



**NYU
Furman
Center**

**BY THE NUMBERS:
Discussions
on Density**

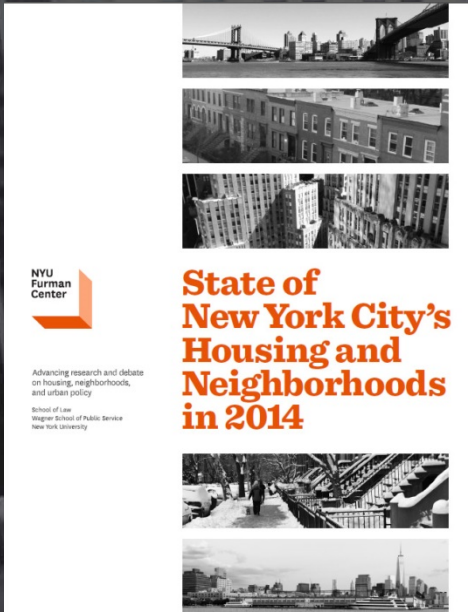


Advancing research and debate
on housing, neighborhoods,
and urban policy

School of Law
Wagner School of Public Service
New York University

State of New York City's Housing and Neighborhoods in 2014





- 1. Focus on Density**
- 2. City-Wide Analysis**
- 3. City, Borough, and Community District Data**

MN02 Greenwich Village/Soho¹



MANHATTAN COMMUNITY DISTRICT PROFILES

Single-Year Indicators	2013	Rank
Population	151,858	24
Population density (1,000 persons per square mile)	52.2	16
Racial diversity index	0.45	47
Income diversity ratio	6.4	15
Rental vacancy rate	3.9%	19
Rent-stabilized or rent-controlled units (forthcoming) ²	-	-
Public and other income-restricted subsidized rental units ³	7.6%	32
Median asking rent	\$3,400	4
Housing units in FEMA preliminary flood hazard areas ⁴	10.9%	19
Residential units within 1/4 mile of a park	99.2%	6
Land with unused zoning capacity	14.8%	57

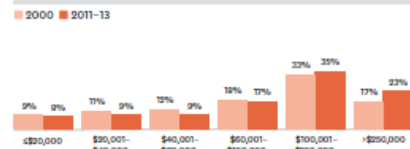
Housing

	2000	2007	2010	2013	2014	2000 Rank	2013-14 Rank
Units authorized by new residential building permits	31	219	0	268	224	53	21
Units issued new certificates of occupancy	19	237	237	26	7	50	55
Homeownership rate	25.9%	-	25.3%	28.0%	-	30	30
Serious housing code violations (per 1,000 privately owned rental units)	-	15.4	13.9	15.5	14.2	-	48
Severe crowding rate (% of renter households)	-	-	4.4%	2.7%	-	-	39
Sales volume	271	741	536	458	401	41	30
Index of housing price appreciation, all property types	100.0	211.7	207.3	260.6	303.4	-	11
Median sales price per unit, condominium ⁵	\$962,495	\$1,868,647	\$1,890,704	\$2,027,776	\$2,134,163	1	1
Median rent burden	-	25.8%	25.6%	24.9%	-	-	55
Severely rent-burdened households	-	20.2%	21.5%	20.2%	-	-	54
Severely rent-burdened households, low income	-	62.1%	58.5%	65.9%	-	-	1
Housing choice vouchers (% of occupied, privately owned rental units)	-	-	1.0%	0.9%	-	-	51
Home purchase loan rate (per 1,000 properties)	-	67.2	26.3	31.1	-	-	5
Refinance loan rate (per 1,000 properties)	-	17.5	35.1	33.9	-	-	4
FHA/VA-backed home purchase loans (% of home purchase loans)	-	0.0%	0.3%	0.0%	-	-	51
Pre-foreclosure notice rate (per 1,000 1-4 family and condo properties)	-	-	-	21.8	9.8	-	55
Notices of foreclosure rate (per 1,000 1-4 family and condo properties)	1.1	0.8	2.4	2.2	2.0	57	57
Tax delinquencies ≥ 1 year (% of residential properties)	-	0.9%	0.9%	1.4%	-	-	40

Population

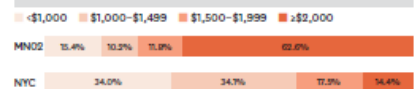
	2000	2007	2010	2013	2014	2000 Rank	2013-14 Rank
Households with children under 18 years old	11.4%	-	12.7%	15.1%	-	53	53
Population age 65 and older	10.5%	-	11.2%	10.3%	-	32	40
Foreign-born population	23.3%	23.9%	23.7%	23.8%	-	43	45
Population living in racially integrated tracts	10.5%	-	26.5%	-	-	36	21
Median household income	\$101,593	\$115,545	\$108,892	\$121,178	-	2	1
Poverty rate	9.9%	9.7%	9.7%	7.5%	-	49	53
Unemployment rate	5.8%	4.3%	5.7%	4.5%	-	46	55
Car-free commute (% of commuters)	85.9%	84.8%	88.6%	88.4%	-	3	7
Mean travel time to work (minutes)	24.4	24.9	24.1	24.5	-	55	55
Serious crime rate (per 1,000 residents)	40.8	29.0	23.2	25.2	23.0	4	4
Students performing at grade level in English language arts	-	-	-	54.0%	55.5%	-	2
Students performing at grade level in math	-	-	-	60.2%	65.5%	-	2

Household Income Distribution (2014⁶)

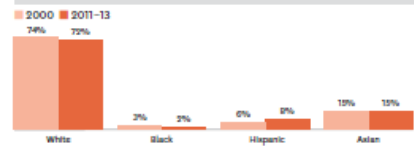


Median Rent*	2005-07	2011-13	% Change	2011-13 Rank
All renters	MN02 \$2,092	\$2,375	13.5%	1
	NYC \$1,116	\$1,226	9.9%	-
Recent movers	MN02 \$2,706	\$2,770	2.4%	1
	NYC \$1,344	\$1,469	9.3%	-

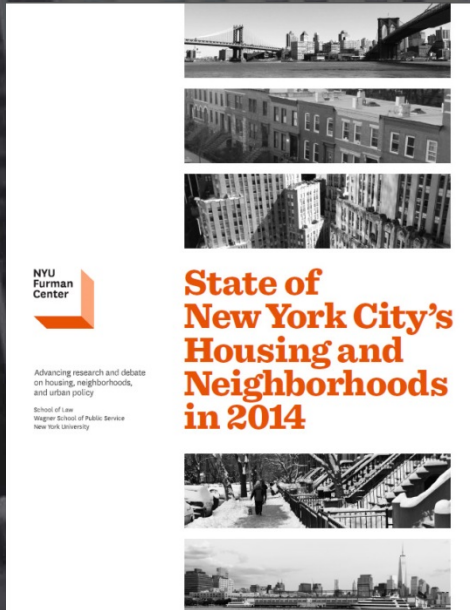
Distribution of Gross Rent, 2011-2013



Racial and Ethnic Composition



* These indicators use three-year estimates from the American Community Survey (ACS) for certain years. All data under the 2000 heading comes from the 2000 Census. Generally, data under 2007 are from the 2005-2007 ACS, data under 2010 are from the 2008-2010 ACS, and data under 2013 are from the 2011-2013 ACS. Under the 2010 heading, four indicators—homeownership rate, severe crowding rate, households with children, and population age 65 and older—come from the 2010 Census. See the ACS section in the Methods chapter for more information. ¹Community districts MN 01 and MN 02 both fall within this sub-neighborhood area 201. Data reported at the sub-neighborhood area for these community districts are identical. ²Percentage of all rental housing units. ³Percentage of all rental housing units. Represents 2012 conditions. ⁴Represents 2014 conditions. ⁵Based out of 16 community districts where this property type was the predominant type sold in 2000-2014.



1. Focus on Density

2. City-Wide Analysis

1. Land Use & the Built Environment
2. Homeowners & Their Homes
3. Renters & Their Homes
4. Residents
5. Neighborhood Housing & Conditions

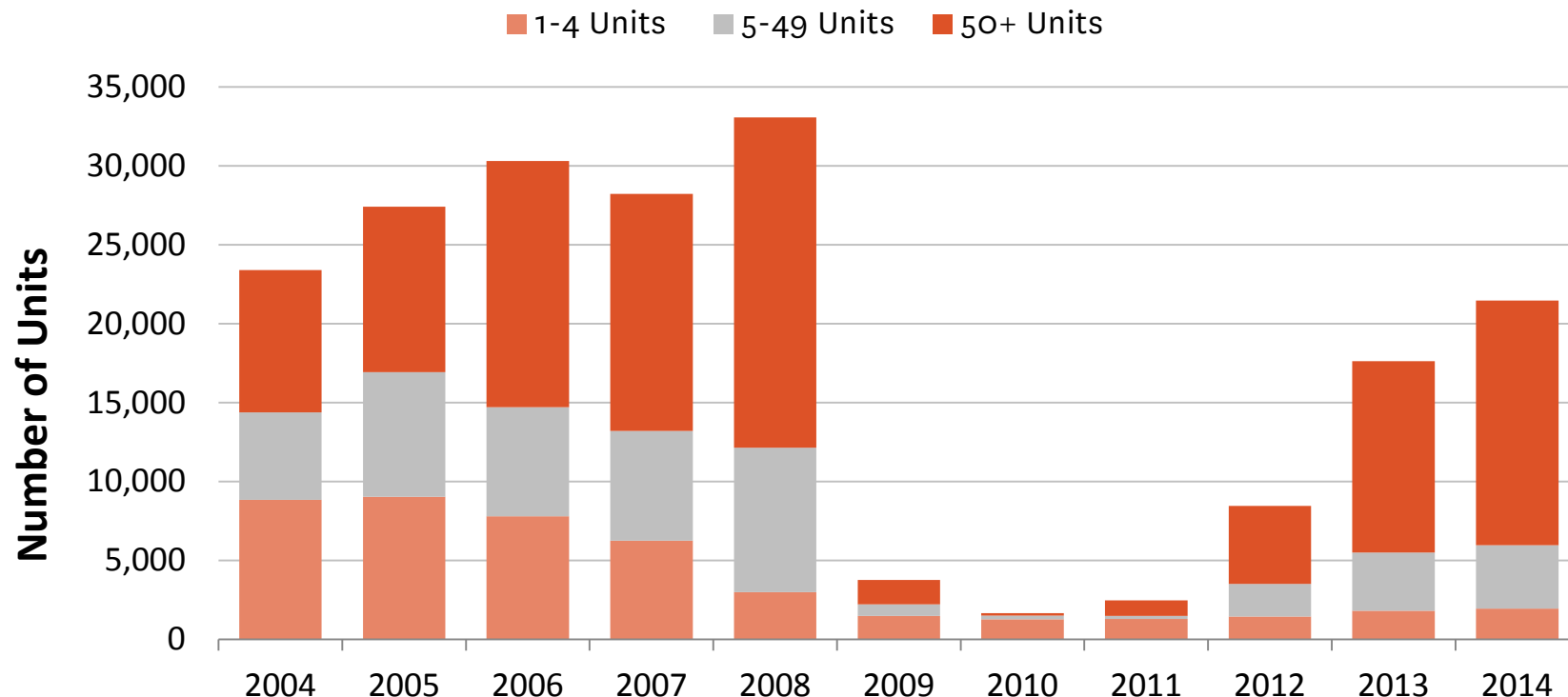
3. City, Borough, and Community District Data



1. LAND USE & THE BUILT ENVIRONMENT

Building permits rebounded in 2014, but are still below the 2008 peak.

