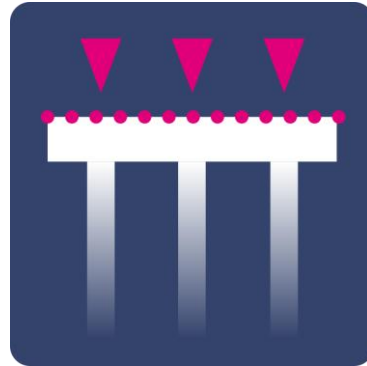


Overview of Foxta v5



Contents

- Solutions developed by Terrasol
- Software overview
- Available documentation

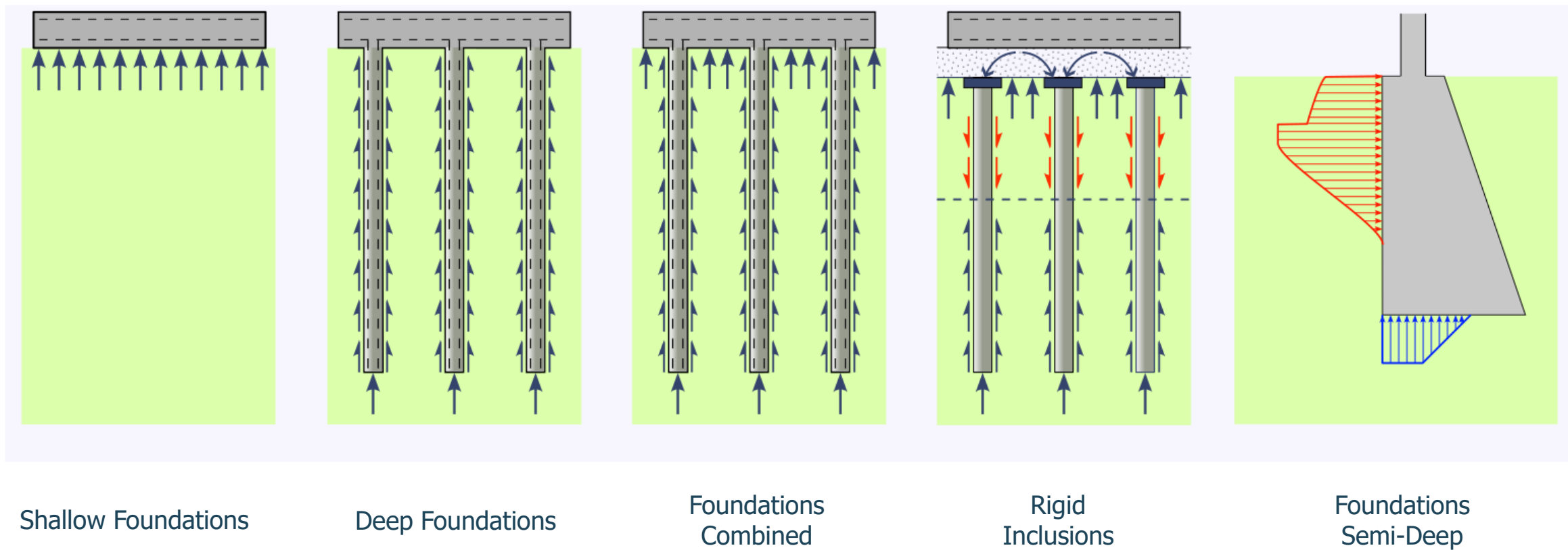


- Reliable, robust tools for addressing key geotechnical engineering challenges



The FOXTA software suite

- An engineering tool for analyzing foundation problems, from simple to complex



FOXTA Overview

- A suite of interconnected modules

FONDSUP



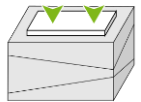
Bearing capacity and settlement of an isolated footing based on PMT, CPT, or laboratory tests

FONDPROF



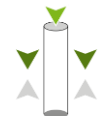
Bearing capacity of a single pile or pile group based on PMT or CPT results

TASPLAQ



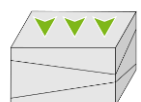
3D analysis of rafts on elastic multilayer soil (settlements and internal forces)

TASPIE



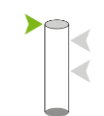
Settlement and downdrag for a single pile or pile group and rigid inclusion reinforcement

TASSELDO



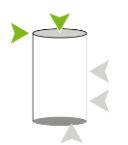
3D analysis of displacements and stresses in a soil mass with any stratigraphy

PIECOE



Analysis of piles and barrettes under lateral loading, with or without soil pressure

