

Are America's Inner Cities Competitive? Evidence From the 2000s

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Abstract

In the years since Michael Porter's research about the potential competitiveness of inner cities, there has been growing evidence of a residential resurgence in urban neighborhoods. Yet there is less evidence on the competitiveness of inner cities for employment. The authors document the trends in net employment growth and find that inner cities gained over 1.8 million jobs between 2002 and 2011 at a rate comparable with suburban areas. The authors also find a significant number of inner cities are competitive over this period—increasing their share of metropolitan employment in 144 out of 281 metropolitan statistical areas. Also described is the pattern of job growth within the inner city. The authors find that tracts that grew faster tended to be closer to downtown, with access to transit and adjacent to areas with higher population growth. However, tracts with higher poverty rates experienced less job growth, indicating that barriers still exist in the inner city.

Keywords

inner-city employment, competitiveness, economic development

In the years since Michael Porter's seminal research about the potential competitiveness of inner cities, two narratives have emerged about the overall pattern of urban economic development. The first, which we call the "comeback cities" narrative, states that the decades of the 1990s and 2000s were a renaissance for cities, as flows of population, jobs, and investment shifted back from suburbs and exurbs to urban areas, particularly to downtowns. The literature on gentrification, as well as the oft-cited creative class theories of Richard Florida (2003), underscore this narrative by highlighting the pro-urban preferences and consumption patterns of a new, rising middle class (Smith, 2002; Zukin, 1982). The second narrative that has taken shape is that of an uneven geography of growth in the past few decades. The literature on high-technology regions argues that contemporary U.S. economic development has taken on a distinctly uneven pattern that leads to a polarization between so-called "innovative" regions and "backward" regions, which in turn drives inequality and a divergence in outcomes across metropolitan areas (Moretti, 2012; Pastor, Lester, & Scoggins, 2009; Saxenian, 1994). The implication of this second narrative is that the type of inner-city renaissance described in the first narrative will only occur in growing, innovative regional economies. However, is this necessarily the case? Can innercity economic growth occur in declining regions? Recent research has demonstrated an empirical link between gentrification and neighborhood job growth (Lester & Hartley, 2014). Yet, is the type of consumption-based growth that is fueled by gentrification in growing regions like New York or the San Francisco Bay Area the only mechanism to bring jobs back to urban neighborhoods? Or can robust job growth stem from expansion of anchor institutions in nontradable sectors such as universities and health care institutions (Adams, 2003; Harkavy & Zuckerman, 1999)? In addition to private market-driven development, policy makers have employed a host of economic development tools and distributed millions of dollars in funding targeted toward business development and job growth in inner-city neighborhoods. Have tools such as targeted tax credits (e.g., empowerment zone [EZ]/enterprise community designation, low-income housing tax credit [LIHTC]) influenced the pattern of innercity employment growth? In this study, we explore these intertwined narratives by describing the pattern of neighborhood-based employment changes at a national scale. We then test the validity of a number of competing claims about the competitiveness of inner-city neighborhoods in terms of economic development during the 2000s.

First, using data at the census tract level from the Local Origin-Destination Employment Statistics (LODES) program at the U.S. Census Bureau, we begin by providing an overview of the extent and broad characteristics of employment growth of inner cities, central business districts (CBDs), and suburban areas of all metropolitan areas in the United

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States. Surprisingly, we find that the rate of job growth between 2002 and 2011 in inner cities—defined broadly as non-CBD tracts in the largest principal city within a metropolitan area—was on par with that of suburban areas (6.1% vs. 6.9%) and even surpassed suburbs in the post–Great Recession recovery (2009-2011). This trend is consistent across broad census regions. Yet this trend is less pronounced—though still positive—when we focus only on portions of the inner city that were more economically distressed at the start of the 2000s.

Next, we explicitly test the question of inner-city competitiveness by identifying metropolitan areas that had both net positive employment growth and an increase in the share of jobs located in the inner city (these two criteria form our working definition of competitive inner cities). We find 144 metropolitan statistical areas (MSAs) with competitive inner cities using our broad definition of inner-city tracts and 85 using the narrower method. These MSAs are diverse geographically, but compared with other metropolitan areas, tend to have above-average growth in high-wage jobs, less racial segregation, and less job sprawl.

Finally, we provide a descriptive analysis of the spatial determinants of inner-city growth at the tract level within inner-city areas. Specifically, we find that inner-city employment growth is positively associated with neighborhoods closer to downtown, with nearby population increases, recent residential construction, and other indicators of gentrification. We also find that employment grew faster in areas with mixed uses and greater employment diversity. There is some evidence that EZ designation is associated with more employment growth; however, tracts with high poverty levels have lower job growth. Within economically distressed inner-city areas, these findings are very similar, although job growth is driven less by indicators of gentrification and is more closely associated with the expansion of anchor institutions.

The remainder of the study is organized as follows: The second section reviews the research on the competitiveness of inner cities and puts our empirical analysis in the context of the literature inspired by Porter's work. The third section describes the main data sets and analytical methods used in our analysis. This is followed by a section on the descriptive analysis of the patterns of inner-city job growth in aggregate and describes our analysis of the characteristics of regions with competitive inner cities. The fifth section presents our model of tract-level correlates of inner-city employment growth. The final section concludes the study and summarizes our descriptive analysis of the nature of inner-city job growth in the 2000s.

Literature Review

Writing in 1997 in this journal, Michael Porter made a strong and influential argument that inner-city areas had important

and "unrecognized" competitive advantages as a business location. Specifically, he called for a private-sector-led economic development strategy that leveraged the strategic location of inner-city neighborhoods (near the CBD and key infrastructure), and the integration with existing regional economic strengths as well as the local purchasing power and human resources of inner-city residents (Porter, 1997). While he recognized a significant role for government (and nonprofits). Porter also helped highlight regulatory barriers of high taxes and red tape that prevented further private sector investment. Looking back at his strategic recommendations and comparing them with current practice, it is easy to see how influential they have been, as few contemporary urban economic developers or planners would find much to disagree with.² However, it is important to recall the context in which he was writing. Although the mid-1990s was a period of significant economic growth for the United States, it followed nearly two decades of economic restructuring that significantly altered the economic role of central cities and changed the geography of employment opportunities throughout most metropolitan areas in the country.

The decades of the 1970s and 1980s were characterized by a pattern of economic restructuring that featured the dual trends of massive manufacturing job losses coupled with the continued suburbanization of population and employment. These trends significantly reduced the base of job opportunities for residents of inner-city neighborhoods, which once housed many of the goods-producing jobs and a predominantly working-class workforce. The problem of declining employment in older, inner-city neighborhoods and growth in emerging suburban areas was first recognized in the late 1960s by scholars like Kain (1968), who argued that housing discrimination coupled with lack of opportunity in urban areas led to persistently high unemployment of minority workers in inner cities. Although the "spatial mismatch" hypothesis has been a widely debated topic in the social sciences (see Chapple, 2006; Ihlanfeldt & Sjoquist, 1989; Teitz & Chapple, 1998), the declining employment within innercity neighborhoods was widely viewed as a critical problem. To get a sense of how profoundly scholars viewed the problem of the inner city in the mid-1990s, we recall here the opening lines of Galster and Killen's (1995) article on the geography of metropolitan opportunity as follows:

Horatio Alger lies dead in the streets of the inner city. For millions of Americans, the rags-to-riches fable has been reduced to ashes just as surely as have many blocks in South Central Los Angeles and other desperate inner-city communities. What once was a spring board of socioeconomic mobility for generations . . . has for too many been transformed into a pit in which perpetual deprivation and social dysfunction reign. (p. 7)

Scholars from a wide variety of disciplines attempted to diagnose the problems associated with lack of inner-city

employment opportunities, linking it with broader issues of neighborhood decline including high crime, persistent poverty, segregation, and changing attitudes toward work (Kasarda, 1993; Katz, 1993; Wilson, 1987, 1996).

The issue of declining inner-city employment and population losses, coupled with continued suburbanization and sprawl, also spawned concerns that declining central cities could pose a drag to an entire region's economic growth. This, in turn, ignited a series of studies specifically focused on the question of whether or not suburbs could prosper without their central cities (Hill, Wolman, & Ford, 1995; Ledebur & Barnes, 1993; Voith, 1992, 1998). Pack's (2002) comprehensive analysis of long-term trends in metropolitan economic performance bears this out. Between 1960 and 1990, the share of income earned by central city residents declined from 45% to 30% and rose in suburban areas from 55% to 70% (Pack, 2002). Although a great deal of empirical work focused on the issue of inner-city competitiveness and the interdependency of suburbs and cities, eventually a consensus emerged supporting the idea that the economic health of both areas was closely linked by regional factors. Voith (1992) concluded that

decline in central cities is likely to be associated with slow-growing suburbs. Even if the most acute problems associated with urban decline do not arise in the suburbs, central city decline is likely to be a long-run, slow drain on the economic and social vitality of the region. (p. 31)

Just as the attention of federal policy makers shifted away from defining economic challenges in stark urban versus suburban terms, the academic literature shifted in the following decade to questions of the determinants of overall metropolitan economic competitiveness. The key question here was what factors explained the relative economic health and resilience of some metropolitan regions, particularly those with a growing high-technology industrial base. The work of Saxenian (1994), Storper (1997), and others argued that metropolitan areas that featured regionally based networks of firms and supporting institutions that foster accelerated innovation were ultimately more resilient to economic restructuring, and as a result, are more competitive in terms of employment and income growth. This emphasis on innovation and regional competitiveness in the economic development literature had a profound impact on practice (Clark, 2013) and shifted the focus away from intrametropolitan disparities, and instead highlighted the overall uneven pattern of metropolitan growth in the 1990s and 2000s.