Residential Units Authorized by New Building Permits, by Property Size

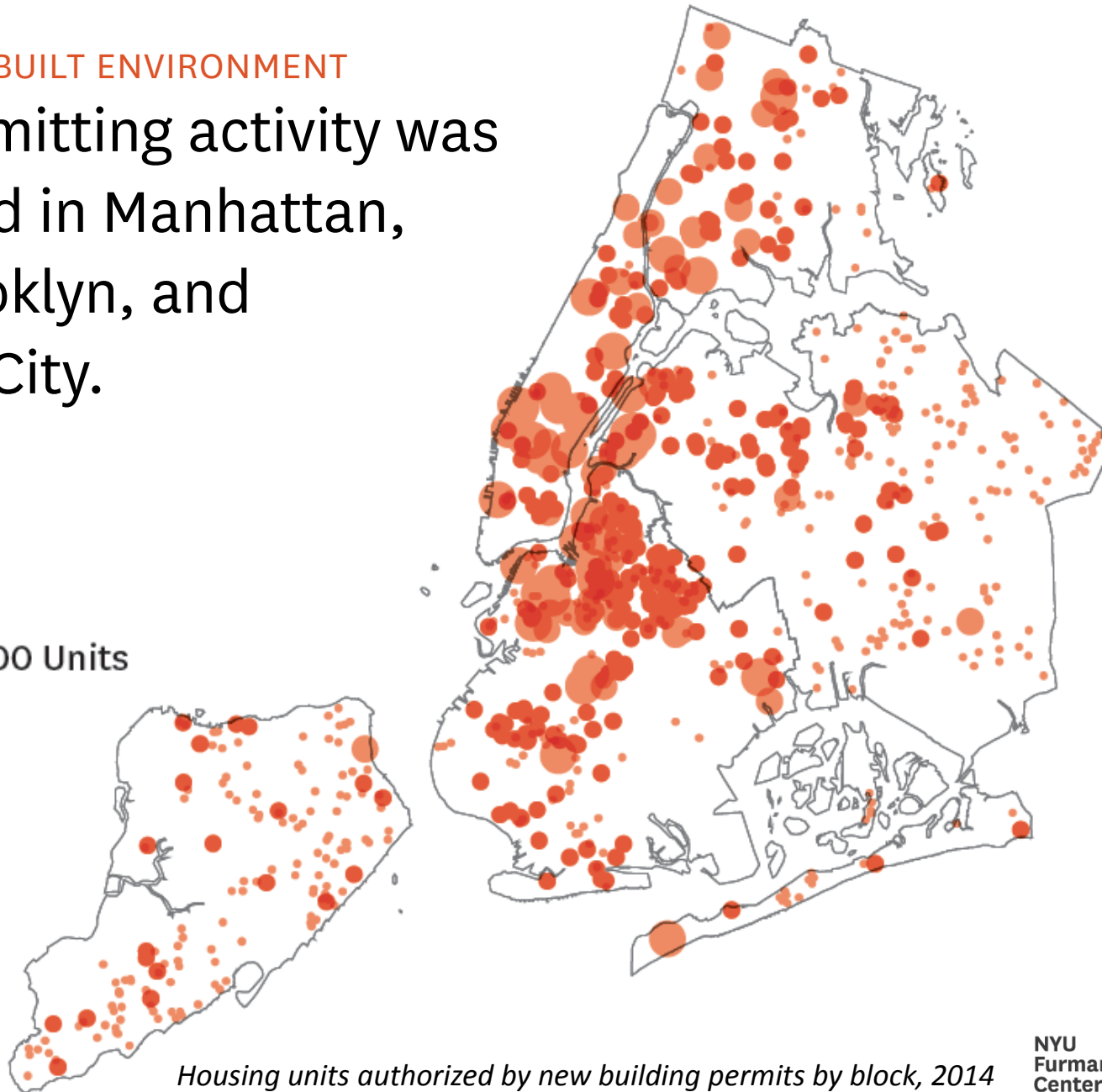


Sources: NYC Department of Buildings, NYU Furman Center

1. LAND USE & THE BUILT ENVIRONMENT

In 2014, permitting activity was concentrated in Manhattan, parts of Brooklyn, and Long Island City.

- 1-5 Units
- 6-50 Units
- 51-100 Units
- Greater than 100 Units



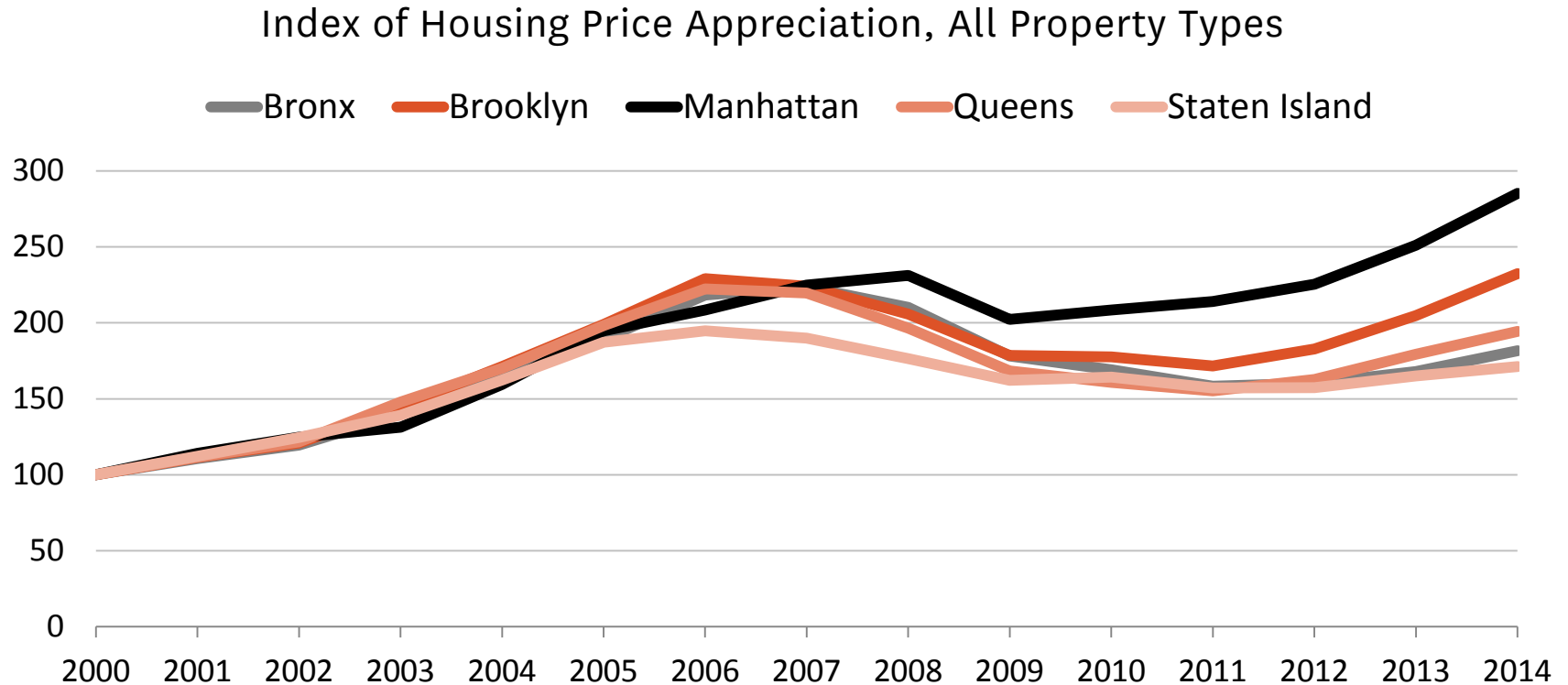
Housing units authorized by new building permits by block, 2014

Sources: NYC Department of Buildings, NYU Furman Center



2. HOMEOWNERS & THEIR HOMES

In 2014, home prices increased in all five boroughs.



Index of housing price appreciation for all residential property types (except cooperatives) by borough (index = 100 in 2000)

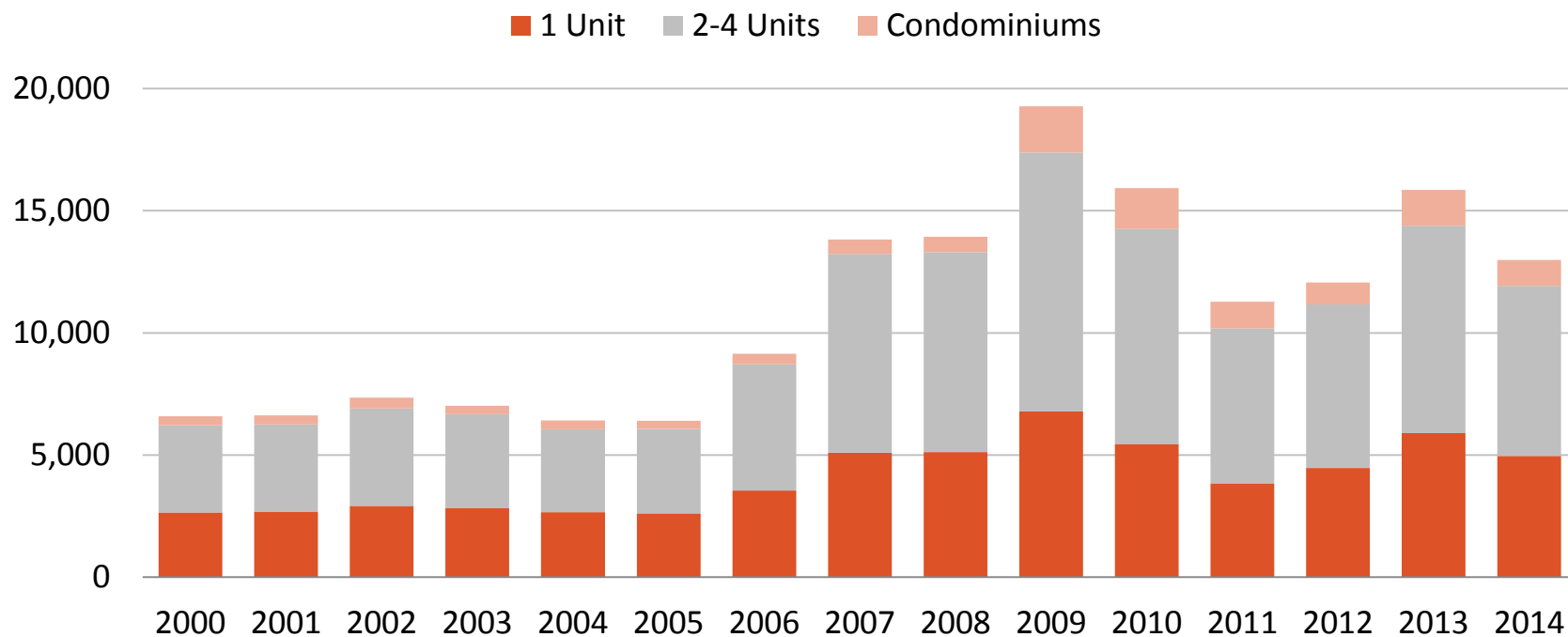
Sources: NYC Department of Finance, NYU Furman Center



2. HOMEOWNERS & THEIR HOMES

Foreclosure indicators signaled less mortgage-related distress in 2014 than in 2013.

Number of Foreclosure Filings by Property Type



Number of foreclosure filings by property type, New York City

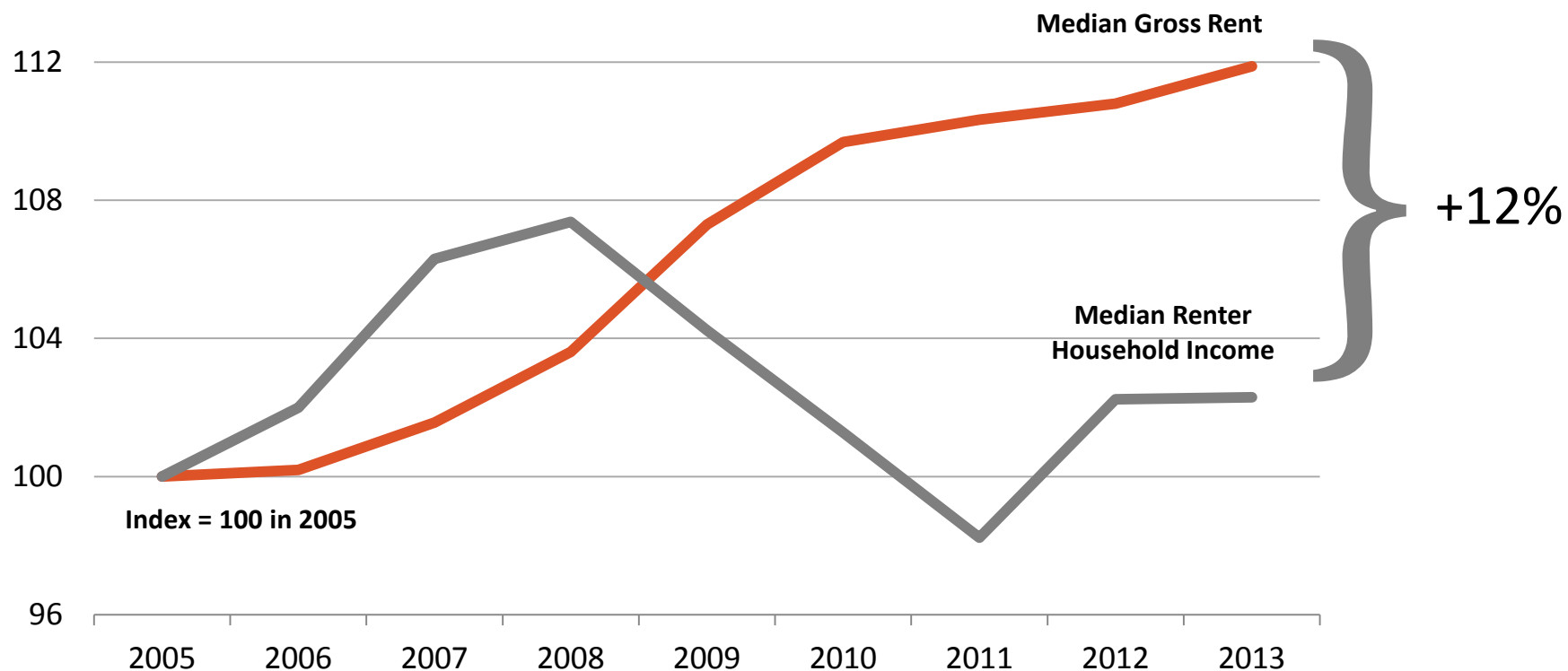
Sources: Public Data Corporation, NYC Department of Finance, NYU Furman Center



3. RENTERS & THEIR HOMES

Rent levels have increased faster than income.

