

## Purpose

SHOTOVER Systems processes many different types of GIS raster and vector data. All data (with limited exceptions) must be converted to our custom and proprietary file format before it will work with our products. Below is information regarding compatible file formats, logistics, and timelines.

## Logistics & Timeline

Data processing turnaround time varies based on the amount of data sent and the complexity of the conversion task. It may take several months in the worst case. Refer to the table below. This time starts when the data is received. **After the GIS team is finished, the support team will need additional time to load, configure, and ship the new data drives.**

| Customer Location | GIS Processing Time |
|-------------------|---------------------|
| USA               | 1 month             |
| International     | 2 months            |

Data transfer methods:

| File Size    | Transfer Method                                                              | Notes                                                                                                                                                                                  |
|--------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Under 50GB   | Portal upload<br>( <a href="https://gis.shotover.com">gis.shotover.com</a> ) | Upload as a single zipped file.                                                                                                                                                        |
| 50GB - 300GB | FTP upload or hard drive exchange                                            | Upload as a single zipped file. Ensure your firewall allows outbound FTP connections. Contact us at <a href="mailto:gis@shotover.com">gis@shotover.com</a> for FTP server credentials. |
| Over 300GB   | Hard drive exchange                                                          | We have loaner hard drives available in sizes up to 47 TB and will cover all shipping costs within the USA.                                                                            |

## Styling/Symbology

The conversion process does not respect preconfigured symbology (e.g. \*.lyr files). If you have specific requests for styling, please include screenshots from a desktop GIS program and our support team will attempt to replicate these as closely as possible using the styling options available in our products.

## Compatible formats:

**Raster:** We can use imagery (or elevation) data in any of these formats:

- GeoTIFF - \*.tif, \*.tiff
- ECW - \*.ecw
- JPEG2000 - \*.jp2
- MrSID - \*.sid
- Erdas Imagine - \*.img
- ArcInfo Grid - \*.adf
- ASCII Grid - \*.asc
- ERMapper ERS - \*.ers
- RPF/CADRG/CIB/NITF - (various extensions)

We may be able to use other formats. If your format is on this page, the chances are good\*:

<https://gdal.org/drivers/raster/index.html>

**\* We are not compatible with ESRI Compact Cache.**

**Vector:** For vector files, we can use:

- Shapefiles - \*.shp with an associated \*.dbf, \*.shx, and \*.prj (and possibly more)
- FileGDB - \*.gdb (folder) (**NOTE:** The GDB cannot be 'compressed', i.e. saved with compression enabled.)
- Geopackage - \*.gpkg
- KML - \*.kml, \*.kmz (**NOTE:** May cause longer turnaround times. Use a different format if possible.)
- GeoJSON - \*.geojson
- PostgreSQL backups/database dumps - \*.sql, \*.backup
- Plain-text/spreadsheet formats - \*.csv, \*.txt, \*.xls (**NOTE:** Works well for simple point data, not recommended for lines or polygons.)

We may be able to use other formats. If your format is on this page, the chances are good:

<https://gdal.org/drivers/vector/index.html>

**Please include any available data dictionaries.**

## Geo-referencing

Any data provided must be geo-referenced. Data is geo-referenced if it has associated information that tells us where it is on the earth. Any format listed above is probably geo-referenced. Other formats may not be - for example, many PDF files, or CAD files such as DXF or DWG. If you are unsure, you are welcome to send data samples for evaluation.

|                                                                                   |                                       |                   |
|-----------------------------------------------------------------------------------|---------------------------------------|-------------------|
|  | <b>GIS Compatibility Instructions</b> | Work Instructions |
|                                                                                   |                                       | Rev1Dec2025       |

# Disclaimers

## Update Frequency

Standard policy is that SHOTOVER will provide one free data update per year upon customer request, unless other arrangements have been made.

## Level of Effort

SHOTOVER generally has a high tolerance for the level of effort required to process data. However, in severe cases of data incompatibility and/or level of effort required, we may impose an additional surcharge, decline to process a portion of your data conversion request, or decline your request outright.

## Data Collection

SHOTOVER map data is an amalgamation of a variety of free datasets, paid datasets, and customer-provided data. SHOTOVER does not collect the data that goes into those datasets.

## Modification & Correction of Data

SHOTOVER will not modify customer-provided data. Any errors in the customer-provided data are the responsibility of the customer to correct.

# Contact Information

## GIS Mapping Data:

For GIS mapping data assistance, please contact [gis@shotover.com](mailto:gis@shotover.com).

## Customer Support:

For assistance, contact SHOTOVER Systems at +1 720 744-3300 or [support@shotover.com](mailto:support@shotover.com).