Starting in the early 2000s, a new narrative began to emerge on "comeback cites" as many scholars used newly available census data to identify a growing trend of residential growth particularly focused in the downtown and nearby areas of older central cities (Sohmer & Lang, 2001). Much of this research highlighted shifting demographics, such as the

aging of the population (i.e., empty nesters without children) and changing preferences for high-amenity locations like downtown as the causes of residential resurgence of downtown areas. This research is largely congruent with a preexisting literature on the causes and consequences of gentrification. What began as a niche field that focused on select neighborhoods in places like the Lower East Side in New York (Smith, 1996) or the South End in Boston and was initially considered a relatively small trend (Wyly & Hammel, 1999), has now grown to be an active literature drawing scholarship from a wide variety of disciplines. Whereas much of the empirical debate in the gentrification literature focused on measuring the extent of displacement (Freeman, 2005; Marcuse, 1985; Vigdor, 2002) within individual cities, there is growing consensus that gentrification is part of a broader demographic shift that results in the influx of bettereducated and high-income households to formerly low- and moderate-income inner-city neighborhoods. The drivers of this trend are seen to involve changes in the consumption and locational preferences of what some sociologists called a "new middle class" (Ley, 1996) and what Richard Florida (2002) later termed the "creative class." Regardless of their moniker, members of this demographic subgroup favor urban living and the greater accessibility it affords over the suburban dream of previous generations. According to these scholars, such preference shifts also drive gentrification by increasing demand for urban entertainment and consumption spaces for the new high-income residents (Lloyd & Clark, 2001; Zukin, 1982).

While scholars continue to debate how widespread and significant gentrification is as a demographic trend and what it will ultimately mean for inner cities, there is a growing literature that has examined the impact of gentrification on employment within inner-city neighborhoods. Curran (2004, 2007) focused on a single neighborhood—Williamsburg in Brooklyn—and found that new residential growth led to displacement of nearby industrial jobs. Meltzer and Schuetz (2012) showed that neighborhood retail grew faster in New York City neighborhoods that experienced gentrification. More recently, Lester and Hartley (2014) examined the impact of gentrification at the census tract level using detailed employment data for 29 large cities in the United States, and found that gentrifying neighborhoods had faster employment growth and a more rapid shift between traditional blue-collar work and locally oriented services such as restaurants and entertainment. Beyond these studies, there have been relatively few studies that specifically look at the nature of employment growth in inner cities. There have been individual case studies such as Hutton's (2004) description of the emergence of new high-tech industry clusters in Vancouver, British Columbia. In addition, there are two new reports that focus on the long-term residential shifts of poor neighborhoods in U.S. metropolitan areas, which suggest that the gentrification or "back to the city" trend may be limited or is bypassing high-poverty neighborhoods. Specifically, Cortright and Mahmoudi (2014) find that 69% of census tracts with high poverty levels (30%) in 1970 still had high poverty levels in 2010. Aliprantis, Fee, and Oliver (2014) examine patterns of tract-level income change between 1980 and 2010 and find considerable stability in tract-level income quartiles over time. However, they also find that tract-level income growth varied widely by metropolitan characteristics, as tracts that transitioned from poor to nonpoor were more likely to be located in growing metropolitan areas that were relatively large and densely populated and that experienced greater immigration.

In addition to the gentrification literature, there is also a growing literature on the role of immigrants in reversing the declining population of inner cities and supporting the economic revitalization of urban neighborhoods. For example, Chicago's small population increase between 1990 and 2000—a reversal of three decades of decline—was driven by large increases in foreign-born populations. Some scholars highlight the positive impact of immigration for inner-city neighborhoods. For example, Sampson (2008) shows that neighborhoods with a higher share of foreign-born residents have lower rates of violent crime. Also, Portes and Zhou (1992) find that high levels of social capital in tight immigrant-ethnic enclaves can lead to greater entrepreneurship among some immigrant groups. As Bates (1997a, 2011) points out, however, significant barriers remain, such as access to capital, that limit immigrant and minority entrepreneurship.

Given the potentially conflicting evidence about demographic trends affecting the inner city and the relative paucity of research on recent inner-city employment trends, we argue that there is a need for a comprehensive analysis of job growth in America's inner cities over the past decade. Porter (1997) recognized this need early on, but lamented that there was no single source of localized workplace-based employment statistics to track the changing economic role of innercity neighborhoods and to assess how much private investment "already recognized" the competitive potential of the inner city.

Now we have such a data source, namely the LODES (see below). Ultimately, this study will use a descriptive approach that revisits some of the key questions in the preceding literature. First, we assess the actual extent of job growth that has occurred in America's inner cities relative to suburban areas and CBDs between 2002 and 2011, highlighting key differences by broad geographic regions, industrial sector, and tract poverty status. Next, we return to the question of innercity competitiveness by defining a new methodology for identifying which regions have competitive inner cities and what distinguishes them from the rest of the metropolitan areas. Finally, we test some of the predictions of the gentrification literature and build a simple descriptive model of inner-city job growth at the tract level.

Data Sources and Methodology

We primarily use data from the U.S. Census Bureau's Longitudinal Employment and Household Dynamics (LEHD) data set. Specifically, we use special tabulations of the LEHD data created for local transportation and workforce development analysis called the LODES program. The data set is available at a 2010 block-group-level geography. Total employment and employment by broad industry sector from 2002 through 2011 are summarized to a tract level for the purposes of this analysis. Although the data set is available for most of the United States, some states are missing from the analysis because of data nonavailability for the full period of analysis. These include Arizona, Arkansas, the District of Columbia, Mississippi, New Hampshire, and Massachusetts, which began participation in the LEHD at various years throughout the period and therefore do not figure in the current analysis.

Although the LODES data are also available on a worker residence basis, we use workplace-based counts of employment, as we are primarily interested in the changing geography of employment between inner-city tracts and other components of metropolitan areas. The LODES data set is a synthetic data set derived from confidential data sources such as unemployment insurance records, Topologically Integrated Geographic Encoding and Referencing line files, and additional administrative data from the U.S. Census Bureau and the Social Security Administration. Noise is then infused into the workplace totals to protect employer and employee confidentiality. These data production methods and caveats should be considered while evaluating the evidence presented in this analysis. For a more complete description of the LODES data set and its differences with the standard census products, such as the American Community Survey, refer to Graham, Kutzbach, and McKenzie (2014).

Although the LODES is a relatively new data source for examining employment dynamics at small geographic scales, there is no reason to believe that it is inaccurate or that the statistical "fuzzing" used to protect confidentiality would produce biased estimates. First, as Abowd et al. (2009) describe, the noise introduced to the data does not vary by geographic location in a way that is systematically correlated with our definition of inner city versus suburb status.³ Second, the LODES is now widely used in transportation planning and in the transportation literature (see Owen & Levinson, 2015; Schleith & Horner, 2014).

Identifying the Inner City

As discussed above, although there is significant research on the competitiveness of inner cities, it is very difficult to find a commonly accepted definition in the literature as to what constitutes an inner-city area. Generally speaking, inner cities are

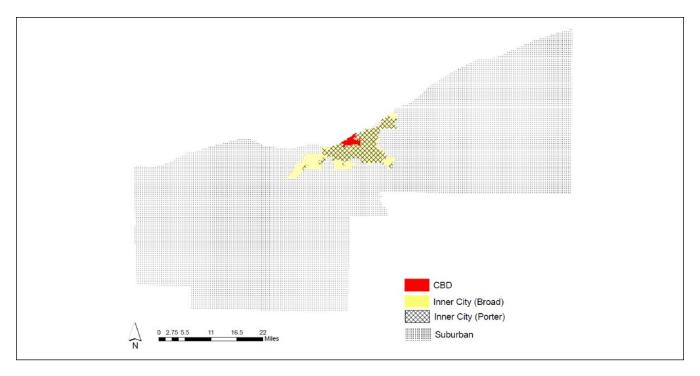


Figure 1. Delineation of inner-city status in the Cleveland MSA. *Note.* MSA = metropolitan statistical area; CBD = central business district.

understood as relatively poor areas with high concentrations of minorities within large central cities. While nearly all scholars distinguish the inner city from suburban areas and traditional downtowns, there is little agreement on the essential characteristics of inner-city neighborhoods. Porter (1997) implies that these areas are "distressed neighborhoods, in which, in most cases, African Americans and other people of color represent the majority of the population" (p. 11). Yet more recent studies, such as Hutton (2004), simply look at all nondowntown portions of the central city. Ultimately, the literature lacks a systematic delineation of the geographic or jurisdictional extent of inner cities. As a first approximation, we define inner cities as areas of the largest central city or cities in a MSA that are not part of the CBD. To identify the main central cities in each MSA, we consider the official set of principal cities⁴ within an MSA (as defined by the U.S. Census Bureau) and select those principal cities that collectively make up more than half of the principal city population within the MSA. Such identification of main cities in an MSA eliminates classifying older suburban satellite cities (e.g., Schamburg, Illinois) as inner cities, but retains the flexibility of having multiple inner-city clusters within an MSA. For example, in Minnesota, both Minneapolis and St. Paul are considered the main cities and the tracts that are not within the CBDs of these cities are considered inner-city areas. In general, a vast majority of the 281 MSAs considered in this analysis have only one main central city from which we draw our definition of inner-city tracts.