Index of Median Gross Rent & Median Renter Household Income (2014\$)



Index of median gross rent and median renter household income (2014\$), New York City

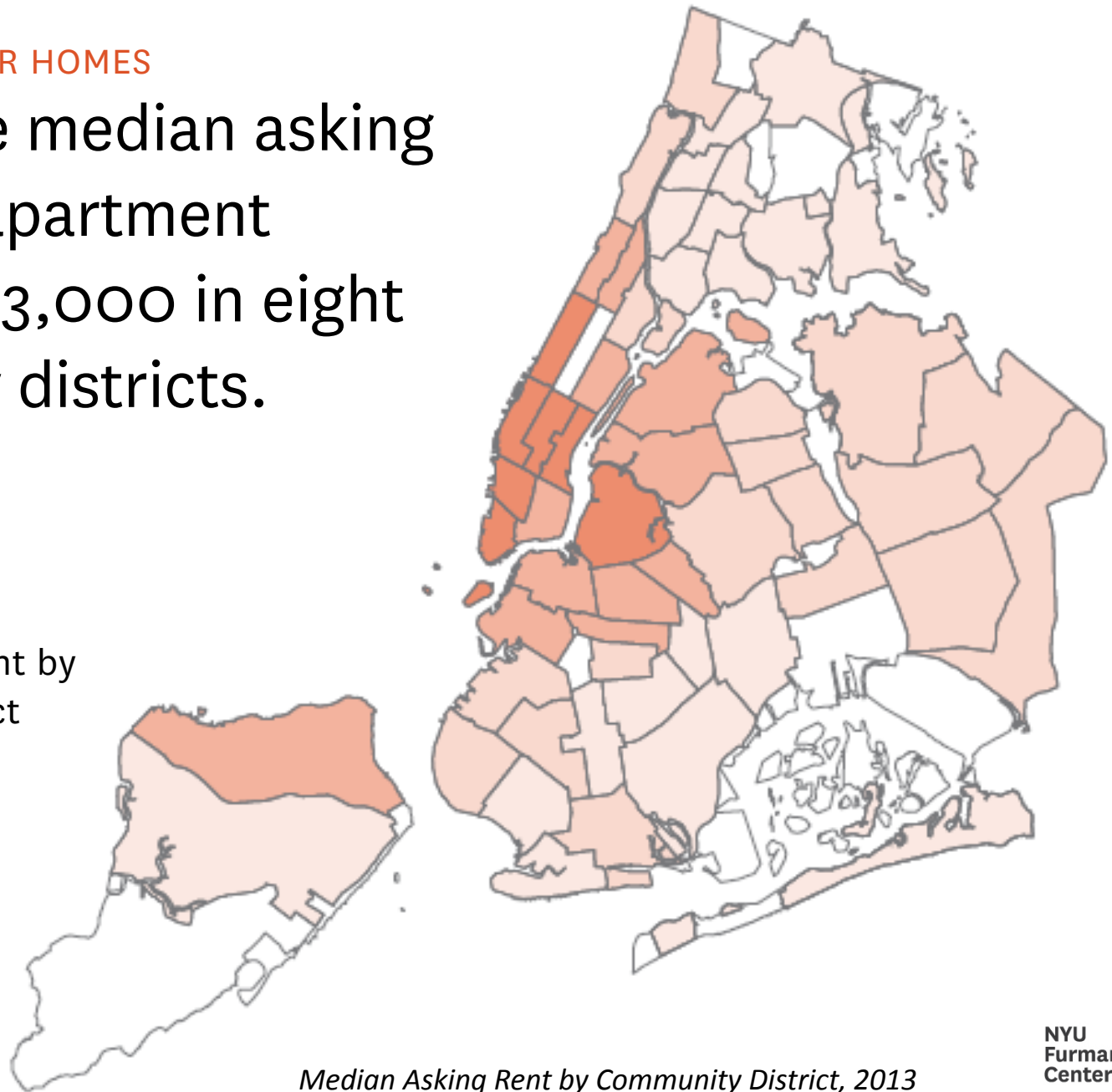
Sources: American Community Survey, NYU Furman Center

3. RENTERS & THEIR HOMES

In 2013, the median asking rent of an apartment exceeded \$3,000 in eight community districts.

Median Asking Rent by Community District

- \$1,500 or Less
- \$1,501-\$2,000
- \$2,501-\$3,000
- More Than \$3,000
- No Data



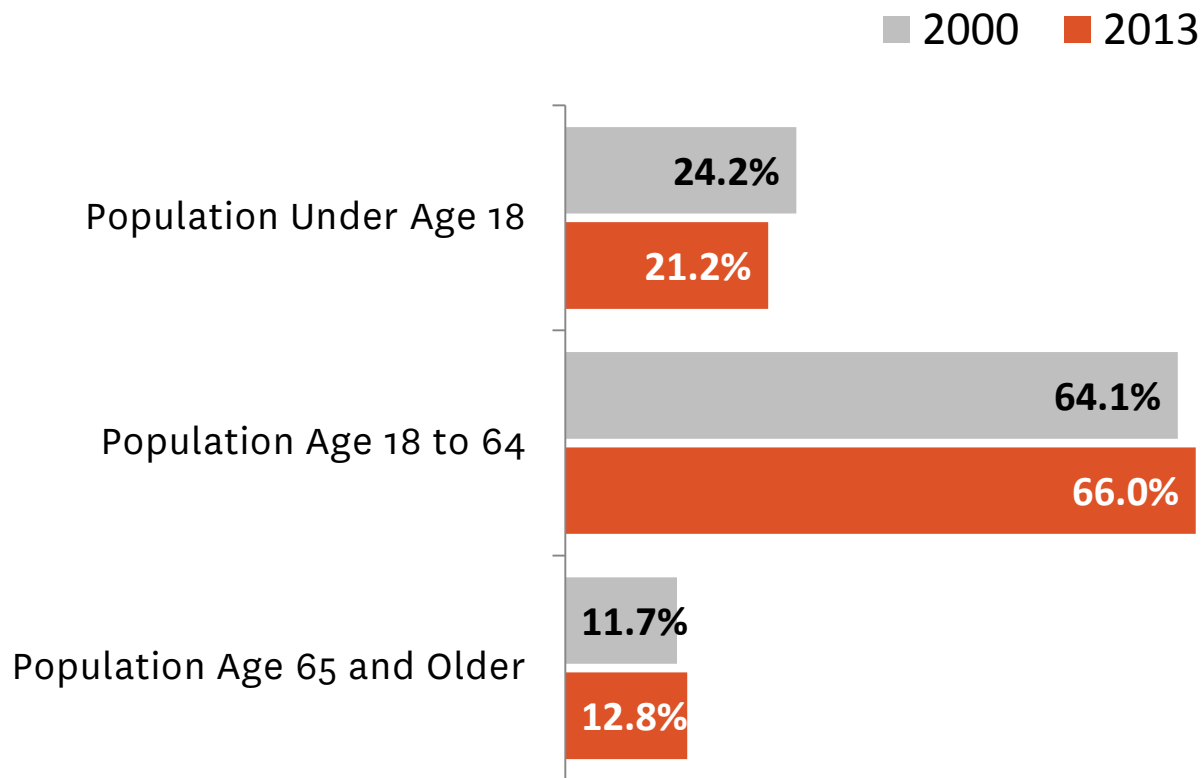
Median Asking Rent by Community District, 2013

Sources: StreetEasy, NYU Furman Center



4. RESIDENTS

Adults made up a growing share of the city's population; the share under 18 declined.

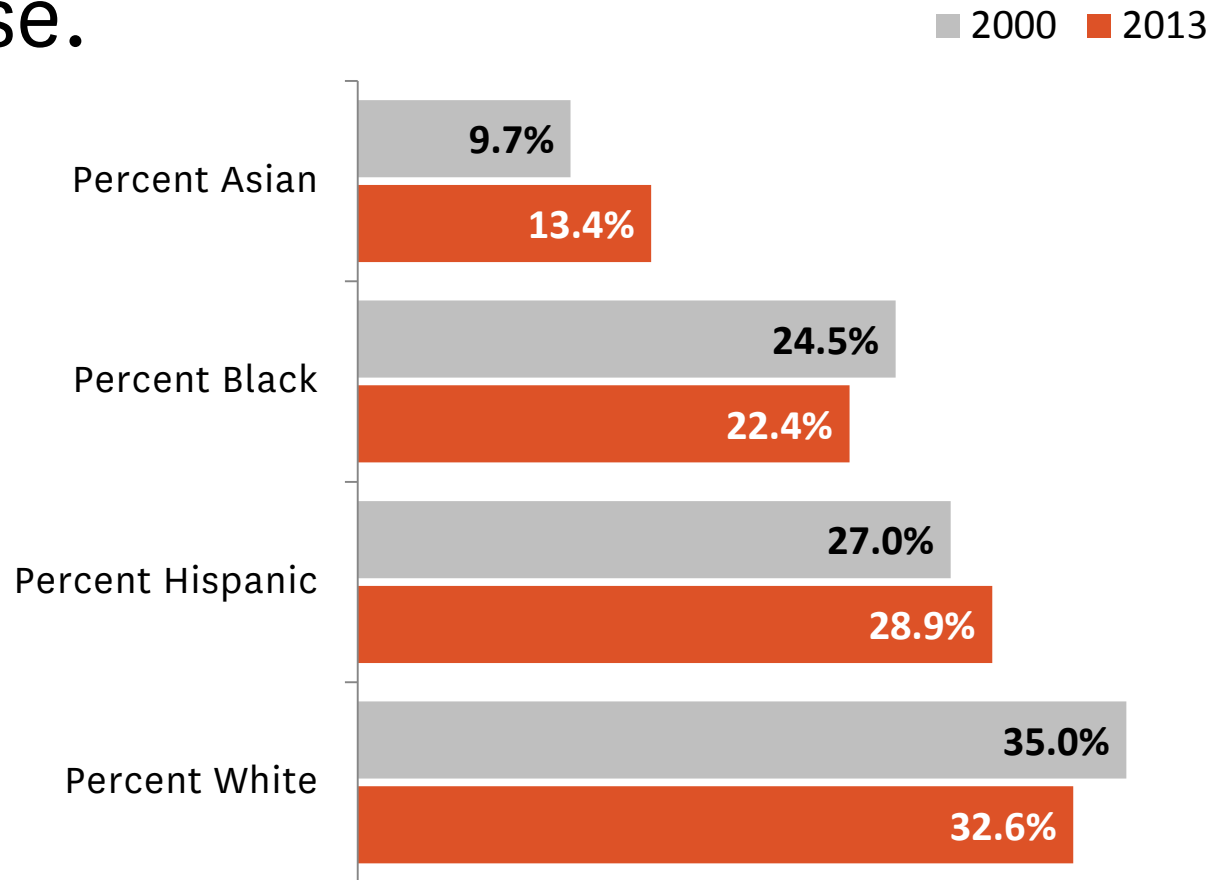


Demographic Characteristics of New Yorkers

Sources: U.S. Census (2000), American Community Survey (2013), NYU Furman Center

4. RESIDENTS

New York City's population became more diverse.