SEMIPROF



Analysis of semi-deep foundations and massive shafts under combined loading

GROUPIE

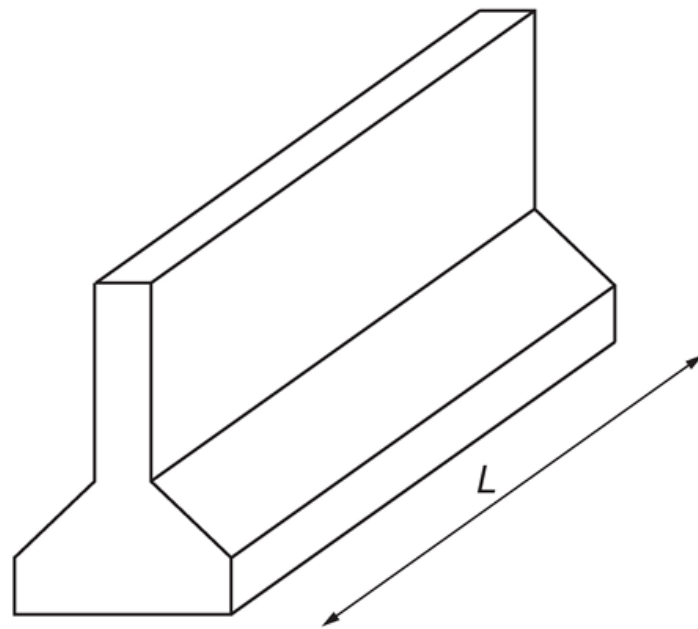


Analysis of a pile or barrette group connected at the head by a rigid pile cap

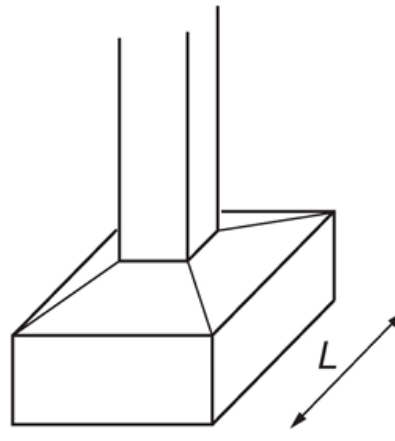


FOXTA Overview

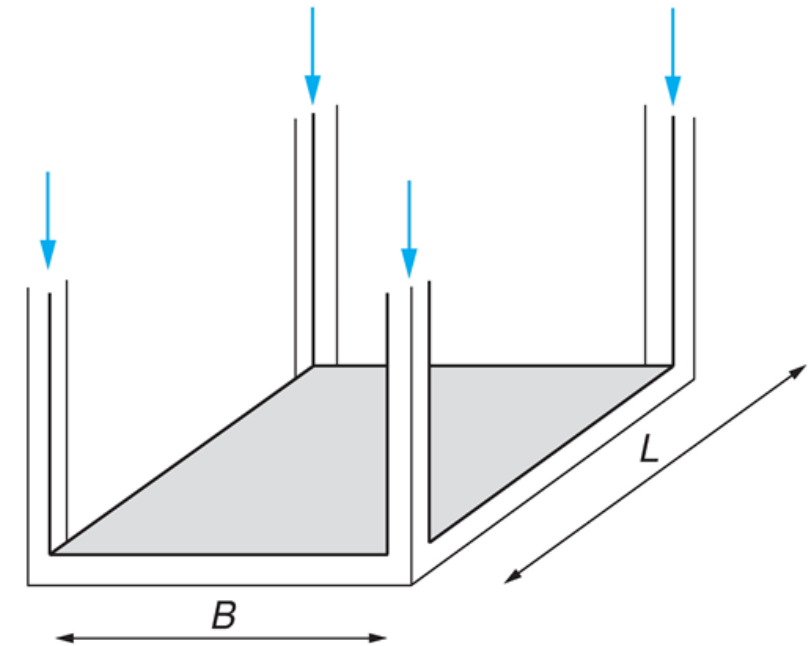
- Applications to shallow foundation problems