Given the lack of consensus on how to define the inner city for data collection purposes, we use two general methods. First, we take all census tracts within the largest(s) principal city that are outside of the CBD. We call this the "broad" definition of inner city. Next, we follow Porter's original definition and further narrow this set of tracts to those that meet the following criteria: (a) The tract has a median household income that is below 80% of the MSA median income in 2000 and (b) the tract also has an unemployment rate greater than 25% above the unemployment rate in 2000 (see Porter, 1997, Footnote 1). We refer to this narrower definition as the "Porter definition."

Identifying the Central Business District

To classify census tracts as inner city or not inner city, we needed to clearly define the CBD or clearly define the downtown of each principal city. In addition to lack of definition of inner city, there is also no accepted current definition and delineation of a CBD. The last known delineation of the CBD was done in 1982 by the U.S. Census of Retail Trade. To update this identification, we first identify all employment centers in an MSA. We then identify the cluster of employment centers that overlap the point definitions of a CBD, provided by Fee and Hartley (2011), and call them the CBDs within the MSA.

The employment centers are identified using methods detailed by McMillen (2001, 2003). Briefly, we construct a

Table I. Employment Change in CBD, Inner City, Suburban, and Nonmetro Tracts, 2002 to 2011.

Year	CBD	Inner city	Inner city—Porter	Suburban	Nonmetro	Total
Total employment						
2002	9,806,579	29,699,043	9,163,969	59,207,009	15,401,902	114,114,533
2003	9,466,413	29,406,696	8,959,707	59,122,731	15,351,324	113,347,164
2004	9,368,606	29,688,362	9,040,566	60,114,666	15,481,987	114,653,621
2005	9,391,107	30,143,171	9,140,514	61,722,807	15,711,700	116,968,785
2006	9,502,148	30,512,600	9,137,376	62,976,328	15,969,935	118,961,011
2007	9,462,838	31,030,945	9,279,914	64,129,684	16,113,194	120,736,661
2008	9,422,301	31,082,578	9,181,937	64,323,119	16,120,592	120,948,590
2009	9,405,450	30,425,117	9,025,946	61,460,391	15,426,231	116,717,189
2010	9,599,146	30,796,523	9,175,827	61,733,541	15,466,790	117,596,000
2011	9,654,338	31,521,499	9,292,356	63,296,946	15,758,332	120,231,115
Net employment change (2002-2011)	152,241	1,822,456	128,387	4,089,937	356,430	6,116,582
Percentage change	-1.6	6.1	1.4	6.9	2.3	5.4
Post-Recession net change (2009-2011)	248,888	1,096,382	266,410	1,836,555	332,101	3,513,926
Percentage change	2.6	3.6	3.0	3.0	2.2	3.0
Share of U.S. employment, 2002 (%)	8.6	26.0	8.0	18.4	51.9	
Share of U.S. employment, 2011 (%)	8.0	26.2	7.7	18.2	52.6	

Note. CBD = central business district. The source is authors' analysis of Local Origin-Destination Employment Statistics data by tract type for states with full sample (2002-2011).

locally weighted regression using employment densities at a tract level. The weighting function is a smoothing function that accounts for the spatially nearest 50% of the density values. A tract is identified as an employment center if the residuals are significantly greater than zero, accounting for the standard error of the estimate. This nonparametric method has been used to identify employment centers in a number of studies (Garcia-López, 2010; Suárez & Delgado, 2009). Once the tracts that have higher than expected residuals are identified within an MSA, a contiguity matrix is constructed using "spdep" (Bivand, 2015). The contiguity matrix is converted to a graph where nodes are the identified census tracts and a pair of nodes have an edge if the corresponding contiguity matrix element is nonzero using "igraph" (Csardi & Nepusz, 2006). Once the graph is constructed, standard graph theoretic methods are used to decompose the graph into maximally connected components. If any of the census tracts within a maximally connected cluster overlaps with the CBD point, then we designate the entire cluster as a CBD.

To conduct our descriptive analysis comparing metropolitan regions with competitive inner cities to other regions and for our tract-level determinants of inner-city job growth, we also draw on several other data sources. The two main sources of additional data beyond the LODES data set are the Smart Location Database produced by the U.S. Environmental Protection Agency⁵ and the Building Resilient Regions (BRR) database (Pastor, Scoggins, Lester, & Chapple, 2009). The BRR database is a comprehensive data set on demographic, economic, and policy variables for all metropolitan areas in the United States (mainly derived from census data) and was produced by the MacArthur Foundation's BRR

research network (see Pastor, Scoggins, et al., 2009, for more information).

Employment Trends and the Competitiveness of Inner Cities

The Nature of Inner-City Employment Change in the United States in the 2000s. Compared with the preceding two decades, the 2000s was a period of relatively stable job growth for America's inner cities. During the 9-year period from 2002—just after a mild recession—to 2011, 2 years after the end of the Great Recession—inner-city census tracts added 1.8 million net new jobs. Surprisingly, this rate of growth (6.1%) was roughly comparable with the rate of growth observed in suburban areas (6.9%). However, suburbs still added nearly twice as many total positions and maintained the preponderance of all metropolitan jobs. Over the study period, inner-city areas grew faster than nonmetropolitan areas (2.3%) and CBDs, which declined by 1.6%. As indicated in Table 1, the post–Great Recession period (2009-2011) was particularly favorable to inner cities, as its growth rate actually surpassed the suburban rate (3.6 vs. 3.0) and nearly one in three jobs created during this period was located in the inner city. While the more economically distressed parts of inner cities, as identified by the Porter definition, experienced slower employment growth over the full period from 2002 to 2011, they almost kept pace with the rest of the inner city and did keep pace with the suburbs during the post-Recession period, showing employment growth of 3%.

Given some concern in the literature that the "comeback cities" narrative is limited primarily to only a select set of

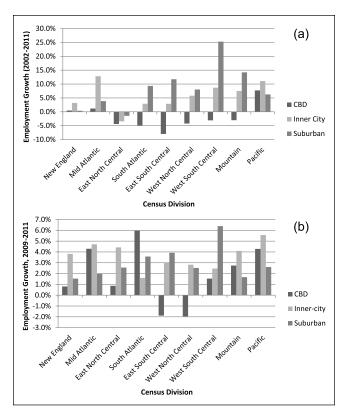


Figure 2. Employment change by tract type and census division, (a) full period and (b) post-Recession.

Note. CBD = central business district.

coastal cities such as New York, Washington, and San Francisco, we examined the same employment trends in each of the nine census divisions across the country (see Figures 2a and 2b). Looking at the full period, this observation still somewhat holds. Although inner-city growth was positive in all divisions except the East North Central (which declined as a whole), it outpaced suburban areas in only the Mid-Atlantic (which includes New York) and the Pacific census divisions.

In the post-Recession period, however, inner cities were considerably more competitive vis-à-vis the suburbs throughout the country, growing faster in five out of nine divisions and rebounding strongly even in the Rustbelt East North Central area. In Figure 2b, the outlier region seems to be West South Central, where suburban job growth consistently swamped both CBD and inner-city areas. Although this is a relatively small period, the post-Recession evidence is indicative of a relatively urban-based recovery.

Whereas total employment increased within inner-city tracts in aggregate, there have been significant industrial shifts occurring within inner cities as they continue to transition away from goods-producing sectors and toward relatively place-bound service-sector industries. In Figure 3, we analyze net employment change for the full period (2002-2011) and

the post-Recession period for all of the tracts defined as inner city for the United States as a whole. Not surprisingly, the greatest losses occurred in manufacturing (-782,000 jobs), followed by construction (-224,000), which was particularly hard hit by the housing crisis and recession. The strongest gaining industries were the so-called "Eds and Meds" sectors of Health Care and Social Assistance and Educational Services, which added 1.1 million and 633,000 jobs, respectively. This finding makes sense because many institutions such as universities and hospitals were founded in the past century in innercity neighborhoods, have remained in those neighborhoods, and have proved resilient to the wider economic changes that affected the inner city during the 1970s and 1980s. The economic role of universities and their expanding hospitals is critical in areas like West Philadelphia (home to the University of Pennsylvania and Drexel University) and Hyde Park (home to the University of Chicago). Inner-city areas also saw strong growth in the Accommodation and Food Services (323,000) sector, which includes restaurants, and is consistent with the findings in the gentrification literature on the changing economic role of inner cities from spaces of production to spaces of consumption.

Because our definition of inner city is quite broad, including all non-CBD portions of the largest principal city in each MSA, we also sought to understand if the net positive employment growth was limited to areas that were initially higher income enclaves within the city. To test this, we categorized each census tract by its poverty status in 2000. Since much of the literature in the 1990s focused on high-poverty neighborhoods and declining employment therein, we also included the tract poverty status in 1990.

