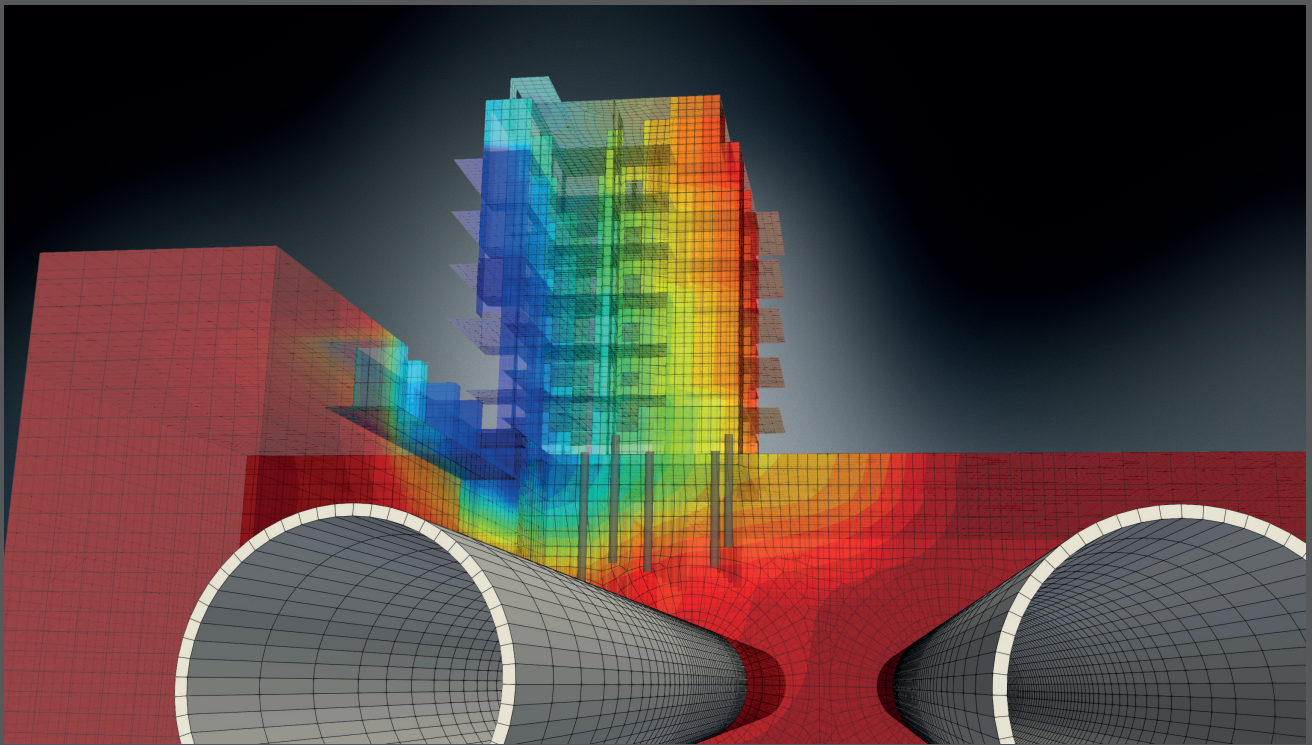




# ZSoil

for geotechnics & structures

## User manual GETTING STARTED



Soil, rock and structural mechanics  
in dry or partially saturated media



for geotechnics & structures

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# GETTING STARTED

## User manual

ZSoil®2023

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Latest updates to the manual are always included in the online help, so that slight differences with your printed manual will appear with time; always refer to the online manual for latest version, in case of doubt.

ZSoil 2023 manual:

