

## **Temperature and pressure** numeric modeling

0 10 20m

Two versions are set up:

## Version 1

- Mine water supply to public buildings in Cherno more village - 30 l/s
- Water extraction . from Shaft1 (9.IX. mine)
- Water injection in **Brigadir mine**
- Distance between shaft1 and the village – 2 km

Version 2

- Mine water supply to ABV company with 2 l/s.
- Water extraction from Shaft1 (9.IX.mine).
- Water injection in • Shaft2 (9.IX. mine)
- **Distance between** • shafts and ABV factory - 250 m.





I OWEX



## Particle tracking zones and flow distribution during exploitation



Extracted water from 9.IX. mine - 30 I/s.

In steady state there is no interaction between zones. Hence there would be no change of water temperature.

## Extracted water from 9.IX.mine – 45 l/s.

CONCERTO

An interaction between the zones of production and injection will take place and this will result on the disturbance of system operation.



Steady state solution for a pumping rate of 2 l/s (shaft1) and injection in shaft2, 9.IX.mine.

CONCERTO