As Table 2 indicates, the large majority of inner-city job creation occurred in areas where less than 20% of residents earned incomes below the poverty line (79% for 1990 and 73% for 2000). In addition, lower poverty areas maintained a much larger share of total jobs (by a factor of 2) compared with high-poverty tracts. What is interesting about this tabulation is that the figures for high-poverty tracts are positive at all, given all the preceding discussion of job flight and neighborhood decline. Most interesting is the fact that, although they only have a small share of total jobs, the growth rate of tracts with extreme poverty (over 40%) was faster than low-poverty tracts.

Inner-City Competitiveness at the Metropolitan Scale. The decade of the 2000s was significant in the long-term economic trajectory of inner cities over the past 40 years because it marked a reversal of the trend of large-scale job losses and decline. However, does this necessarily mean that inner cities are now more competitive locations for business expansion and job growth compared with suburban areas? We revisit the question of inner-city competitiveness by exploring the nature of inner-city job growth in nearly all metropolitan areas in the United States, and attempting to determine

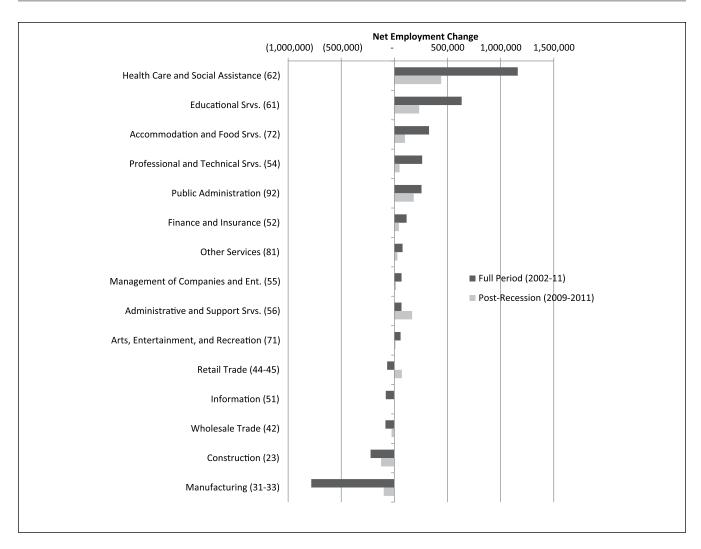


Figure 3. Inner-city employment change by major industry sector (North American Industry Classification System), full period (2002-2011) and post-Recession (2009-2011).

Note. The source is authors' analysis of Local Origin-Destination Employment Statistics data, 2002 to 2011.

Table 2. Inner-City Employment Change by Tract Poverty Status.

	Trac	ct poverty statu	ıs, 1990	Tract poverty status, 2000			
Employment measure	Low poverty (<20%)	High poverty (>20%)	Extreme poverty (>40%)	Low poverty (<20%)	High poverty >20%	Extreme poverty (>40%)	
Total employment, 2002	19,843,121	9,855,922	2,879,470	19,779,094	9,919,949	2,177,597	
Percentage of inner-city jobs, 2011	66.8	33.2	9.7	66.6	33.4	7.3	
Total employment, 2009	20,581,454	9,843,663	2,936,604	20,440,333	9,984,784	2,206,598	
Percentage of inner-city jobs, 2011	67.6	32.4	9.7	67.2	32.8	7.3	
Total employment, 2011	21,296,609	10,224,890	3,183,065	21,116,880	10,404,619	2,352,930	
Percentage of inner-city jobs, 2011	67.6	32.4	10.1	67.0	33.0	7.5	
Net employment change (2002-2011)	1,453,488	368,968	303,595	1,337,786	484,670	175,333	
Percentage change	7.3	3.7	10.5	6.8	4.9	8.1	
Net employment change (2009-2011)	715,155	381,227	246,461	676,547	419,835	146,332	
Percentage change	3.5	3.9	8.4	3.3	4.2	6.6	

Note. The source is authors' analysis of Local Origin-Destination Employment Statistics data, 2002 to 2011.

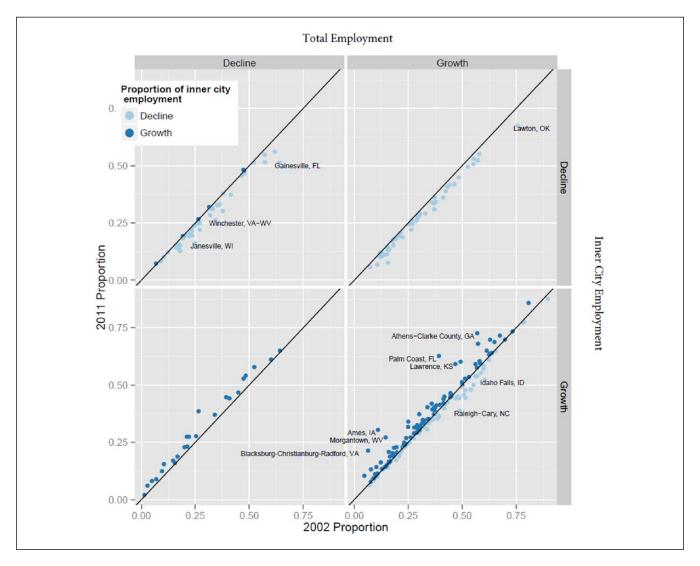


Figure 4. Defining inner-city competitiveness: MSA employment change and the change in inner-city proportion of employment in 2002 and 2011.

Note. MSA = metropolitan statistical area. The source is authors' analysis of Local Origin-Destination Employment Statistics data, 2002 to 2011.

the extent of inner-city competitiveness and the regional factors that influence the growing competitiveness of inner cities in certain MSAs.

However, the uneven pattern of metropolitan growth itself clearly plays a role for the prospects of inner-city change. In general, larger MSAs experienced larger total employment growth over the study period. Places like San Antonio, Texas and Los Angeles, California experienced substantive growth in metropolitan employment change and experienced significant growth in inner-city employment. However, metropolitan area growth does not always coincide with employment growth in the inner city. For example, in places like Houston and Dallas, Texas, while the inner-city employment growth is positive, suburban growth overshadows the inner city. Therefore, we wanted to develop a method of defining inner-city competitiveness that

accounted for overall metropolitan growth and identified MSAs where job growth was disproportionately focused on the inner city during the 2000s.

To identify which inner cities are competitive over our study period, we examined the relative change in the proportion of inner-city employment within its metropolitan area (see Figure 4). Within each quadrant, we plot the 2002 innercity share and 2011 inner-city share of total metropolitan area employment. We then divide the entire data set into four groups based on whether total employment in the metropolitan area grew or declined (horizontal axis) and whether there was net positive inner-city job growth (vertical axis). Whereas there are a few inner cities that have grown despite the overall metropolitan area decline (southeast quadrant), the vast majority of observations with positive inner-city

employment growth also had positive regional growth. However, because we are interested in "competitive" inner cities, we focus on those metropolitan areas where inner cities increased their share of jobs. These metros are above the 45° line in the bottom right corner of Figure 4. Specifically, we find that 120 out of a total set of 281 metropolitan areas (43%) have "competitive inner cities." We label these metros as competitive inner cities and compare their characteristics with the other metropolitan areas in the sample. Appendix A provides a complete list of these metropolitan areas. The metropolitan areas that are on this list are quite diverse, ranging from large metros to more moderate size ones. In general, the change in the share of employment in the inner city is modest between 2002 and 2011, except in a few metropolitan areas.

Next, we compared these metropolitan areas with competitive inner cities with the rest of the metros in the sample (see Figure 5). There is no difference between proportions of jobs in the concentrated employment subcenters between the two groups (as defined using McMillen's [2003] method); however, high-wage job growth, both at the metro level and within the inner city, stand out. Competitive inner cities, in general, have experienced significant high-wage job growth. Further research is needed to address the question of whether this high-wage job growth is a cause or an effect of "competitiveness."

Metropolitan areas that have a lower Black—White dissimilarity index—an indicator of segregation at the metro level—are more likely to have a competitive inner city. This is consistent with the work of Pastor, Lopez-Garza, and Drier (2000) and others who argue that regions where segregation is less pronounced are more likely to produced balanced economic growth. We find that metros with competitive inner cities have lower average Black—White dissimilarity indices in 2000s compared with their peers. However, the two groups have the similar distribution of dissimilarity indices with the foreign born and native born, suggesting a smaller influence of cross-national migration on competitive inner cities.

Competitive inner-city metropolitan areas had higher poverty rates in 2000, suggesting higher poverty rates are not a constraint for economic development. There are only small differences in the means of the median household income between the two groups; however, the means tell only part of the story. The distributions are quite different. The median income distribution of the competitive metropolitan areas is skewed to the left compared with the rest of the metros. Furthermore, higher poverty rates, especially in inner cities, might suggest redevelopment opportunities. Metropolitan areas with competitive inner cities, on average, have higher average job accessibility. Accessibility is measured at the block group level as the percentage of the jobs in the metro that can be accessed within a 45-minute commute. This difference disappears when we compare the average block group accessibility based on transit service. Although we

should expect to see higher competitiveness of metros with high-quality transit, this result is likely because of persistent low levels of transit provision and usage in the United States.