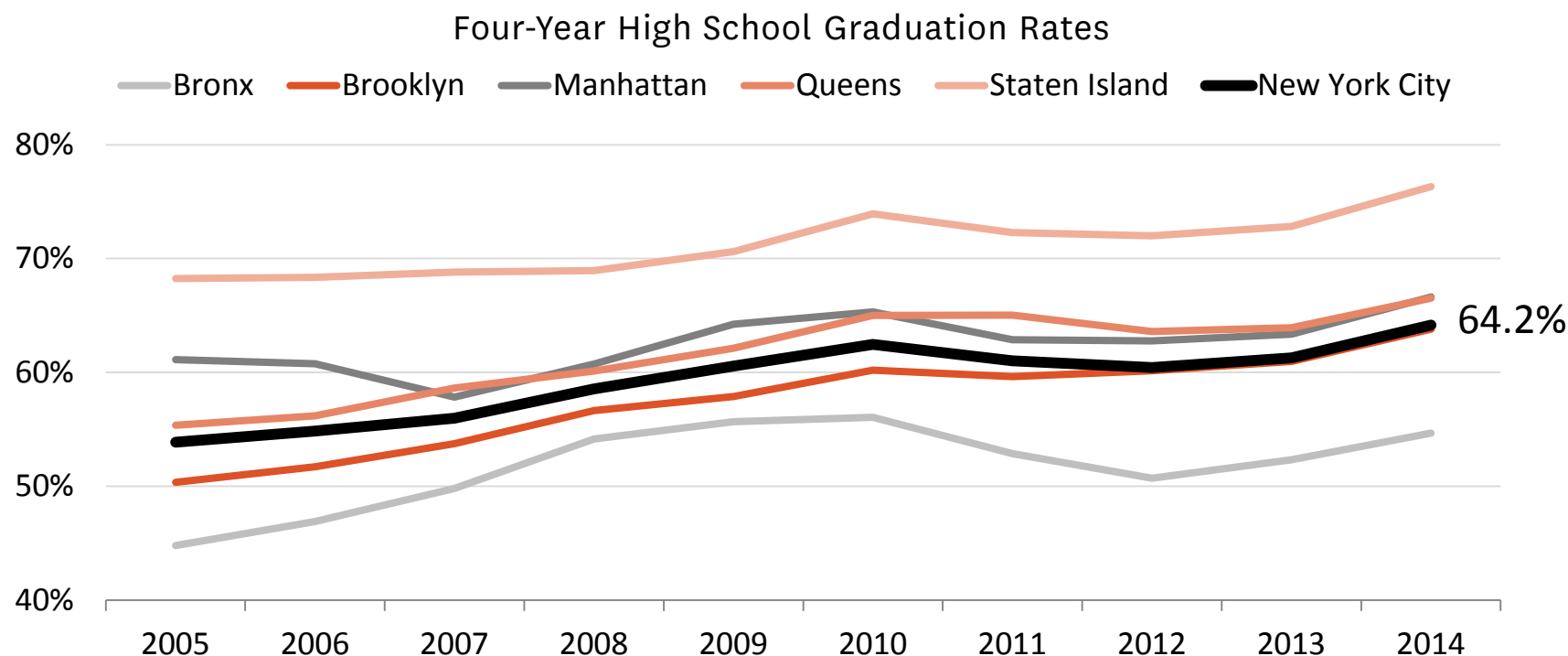
Demographic Characteristics of New Yorkers

Sources: U.S. Census (2000), American Community Survey (2013), NYU Furman Center



5. NEIGHBORHOOD SERVICES & CONDITIONS

The citywide high school graduation rate increased between 2012 and 2014, though disparities between boroughs persist.



Four-year high school graduation rates (measured in June), by borough

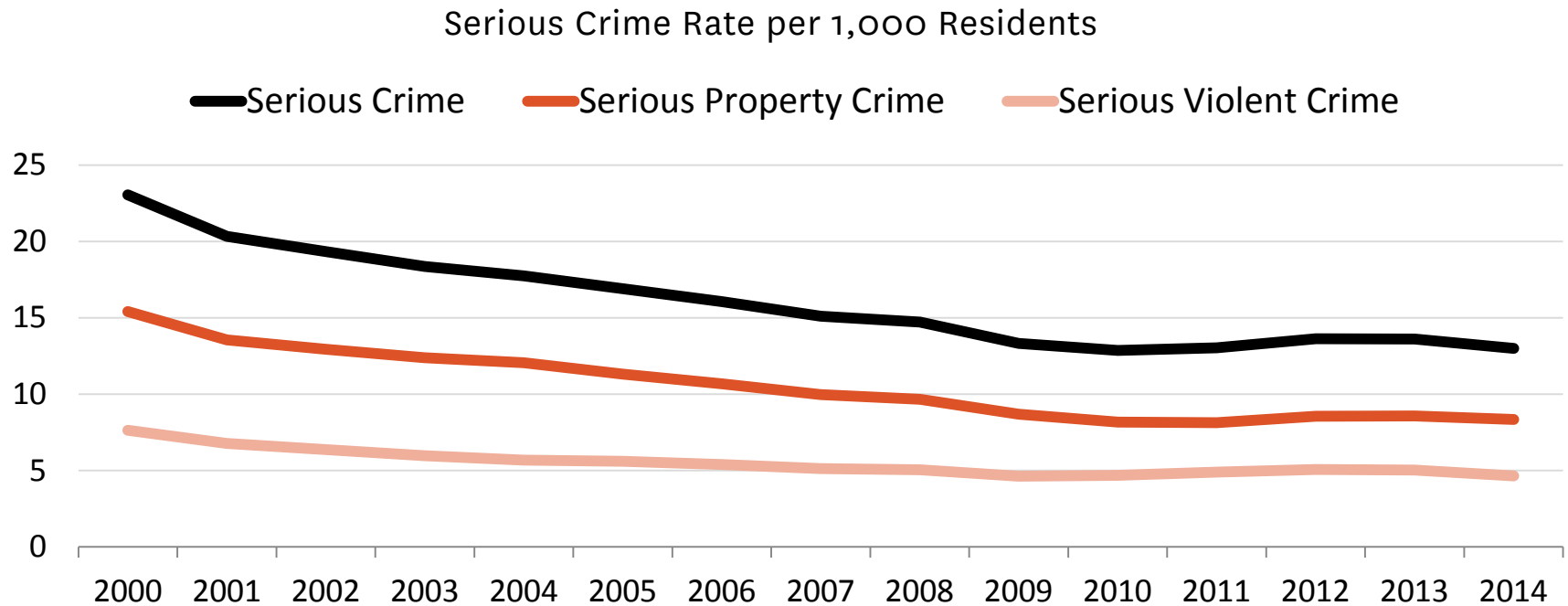
Sources: New York City Department of Education, NYU Furman Center





5. NEIGHBORHOOD SERVICES & CONDITIONS

Following a rapid decline over the past two decades, the city's serious crime rate remained steady between 2013 and 2014.



Serious crime rate (per 1,000 residents) by major type, New York City

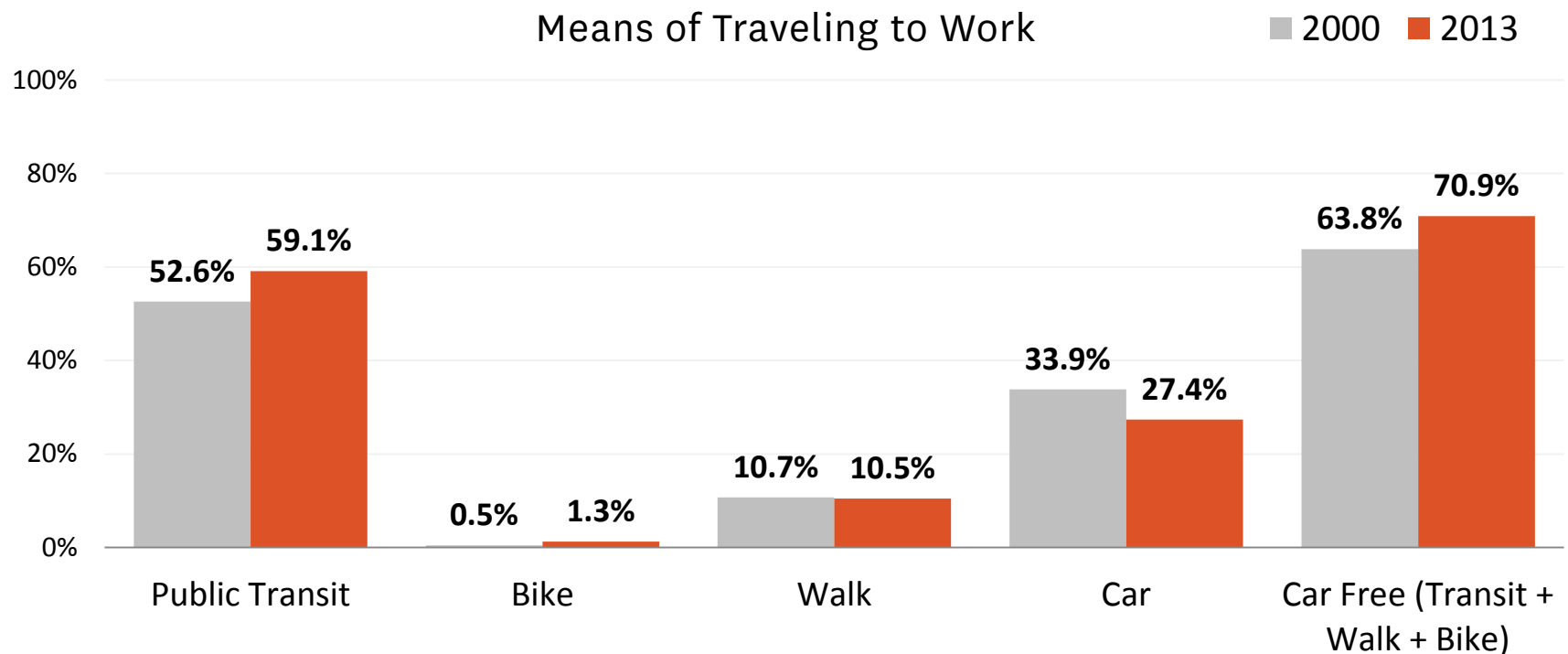
Sources: New York City Police Department, NYU Furman Center





5. NEIGHBORHOOD SERVICES & CONDITIONS

More New Yorkers were commuting without a car.



Means of traveling to work (share of workers who do not work at home), New York City

Sources: U.S. Census (2000), American Community Survey (2013), NYU Furman Center



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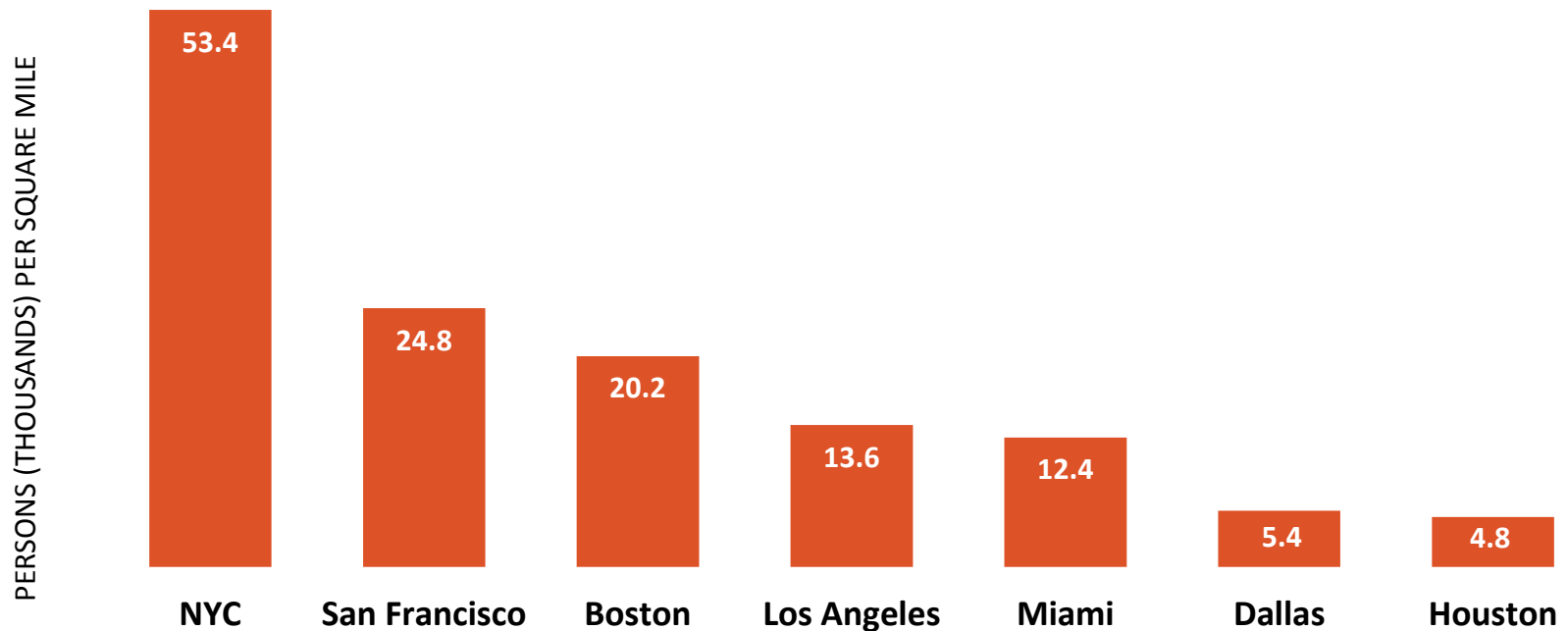
NEW YORK CITY IN CONTEXT

Among U.S. cities, New York City is in a class of its own when it comes to density.



