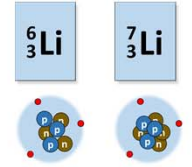


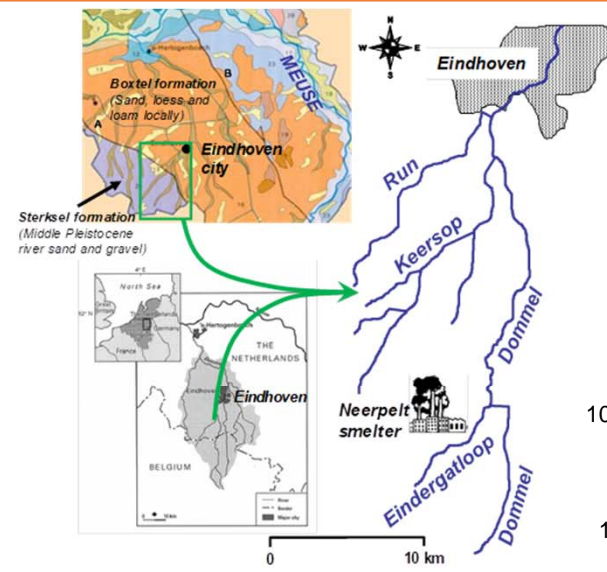
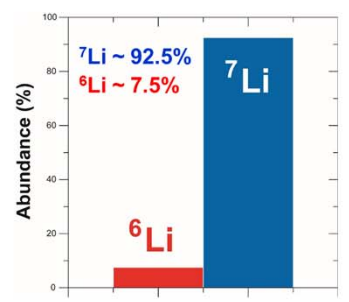
# Lithium isotopes as a probe of anthropogenic activities: Dommel river

Négre, Ph., Millot, R., Petelet-Giraud, E. BRGM-France



delta notation

$$\delta^7\text{Li} (\text{‰}) = \left( \frac{\left( \frac{{}^7\text{Li}}{{}^6\text{Li}} \right)_{\text{sample}}}{\left( \frac{{}^7\text{Li}}{{}^6\text{Li}} \right)_{\text{L-SVEC}}} - 1 \right) \times 10^3$$



• has been successfully applied in the past by our group...

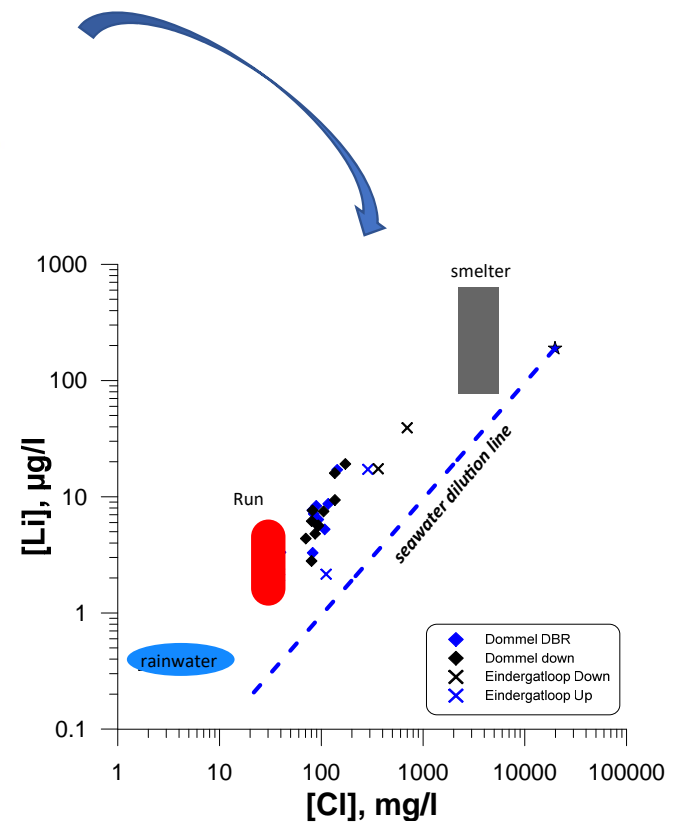
- **Geology**
  - Pegmatites differentiation
  - Li origins in Salar deposits

- **Societal focus**
  - Wine & champagne characterization
  - Anthropogenic tracing



- **Earth surface processes**
  - river weathering and erosion
  - tracing rainwater origins

- **Groundwater systems**
  - characterization of geothermal systems
  - groundwaters flow path



# Lithium : mixing scheme natural vs. anthropogenic inputs in the Dommel basin

Négre, Ph., Millot, R., Petelet-Giraud, E. BRGM-France

