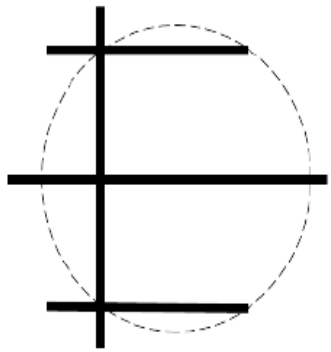


# COSETTA

Vertical Drains Design



# COSETTA

Vertical Drains Design

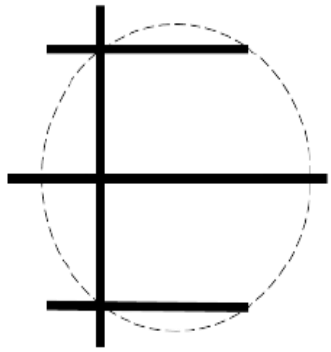
## About

Cosetta1.0 is a software used for the design of vertical drains, also for estimating the settlement of embankments, triangular slopes and circular tanks.

This product has been developed by Wafy BOUASSIDA (Phd, M.Sc, PEng) and Siwar KHALED (PEng).

The different features of Cosetta are :

- Short term and oedometric settlement of embankments
- Short term and oedometric settlement of triangular slopes
- Short term and oedometric settlement of circular foundations
- Vertical drains design (Barron's method and Carillo's method)
- Design of rigid inclusion (determining the improvement area ratio  $\eta\%$  )



