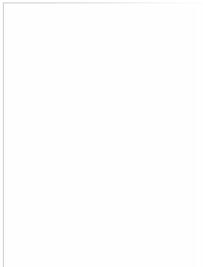

Auto Communities in Recession and Transition

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The Brookings Institution

Automotive Communities and Workforce Adjustment
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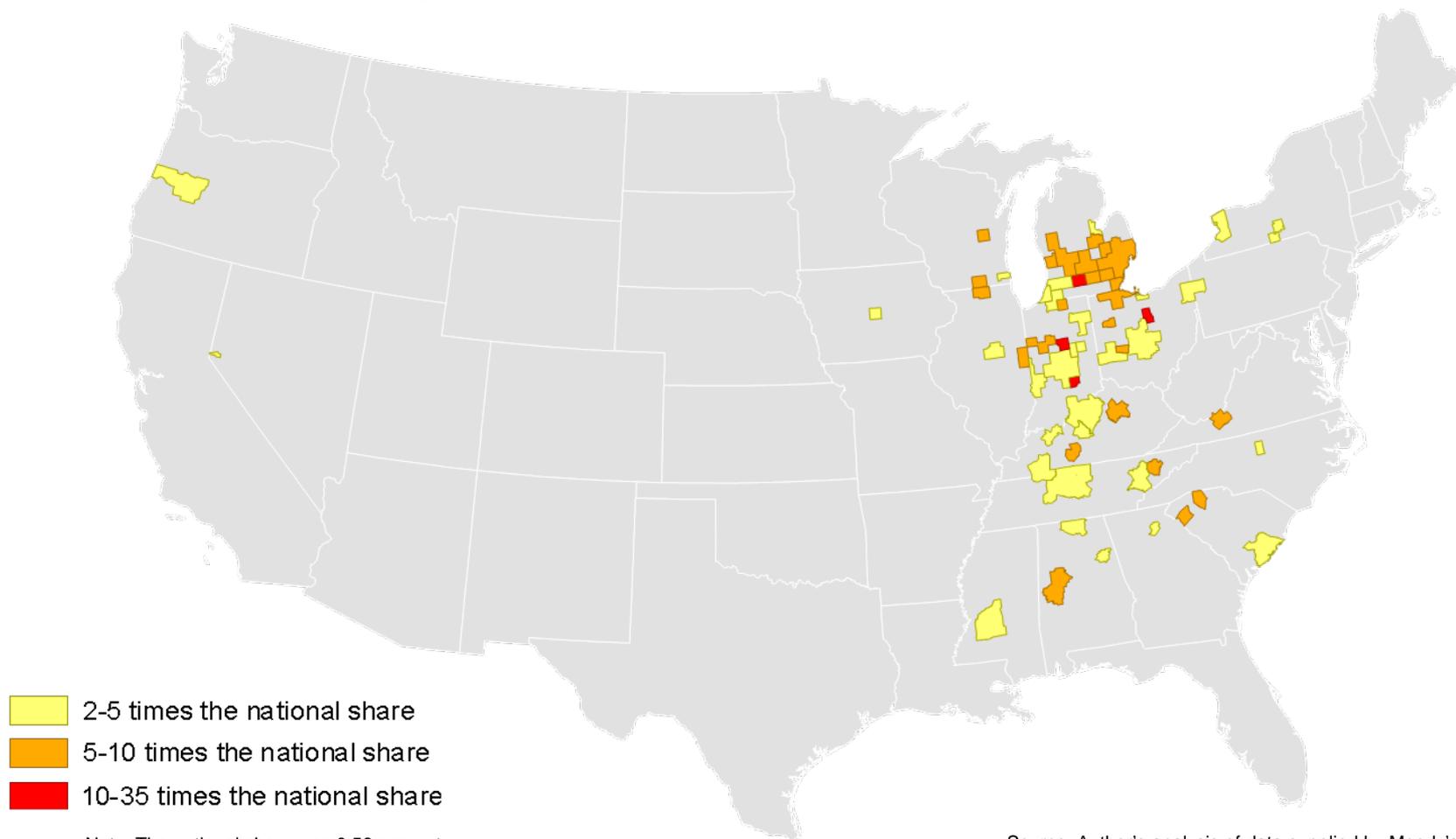


What has happened to U.S. auto communities?

