

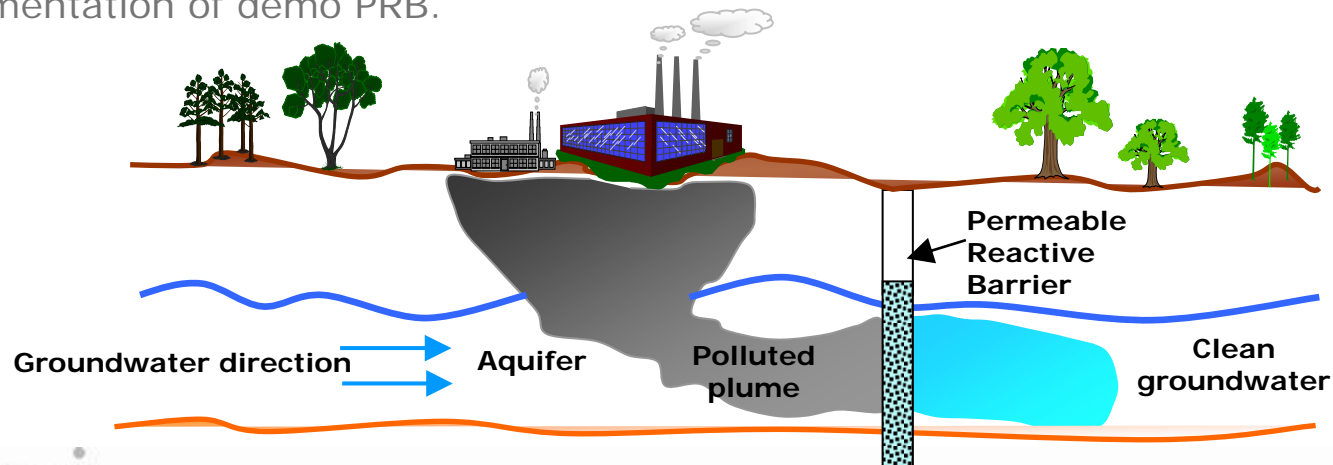
Innovative materials for *in situ* water treatment

Goal

- Development of technologies based on innovative materials for contaminant separation with high environmental and economical compatibility, suitable to multiple and complex contamination. These materials are proposed for *in-situ* decontamination of groundwater with the use of Permeable Reactive Barrier (PRB).

Activities

- Study of new or commercial materials to face problems which have no solution with traditional materials and processes.
- Development of regeneration systems for *in situ* oxidation by including metals with catalytic activity in the adsorbent material.
- Integration between adsorption and nanofiltration/reverse osmosis membranes.
- Implementation of demo PRB.



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