

This document enables TALREN 97 users to **quick start Talren 4** (new improved user interface).

**IMPORTANT: We strongly recommend that you spend a couple of hours on tutorial 1 before using TALREN 4 for the first time (part D of the user manual).**

### 1. INSTALLATION: 3 STEPS (Talren 4, Java Runtime, hardlock driver)

- Follow the installation instructions.

### 2. MANIPULATED FILES

Opening existing files:

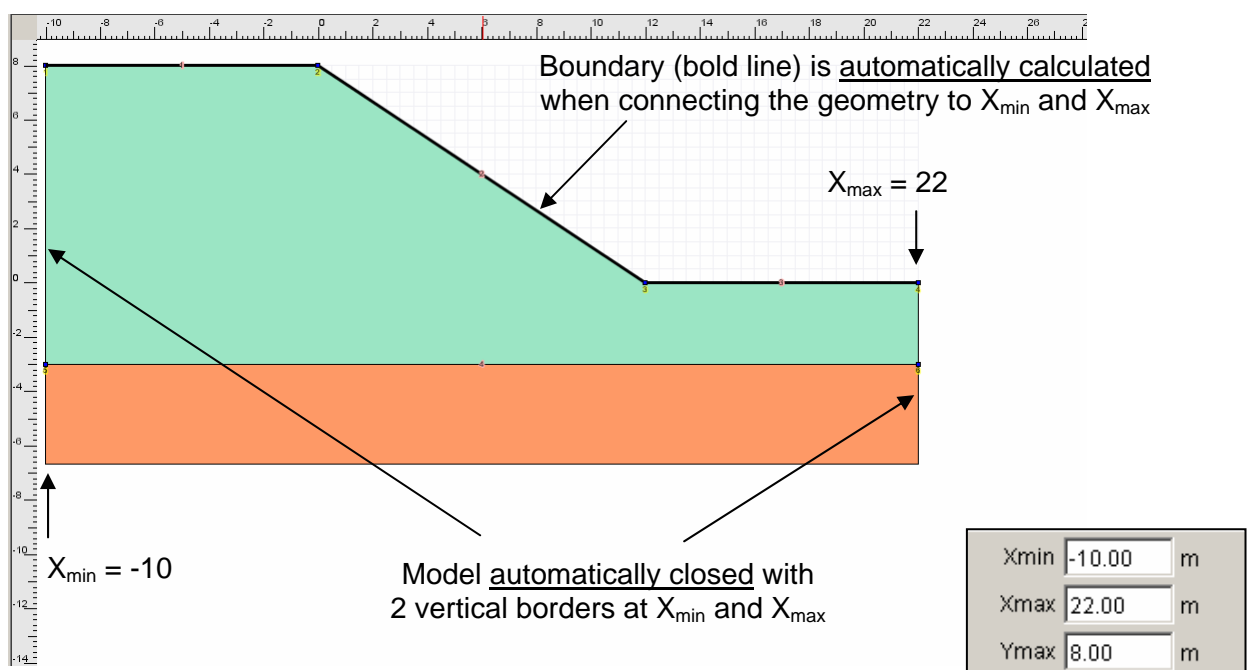
- .prj (TALREN 4 new format)
- .tal (TALREN 97)
- .plx (PLAXIS v8).

Saving files:

- .prj only (TALREN 4 format).

### 3. DIMENSIONS OF THE MODEL

- Menu Data / General Description: type in **Xmin, Xmax and Ymax**. These dimensions enable you to automatically “close” the model with vertical borders on the left and right, and to automatically calculate the slope boundary for example. It is thus very important to define this input relative to your project.
- **Define the model geometry from Xmin to Xmax** (ground layers, water table, etc). If not, the calculation will not function properly.
- Do not define the left and right vertical boundaries at Xmin and Xmax: these are automatically generated from your input data.
- Always define the model with the uphill on the left (the model can be reversed using menu Options / Reverse model).
- The bottom layer of each model is assumed to extend to infinity.



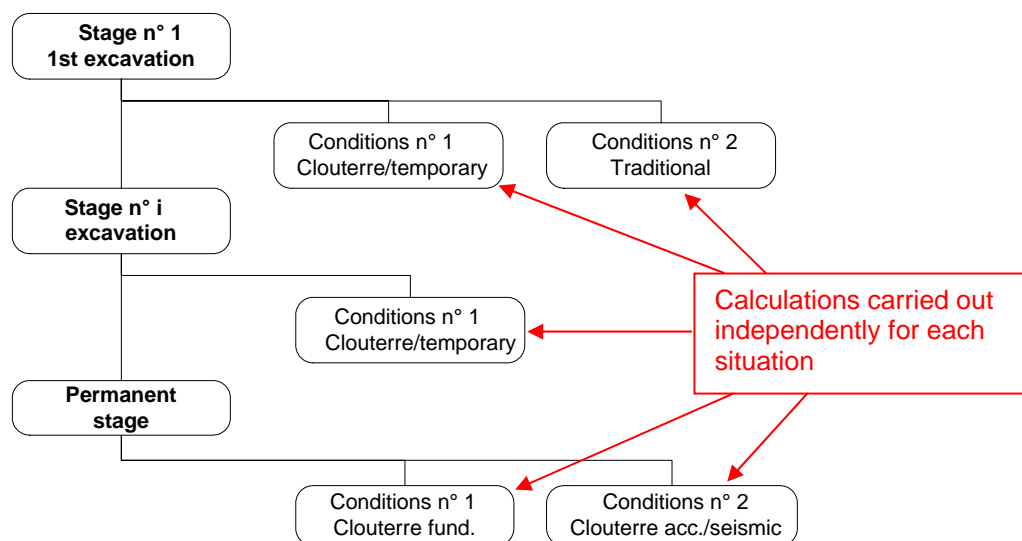
## 4. DEFINITION OF THE MODEL: DATA MODE AND PHASE MODE

**The Project data mode** (active by default when starting Talren).

- Define all elements useful to the description of your project and its construction stages: geometry (including earthwork levels or embankments), ground layers, loads, reinforcements.

**The Stages/Calculation mode.**

- Define one or more **construction stages** (for example many temporary stages and one permanent stage). The stages are defined in an incremental way, by activation/deactivation of elements (ground layers, reinforcements, loads, etc), and definition of hydraulic conditions.
- Define one or many **sets of conditions** for each stage: each set of conditions corresponds to calculation assumptions (calculation method, partial safety factors, failure surfaces).



## 5. PARTIAL SAFETY FACTORS

- TALREN 4 provides **many predefined sets of partial safety factors** corresponding to the Clouterre report and traditional methods.
- However care should be taken in applying these sets. Clouterre, for example, does not define partial safety factors relative to strips or struts. It will thus be necessary to import them in your project and **input the missing data** (menu Project data / General settings, or menu Options / Partial safety factors).

## 6. LIMIT ANALYSIS CALCULATION METHOD

This is a future upgrade due to be released in 2005.