- Where are these communities?
- How have they fared during the current recession?
- Which communities have experienced long-term losses of total employment and transportation equipment employment?
- What structural changes have occurred in their economies since the previous recession began?

At the start of the current nationwide recession, 62 metropolitan areas were highly 'auto-dependent'

Metro area job concentration in motor vehicle and parts manufacturing, 4th quarter 2007



Note: The national share was 0.56 percent

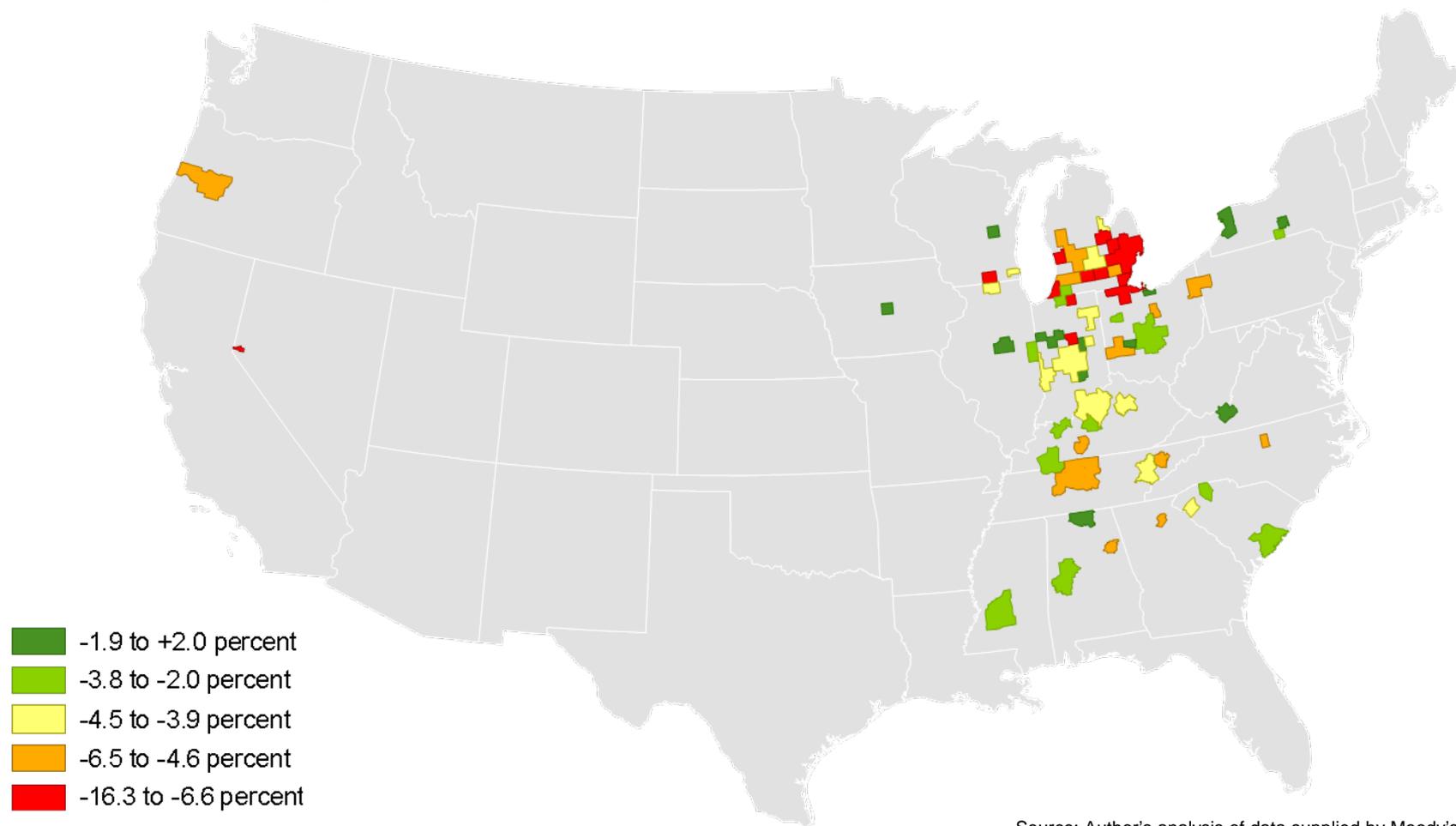
Source: Author's analysis of data supplied by Moody's Economy.com

