Criteria for selecting spatial information system software

Program name	GIS X
Manufacturer/distributor	Company X
Manufacturer's phone number	
Cost per seat	
Date of first release	

SOFTWARE FEATURES	
Operating system/network support	
• Network client/server support	
• Server operating system	
• Client operating system	
• Internet server enabled	
GIS data administration	
• Multi-user edit locking	
• Versioning	
• Metadata maintenance	
Database management	
• Proprietary DBMS	
• Relational database management system	
• RDBMS spatial data warehouse	
Native Graphic Data Structure and Format	
• Vector – spaghetti	
• Vector – topologic	
• Parametric	
• 3-D	
• TIN	
• Grid	
• Raster image	
GIS data import/export utilities	
• Direct import formats	
• Direct export formats	

continued

Criteria for selecting spatial information system software (continued)

GIS data entry and editing	
• Board digitising	
• Coordinate geometry/precision entry	
• Electronic survey data import	
• Heads-up digitising	
• Vectorisation	
• Map rectification	
• Graphic error check/correction	
• Field data entry	
Map design and composition	
• Interactive map composition	
• Annotation from attributes	
• Global symbol change	
• Thematic mapping	
Geographic query and analysis functions	
• Attribute query and selection	
• Map measurements	
• Address matching	
• Buffer generation	
• Point/line-in-polygon analysis	
• Polygon overlay	
• Network analysis	
• Raster document query and access	
• Direct access to other GIS format	
Terrain data processing and analysis	
• Digital elevation model (DEM) generation	
• Contour map generation	
• 3-D display/profile generation	
• Map draping	
• Slope/aspect analysis	

continued

Criteria for selecting spatial information system software (continued)

Raster image capabilities	
• Geometric rectification	
• Orthoimage generation	
• Image enhancement	
• Spectral classification	
Application development language	
• Proprietary application development language	
• Industry standard programming environment	