Density levels far higher in New York City than in other cities.

Median Neighborhood Density Experienced by Residents of Large Central Cities, 2010



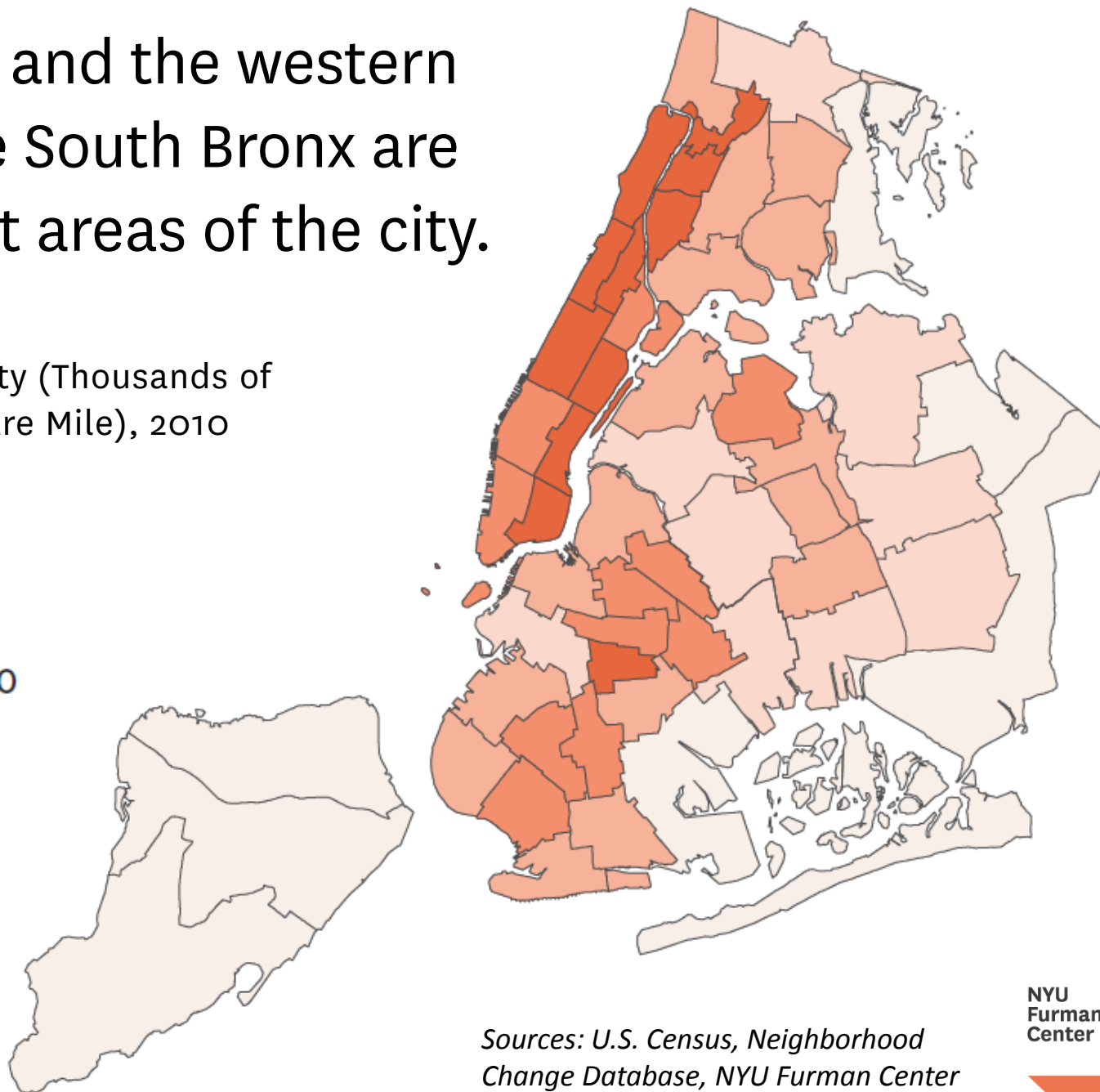
Median Neighborhood Density Experienced by Residents of Large Central Cities, 1970-2010

Sources: U.S. Census, Neighborhood Change Database, NYU Furman Center

Manhattan and the western edge of the South Bronx are the densest areas of the city.

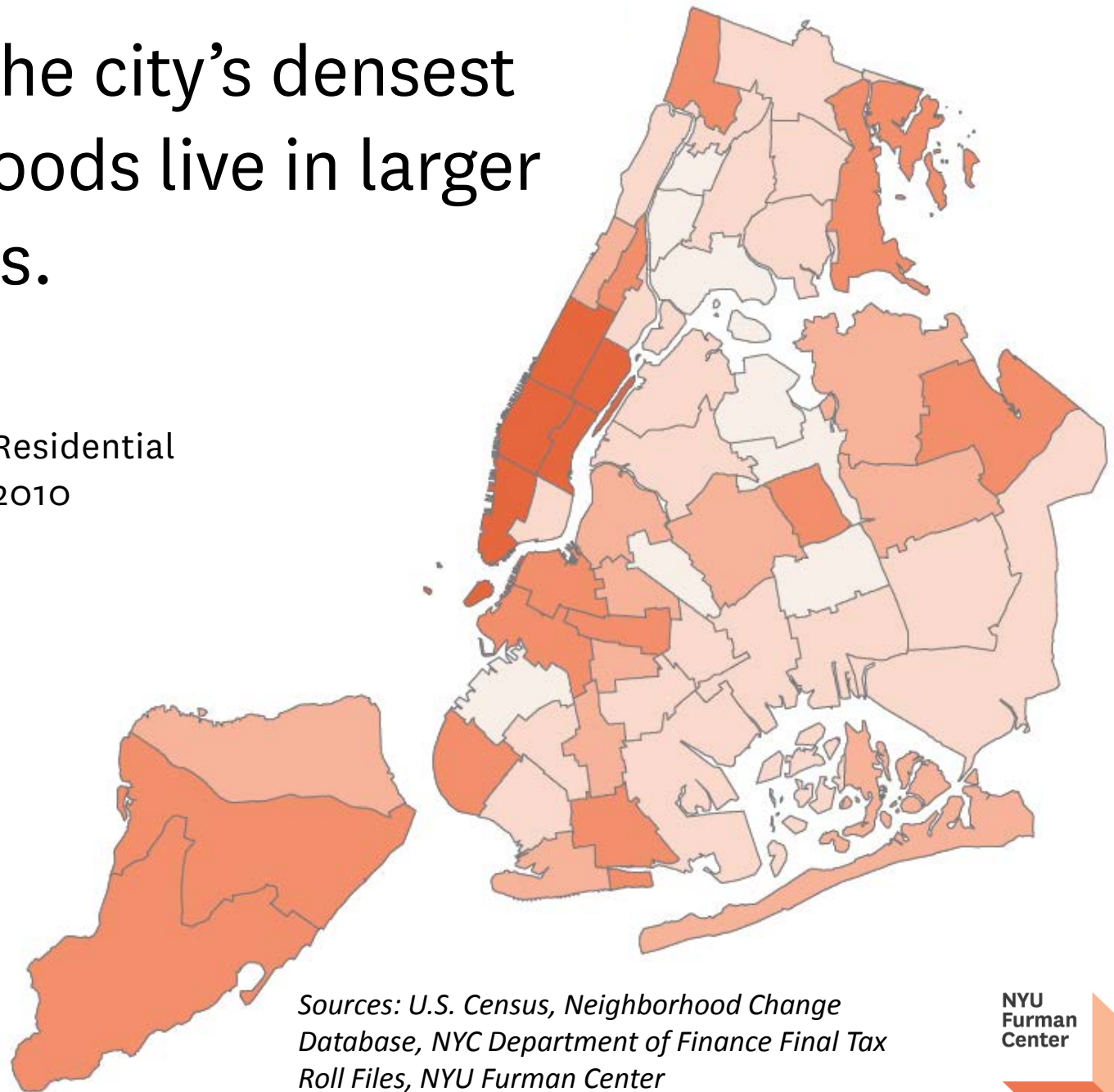
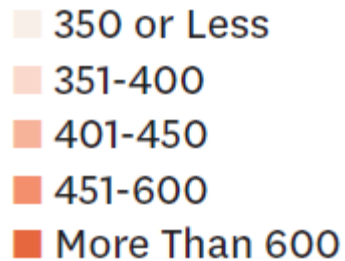
Population Density (Thousands of Persons per Square Mile), 2010

- 15.0 or Less
- 15.1-30.0
- 30.1-45.0
- 45.1-60.0
- More Than 60.0



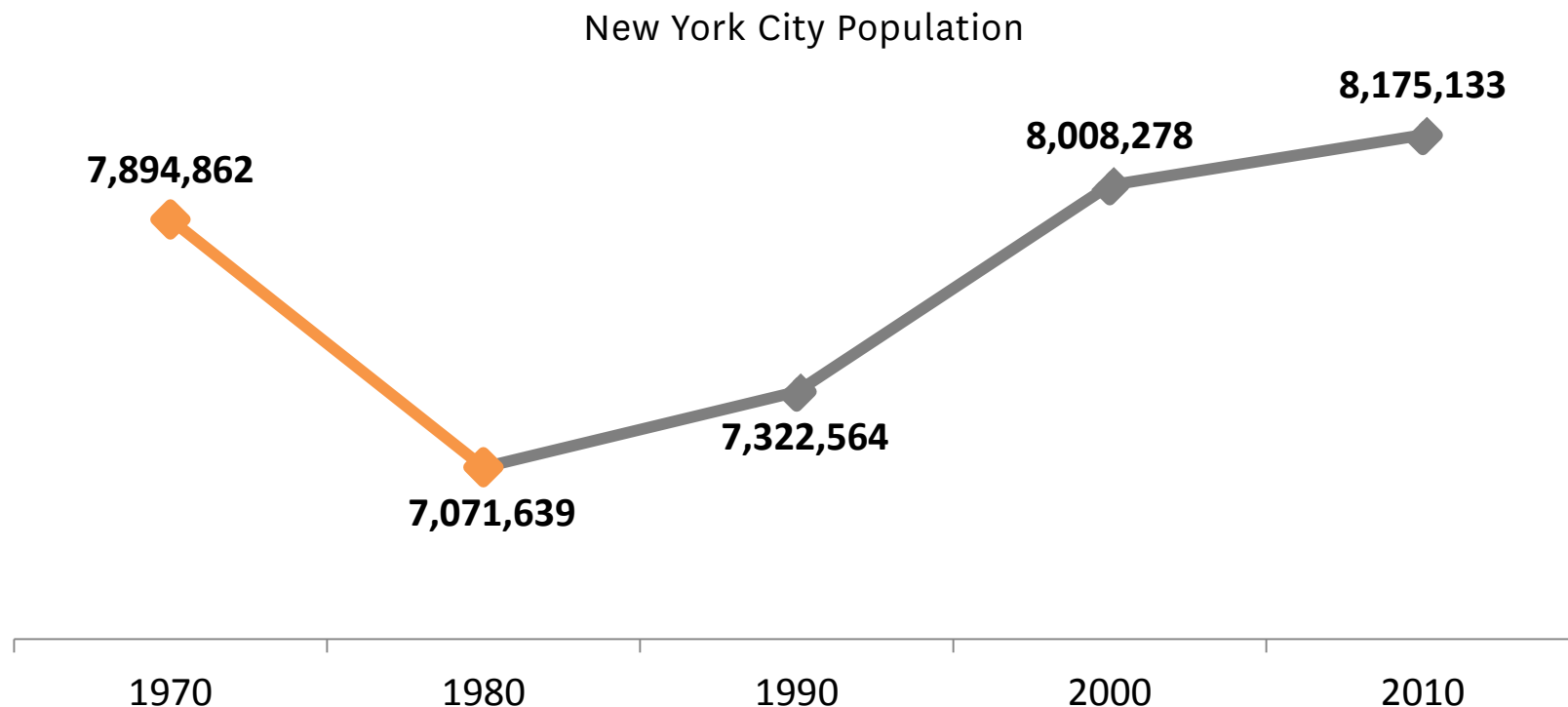
People in the city's densest neighborhoods live in larger apartments.