$B \times L \ll \text{aire de l'ouvrage porté}$



$B < L$

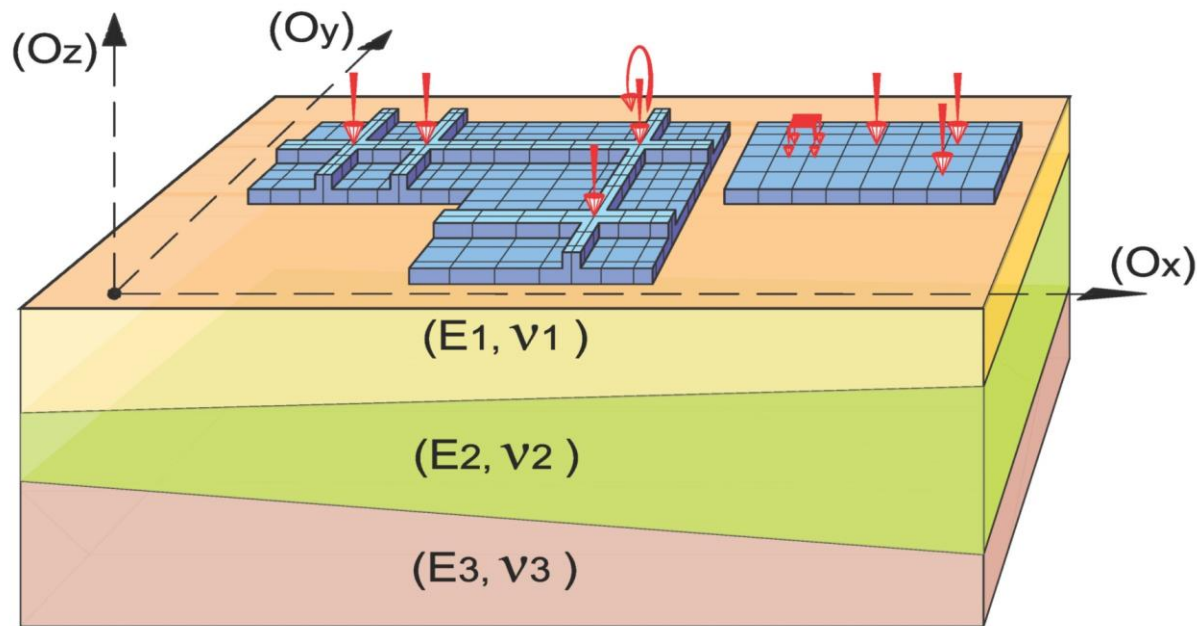


$B \times L : \text{aire de l'ouvrage porté}$

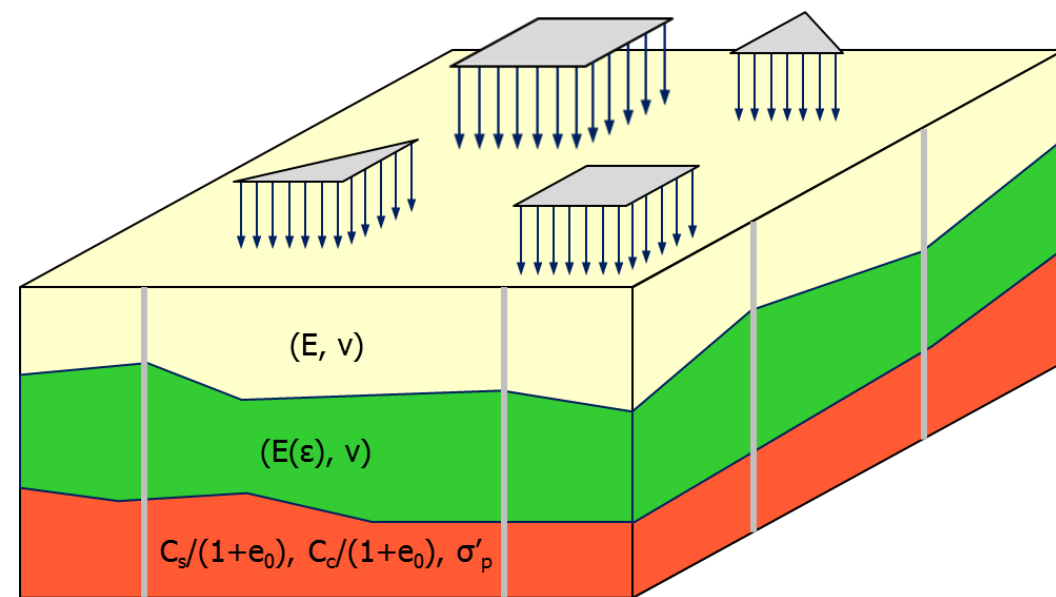


Foxta Overview

- Applications to shallow foundation problems



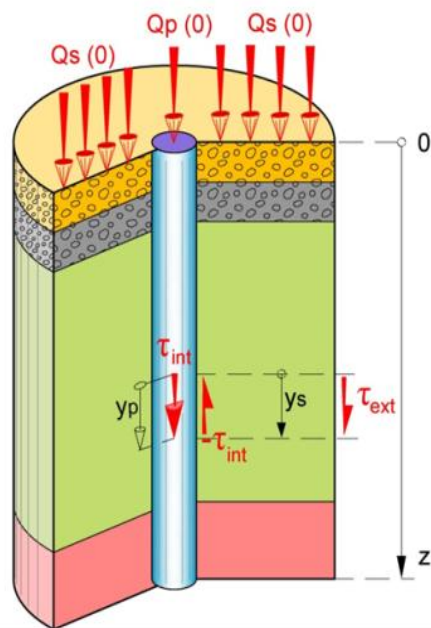
Rafts and slabs-on-grade



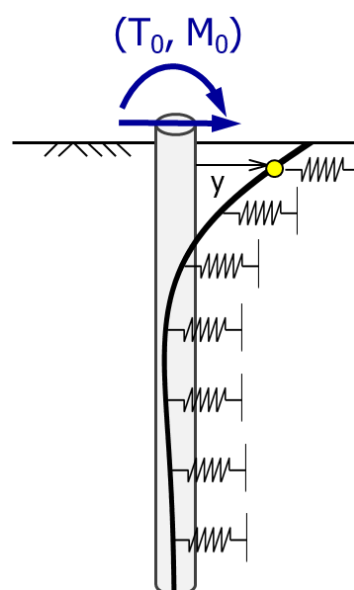
Embankments and flexible loads

FOXTA Overview

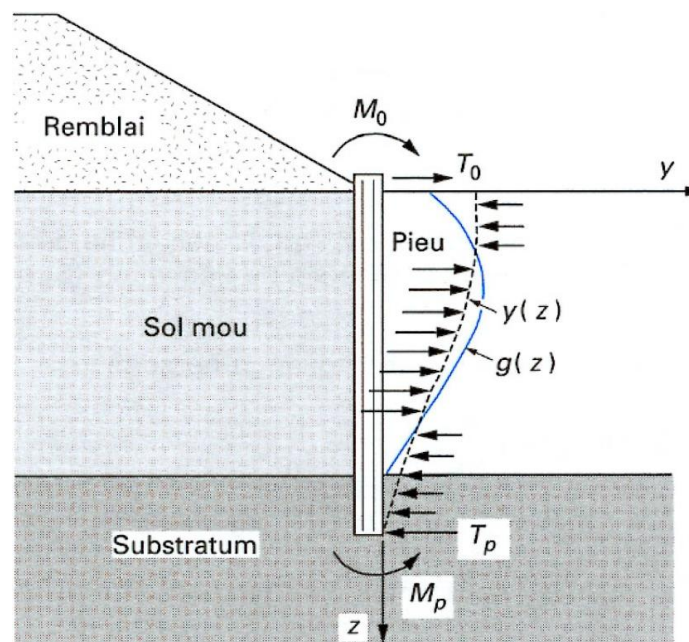
- Applications to deep foundation problems