Neither the population distribution nor the proportion of creative jobs is significantly different from the rest of the metros in the competitive metropolitan areas. The Theil index of population density represents skewness in the population density distribution. Higher Theil index metropolitan areas are metros with some tracts with large population densities and the rest very low population density, while a lower Theil index means the metropolitan area has relatively uniform population density. The results suggest that concentrations of density are not different between the two groups of the metropolitan areas.

We repeated the metropolitan-level competitiveness analysis using the narrower Porter definition of inner-city tracts. Under this definition, there were fewer MSAs with competitive inner cities (85 compared with 144). We also repeated the difference of means tests described above and include the results in Appendix C. Figure 6 illustrates the geographic distribution of MSAs with competitive inner cities using both definitions.

Tract-Level Drivers of Inner-City Employment Growth

What are the characteristics of inner-city neighborhoods that experience employment growth? In this section, we present census tract-level regressions to examine the correlates of employment growth during the 2000s. Our sample consists of the non-CBD census tracts of 106 largest principal cities (within each metropolitan area) that had at least 30 census tracts once the CBD tracts were excluded. We use 2010 census tract boundaries and consider the degree to which changes in log employment from 2002 to 2011 are associated with a number of explanatory variables.

$$\Delta emp_{i,c} = \alpha_{c} + \beta_{d} distCBD_{i,c} + \beta_{e} emp_{i,c} + \beta_{r} res_{i,c} + \beta_{l} loc_{i,c} + \beta_{p} pol_{i,c} + \epsilon_{i}$$
(1),

where the dependent variable, $\Delta emp_{i,c}$ represents the change in the log of census tract employment from 2002 to 2011 in tract, i, in city, c. The explanatory variables are α_c , a city fixed effect; distCBD $_{i,c}$, the log of the distance (in miles) from the centroid of the tract to the centroid of the CBD; emp $_{i,c}$, the log of tract-level employment in 2002; res $_{i,c}$, a vector of variables describing the residential characteristics of the tract; $loc_{i,c}$, a vector of location factors that measure the accessibility of the tract vis-à-vis the transportation network; $pol_{i,c}$, a vector describing whether certain place-based policies were in effect in the tract and an error term, ϵ_i .

The vector of residential characteristics, $\operatorname{res}_{i,c}$, includes the log of the tract population in 2000, the change in the log of the sum of the population in all contiguous tracts, the poverty

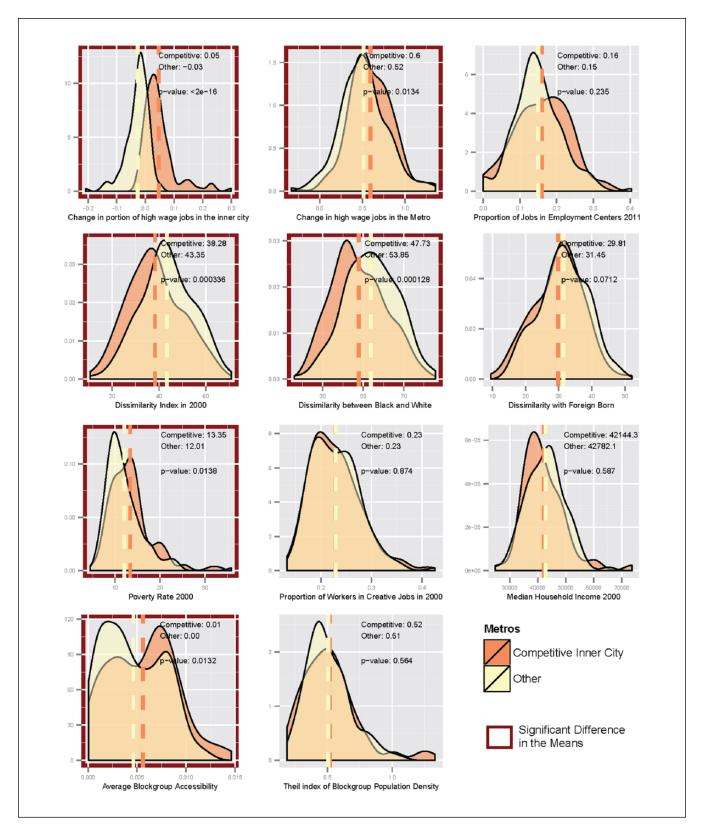


Figure 5. Characteristics of metropolitan regions with competitive inner cities (broad definition) versus all other metros. *Note.* Presents the difference in distribution of various indicators for metropolitan areas with competitive inner cities and to the distribution for all other metropolitan areas. The sources are Local Origin-Destination Employment Statistics (Panels 1-3), Building Resilient Regions database (Panels 4-8), U.S. Environmental Protection Agency Smart Location database (Panels 9-11). All variables calculated at the metropolitan core—based statistical area level. *N* = 281.

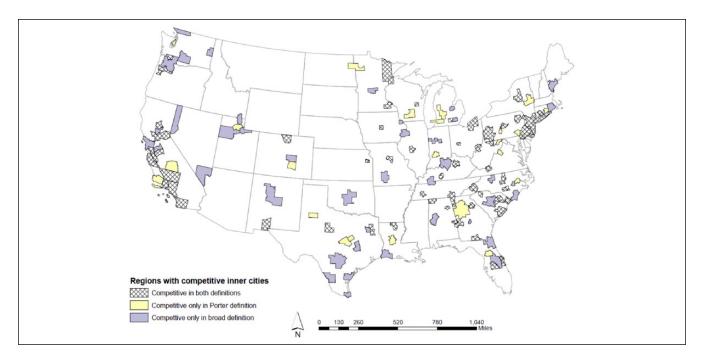


Figure 6. Regions with competitive inner cities, using different definitions.

rate in 2000, the change in the share of the population with a college or higher degree, the share of occupied housing units in which the residents moved in between 2000 and 2010, and the share of the housing units that were built between 2000 and 2010. These variables are included to capture both the overall socioeconomic characteristics of the tract itself, as well as to provide some indicators of gentrification by accounting for recent building activity and recent changes in population around the tract in question. To assess the impact of immigration on job growth, we also include a variable that measures the change in the share of the foreign-born population between 2000 and 2010.

The vector of location factors (loc_{i,c}) includes the gross residential density of the tract measured in housing units per acre, an entropy index of the industrial diversity of the tract, a measure of automobile accessibility (the number of automobile-oriented transit road links per square mile), a meaof pedestrian accessibility (the number pedestrian-oriented road links per square mile), and an indicator of whether the tract contains any public transit stops. The public transit indicator variable is only available for 55 of the 106 cities in our sample. We set this variable equal to negative one for all observations in the cities for which it is missing. Inclusion of city fixed effects ensure that the estimation of the coefficient on this variable will be due to within-city variation in public transit stop presence in cities for which we do have public transit data.

The vector of placed-based policies, $pol_{i,c}$, includes an indicator of whether the tract contains any LIHTC developments and an indicator of whether the tract has been

designated an EZ or renewal community (RC).^{6,7} Appendix B contains a table of descriptive statistics for all independent variables in our regression sample.

Table 3 presents our tract-level regression results aimed at revealing some of the correlates of non-CBD inner-cityemployment growth; it shows four specifications, with an increasing number of explanatory variables. The specification in column 1 includes the log of the distance from the centroid of the tract to the CBD. The coefficient of 0.066 means that tracts that are twice as far from the CBD have on average 4.6 more log points of employment growth (0.69 * 0.066 = 0.046). The specification in column 2 adds the log of initial-year (2002) employment. This variable is added to help mitigate potential measurement error problems in the tract-level employment data. Adding this control reduces the magnitude of the coefficient on the distance to CBD measure. Column 3 adds local demand variables in the form of the log of the tracts' own initial-year population and the change in the log of the population of all of the tracts that share a border with the tract. In this specification, changes in the local area (neighboring tract) population are correlated with tract-level employment growth. The coefficient of 0.535 implies that, on average, a 10-log-point increase in neighboring tract population is associated with a 5-log-point increase in own-tract employment.

The specification in column 4 contains our full set of tract-level explanatory variables. The first thing that stands out is that the sign of the coefficient on the log of distance to CBD is now negative and is not statistically different from zero. Conditional on all the other explanatory variables,

Table 3. OLS Regression Results: Predictors of Tract-level Employment Growth, 2002 to 2011.