# COSETTA

Vertical Drains Design

## Different modules



Settlement of embankments



Settlement of triangular slopes



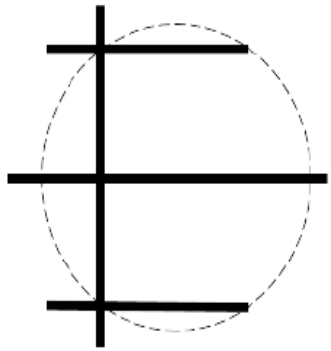
Settlement of circular foundations



Vertical drains design



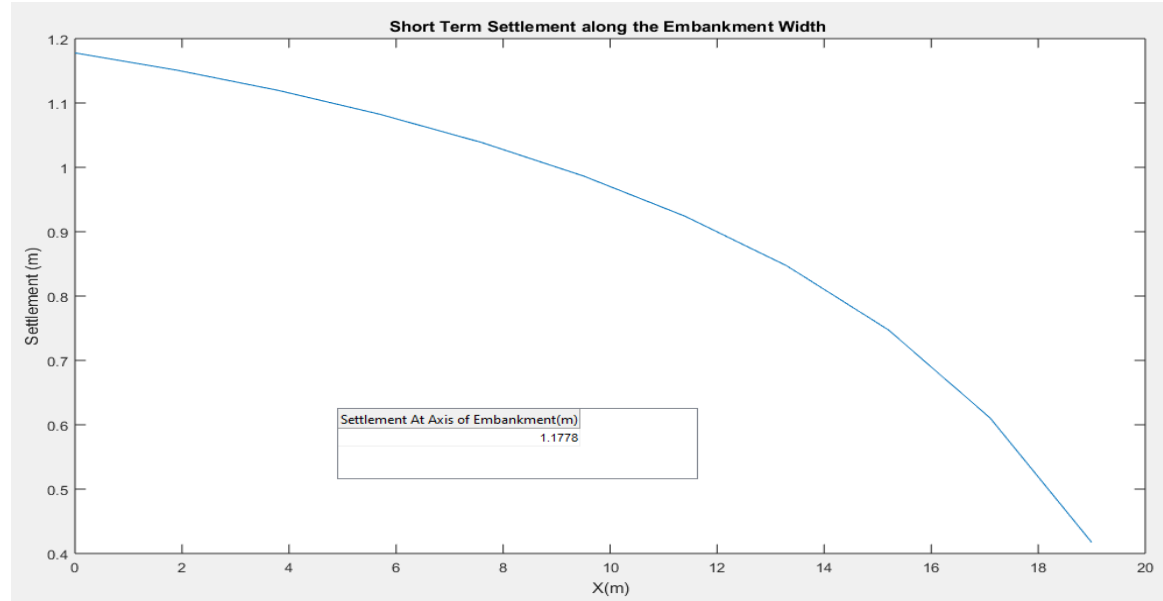
Rigid inclusions



# COSETTA

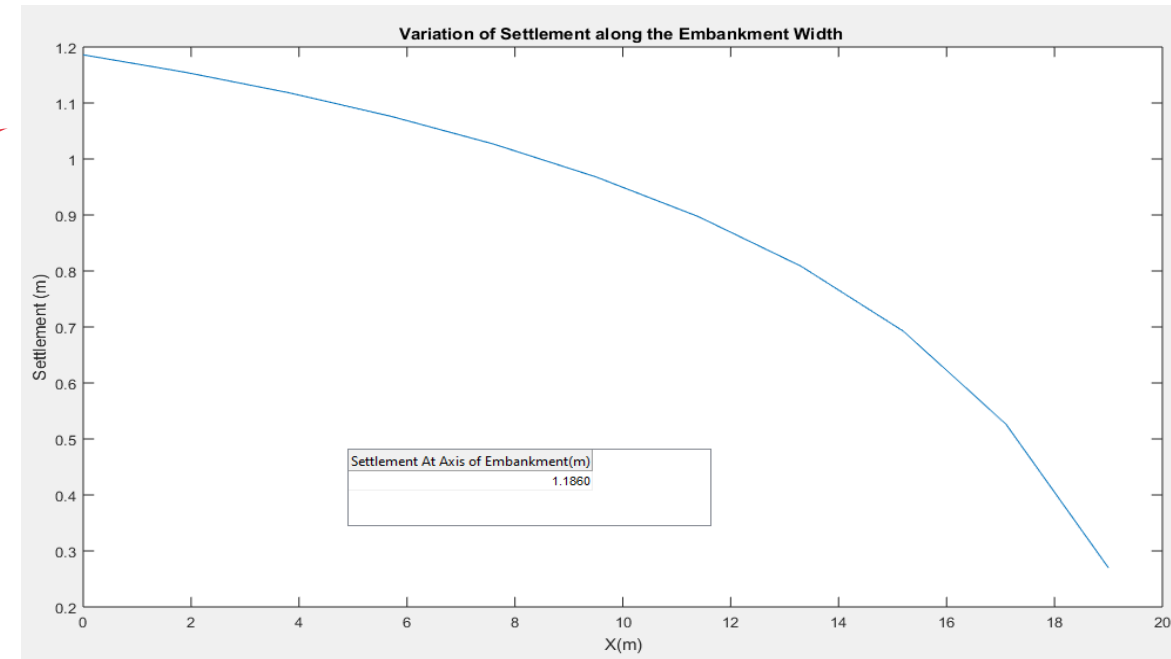
## Vertical Drains Design

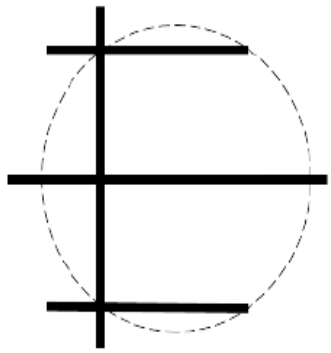