Many small metro areas have very high concentrations of jobs in motor vehicle and parts manufacturing

Metropolitan area	Share of jobs in motor vehicle and parts manufacturing, 4th quarter 2007	Metropolitan area	Share of jobs in motor vehicle and parts manufacturing, 4th quarter 2007
Kokomo, IN	19.6%	Elizabethtown, KY	2.4%
Columbus, IN	8.1%	South Bend-Mishawaka, IN-MI	2.3%
Battle Creek, MI	7.0%	Fort Wayne, IN	2.2%
Mansfield, OH	6.6%	Anderson, IN	2.2%
Morristown, TN	5.5%	Dayton, OH	2.1%
Detroit-Warren-Livonia, MI	5.3%	Terre Haute, IN	2.0%
Lafayette, IN	5.2%	Sandusky, OH	2.0%
Flint, MI	4.9%	Kalamazoo-Portage, MI	1.9%
Spartanburg, SC	4.8%	Owensboro, KY	1.9%
Oshkosh-Neenah, WI	4.5%	Nashville-Davidson--Murfreesboro--Franklin, TN	1.8%
Blacksburg-Christiansburg-Radford, VA	4.3%	Bloomington-Normal, IL	1.8%
Saginaw-Saginaw Township North, MI	4.2%	Knoxville, TN	1.8%
Janesville, WI	4.1%	Bay City, MI	1.7%
Holland-Grand Haven, MI	4.0%	Anniston-Oxford, AL	1.6%
Elkhart-Goshen, IN	4.0%	Niles-Benton Harbor, MI	1.6%
Jackson, MI	4.0%	Clarksville, TN-KY	1.6%
Anderson, SC	3.9%	Ames, IA	1.5%
Bowling Green, KY	3.6%	Jackson, MS	1.5%
Monroe, MI	3.6%	Louisville-Jefferson County, KY-IN	1.4%
Springfield, OH	3.5%	Ithaca, NY	1.4%
Danville, IL	3.4%	Carson City, NV	1.4%
Ann Arbor, MI	3.3%	Burlington, NC	1.4%
Tuscaloosa, AL	3.2%	Youngstown-Warren-Boardman, OH-PA	1.4%
Grand Rapids-Wyoming, MI	3.2%	Columbus, OH	1.3%
Lansing-East Lansing, MI	3.0%	Gainesville, GA	1.2%
Toledo, OH	3.0%	Elmira, NY	1.2%
Rockford, IL	2.9%	Indianapolis-Carmel, IN	1.2%
Lima, OH	2.9%	Charleston-North Charleston-Summerville, SC	1.2%
Lexington-Fayette, KY	2.9%	Racine, WI	1.2%
Huntsville, AL	2.7%	Eugene-Springfield, OR	1.1%
Muncie, IN	2.6%	Buffalo-Niagara Falls, NY	1.1%

Job losses during the current recession vary by motor vehicle and parts employment share, region size, and ties to the Detroit three automakers