				4	
Variable	l .	2	3	4	5
Log distance to CBD	0.066*** (0.009)	0.037*** (0.009)	0.006 (0.009)	-0.029*** (0.012)	-0.062*** (0.020)
Log employment 2002		-0.152*** (0.006)	-0.15*** (0.006)	-0.202*** (0.007)	-0.223*** (0.013)
Log population 2000			-0.007 (0.014)	0.076*** (0.014)	0.18*** (0.031)
Change in log pop in neighboring tracts, 2000-2010			0.535*** (0.045)	0.257*** (0.042)	0.291*** (0.086)
Change in share foreign born, 2000-2010				-0.025 (0.107)	-0.087 (0.169)
Poverty rate, 2000				-0.24*** (0.072)	-0.089 (0.128)
Change in share with college degree, 2000-2010				0.105 (0.099)	0.165 (0.184)
Share of occupied housing with new residents, 2000-2010				0.247**** (0.065)	0.091 (0.112)
Share of housing units built between 2000 and 2010				0.661*** (0.066)	0.593*** (0.156)
Residential density (units/acre)				-0.001 (0.001)	-0.001 (0.001)
Industrial diversity index (five- category entropy index)				0.464*** (0.035)	0.515*** (0.061)
Automobile accessibility (links per square mile)				0.010*** (0.003)	0.011*** (0.004)
Pedestrian accessibility (links per square mile)				-0.008*** (0.002)	-0.014*** (0.003)
Public transit dummy (yes/no)				0.067* (0.041)	0.149 (0.152)
Low-income housing tax credit development (yes/no)				0.008 (0.014)	0.006 (0.022)
Empowerment zone/renewal community (yes/no)				0.053* (0.031)	0.084** (0.038)
Tract sample definition	Broad	Broad	Broad	Broad	Porter
R ²	.0753	.1648	.1864	.2309	.2162
N	11,837	11,837	11,837	11,837	4,518

Note. OLS = ordinary least squares; CBD = central business district. Robust standard errors in parentheses next to the estimate. *Significant at 10%. **Significant at 5%. ***Significant at 1%.

employment growth is negatively correlated with distance to the CBD. In other words, controlling for other factors, neighborhoods closer to downtown-added jobs at a faster rate than those further away, indicating the importance of proximity to the largest concentration of employment in region. The log of initial year (2000) tract population is now positively related to employment growth. The change in the log population of neighboring tracts is still positively related to employment growth, but conditional on all the other explanatory variables, the coefficient has dropped to about half of its value in column 3. Higher poverty rate tracts are associated with less employment growth. All else equal, a 10-percentage-point higher poverty rate is associated with 2.4 fewer log points of employment growth. Thus, neighborhood poverty still seems to be a deterrent to local employment growth.

The coefficient on the change in the share with a college degree is positive but not statistically different from zero. Although we would expect that this would be an important variable, given the literature on gentrification and then urban preferences of the creative class, it is likely that the effect of this variable is usurped by the next two variables, which are also indicators of residential changes. Specifically, the share of occupied housing units with residents that moved in during the 2000s (an indicator or recent migration to the area) is positively correlated with employment growth. This higher residential turnover is consistent with urban redevelopment. Further evidence that employment growth and redevelopment are correlated comes from the positive coefficient on the share of housing units built during the 2000s. It appears that tracts with a 10-percentage-point higher share of units built during the 2000s have, on average, 6.6 log points higher employment growth. Finally, our measure of immigration is not significant in any specification. This is interesting given the literature on immigrant ethnic enclaves and business growth. While we cannot conclude that immigration does not lead to job growth in some neighborhoods, our analysis suggests that other factors outweigh the impact of recent immigration.

The coefficient on residential density is negative, though not statistically significant. This is not surprising as tracts

that have mostly residential uses (and thus higher density) have little room left for commercial land uses and the jobs located therein. Industrial diversity—measured as the fivecategory employment entropy index—is positively correlated with employment growth over the period. Automobile accessibility shows a positive correlation with employment growth, while pedestrian accessibility is negatively correlated with employment growth. This makes sense given the local land-use conditions in most inner cities where areas zoned for commercial or industrial activity lie along major arterial roadways (with high automobile accessibility), while residential tracts-that may contain denser networks of smaller streets—do not have as much room for employment growth. Finally, there is a statistically significant association between the presence of a public transit stop and employment growth. The coefficient implies that tracts containing public transit stops saw roughly 6.7 log points higher employment growth than those without a public transit stop.

There is no clear association between the presence of LIHTC developments and employment growth. There is a marginally, statistically significant, positive relationship between EZ/RC status and employment growth. Whereas we do not consider this strong causal evidence of the effectiveness of EZ/RC policies, it is consistent with the findings of recent research (Busso, Gregory, & Kline, 2010). On average, tracts in these programs saw about 5.3 log points higher employment growth than other inner-city tracts.

The specification in column 4 has an R^2 of .23, meaning that our full set of explanatory variables can explain about a quarter of the variation in tract-level employment growth. In specifications without the city fixed effect (not shown), the R^2 drops to .19, and without the log of initial-year employment, it drops to .12. The R^2 drops slightly in our model using the narrower Porter inner-city definition (.21) shown in column 5.

Column 5 presents estimates of the same specification as column 4, but the sample is limited to the set of economically distressed inner-city tracts that meet the Porter definition of having a median household income lower than 80% of that of the MSA and an unemployment rate greater than 1.25 times the MSA average in 2000. Most of the estimates in column 5 are similar to those shown in column 4 for the broadly defined sample of inner-city tracts. There are six main differences. First, we observe an increased conditional correlation between employment growth and proximity to the CBD; the coefficient roughly doubles in magnitude. Second, there is an increased conditional correlation between year 2000 population. Third, we see a decreased conditional correlation with the poverty rate. This makes sense, as there is less variation in poverty rates across the tracts in the Porter definition as it selects on lower income status. This means that among these distressed tracts, variation in the poverty rate is less predictive of employment growth than among the full sample. Fourth, there is less of a conditional correlation between the change in the share of occupied housing with new residents, possibly indicating less of an association

between gentrification and employment growth among distressed tracts. Fifth, the relationship between pedestrian accessibility and employment growth appears to be slightly more negative. Sixth, we observe an increased conditional correlation between employment growth and EZ/RC status. Thus among distressed tracts, EZ/RC status is associated with 8.4 log points higher employment growth than other distressed inner-city tracts.

Conclusion

For America's inner cities as a whole, the decade of the 2000s stands in stark relief compared with the 1980s and 1990s in terms of job growth. Using a data set that was unavailable in the past (LODES), we show that inner-city tracts (those in the non-CBD portions of the large central cities) added 1.8 million jobs between 2002 and 2011. This trend is not just limited to a few cities and regions, as inner-city growth was positive in nearly all census divisions and even outpaced suburban growth rates in some areas. The post-Recession period has been even stronger for inner cities. Although the overall national trend is encouraging, given the scale of job losses in previous decades, this growth is probably not enough to declare a "renaissance" in urban America.

When we compare job growth between all inner-city tracts and only those inner-city tracts that exhibited higher levels of economic distress (i.e., Porter's method), some interesting facts emerge. First, the positive growth trend is still evident but is less pronounced. This means that distressed inner-city areas still face significant barriers, compared with similarly located but less distressed urban neighborhoods. As our tract-level models indicate, these highly distressed areas are less likely to receive the positive effects of gentrification (i.e., increased local service sector jobs) and that the job growth that has occurred in these areas is tied to different drivers (as we discuss below).

Turning to the question of competitiveness, regional growth differentials are clearly important, as the literature on city-suburban dependence indicates. It is not surprising that New York City and San Francisco have much higher innercity employment growth, as they are located within strong, growing metropolitan areas. However, in places like Dallas and Houston, which also grew, suburban employment continues to outpace inner-city employment, suggesting important differences in characteristics and policies of the metropolitan areas that result in competitive inner cities. Yet places known for their suburban dominance such as Los Angeles and San Antonio showed strong inner-city resurgence in the past decade. Thus, competitive inner cities emerged in some unlikely places. We find that, although competitive inner cities are no longer the exception, they are also not universal. Two fifths (144 out of 281) of the metros studied in this analysis have seen both increases in overall employment increases in share of inner-city employment. Much of the growth in these metropolitan areas is driven by growth in the high-wage sectors.

There are also important differences in the nature of job growth by sector. The inner-city resurgence has been led by the so-called "Eds and Meds" of Health Care and Educational Services; at the same time, losses in manufacturing and construction jobs continue in the inner city, reflecting the twin trends of globalization and suburbanization of manufacturing. Within inner cities, access to physical infrastructure (e.g., proximity to the CBD, transit), as well as social infrastructure (e.g., population increases nearby) confer significant advantages for job growth. However, if access to infrastructure is one of the competitive strengths of the inner cities, it is not reflected in the job growth in the sectors that largely depend on infrastructure (such as manufacturing). Instead, the job growth is driven by residentiary sectors such as food services, supporting some claims from the gentrification literature that inner-city job growth is fueled at least in

part by recent residential growth. Yet for distressed inner-city areas, job growth is driven less by local consumption but rather by growth in anchor institutions that make up the "Eds and Meds" sector (see Figure 3).

However, our findings also indicate that inner-city job growth tends to be greater in areas that are relatively less poor. Thus high-poverty neighborhoods still seem to have major barriers that limit more robust employment gains. It is here that there may be a continued role for government intervention. Our finding that either tracts designated as an EZ/RC grew faster, on average, than other tracts, suggests that economic development strategies that are targeted to high-poverty areas can play a role. Our results suggest that, overall, inner-city areas do have real advantages as locations for employment and are increasingly viewed as attractive residential locations.

Appendix AList of Regions With Competitive Inner Cities.

