

## Steps for Terrain Visualization Mapping

- 1 • Download and prepare vector data (Study area extents, place names, points of interest, landuse, roads, waterways and water bodies) in ArcGIS Pro.
- 2 • Prepare raster surface layers like hillshade and slopeshade from landsat imagery and Topobathy DEM data in ArcGIS Pro.
- 3 • Load raster terrain surfaces and landsat imagery in Adobe Photoshop to create an artistic illuminated relief.
- 4 • Create Landsat 8 Image 4-3-2 Band RGB Composites.
- 5 • Create a Water Mask Using Landsat 8 Near Infrared Image Band 5.
- 6 • Create a mosaic of Landsat 8 images in Adobe Photoshop.
- 7 • Apply a High Pass Filter to Landsat mosaic imagery.
- 8 • Apply Adjustment Layer Masks (Water, DEM. Hillshade).
- 9 • Create Hue Saturation and Solid Color layers with Adjustment Masks.
- 10 • Adjust curves and Blend layers.
- 11 • Heal and clean up landsat imagery.
- 12 • Merge all layers, flatten image and export to a TIF format.
- 13 • Add raster image and vector data all together in Adobe Illustrator via Avenza MAPublisher.
- 14 • Create strategically placed labels using Avenza LabelPro.
- 15 • Complete map surrounds.