## Some outputs



Short term settlement along the embankment width

Odometric settlement along the embankment width

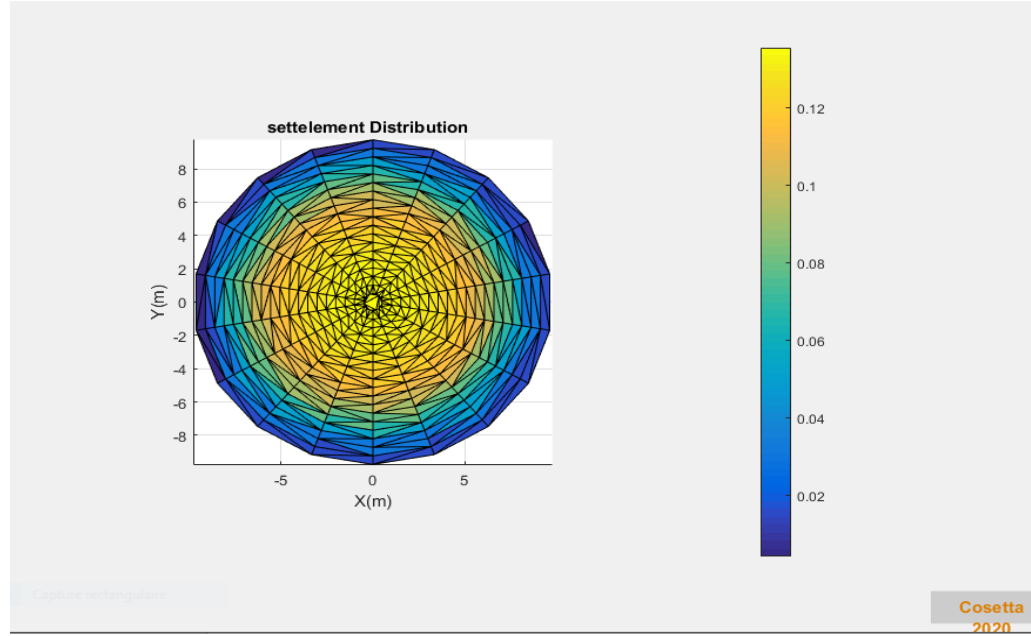




# COSETTA

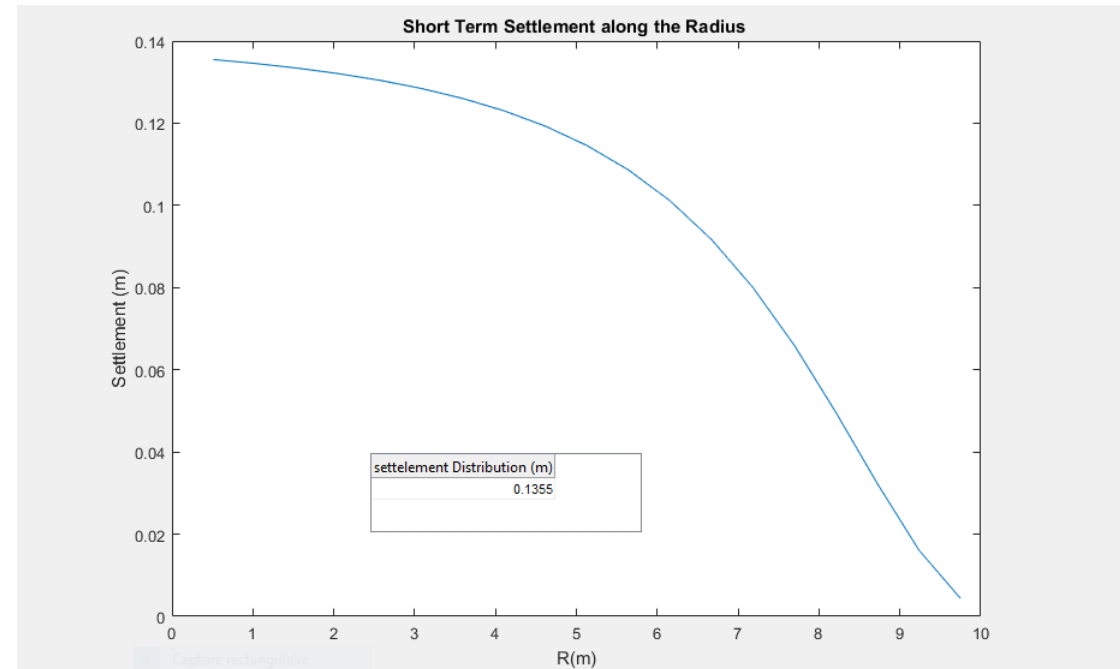
## Vertical Drains Design

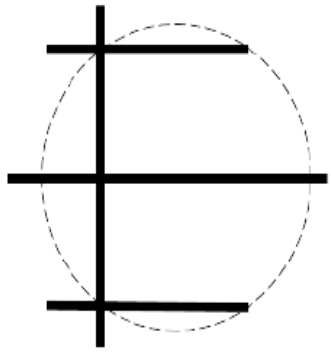
# Outputs



Settlement distribution beneath the tank raft