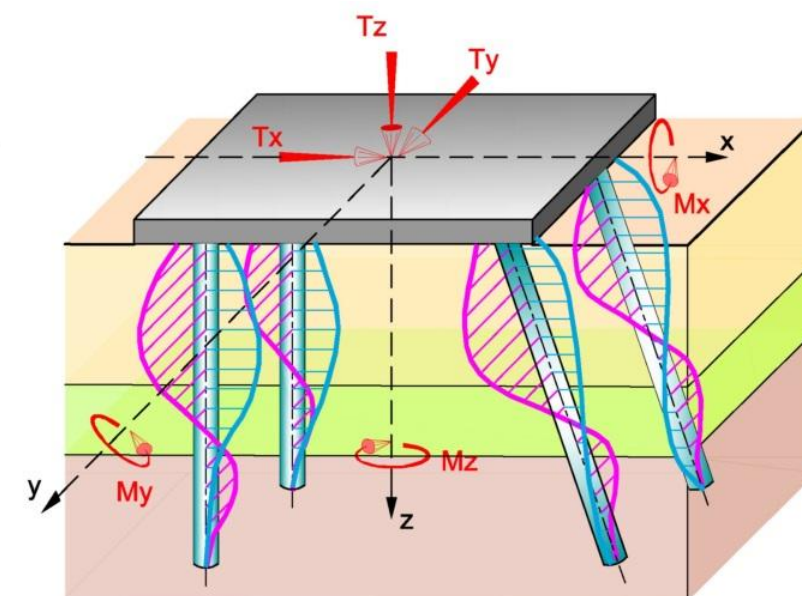
Piles under
axial loading



Piles under lateral
loading



Downdrag and lateral
soil pressures

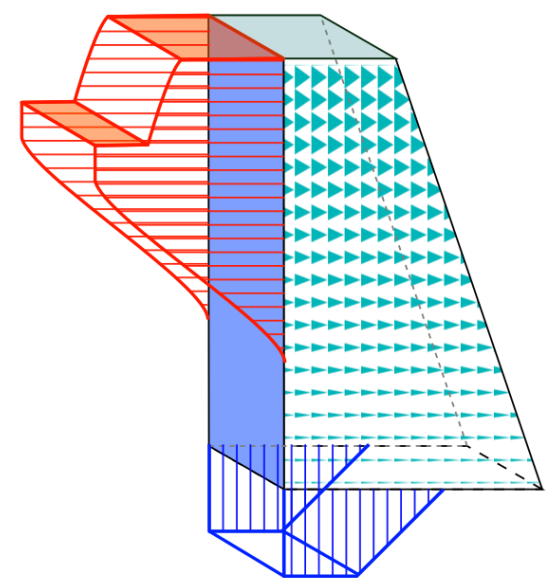
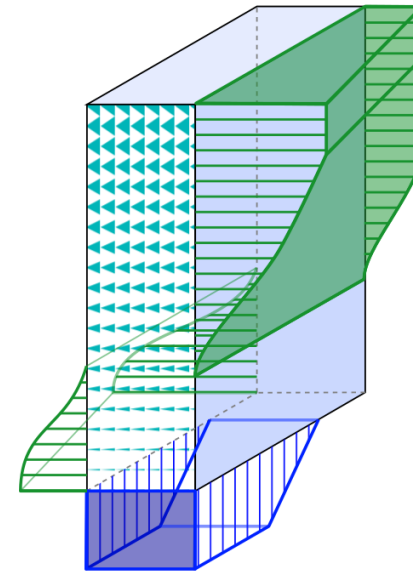
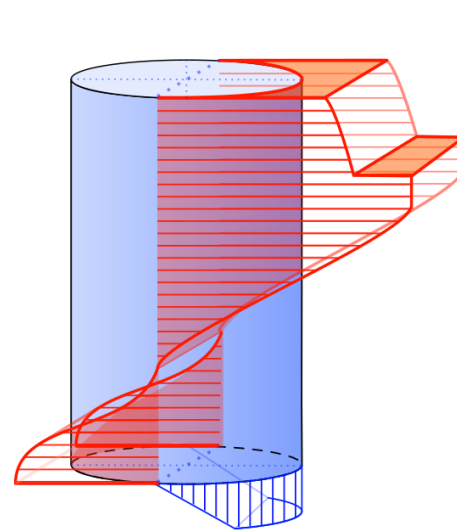
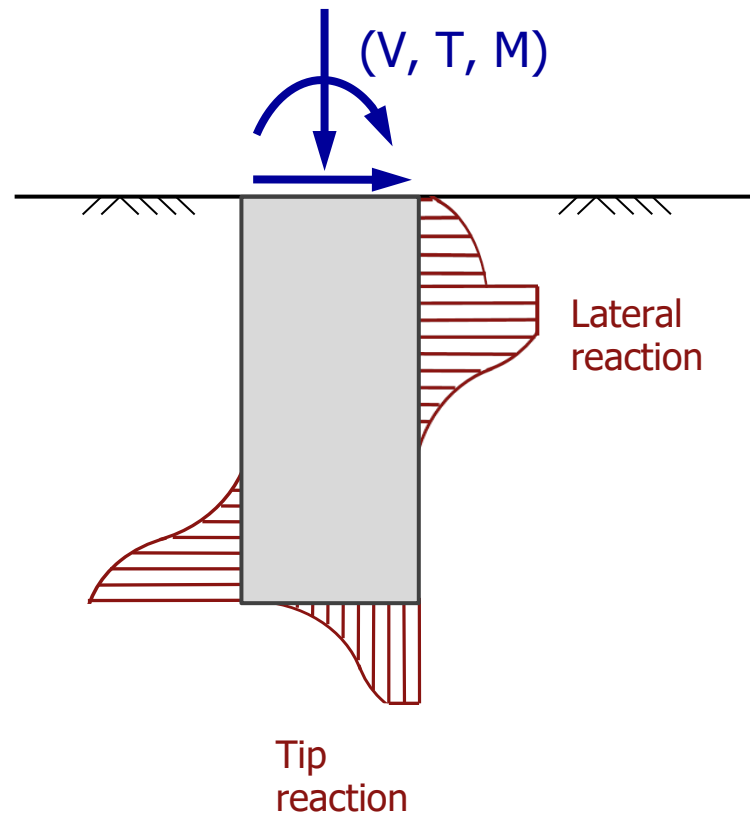


