This short presentation shows the benefits of having good seismic network coverage. In terms of understanding the rockmass response, visualization is an invaluable tool to the Rock Engineer/Seismologist. This leads to well informed decisions, and improved safety. It also takes the gut-feel element out of the analysis.

Resolution can be compared to coverage provided by a cell phone network provider. If you don’t have the coverage, you don’t have the information, and are therefore not in a position to make decisions in a continuous design process. The paradox is that for every order of magnitude lower we monitor, there is an order of magnitude more events to process and evaluate. Correspondingly, the effort required to install and maintain a dense network array is also increased. Fortunately with new QS technology the equipment and cabling cost can be considerably reduced.