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## **Multidisciplinary field and computational studies of sub-surface mass movements at volcanoes: highlights from the VOLUME project.**

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It is now widely accepted that multidisciplinary studies are required to further our understanding of the dynamics of sub-surface mass movement at volcanoes, a prerequisite for a clearer picture of precursory activity to eruptions. Recent advances in gas measurement technology, infrasonics, petrology, large scale deformation studies and the increased applications of broad band & array seismometry coupled with high-end computational simulations continue to move towards that goal. In this presentation we will detail some of the latest findings from VOLUME ([www.volume-project.net](http://www.volume-project.net)), a 17 partner EU funded consortium involving groups from Europe, New Zealand, Central & South America. Particular emphasis will be placed on the growing role of numerical simulations as an aid to data interpretation.