

Measuring the Effect of Smart Growth Policies in Maryland Using LEHD and Other Data

Question your work tried to answer	How to use LEHD data to analyze walkability and progress toward smart growth goals
Local Employment Dynamics data sources used	<input type="checkbox"/> OnTheMap <input type="checkbox"/> QWI <input type="checkbox"/> Industry Focus <input checked="" type="checkbox"/> Raw data files from CD or VRDC <input type="checkbox"/> Other: _____
Other data sources used	Road network data, Census data on housing density by Census block, and data on public transportation usage.
Software/ data processing tools used	ArcGIS 10.0, ArcGIS Network Analyst and Spatial Analyst
Brief description of methodology (if someone wanted to do a similar analysis, how should they approach it?)	LEHD Origin-Destination data for Maryland and surrounding states was analyzed on the block level. Emphasis was placed on how far workers had to commute to get to work. LEHD job location data by supersector was used to discover where certain job types were located. Road network data was used to analyze the density of intersection nodes. All of these layers were run through Spatial Analyst to create a neighborhood analysis and find which areas had high densities of intersections, jobs of certain types, and proximity to public transit. These areas were designated to be areas with high “smart growth” achievement.
Benefits of methodology/ data	Allows analysis of smart growth without using confidential or proprietary data, analysis is easily replicated using proper software.
Drawbacks/problems with methodology/data	LEHD data is not as accurate as point-level firm data used in other analysis types (such as the Walk Score).
Anything else?	More work needs to be done using the O-D data, and the analysis will be more relevant after time series data is included.
Who and how to contact for more information:	James Palma Senior Manager, Research and Information Maryland Department of Business and Economic Development World Trade Center 401 East Pratt Street, 9 th Floor Baltimore, MD 21202 jpalma@choosemaryland.org 410-767-6680