



# NEWSLETTER 2/2020

<http://fns.uniba.sk/lifewaterhealth/>

## Improvement of health status of population of the Slovak Republic through drinking water re-carbonization

### Fluidization reactor for drinking water re-carbonization

The main goal of the project is to improve the health status of the population in two municipalities of the Slovak Republic, supplied with drinking water with a deficient content of Ca and Mg.

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We will increase the content of Ca and Mg in drinking water in the village of Devičie and in the village of Kokava nad Rimavicou, which are characterized by low content of Ca and Mg in [drinking water](#) and deteriorating health of the population (mainly increased mortality from cardiovascular and oncological diseases, shorter life span).

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We will enrich drinking water with Ca and Mg using a fluidization reactor.

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Carbonate rocks (half-burned dolomite - HBD) dissolve in the reactor under CO<sub>2</sub> saturation. The produced concentrate (approx. 800 mg L<sup>-1</sup>) is added directly to the reservoir.

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Foto: Cvečková, 2020

We assume that the increase in the content of Ca and Mg in drinking water will be reflected in the improvement of the health of the population, which we will subsequently monitor by measuring the elasticity of blood vessels.

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