Square Footage of Residential Space per Person, 2010



Sources: U.S. Census, Neighborhood Change Database, NYC Department of Finance Final Tax Roll Files, NYU Furman Center

NYC lost almost a million people in the 1970s, but its population has grown since then.

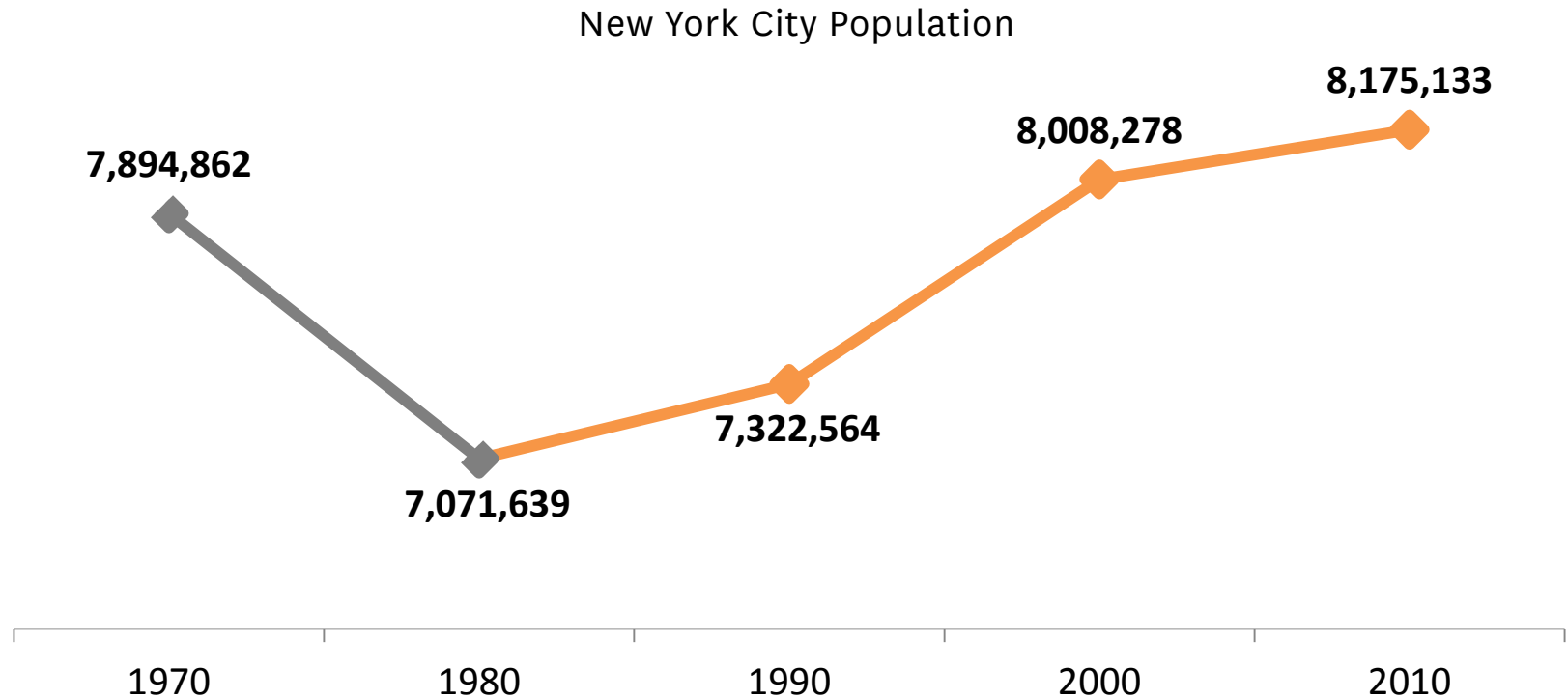


New York City Population 1970-2010

Sources: U.S. Census, Neighborhood Change Database, NYU Furman Center

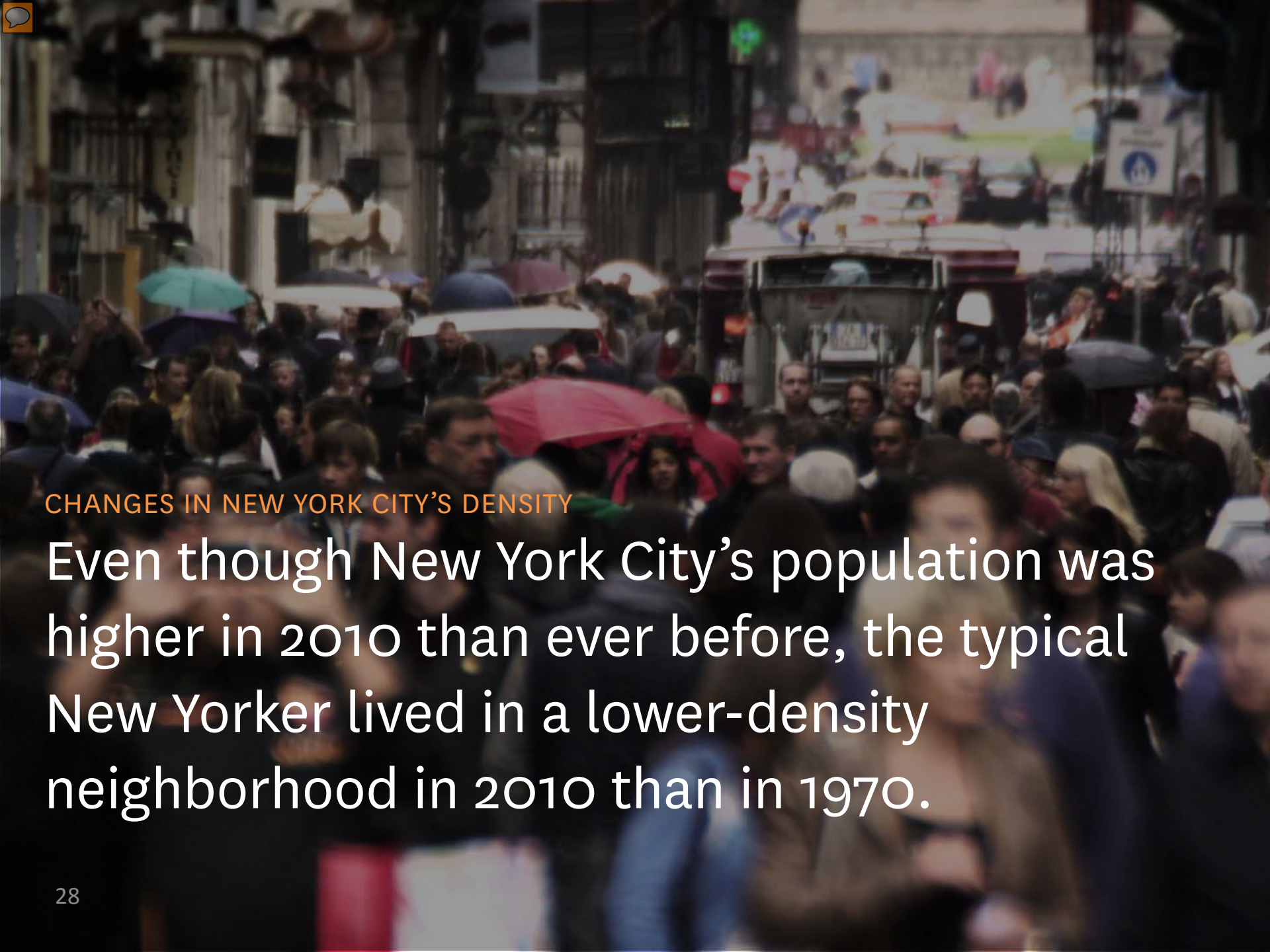


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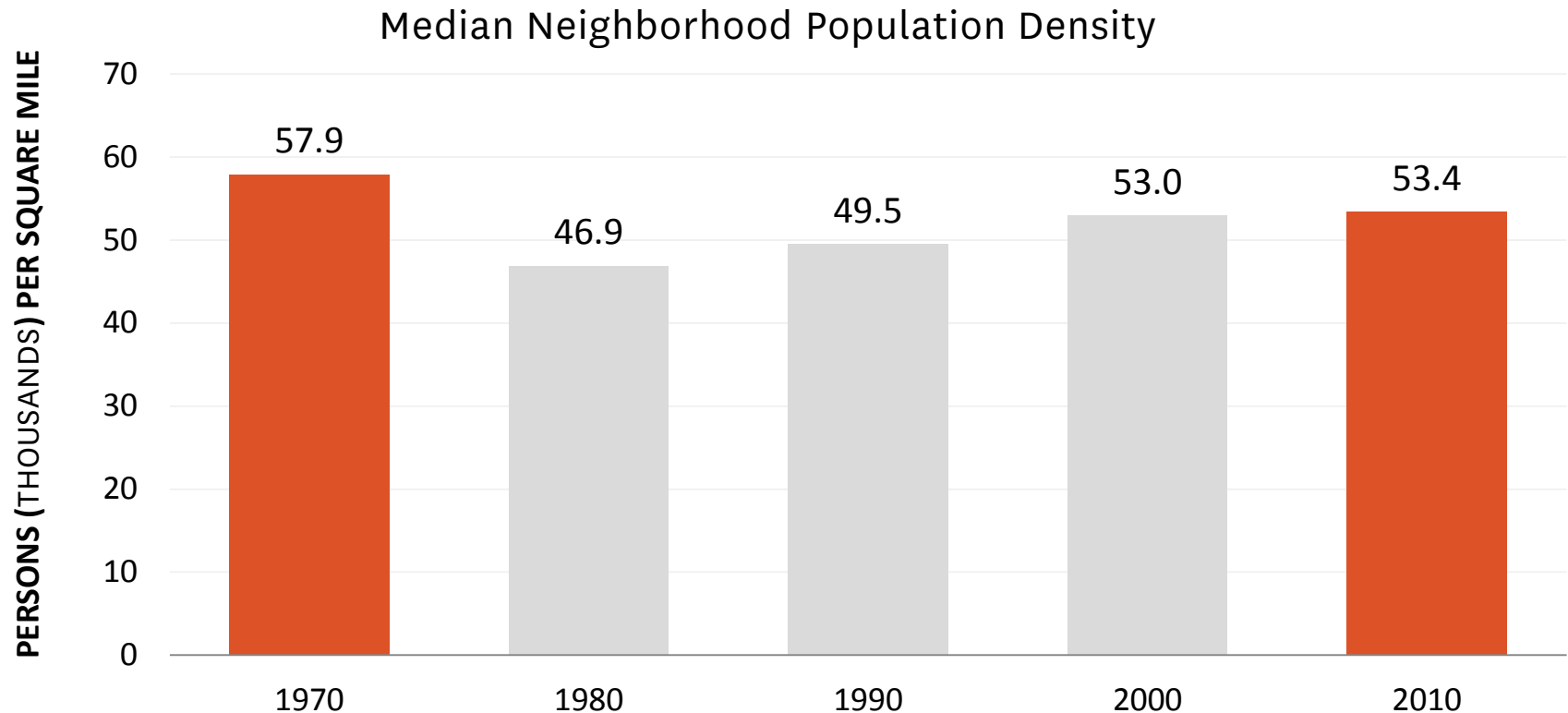
CHANGES IN NEW YORK CITY'S DENSITY

Even though New York City's population was higher in 2010 than ever before, the typical New Yorker lived in a lower-density neighborhood in 2010 than in 1970.



CHANGES IN DENSITY

The typical New Yorker lived in a lower-density neighborhood in 2010 than in 1970.