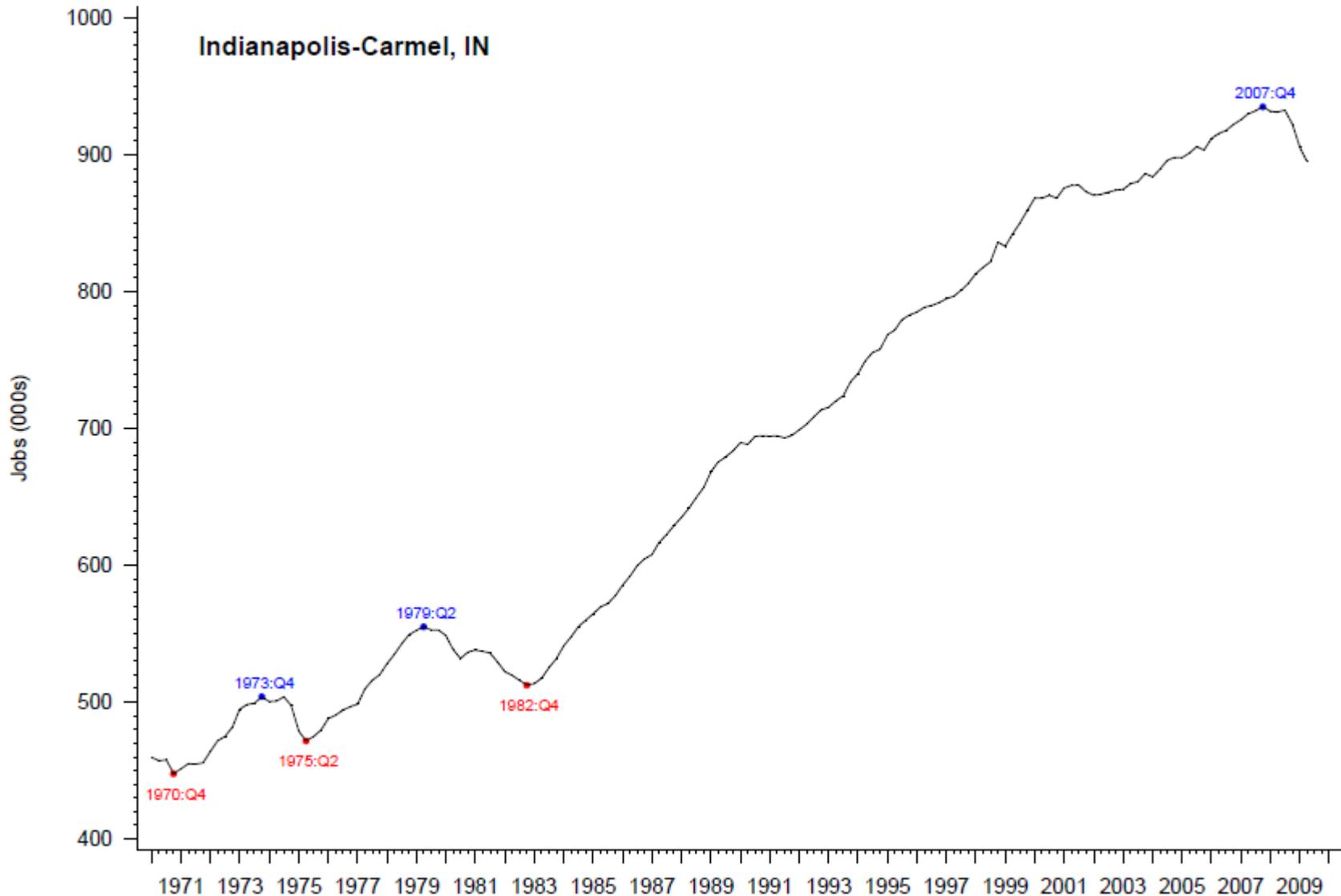
Percent job change from the 4th quarter of 2007 to the 2nd quarter of 2009



Job losses from the 4th quarter of 2007 to the 2nd quarter of 2009 range from -16.3 percent in Elkhart, IN to +2.0 percent in Sandusky, OH