Pile group under
combined loading



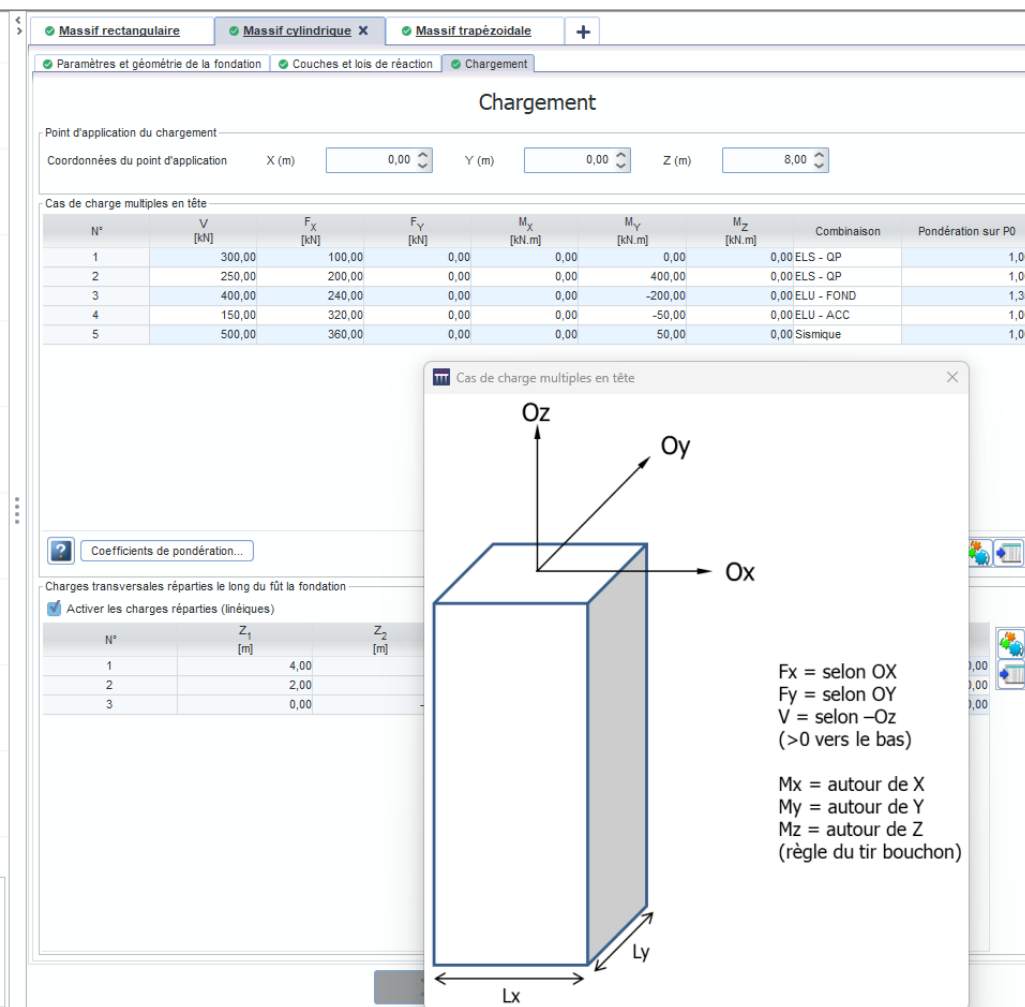
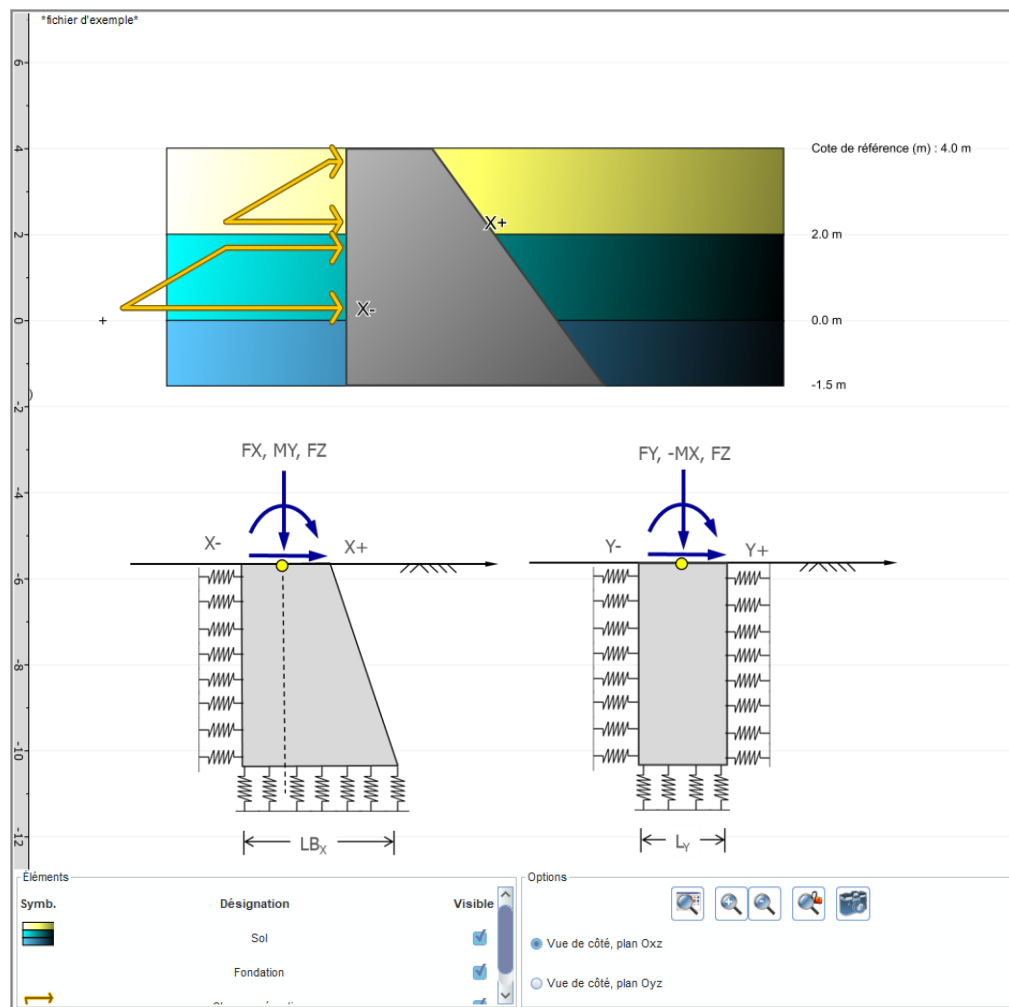
FOXTA Overview

- Applications to semi-deep foundation problems



FOXTA Overview

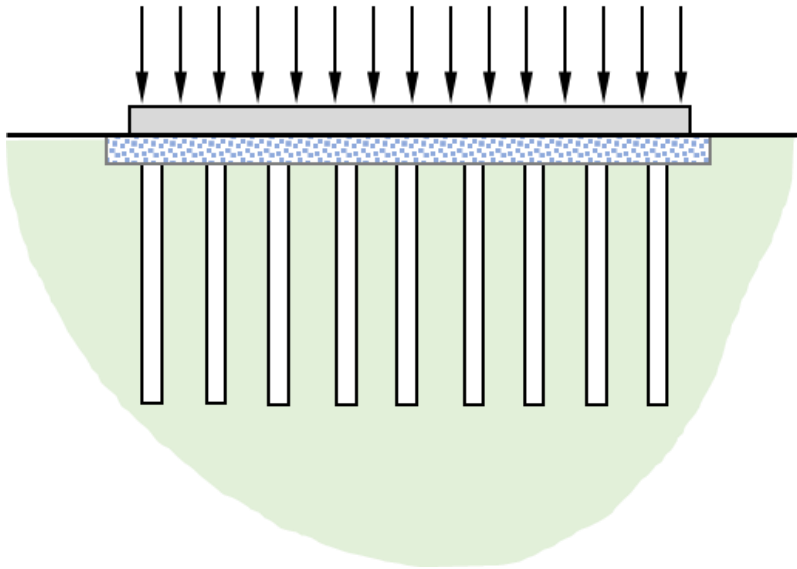
- Applications to semi-deep foundation problems (**3D – new!**)



