The role of GIS and Remote Sensing in Responsible Mining: A Case of Caraga Region, Mindanao Islands, Philippines

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Abstract: This study presents preliminary results of an ongoing project which aims to provide an efficient tool and reference for decision and policy makers, mining companies, and local communities through the use of GIS and remote sensing techniques. These technologies can aid in managing and analyzing various (and of wide range of) spatial data that has links to mining practices in the study area in order to provide many intangible benefits such as maps and analyses (e.g. for biodiversity threats, hazard, contamination, and impact assessments, rehabilitation tool, etc.) for the mining areas of Caraga Region situated in the Mindanao Islands of the Philippines.