"Indonesia: natural hazards: geotechnical challenges from earthquakes"

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Indonesia's location at the junction of several major tectonic plates, India-Australia, Pacific, Euro-Asia, and Philippines makes it very prone to earthquakes. This talk will describe some interesting cases of ground damage caused by the recent earthquake in Indonesia i.e. liquefaction and landslides, and some lessons learnt from this.

The talk also will explain what tools are used in Indonesia currently to mitigate the earthquake risk. I will discuss some of the challenges that need to be addressed by geotechnical engineers towards risk mitigation and in relation to my research to introduce the Swedish Weight Sounding method as a prospective highly portable and cost effective soil investigation tool for liquefaction assessment, particularly for small to medium cities in Indonesia.