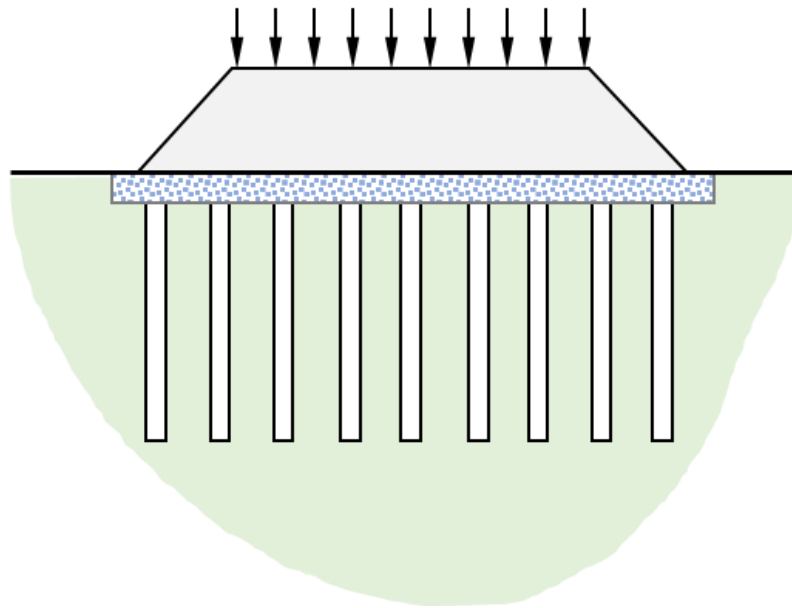
FOXTA Overview

- Applications to rigid inclusion reinforcement

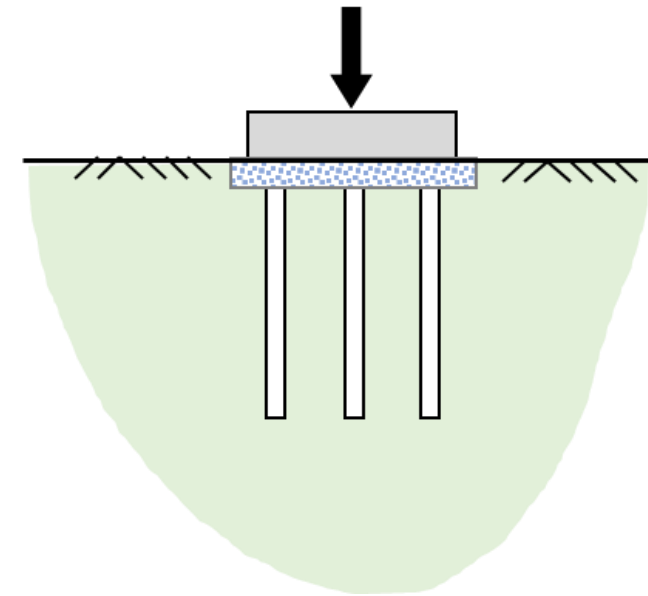
Foundation on rigid inclusions



Embankment on rigid inclusions

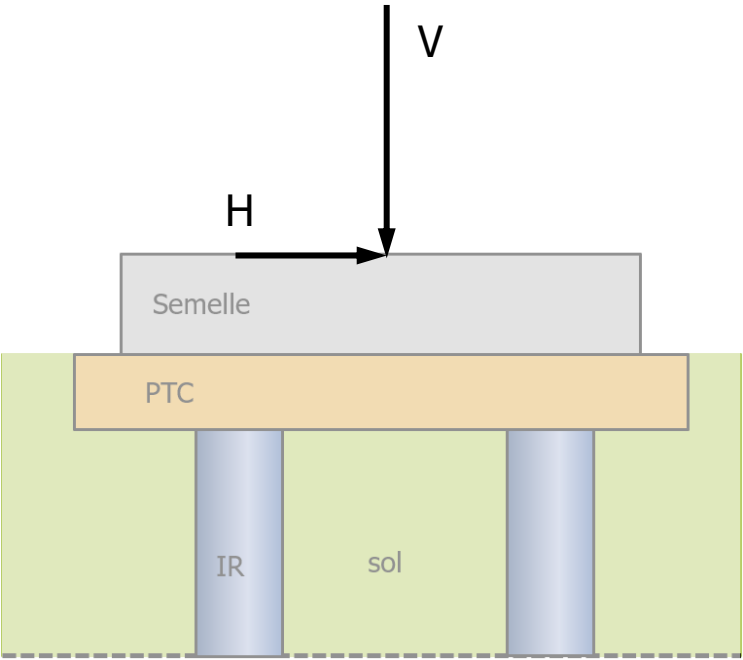
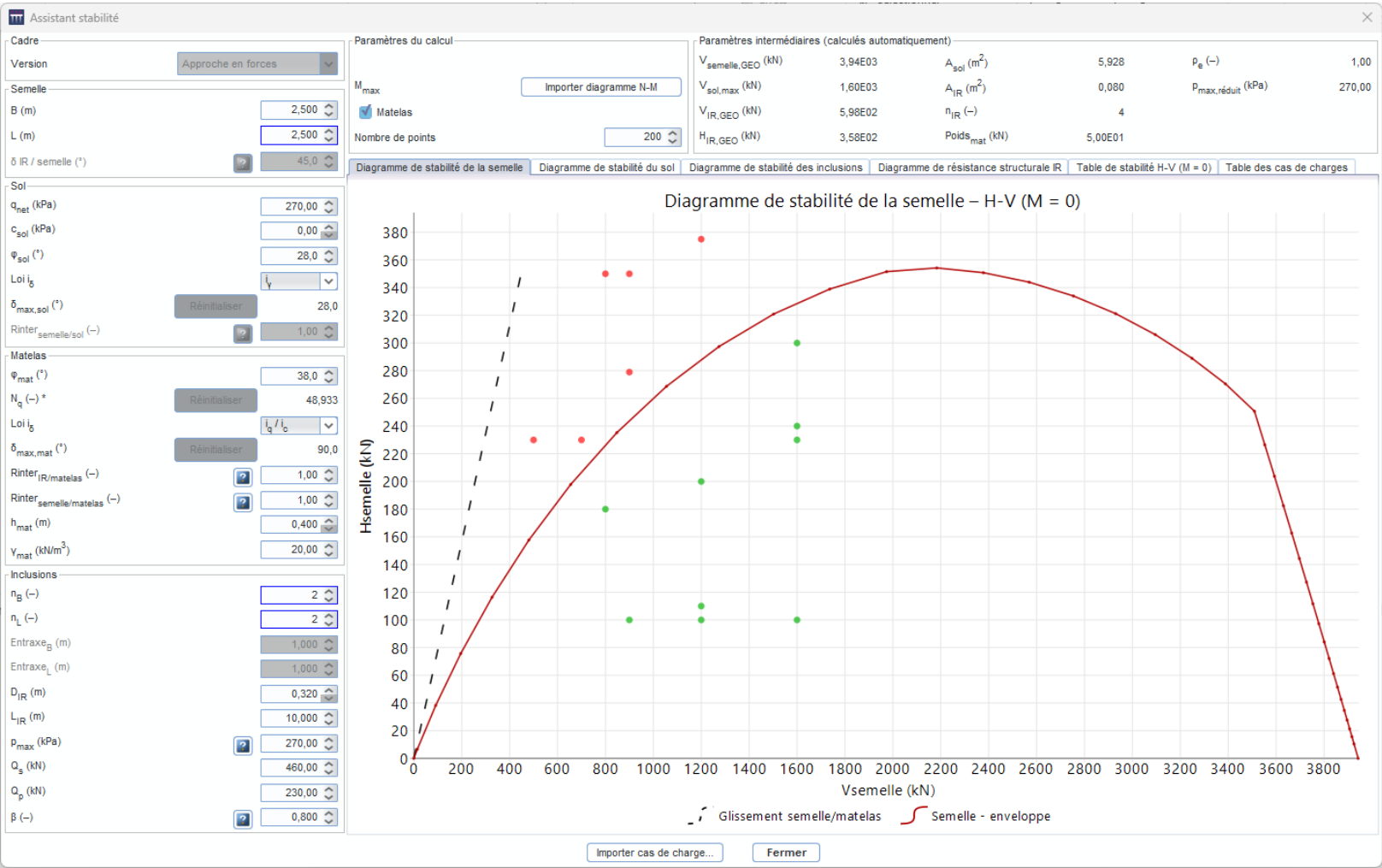