Short term settlement along the tank diameter

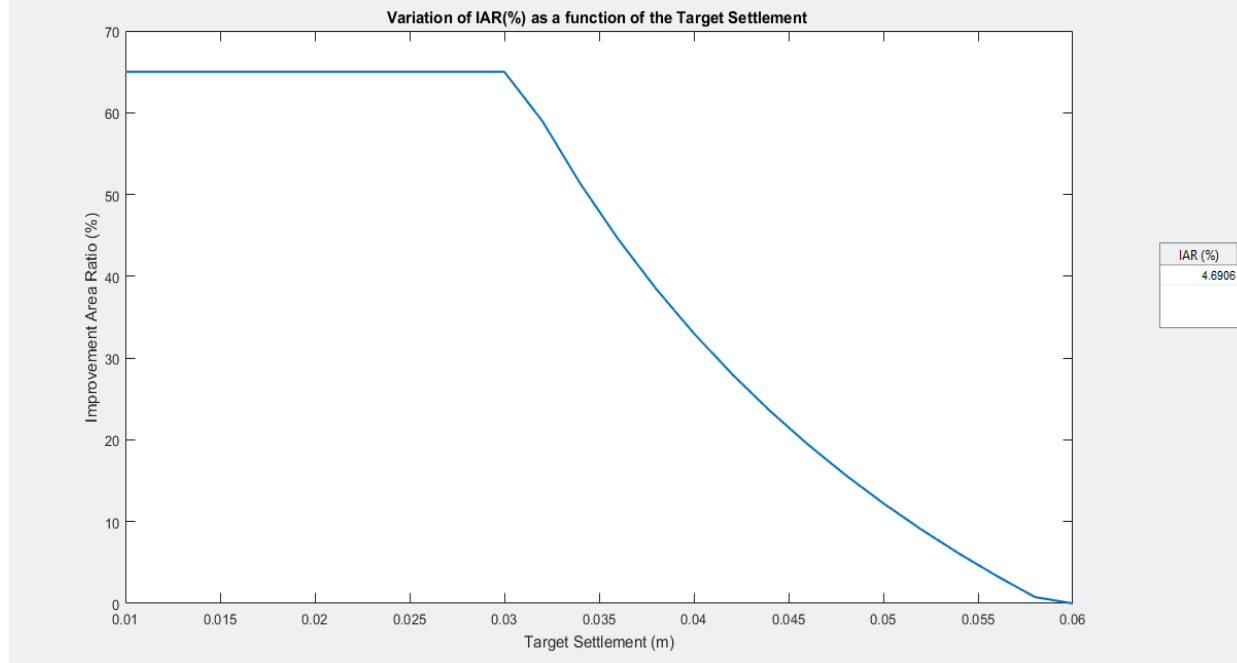




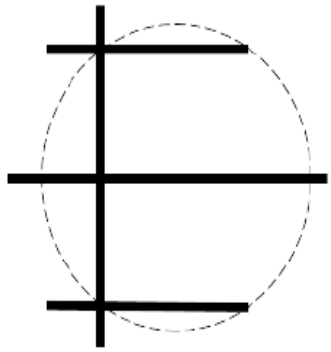
# COSETTA

Vertical Drains Design

## Outputs



Design of rigid inclusion



# COSETTA

Vertical Drains Design

## Outputs

Spacing (m)  
2.4000

Squared pattern

Cosetta



Spacing between vertical drains



COSETTA

Vertical Drains Design