

## **UAVs/Drones - Understanding Basics In This New Area As Applications for Unmanned Air Vehicles (UAVs) Take Off and Grow Exponentially**

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Drones are a powerful new tool and they are developing exponentially. Just as high level geophysical and production equipment was developed and became instrumental in the measurement of properties found in the subsurface – technologies today are utilizing high level Unmanned Air Vehicles (UAVs/Drones) and are developing specialized sensors and cameras to gather data for detailed analysis of the upper surface. The importance of reducing our surface footprint has continued to grow over the years & has presented many challenges. Specialized cameras on drones today assist in this area with many capabilities, including:

- detailed photo and spectral imagery
- identification of near surface fluid migration
- mapping of vegetation growth energy levels (before and after)
- detailed mapping of surface elevations
- 3D modelling.

The equipment and applications have grown incredibly fast and are readily available today. However, the rapid growth has the government scrambling as it sets and modifies guidelines and regulations on a regular basis. Up to date knowledge on proper drone procedures, capabilities, plus safety and regulations are in the hands of drone operating companies - and the responsibility of corporations utilizing the operators. Companies and corporations involved in exploration are prudent to investigate all applicable areas of this new tool - UAVs/Drones – plus all “yet to be discovered” applicable areas too!