Footing on rigid inclusions



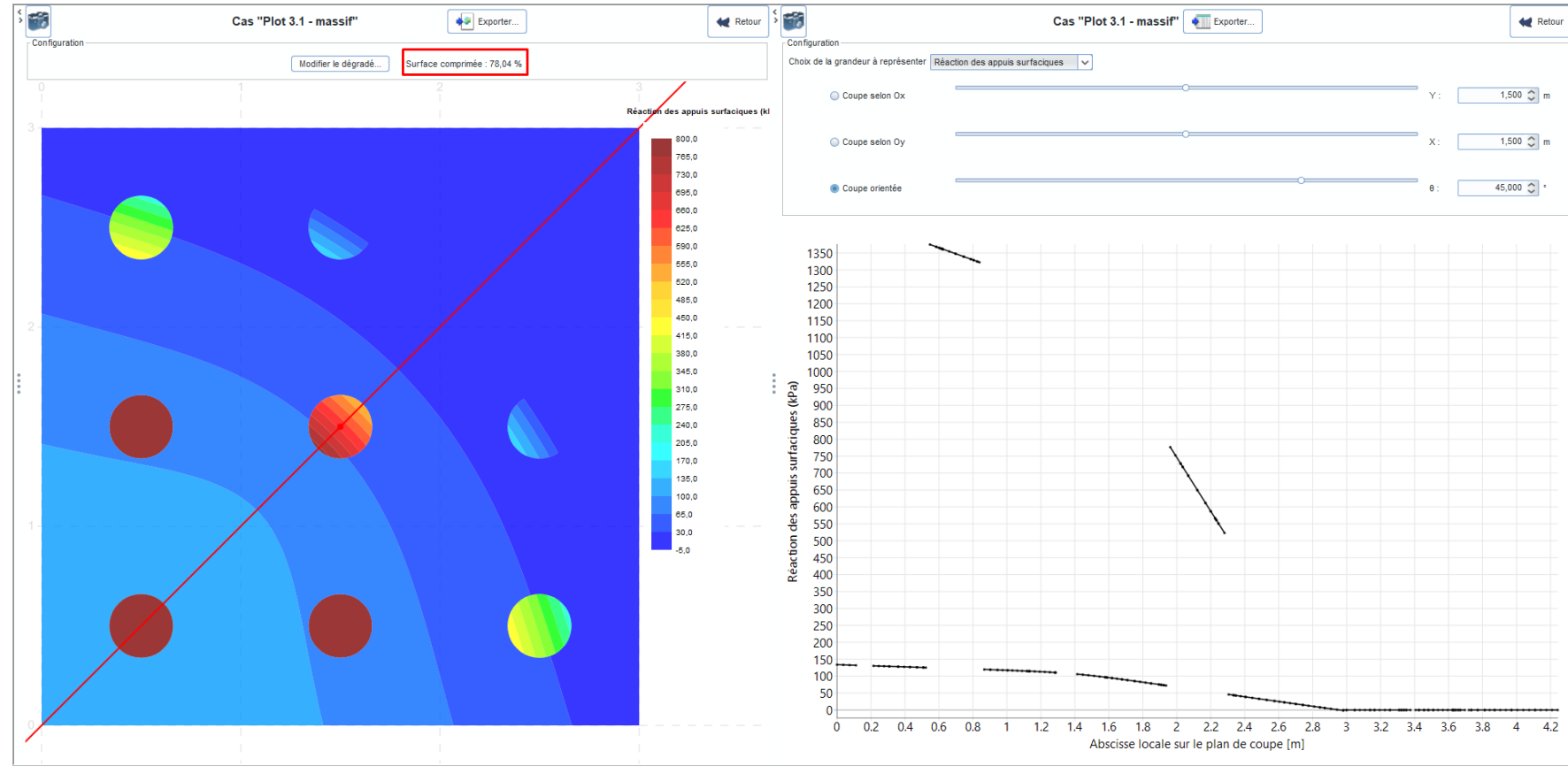
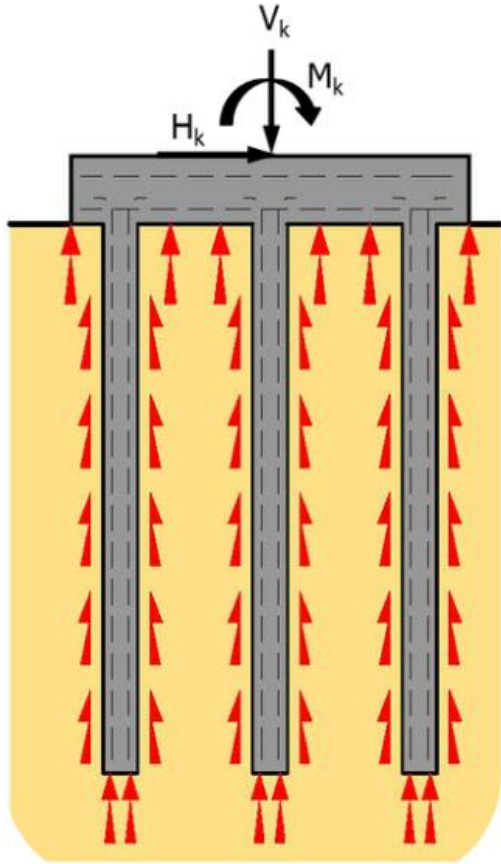
FOXTA Overview

