



KAMARAJ IAS ACADEMY
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Popocatépetl Volcano 3D Mapping

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Background & Context

Scientists from Mexico's National Autonomous University (UNAM) used five years of seismic data and **Artificial Intelligence** to create the first **3D interior map** of Popocatépetl ("El Popo"), one of the world's most active volcanoes.

Key Discoveries

- **Magma Architecture:** The 3D images revealed complex magma reservoirs extending **18 km deep**.
- **Risk Mitigation:** The map helps predict "conduit" behavior, allowing for more accurate evacuation warnings for the millions living near Mexico City.
- **Scientific Tool:** This uses **Muon Tomography** or advanced seismic sensors to "see" through solid rock, similar to an X-ray for the Earth.

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