

**The Integration of GIS and Seismic Interpretation for Decision Making in the Oil and Gas sector;
A case study of the Izvoru Oil Field, Romania**

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The objective of this project is geared to bridge the gap between the various factors involved in the exploitation of resources by mapping, analyzing and presenting all these components together. From the 3-D model from seismic interpretation using SMT Kingdom, to social infrastructure on the surface like roads, houses, to environmental implications using ArcView, when overlaid, brings the various minds within this fields towards making informed decisions. It also goes further by characterizing the reservoir of the Izvoru field using Geostatistical methods using the seismic and sonic logs to access and predict the evaluate the trend of the stratigraphic traps, evaluate porosity within the formation by inversion using Hampson and Russell (Strata) and propose further areas of exploitation within the field . Though still in progress, it is expected that much can be achieved and this integration can begin from gravity data to pipeline routing with their spatial location and attributes all put into consideration.