Metropolitan area	Percent change in total employment, 4th quarter 2007 to 2nd quarter 2009	Metropolitan area	Percent change in total employment, 4th quarter 2007 to 2nd quarter 2009
Sandusky, OH	2.0%	Indianapolis-Carmel, IN	-4.2%
Lafayette, IN	1.4%	Racine, WI	-4.3%
Ames, IA	1.0%	Bay City, MI	-4.3%
Bloomington-Normal, IL	0.9%	Anderson, SC	-4.5%
Ithaca, NY	0.0%	Lansing-East Lansing, MI	-4.5%
Anderson, IN	-0.5%	Dayton, OH	-4.6%
Blacksburg-Christiansburg-Radford, VA	-0.7%	Gainesville, GA	-4.7%
Oshkosh-Neenah, WI	-1.1%	Nashville-Davidson--Murfreesboro--Franklin, TN	-4.7%
Columbus, IN	-1.2%	Anniston-Oxford, AL	-4.8%
Huntsville, AL	-1.3%	Morristown, TN	-5.1%
Springfield, OH	-1.8%	Kalamazoo-Portage, MI	-5.3%
Buffalo-Niagara Falls, NY	-1.9%	Ann Arbor, MI	-5.3%
Columbus, OH	-2.0%	Mansfield, OH	-5.6%
Charleston-North Charleston-Summerville, SC	-2.1%	Bowling Green, KY	-5.7%
Jackson, MS	-2.2%	Burlington, NC	-5.8%
Elmira, NY	-2.3%	Youngstown-Warren-Boardman, OH-PA	-6.1%
Owensboro, KY	-2.4%	Grand Rapids-Wyoming, MI	-6.2%
Clarksville, TN-KY	-2.7%	Eugene-Springfield, OR	-6.3%
South Bend-Mishawaka, IN-MI	-3.0%	Jackson, MI	-6.6%
Spartanburg, SC	-3.0%	Niles-Benton Harbor, MI	-6.6%
Danville, IL	-3.2%	Carson City, NV	-6.8%
Tuscaloosa, AL	-3.5%	Battle Creek, MI	-7.1%
Lima, OH	-3.5%	Saginaw-Saginaw Township North, MI	-7.2%
Elizabethtown, KY	-3.6%	Toledo, OH	-7.3%
Knoxville, TN	-3.9%	Janesville, WI	-7.4%
Lexington-Fayette, KY	-3.9%	Holland-Grand Haven, MI	-8.6%
Louisville-Jefferson County, KY-IN	-4.0%	Monroe, MI	-9.1%
Fort Wayne, IN	-4.0%	Detroit-Warren-Livonia, MI	-10.0%
Terre Haute, IN	-4.1%	Flint, MI	-10.1%
Rockford, IL	-4.1%	Kokomo, IN	-13.5%
Muncie, IN	-4.2%	Elkhart-Goshen, IN	-16.3%

Six of the auto-dependent regions—Charleston, SC; Gainesville, GA; Huntsville, AL; Indianapolis, IN; Ithaca, NY; and Knoxville, TN—have had persistent gains in total employment until only recently