1. Data preparation
2. Tutorials and benchmarks
3. Theory

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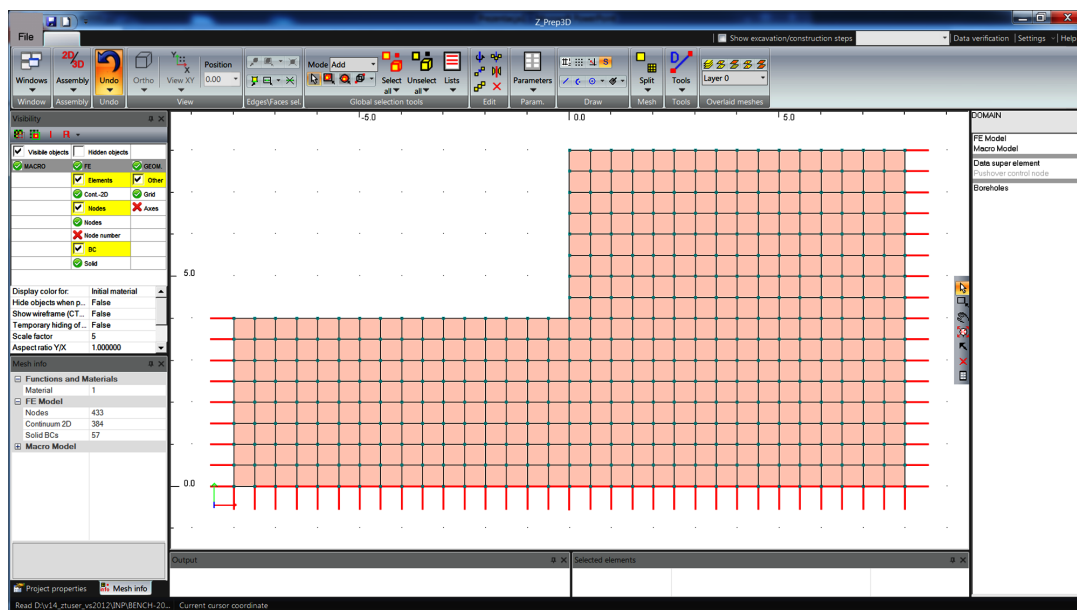
**LAUSANNE 1.11.2022**

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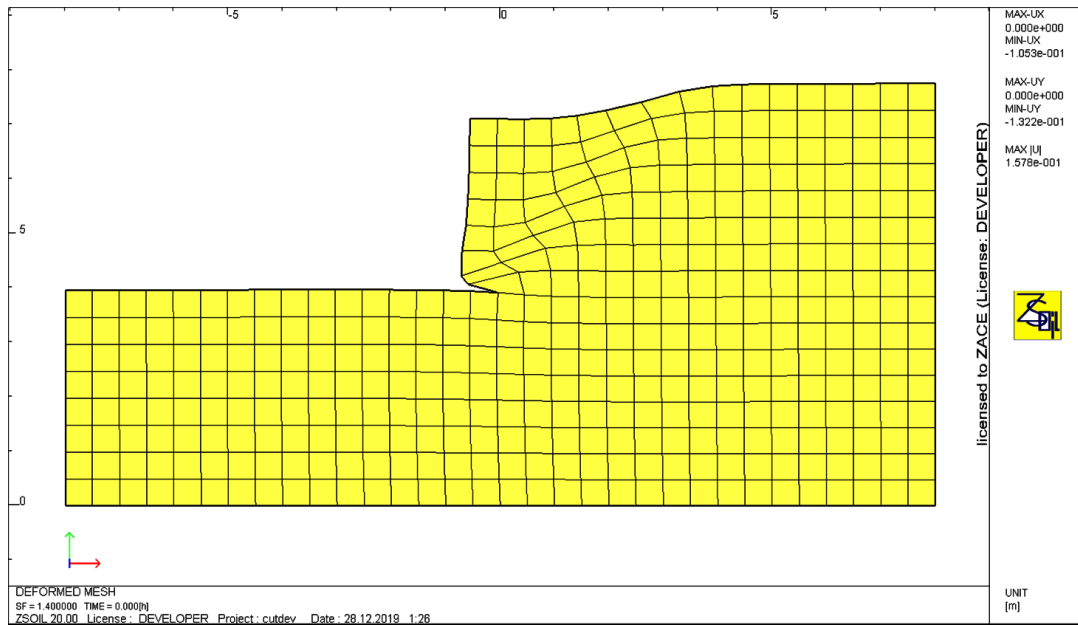


# Getting started

This little tutorial is here in order to get you acquainted with the ZSoil<sup>®</sup> environment.



- Move to File/Open (which means choose the Open option in the File menu)
- In the "inp/DataPrep" directory, choose the "cutdev.inp" file and open it. This example includes stability analysis of a vertical cut
- Move to File/Save As ... and give a new name (for instance "myfile") so that you'll be able to modify freely the parameters of this analysis without destroying the initial data set
- Move to Assembly/Preprocessing. You will see the finite element mesh in ZSoil<sup>®</sup> graphical preprocessor
- To quit the preprocessor move to File/Exit without saving
- Then, back in the ZSoil<sup>®</sup> environment, move to Analysis/Run Analysis. This will start the safety analysis for the vertical cut. The analysis will fail for a safety factor of 1.4
- Move to Results/Postprocessing option. You will enter ZSoil<sup>®</sup> graphical postprocessor. Move to Results/Deformed Mesh to see the failure mechanism. Choose Exit to get back to the ZSoil<sup>®</sup> application



- You may now move to Assembly/Materials and try to change the soil parameters. Then, move again to Analysis/Run Analysis to see the influence of your changes on the safety factor and to Results/Postprocessing to visualize failure pattern