CBSA name	Share of em	ployment in ity (Porter)	Difference in shares	Share of employn inner city (b	Difference in	
	2002	2011		2002	2011	shares
Competitive inner-city regions in both definitions						
Ames, IA	0.034	0.221	0.186	0.109	0.305	0.196
Athens-Clarke County, GA	0.084	0.248	0.164	0.569	0.726	0.156
Blacksburg-Christiansburg-Radford, VA	0.011	0.160	0.149	0.063	0.213	0.150
Morgantown, WV	0.085	0.212	0.127	0.145	0.273	0.128
Lawrence, KS	0.045	0.067	0.022	0.468	0.593	0.125
Columbia, MO	0.168	0.173	0.005	0.492	0.602	0.111
Jackson, TN	0.036	0.047	0.011	0.573	0.681	0.108
Bowling Green, KY	0.140	0.185	0.045	0.629	0.698	0.069
Jackson, MI	0.069	0.136	0.067	0.210	0.274	0.064
Chattanooga, TN-GA	0.185	0.224	0.039	0.523	0.580	0.057
Springfield, IL	0.167	0.189	0.022	0.473	0.529	0.056
Springfield, OH	0.126	0.173	0.047	0.392	0.448	0.056
Atlantic City, NJ	0.057	0.080	0.024	0.077	0.133	0.056
Sumter, SC	0.039	0.046	0.007	0.220	0.275	0.055
Anchorage, AK	0.335	0.347	0.012	0.807	0.860	0.053
New Haven-Milford, CT	0.086	0.090	0.004	0.104	0.156	0.052
Salinas, CA	0.027	0.064	0.037	0.101	0.142	0.041
Lexington-Fayette, KY	0.142	0.203	0.061	0.614	0.652	0.038
New York–Northern New Jersey–Long Island, NY–NJ–PA	0.074	0.084	0.010	0.368	0.403	0.035
Sacramento-Arden-Arcade-Roseville, CA	0.082	0.100	0.018	0.195	0.229	0.035
Oshkosh-Neenah, WI	0.067	0.147	0.080	0.291	0.325	0.034
Longview, WA	0.012	0.015	0.003	0.048	0.082	0.033
Bakersfield, CA	0.052	0.052	0.001	0.316	0.348	0.033
Gadsden, AL	0.180	0.198	0.018	0.380	0.411	0.031
Florence, SC	0.017	0.021	0.004	0.095	0.125	0.030
Salem, OR	0.272	0.286	0.014	0.364	0.393	0.029
Corvallis, OR	0.211	0.223	0.012	0.373	0.401	0.028
Merced, CA	0.064	0.085	0.021	0.177	0.203	0.026
Cleveland–Elyria–Mentor, OH	0.099	0.126	0.027	0.146	0.171	0.025

(continued)

Appendix A (continued)

	Share of em		Difference	Share of employm inner city (bi		Difference in
CBSA name	2002	2011	in shares	2002	2011	shares
Myrtle Beach–Conway–North Myrtle Beach, SC	0.088	0.091	0.003	0.320	0.344	0.024
Chico, CA	0.001	0.001	0.000	0.165	0.188	0.023
Rome, GA	0.050	0.057	0.007	0.253	0.276	0.023
Florence-Muscle Shoals, AL	0.021	0.021	0.000	0.323	0.345	0.022
San Jose-Sunnyvale-Santa Clara, CA	0.107	0.120	0.013	0.371	0.392	0.020
Auburn-Opelika, AL	0.121	0.132	0.011	0.294	0.314	0.020
Parkersburg-Marietta, WV-OH	0.021	0.047	0.026	0.167	0.187	0.020
Durham, NC	0.123	0.169	0.046	0.396	0.414	0.019
Utica-Rome, NY	0.091	0.107	0.016	0.213	0.231	0.018
Oxnard-Thousand Oaks-Ventura, CA	0.028	0.036	0.008	0.314	0.332	0.018
Spartanburg, SC	0.026	0.044	0.018	0.095	0.111	0.016
Rochester, MN	0.051	0.052	0.001	0.498	0.513	0.015
Duluth, MN-WI	0.008	0.010	0.002	0.275	0.290	0.015
Longview, TX	0.070	0.093	0.023	0.294	0.308	0.014
Palm Bay-Melbourne-Titusville, FL	0.107	0.127	0.020	0.304	0.318	0.014
Los Angeles-Long Beach-Santa Ana, CA	0.061	0.067	0.006	0.231	0.244	0.013
Fort Collins-Loveland, CO	0.030	0.037	0.006	0.339	0.352	0.012
Abilene, TX	0.113	0.122	0.009	0.583	0.594	0.011
Valdosta, GA	0.097	0.120	0.023	0.343	0.353	0.010
Columbus, GA-AL	0.120	0.125	0.005	0.642	0.652	0.010
Lakeland, FL	0.030	0.051	0.021	0.197	0.206	0.009
Pittsburgh, PA	0.046	0.057	0.011	0.107	0.115	0.008
Fayetteville, NC	0.075	0.084	0.010	0.624	0.632	0.008
State College, PA	0.041	0.049	0.009	0.098	0.104	0.007
Fairbanks, AK	0.142	0.155	0.014	0.224	0.230	0.006
Las Cruces, NM	0.038	0.039	0.001	0.368	0.374	0.006
Asheville, NC	0.070	0.073	0.002	0.289	0.295	0.006
Monroe, LA	0.069	0.082	0.013	0.155	0.159	0.004
Scranton-Wilkes-Barre, PA	0.009	0.012	0.004	0.090	0.094	0.004
Charleston-North Charleston, SC	0.034	0.035	0.001	0.165	0.168	0.002
Philadelphia–Camden–Wilmington, PA–NJ– DE–MD	0.070	0.070	0.000	0.142	0.143	0.001
San Diego-Carlsbad-San Marcos, CA	0.079	0.089	0.010	0.500	0.501	0.000
Additional competitive inner-city regions (using Port	er definition)					
Albany-Schenectady-Troy, NY	0.077	0.094	0.017	0.252	0.247	-0.005
Alexandria, LA	0.043	0.046	0.002	0.271	0.270	-0.001
Altoona, PA	0.045	0.054	0.009	0.370	0.309	-0.061
Atlanta–Sandy Springs–Marietta, GA	0.037	0.039	0.002	0.107	0.106	-0.001
Bloomington, IN	0.052	0.054	0.002	0.276	0.267	-0.009
Bremerton-Silverdale, WA	0.039	0.039	0.000	0.153	0.133	-0.019
Cumberland, MD-WV	0.021	0.022	0.001	0.206	0.190	-0.016
Grand Forks, ND-MN	0.062	0.070	0.008	0.432	0.427	-0.005
Grand Rapids-Wyoming, MI	0.059	0.069	0.010	0.206	0.195	-0.011
Greenville, NC	0.062	0.063	0.000	0.409	0.405	-0.004
Harrisonburg, VA	0.057	0.122	0.065	0.515	0.445	-0.070
Honolulu, HI	0.167	0.170	0.002	0.585	0.554	-0.032
Kalamazoo-Portage, MI	0.056	0.091	0.035	0.361	0.329	-0.032
Killeen-Temple-Fort Hood, TX	0.056	0.131	0.075	0.599	0.585	-0.014
Lancaster, PA	0.032	0.037	0.005	0.117	0.116	-0.001
Lubbock, TX	0.245	0.250	0.006	0.782	0.775	-0.008

(continued)

Appendix A (continued)

		ployment in ity (Porter)	Difference	Share of employm inner city (br		Difference in shares
CBSA name	2002	2011	in shares	2002	2011	
Madison, WI	0.174	0.220	0.047	0.572	0.522	-0.050
Norwich-New London, CT	0.025	0.028	0.002	0.122	0.121	-0.001
Ocala, FL	0.013	0.016	0.003	0.293	0.284	-0.009
Ogden-Clearfield, UT	0.038	0.049	0.011	0.106	0.098	-0.008
Pueblo, CO	0.157	0.186	0.029	0.484	0.450	-0.034
Santa Barbara-Santa Maria-Goleta, CA	0.035	0.035	0.001	0.430	0.424	-0.007
Visalia-Porterville, CA	0.004	0.006	0.002	0.256	0.251	-0.005
Waco, TX	0.122	0.143	0.021	0.463	0.420	-0.043
Additional competitive inner-city regions (using bro						
Albuquerque, NM	0.223	0.158	-0.065	0.732	0.734	0.002
Ann Arbor, MI	0.269	0.152	-0.118	0.483	0.542	0.059
Appleton, WI	NA	NA	NA	0.250	0.340	0.090
Bellingham, WA	0.052	0.045	-0.007	0.321	0.338	0.017
Bend, OR	NA	NA	NA	0.287	0.316	0.029
Bismarck, ND	NA	NA	NA	0.300	0.373	0.074
Bloomington-Normal, IL	NA	NA	NA	0.512	0.527	0.015
Brownsville-Harlingen, TX	0.076	0.075	-0.002	0.413	0.439	0.026
Cape Coral–Fort Myers, FL	NA	NA	NA	0.086	0.437	0.020
Clarksville, TN–KY	0.085	0.085	0.000	0.359	0.419	0.061
	0.063	0.083	-0.002	0.183	0.419	0.043
College Station-Bryan, TX						
Colorado Springs, CO	0.177	0.137	-0.040	0.697	0.698	0.001
Columbia, SC	0.033	0.030	-0.003	0.182	0.190	0.008
Corpus Christi, TX	0.212	0.208	-0.005	0.580	0.605	0.025
Davenport-Moline-Rock Island, IA-IL	0.093	0.085	-0.009	0.304	0.323	0.019
Dubuque, IA	0.025	0.021	-0.004	0.445	0.466	0.021
Glens Falls, NY	NA	NA	NA	0.046	0.105	0.058
Goldsboro, NC	0.161	0.149	-0.012	0.407	0.441	0.034
Jacksonville, FL	0.178	0.155	-0.023	0.628	0.637	0.009
Johnson City, TN	NA	NA	NA	0.338	0.405	0.066
Joplin, MO	NA	NA	NA	0.122	0.162	0.040
Kokomo, IN	0.060	0.079	0.019	0.265	0.386	0.121
Lafayette, IN	0.058	0.048	-0.010	0.416	0.449	0.033
Lake Charles, LA	0.030	0.021	-0.009	0.277	0.315	0.038
Laredo, TX	0.135	0.118	-0.017	0.674	0.716	0.042
Las Vegas-Paradise, NV	0.076	0.066	-0.010	0.231	0.250	0.018
Logan, UT-ID	0.086	0.086	0.000	0.249	0.319	0.070
Louisville, KY–IN	0.165	0.151	-0.014	0.413	0.421	0.008
Modesto, CA	0.021	0.021	-0.001	0.289	0.293	0.003
Morristown, TN	NA	NA	NA	0.077	0.078	0.002
Niles-Benton Harbor, MI	NA	NA	NA	0.014	0.020	0.006
Ocean City, NJ	NA	NA	NA	0.028	0.061	0.033
Oklahoma City, OK	0.209	0.200	-0.009	0.567	0.576	0.009
Orlando, FL	0.046	0.043	-0.003	0.161	0.163	0.002
Palm Coast, FL	NA	NA	NA	0.392	0.628	0.236
Pocatello, ID	NA	NA	NA	0.530	0.537	0.007
Portland-South Portland-Biddeford, ME	0.015	0.013	-0.002	0.148	0.150	0.001
Portland-Vancouver-Beaverton, OR-WA	0.067	0.066	-0.001	0.260	0.272	0.012
Port St. Lucie, FL	NA	NA	NA	0.159	0.210	0.050
Providence—New Bedford—Fall River, RI—MA	0.058	0.058	0.000	0.128	0.136	0.008
Punta Gorda, FL	NA	NA	NA	0.069	0.088	0.019