Source: Author's analysis of data supplied by Moody's Economy.com

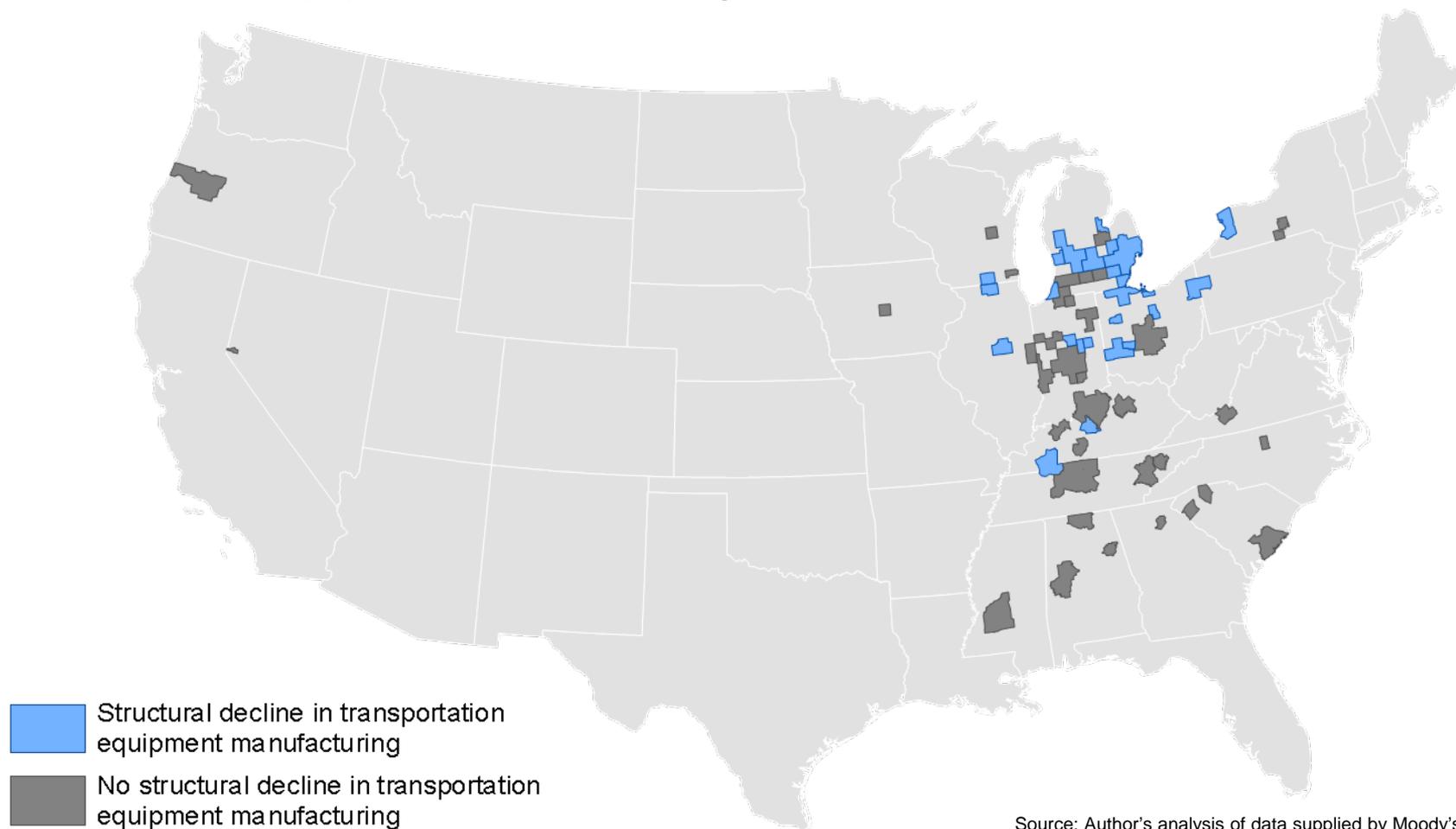
And of the these 56 metros, 25 have experienced structural declines in transportation equipment manufacturing

Structural Decline:

- If employment in transportation equipment manufacturing declined during the current and previous cyclical downturns in total employment and the intervening upturn in the metropolitan area
- Or, if there was no upturn in the metropolitan area, employment in transportation equipment manufacturing declined from the 1st quarter of 2001 to the 2nd quarter of 2009.

