

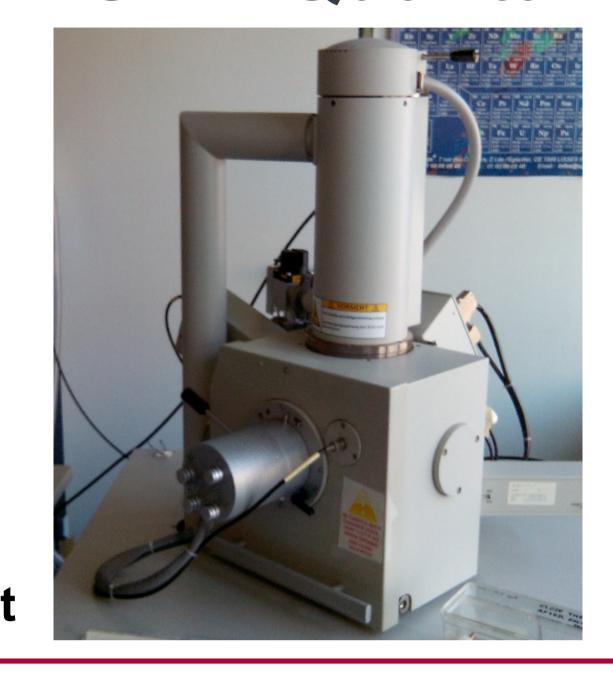


## What is it used for?

- - Back Scattered Electrons (BSE) with atomic number (Z) contrast
- □ Chemical composition

  Energy Dispersive X-Ray Spectroscopy (EDX/EDS) for spatial distribution and quantification of elements in cement

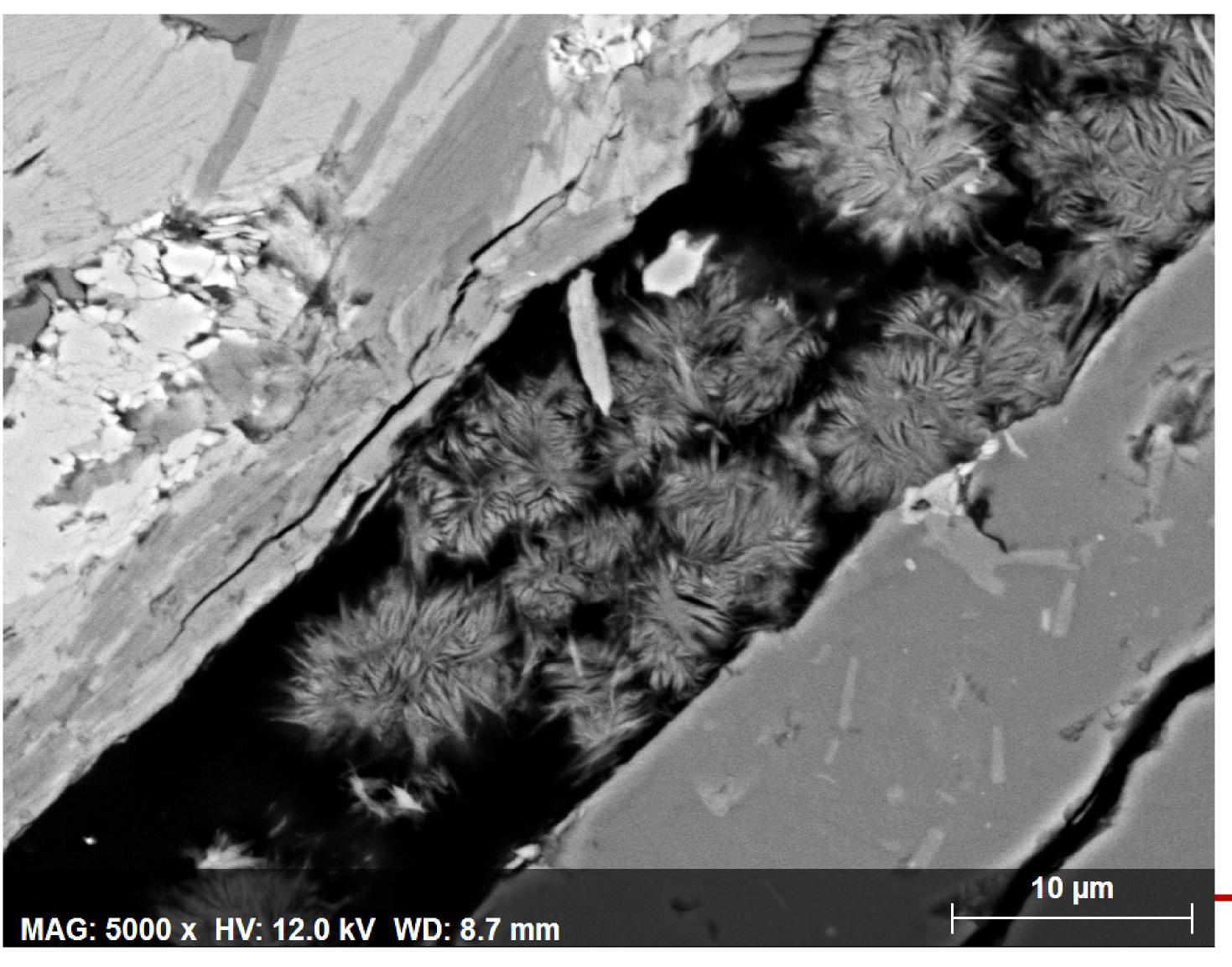
SEM Quanta



## **Applications**

- ☐ Hydration studies
- ☐ Composition and 2D morphology of C-S-H
- ☐ Composition and 2D morphology of ASR
- ☐ Porosity quantification

Example: SEM image of ASR "hedgehogs" growing inside a crack.



Example: Elemental distribution of hydrated cement

