

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY Faculty of Mining Surveying and Environmental Engineering Departament of Geomatics



Using Geographic Information System Software For A Digital City Map Construction

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Purposes

- Capabilities test of GIS software in field of a digital city map construction
- Creation of the city map
- > 2D presentation
- > 3D visualization



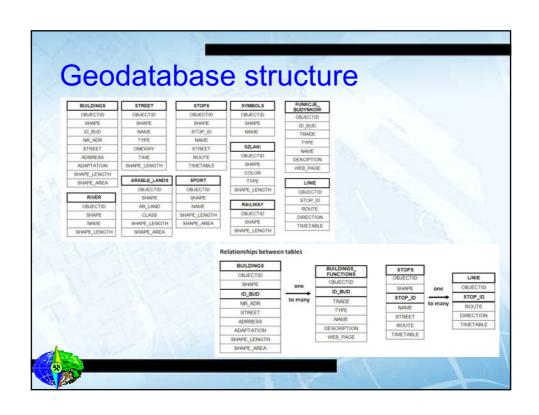
Software ArcGIS ArcInfo Extensions ArcGIS Network Analyst ArcGIS 3D Analyst Photoshop

Data Vector Data Building contuors Axis of streets and rivers Landuse contuors Set of points with address information Digital Terrain Model (TIN) Raster Data - Topographic Map Reconnaissance Information about buildings Photos



- Gathering Data
- Geodatabase
 - import/export data
 - topology
 - adding attributes into objects
 - creation relationships between tables
 - geocoding
 - creating routes
- > 2D and 3D presentation of the city map





Capabilities of the city map Zoom In/out and pan view Show/hide layers Set a layer's visible scale range Identifying ✓ Identify tools ✓ Hyperlink ✓ MapTips Searching ✓ Find ✓ Select - By attribute - By location Network analysis ✓ Finding the best route ✓ Finding the closest facilities Print