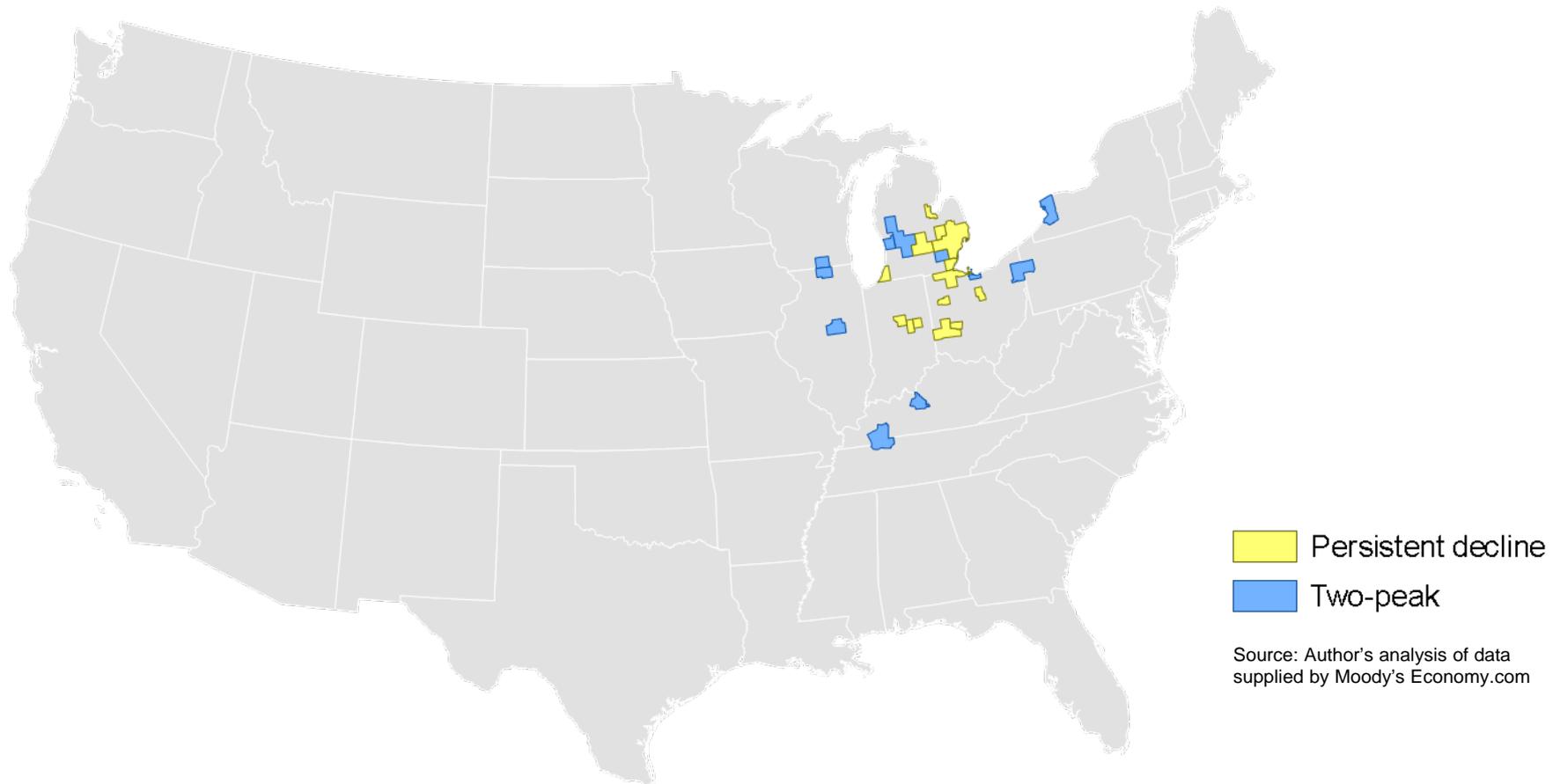
The 25 that have experienced structural decline in transportation equipment manufacturing are the places that require the most attention to industrial retention and growth strategies

Presence of structural decline in transportation equipment manufacturing



Of these 25 auto-dependent metropolitan areas, there are generally two types

1. Places with two recent (since 1997) employment peaks
2. Places without two recent peaks that have had persistent employment declines since the early 2000 recession or before



Patterns of structurally changing industries in the 11 two-peak metro areas

Industries with frequent patterns of structural decline	Frequency
Transportation Equipment Manufacturing	11 metro areas
Leather and Allied Product Manufacturing	10
Textile Mills	10
Petroleum and Coal Products Manufacturing	9
Furniture and Related Product Manufacturing	8
Apparel Manufacturing	7
Electrical Equipment, Appliance, and Component Manufacturing	7
Beverage and Tobacco Product Manufacturing	6
Computer and Electronic Product Manufacturing	6
Motor Vehicle and Parts Dealers	6
Paper Manufacturing	6
Fabricated Metal Product Manufacturing	5
Food and Beverage Stores	5
Plastics and Rubber Products Manufacturing	5
Industries with frequent patterns of structural growth	Frequency
Ambulatory Health Care Services	8 metro areas
Hospitals	5
Nursing and Residential Care Facilities	5
Social Assistance	5
Warehousing and Storage	5

