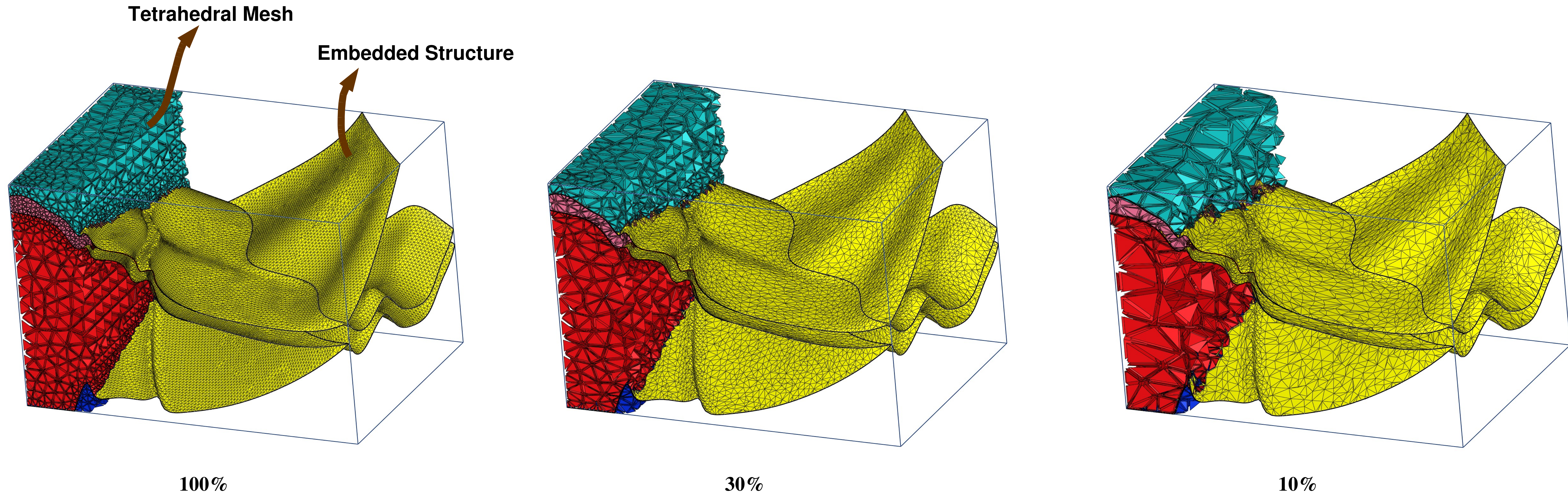




Cut-away view of a tetrahedral mesh modeling different soil types before and after simplification. The topology of regions containing different soil types is important for earthquake prediction, oil exploration, and mining. The boundary between different soil types is treated as an embedded structure (shown in yellow). Topology of the mesh and the embedded structure is preserved during simplification.