(continued)

Appendix A (continued)

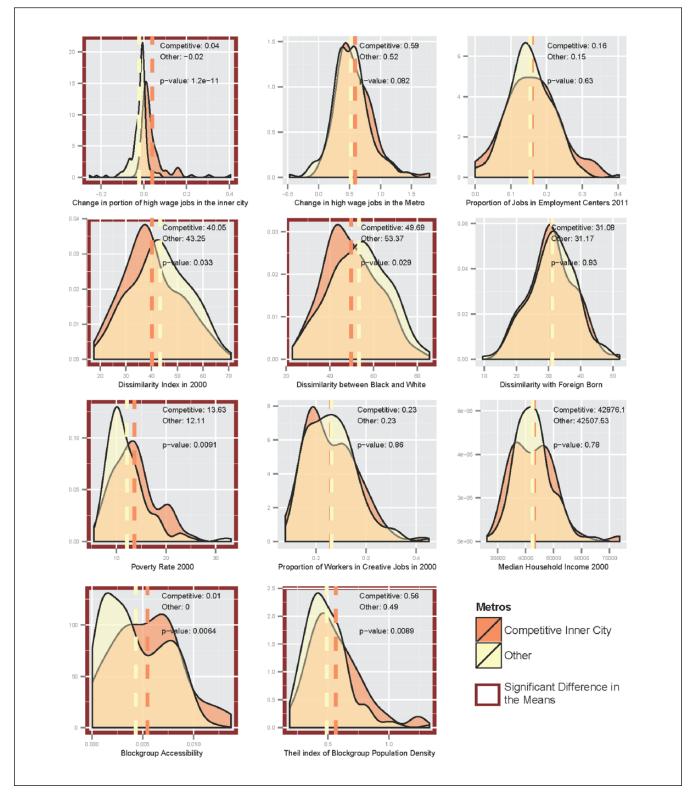
CBSA name	Share of employment in the inner city (Porter)		Difference	Share of employn inner city (b	D:#i-	
	2002	2011	in shares	2002	2011	Difference in shares
Redding, CA	NA	NA	NA	0.562	0.593	0.031
Reno-Sparks, NV	0.134	0.116	-0.018	0.449	0.468	0.019
Saginaw-Saginaw Township North, MI	0.113	0.104	-0.009	0.199	0.230	0.031
St. Cloud, MN	0.154	0.152	-0.002	0.361	0.394	0.032
Salt Lake City, UT	0.120	0.116	-0.004	0.302	0.304	0.002
San Antonio, TX	0.147	0.134	-0.013	0.650	0.690	0.040
San Francisco-Oakland-Fremont, CA	0.059	0.059	-0.00 I	0.179	0.198	0.019
Spokane, WA	0.071	0.059	-0.012	0.235	0.240	0.005
Springfield, MO	0.103	0.092	-0.012	0.637	0.641	0.005
Tuscaloosa, AL	0.202	0.188	-0.014	0.446	0.459	0.013
Tyler, TX	0.064	0.063	-0.002	0.449	0.452	0.003
Vineland–Millville–Bridgeton, NJ	NA	NA	NA	0.340	0.371	0.031
Warner Robins, GA	0.065	0.063	-0.002	0.240	0.269	0.030
Wenatchee, WA	NA	NA	NA	0.159	0.165	0.005
Wilmington, NC	0.106	0.087	-0.019	0.443	0.448	0.004
Winston-Salem, NC	0.105	0.102	-0.003	0.600	0.612	0.012
Yakima, WA	0.051	0.048	-0.004	0.237	0.243	0.006
Yuba City, CA	0.044	0.036	-0.008	0.229	0.239	0.010

Appendix BSummary Statistics of Tract-Level Data.

Variable	Observations	М	SD	Min	Max
Change in log employment, 2002-2011	11,837	0.062	0.697	-6.672	5.182
Log distance to CBD	11,837	1.526	0.760	-4.560	4.029
Log employment 2002	11,837	6.468	1.430	0	11.537
Log population 2000	11,837	8.092	0.546	1.609	9.865
Change in log population of neighboring tracts, 2000-2010	11,837	0.033	0.221	-1.497	5.093
Poverty rate, 2000	11,837	0.183	0.136	0	0.932
Change in share with college degree, 2000-2010	11,837	0.032	0.079	-1	0.872
Share of occupied housing units with new residents, 2000-2010	11,837	0.706	0.124	0	1
Share of housing units built, 2000-2010	11,837	0.083	0.138	0	1
Residential density (units/acre)	11,837	6.669	9.807	0.000	561.963
Industrial diversity index	11,837	0.466	0.242	0	1.000
Automobile accessibility (links per square mile)	11,837	1.479	2.413	0	36.770
Pedestrian accessibility (links per square mile)	11,837	16.114	5.946	0.245	46.595
Public transit stop in tract?	8,806	0.914		0	1
Low-income housing tax credit development in tract?	11,837	0.292		0	1
Empowerment zone/renewal community?	11,837	0.075		0	1

Note. CBD = central business district. Summary statistics are presented for inner-city census tract sample. These are non-CBD tracts in the largest principal cities for states with a full sample of data (2002-2011).

Appendix C



Characteristics of Metropolitan Regions With Competitive Inner Cities (Porter Definition) Versus All Other Metros.

Note. Figure presents the difference in distribution of various indicators for metropolitan areas with competitive inner cities and to the distribution for all other metropolitan areas. The sources are Local Origin-Destination Employment Statistics (Panels 1-3), Building Resilient Regions database (Panels 4-8), Environmental Protection Agency Smart Location database (Panels 9-11). All variables calculated at the metropolitan CBSA level. N = 252.

Authors' Note

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Notes

- Throughout this study, we use the terms region and metropolitan area interchangeably.
- It is important to note, however, that Porter's work was criticized by other scholars at the time, including Harrison and Glasmeler (1997) and Bates (1997b), who argue that his approach placed too much emphasis on businesses as the primary agents of inner-city revitalization and ignores critical roles for governments and nonprofits.
- 3. Specifically, Abowd et al. (2009) explain the noise-inducing algorithm that the LEHD infrastructure files use as follows: "First, every data item [establishment] is distorted by some minimum amount. Second, for a given workplace, the data are always distorted in the same direction (increased or decreased) by the same percentage amount in every period. . . . Third, the statistical properties of this distortion are such that when the estimates are aggregated, the effects of the distortion cancel out for the vast majority of the estimates, preserving both cross-sectional and time series analytical validity" (p. 184).
- 4. Principal cities are defined for each MSA by the U.S. Census Bureau as the largest city in the MSA. Additional cities may qualify to be a principal city, if it is a census-designated place or incorporated place with more than 250,000 residents and 100,000 workers or a place whose employment exceeds the population and both are at least 10,000.
- 5. http://www.epa.gov/smartgrowth/smartlocationdatabase.htm
- For the list of tracts that were included in EZ/RCs, see http://portal.hud.gov/hudportal/HUD?src=/program_offices/ comm_planning/economicdevelopment/programs/.
- LIHTC unit counts by census tract were constructed from data published by the U.S. Department of Housing and Urban Development on http://lihtc.huduser.gov/.

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