REQUIREMENT
Quality terrain analytics require fine-scale, timely, & seasonal data for informed decision making. Existing geospatial datasets & analysis tools are insufficient & not built to handle high spatial resolution data sources. The Enhanced Terrain Analysis Tools (ETPT) was developed specifically to eliminate this gap by providing the tools that deliver tactical-level products for improved decision support.

PRODUCT CAPABILITIES
The Enhanced Terrain Analysis Tools (ETPT) is an ESRI ArcGIS plug-in that provides semi-automated & automated analysis workflows for deriving tactical-scale map products directly from satellite sensors & ancillary geospatial data sources. ETPT provides a suite of standardized image interface that will empower geospatial analyst processing & analysis routines packaged in an intuitive step-by-step s of varying technical expertise to perform rigorous geospatial processing with minimal effort.

RADIOMETRIC & TERRAIN CORRECTION:
Remove sensor and atmospheric noise (haze) to represent ground conditions

SPECTRAL INDICES:
Enhance landscape features of interest and improve map classification

AUTOMATED LAND COVER MAPPING:
- Higher resolution, single date, & seasonal maps
- Automatic downloading & processing
- Cloud screening
- Automatic image classification with machine learning
- Accuracy & uncertainty metrics for each image

Accurate land cover maps developed with machine learning algorithms