

## SHOULD I USE SHAPEFILE OR GEODATABASE?

Spatial data storage is necessary but not a given. Use this format comparison to make an informed choice.

SHAPEFILE	Category	GEODATABASE
<ul> <li>Groups several individual files that work together (typically geometry, attributes, and indexing)</li> <li>Near-universal compatibility with all GIS software packages</li> <li>Considered the most portable format in GIS as users outside of Esri environments/geodatabases can access files</li> </ul>	Key Benefits	<ul> <li>Groups similar data into one database</li> <li>Allows topology setup, coded value domains, raster catalogs, relationship classes, and geometric networks</li> <li>Increases spatial function performance speed</li> </ul>
Greater than .gdb	File Size	Less than .shp
10 characters	Field Name Length Limit	64 characters
2 GB	File Size Limit	Limited by computer hard drive storage space
Limited only by operating system	Table /Feature Class Name Length	160 characters
Vector	Data Types	Vector, Raster and more complex data such as topology
Can't be used in a field (O used instead)	NULL Values >	Supported
No	File Compression	Yes
No	Proprietary Esri Format	Yes

Using the best tools for the job at hand is a matter of choice, not chance. Reach out to the ADCi team with any questions about how to make your digital mapping its most efficient and effective.