Median Neighborhood (Tract) Population Density Experienced by NYC Residents, 1970-2010

Sources: U.S. Census, Neighborhood Change Database, NYU Furman Center

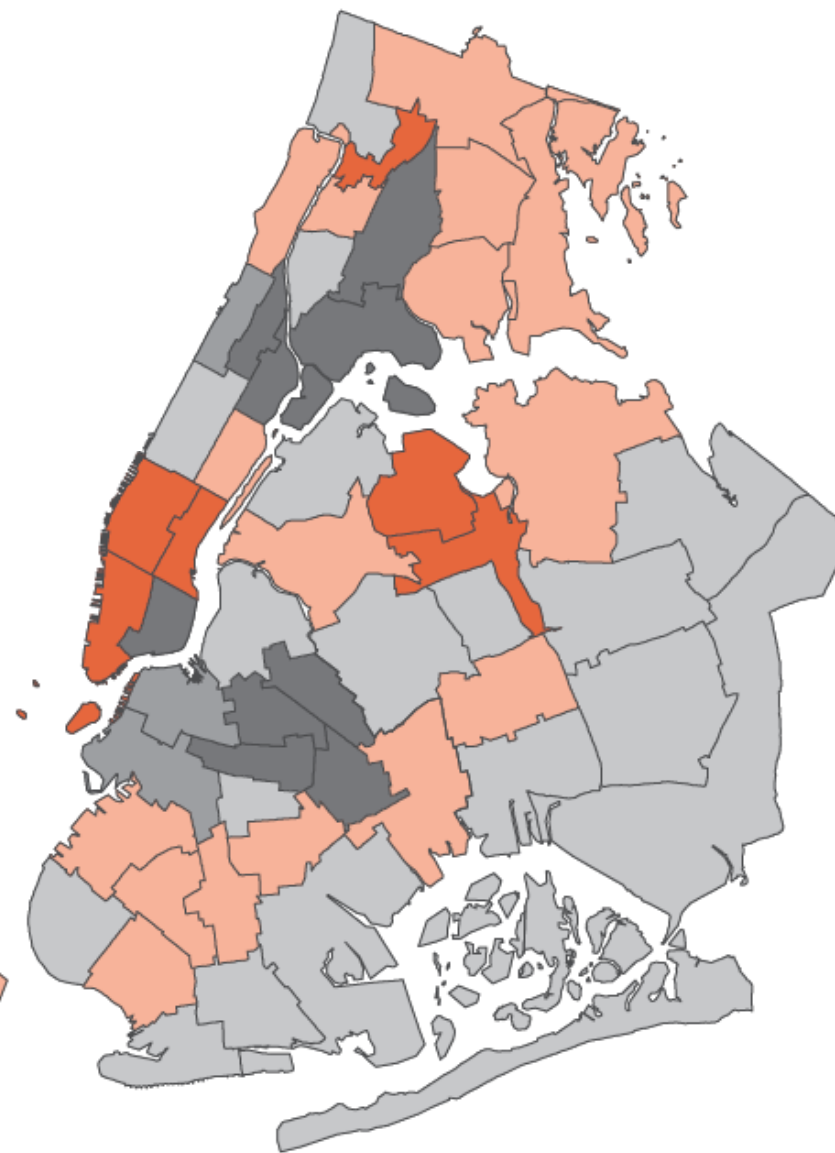
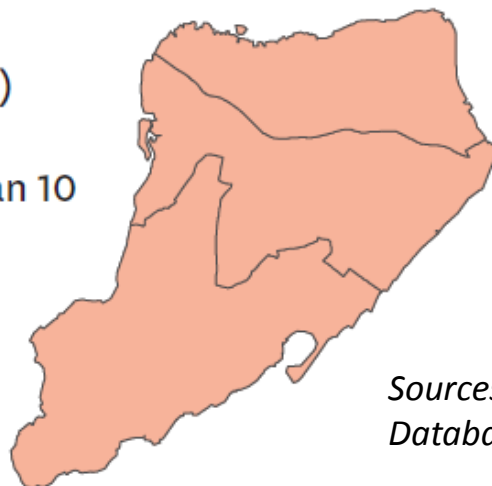


CHANGES IN DENSITY

New York City's population growth has been concentrated in lower-density areas.

Change in Population Density (Thousands of Persons per Square Mile), 1970-2010

- Decreased 10 or More
- Decreased 2-9.9
- Little Change (+/- 2)
- Increased 2.1-10
- Increased More Than 10



Sources: U.S. Census, Neighborhood Change Database, NYU Furman Center



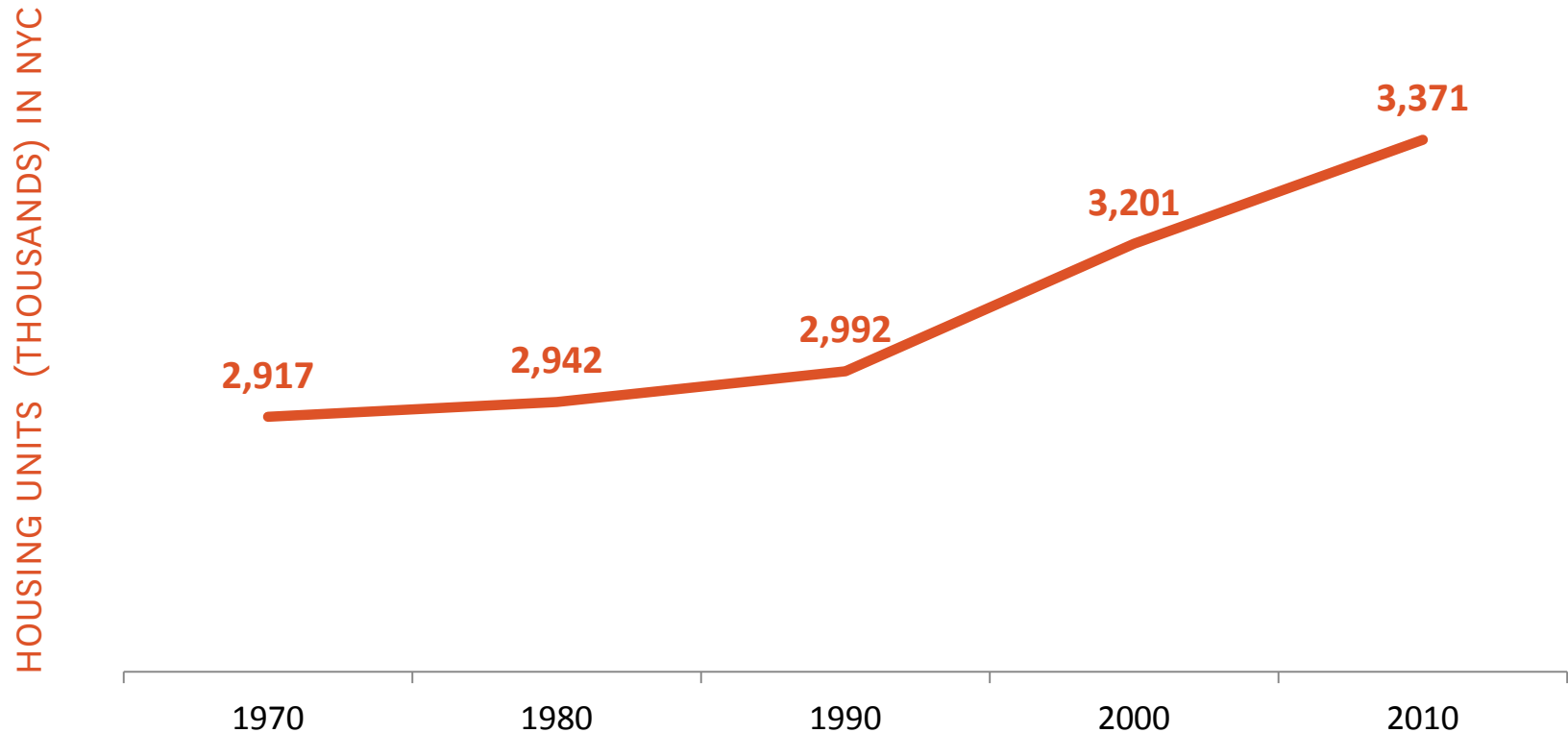
DRIVERS OF DENSITY

There are two contributors to changes in population density: the number housing units and the number of people per unit.



DRIVERS OF DENSITY

The addition of new housing and number of people per unit have both contributed to changes in the city's density.

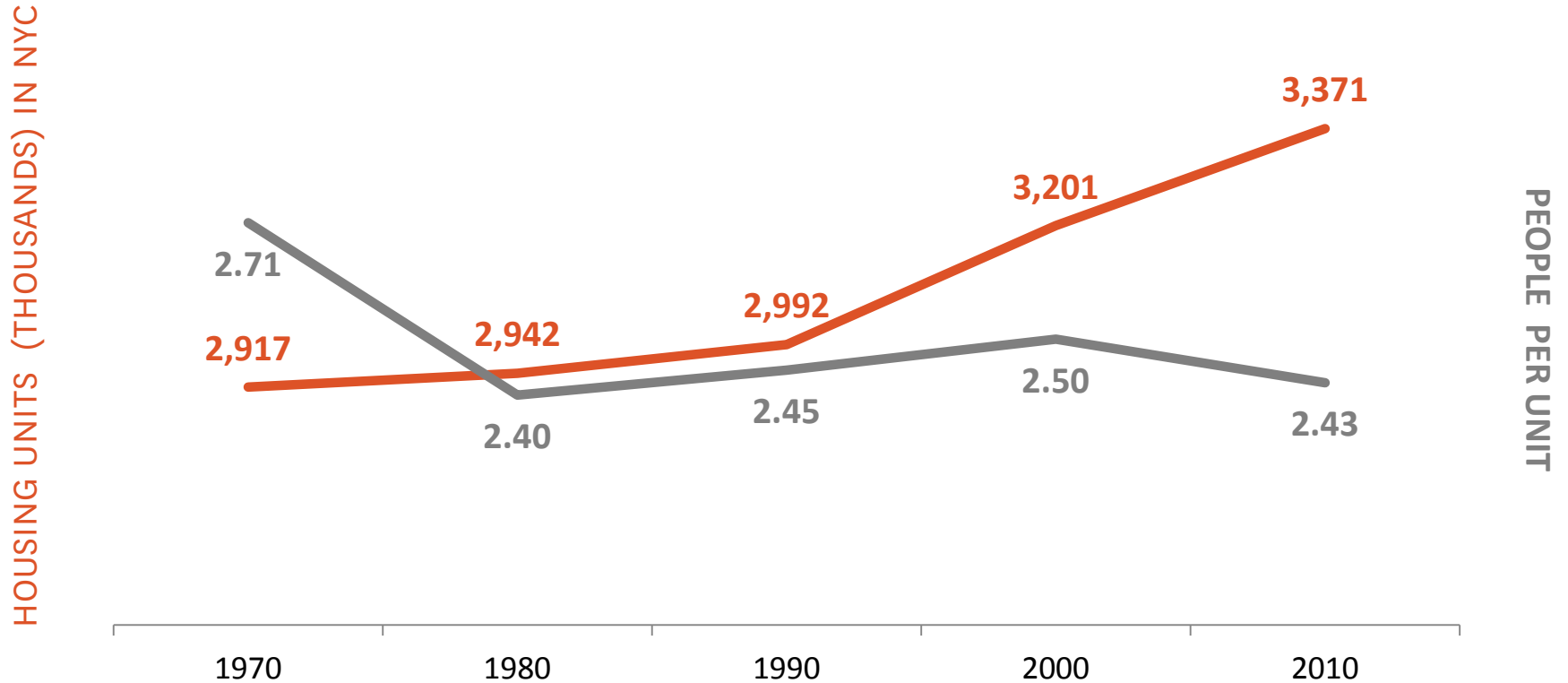


Sources: U.S. Census, Neighborhood Change Database, NYC Department of Finance Final Tax Roll Files, NYU Furman Center



