

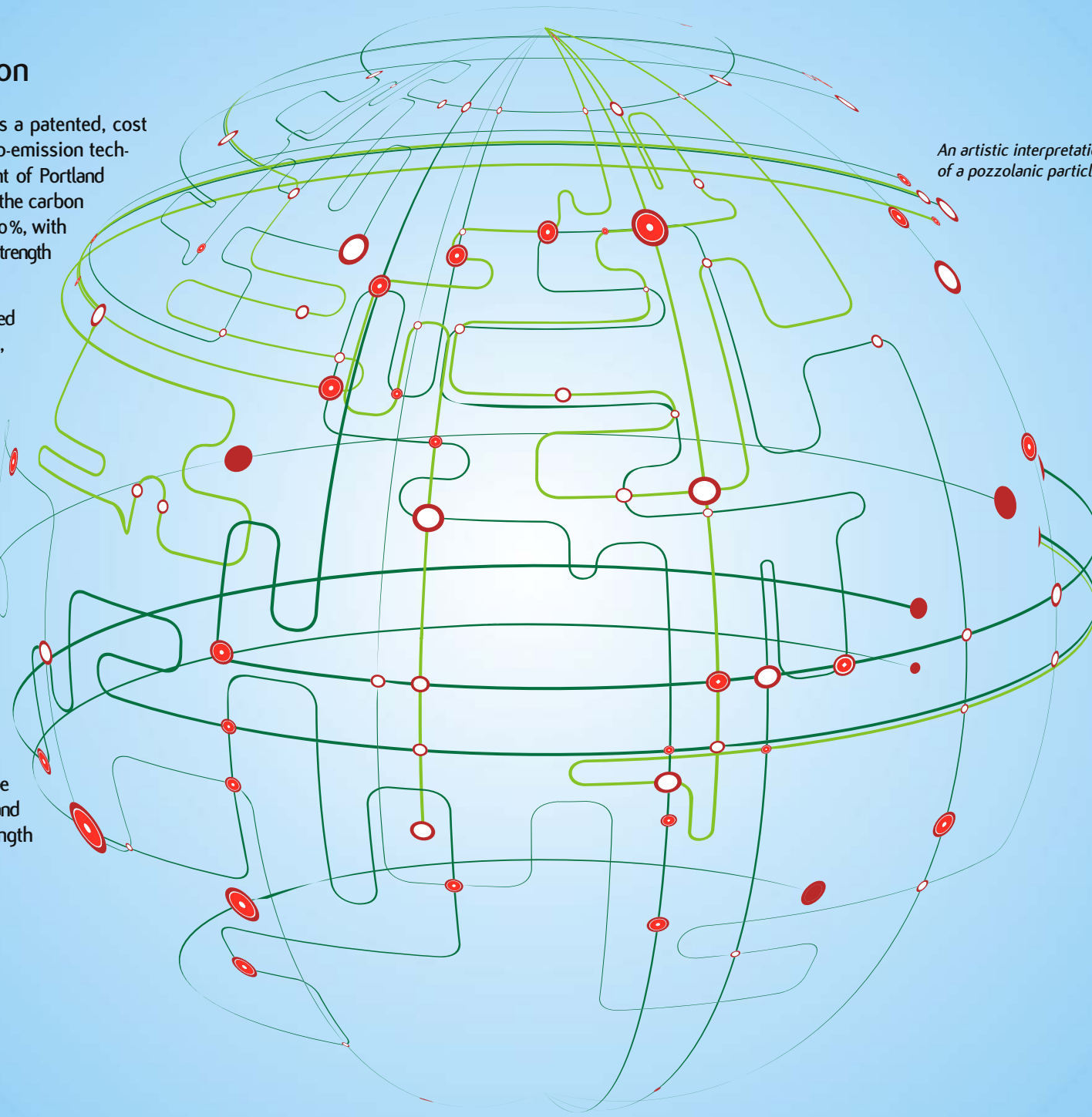
>>: EMC Activation

The EMC Activation Process is a patented, cost and energy efficient, near zero-emission technology for the high replacement of Portland Cement in concrete. It reduces the carbon footprint in concrete by up to 70%, with significantly improved long-term strength and durability.

Materials that are traditionally used daily in concrete such as fly ash, blast furnace slag, natural pozzolans (e.g. volcanic ash) & silica sand, are mechano-chemically activated in proprietary milling systems.

The energy-efficient EMC Process generates high-energy particle-impacts. This leads to deep transformations in the particle-microstructure, in the form of sub-micro cracks, dislocations & lattice defects to significantly increase reactivity with no material increase in overall powder fineness.

The EMC Activation Process can be applied also for processing Portland Cement to make Ultra-High Strength EMC Cement ("super-cement").



An artistic interpretation of the surface activation of a pozzolanic particle undergoing the EMC process.