- Preparation of results using the template document available in the download area, including the recording of trenches, core samples, and specimen containers as part of soil classification (according to ÖNORM EN ISO 14688-1 and -2)

- Documentation and evaluation of laboratory and field tests, with the ability to present results in various formats such as charts, tables, or individual values (according to the relevant geotechnical standards series — e.g., ÖNORM EN ISO 17892-1 to 12 as well as applicable standards for material testing — e.g., ÖNORM B 4418)

- UX and UI design that enables input by laboratory personnel during test execution — no requirement for stylus input, and use of gloves is technically necessary during testing

- Adaptability of data entry, data processing, and data analysis methods by users to respond to changes in technical testing and regulatory requirements

- Easy modification of forms to allow users to document new test series or research-specific test documentation

- Integration of test results from automated test procedures in *.csv format (e.g., force-displacement diagrams)

- Data storage and output in compliance with the AGS data format

The requirements to be met are:

- Single sign-on capability

- Connection to TU-Cloud for data storage

- Synchronization when used simultaneously by multiple users

- Offline use — temporary data storage on the device during field tests without an internet connection

- Protected export of data as PDF/A

- Output of datasets in AGS format, including image data sets