- Applications to rigid inclusion reinforcement (**stability diagram – new!**)



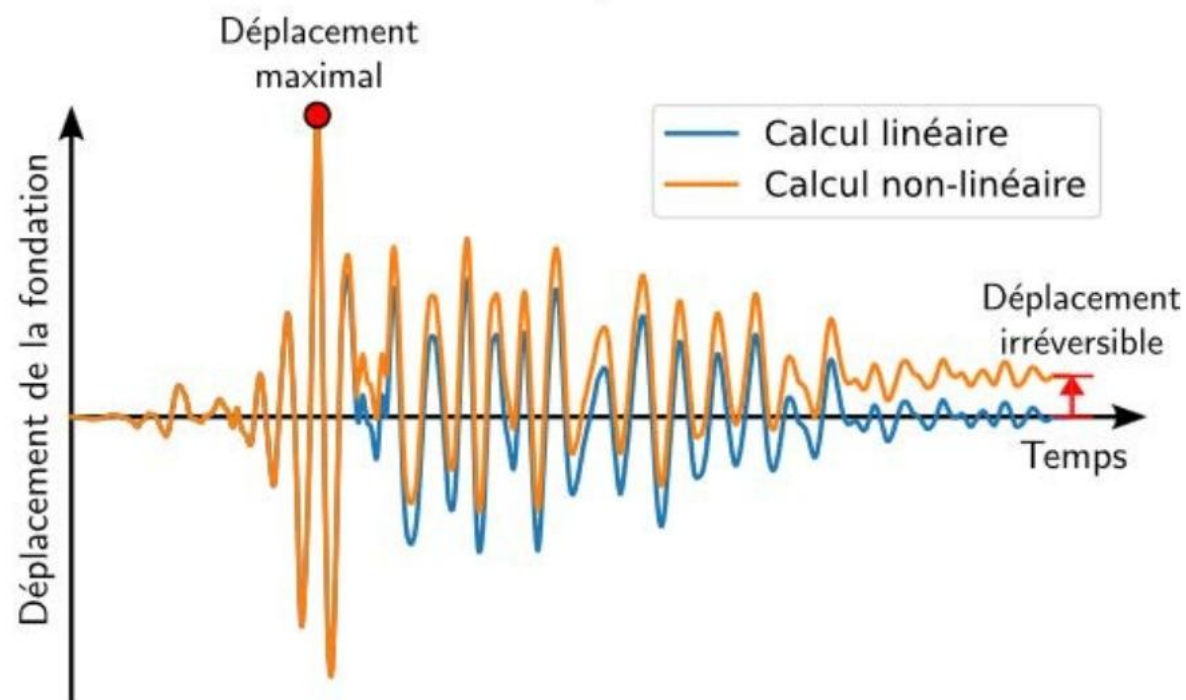
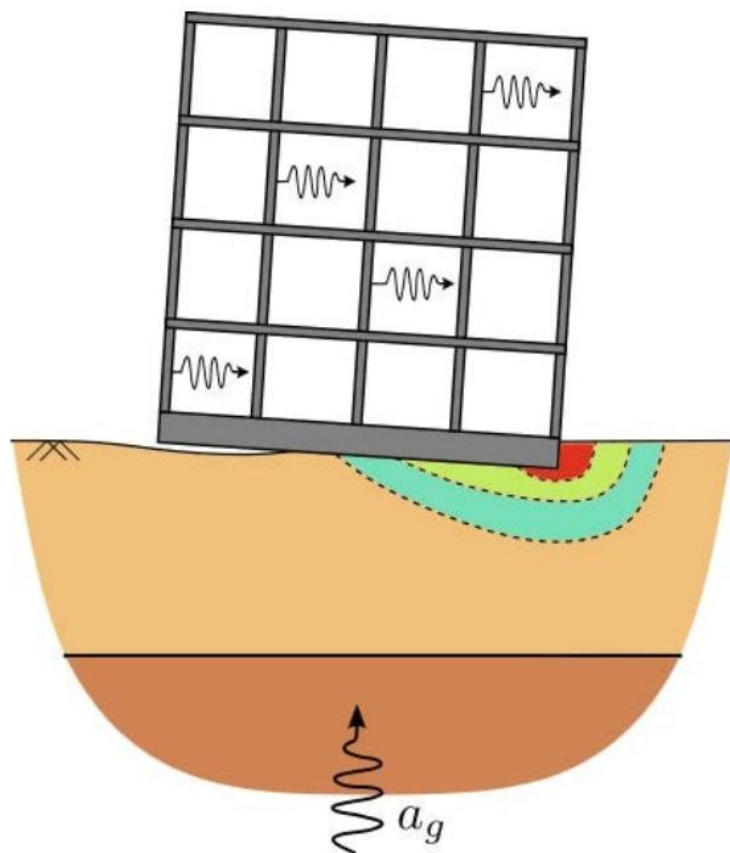
FOXTA Overview

- Applications to combined foundations (**new!**)



FOXTA Overview

- Applications to foundations under dynamic and seismic loading (**new!**)



Thank you for your attention



Software Department
software.terrasol@setec.com