There are many structurally declining industries in the 14 persistently declining metro areas

Industries with frequent patterns of structural decline	Frequency	Industries with frequent patterns of structural decline (cont.)	Frequency
Beverage and Tobacco Product Manufacturing	14 metros	Fishing, Hunting, Etc.	12 metros
Farms	14	Heavy and Civil Engineering Construction	12
Leather and Allied Product Manufacturing	14	Petroleum and Coal Products Manufacturing	12
Machinery Manufacturing	14	Primary Metal Manufacturing	12
Military Personnel	14	Printing and Related Support Activities	12
Miscellaneous Manufacturing	14	Publishing Industries (except Internet)	12
Miscellaneous Store Retailers	14	Amusement, Gambling, and Recreation Industries	11
Motor Vehicle and Parts Dealers	14	Federal Government	11
Specialty Trade Contractors	14	Merchant Wholesalers, Nondurable Goods	11
Transportation Equipment Manufacturing	14	Mining (except Oil and Gas)	11
Accommodation	13	Motion Picture and Sound Recording Industries	11
Broadcasting (except Internet)	13	Oil and Gas Extraction	11
Construction of Buildings	13	Utilities	11
Food and Beverage Stores	13	Administrative and Support Services	10
Furniture and Home Furnishings Stores	13	Building Material and Garden Equipment and Supplies Dealers	10
Furniture and Related Product Manufacturing	13	Couriers and Messengers	10
Gasoline Stations	13	Food Manufacturing	10
General Merchandise Stores	13	Internet Service Providers, Web Search Portals, and Data	10
Nonmetallic Mineral Product Manufacturing	13	Lessors of Nonfinancial Intangible Assets (except Copyrighted)	10
Paper Manufacturing	13	Local Government	10
Plastics and Rubber Products Manufacturing	13	Nonstore Retailers	10
Textile Mills	13	Other Information Services	10
Textile Product Mills	13	Private Household Workers	10
Wood Product Manufacturing	13	Real Estate	10
Apparel Manufacturing	12	Repair and Maintenance	10
Computer and Electronic Product Manufacturing	12	Sporting Goods, Hobby, Book, and Music Stores	10
Electrical Equipment, Appliance, and Component Manufacturing	12	Support Activities for Mining	10
Fabricated Metal Product Manufacturing	12		

Patterns of structurally growing industries in the 14 persistently declining metro areas

Industries with frequent patterns of structural growth	Frequency
Social Assistance	14 metros
Ambulatory Health Care Services	13
Hospitals	13
Nursing and Residential Care Facilities	13
Educational Services	12
Credit Intermediation and Related Activities	8
Museums, Historical Sites, and Similar Institutions	8
Support Activities for Transportation	8
Transit and Ground Passenger Transportation	8
Funds, Trusts, and Other Financial Vehicles	7
Performing Arts, Spectator Sports, and Related Industries	7
Rail Transportation	7
Religious, Grantmaking, Civic, Professional, and Similar Organizations	7
Securities, Commodity Contracts, and Other Financial Investments and Related Activities	7
State Government	7
Truck Transportation	7
Warehousing and Storage	7
Air Transportation	6
Clothing and Clothing Accessories Stores	6
Food Services and Drinking Places	6
Insurance Carriers and Related Activities	6
Monetary Authorities - Central Bank	6
Rental and Leasing Services	6
Telecommunications	6
Waste Management and Remediation Services	6

Conclusions

Of the 62 most auto-dependent metro areas:

- 6 had persistent total job growth until recently
- 31 did not have structural decline in transportation equipment manufacturing
- The remaining 25 are those that require the most attention to industrial retention and growth strategies
- Of those 25, there are two kinds of places; each is potentially able to benefit from different types of strategies
- Smaller places and those that are most dependent on motor vehicle and parts manufacturing and the Detroit 3 have suffered more during the current recession and structurally