

## The use of the hand held XRF and portable XRD in geological settings

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**Abstract:** With the rapid portable analytical technology there have been two techniques that have been readily adapted by the global geoscience community that stand above the rest of infield analytical techniques. The handheld XRF and the portable XRD. There is a reason for this high adoption, we explore in this presentation why these two key technologies were successful and what was key to their success and what we have learned in the 5 to 10 years. How they have

changed the industry, what are the future directions of these products?

In the second part of the presentation we look at the technology from a global regulatory approach, what is required from the user's perspective to do in order for their data to be admitted with the Canadian and Australian mineralogical governing bodies. Can they meet compliance regulations for financial reporting? Can we produce lab quality data with these instruments?