DRIVERS OF DENSITY

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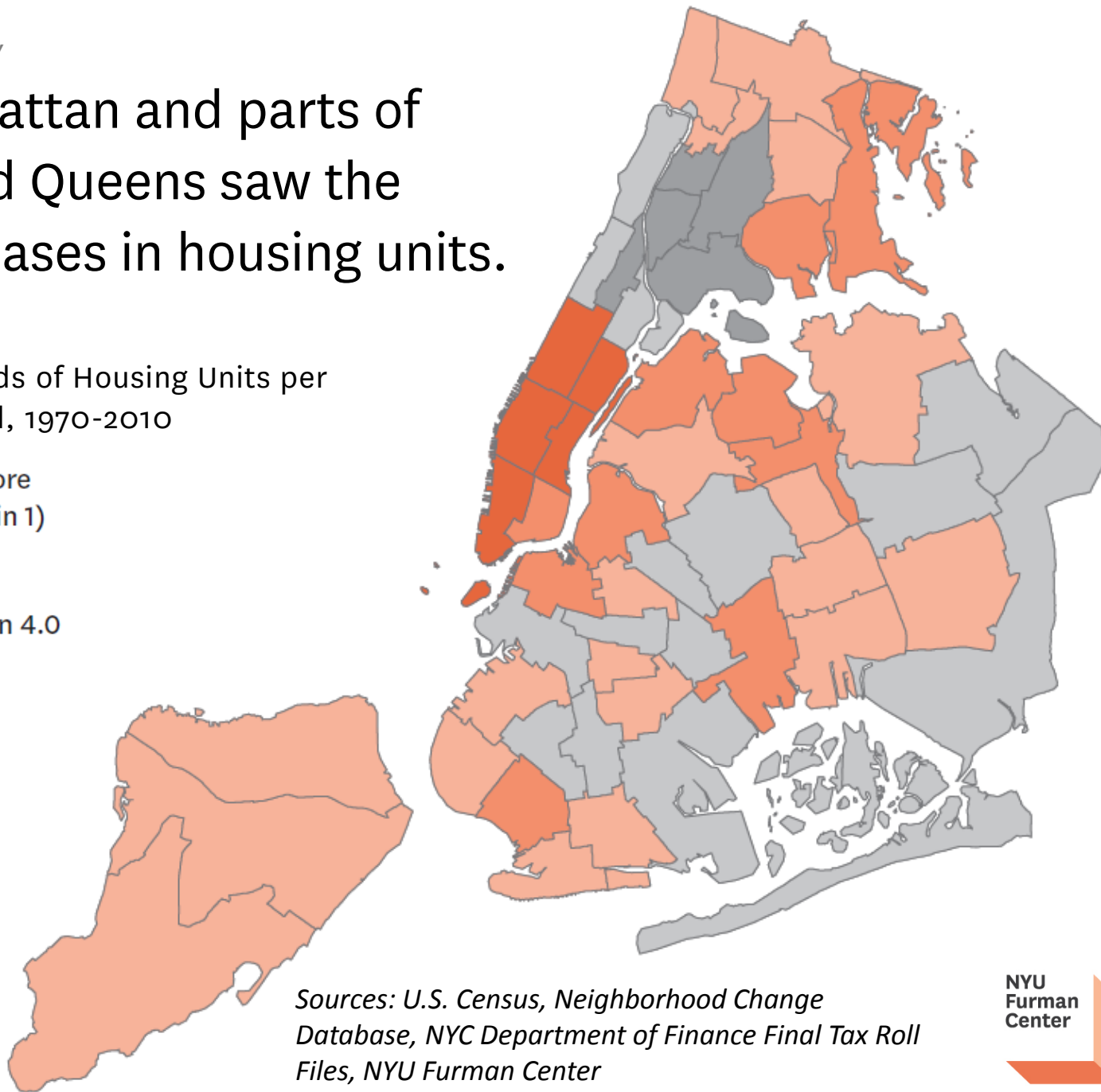


DRIVERS OF DENSITY

Lower Manhattan and parts of Brooklyn and Queens saw the largest increases in housing units.

Change in Thousands of Housing Units per Square Mile of Land, 1970-2010

- Decreased 1.0 or More
- Little Change (Within 1)
- Increased 1.1-2 .0
- Increased 2.1-4.0
- Increased More Than 4.0



Sources: U.S. Census, Neighborhood Change Database, NYC Department of Finance Final Tax Roll Files, NYU Furman Center



DENSITY AND QUALITY OF LIFE

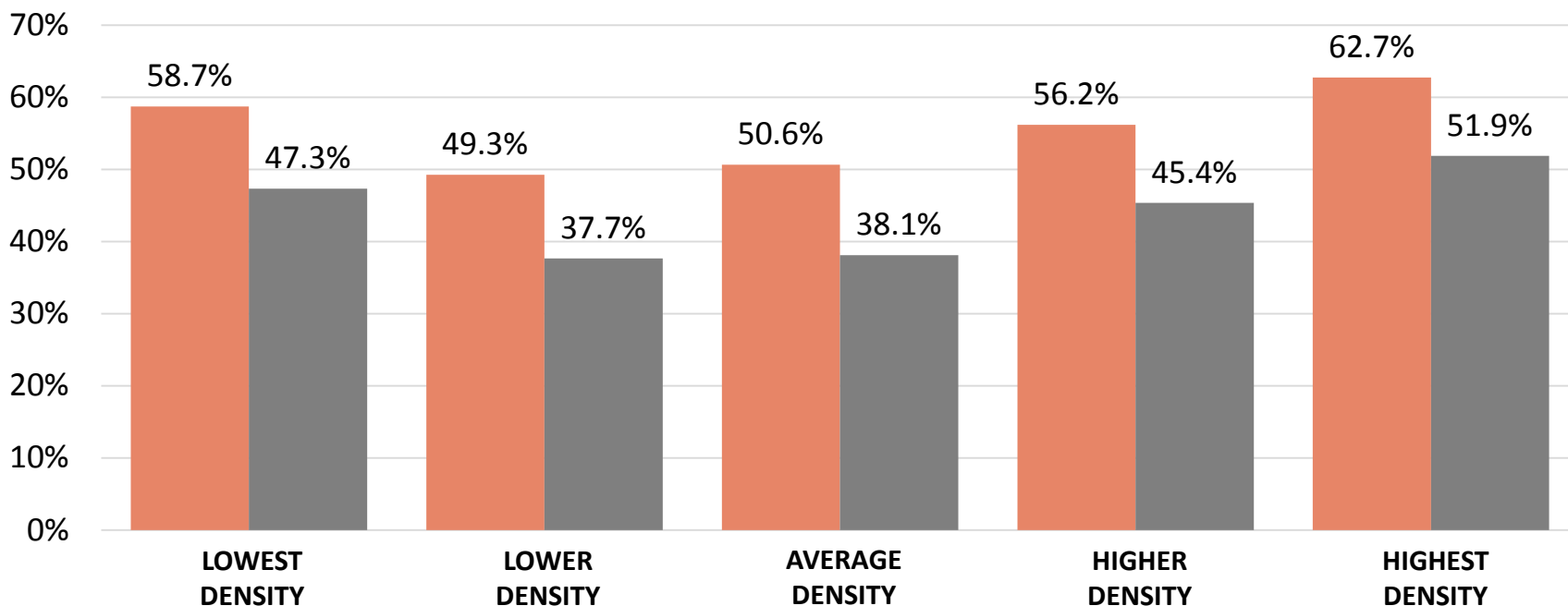
Population density is associated with certain positive neighborhood amenities, and largely unrelated to many negative attributes.



Educational proficiency does not strongly relate to density in NYC.

Students Performing at Grade Level

■ Math ■ English Language Arts

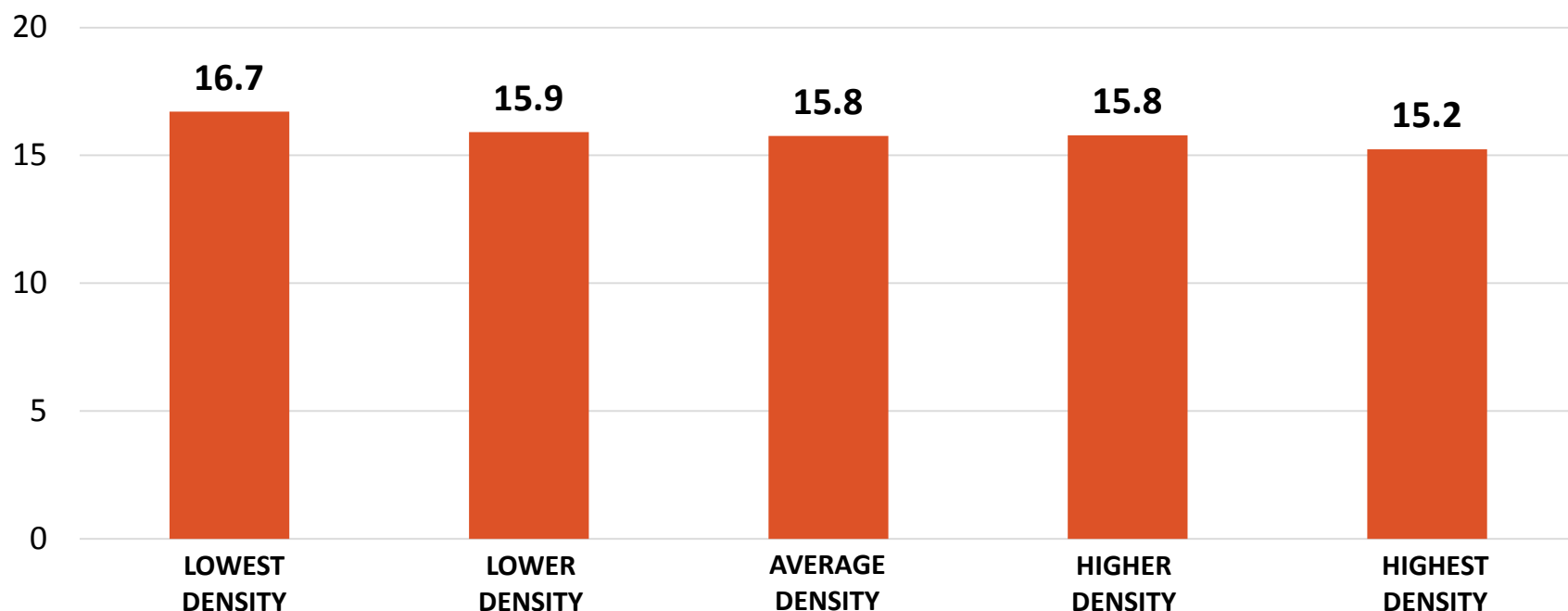


Sources: NYC Department of Education, U.S. Census, Neighborhood Change Database, NYU Furman Center



Schools in higher-density neighborhoods had fewer students per teacher.

Student-Teacher Ratio, 2013

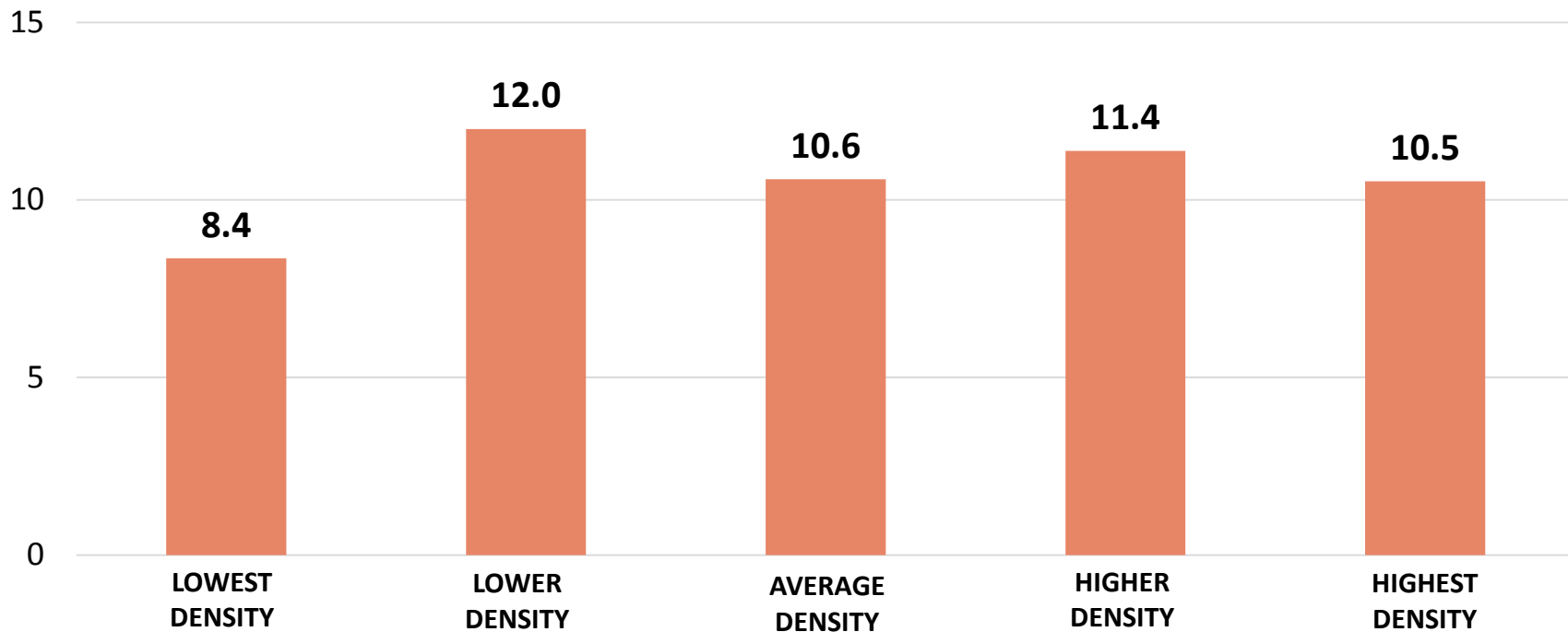


Sources: NYC Department of Education, U.S. Census, Neighborhood Change Database, NYU Furman Center



Measures of public safety do not strongly relate to density.

Serious Crime Rates per 1,000 Residents and Non-Resident Workers

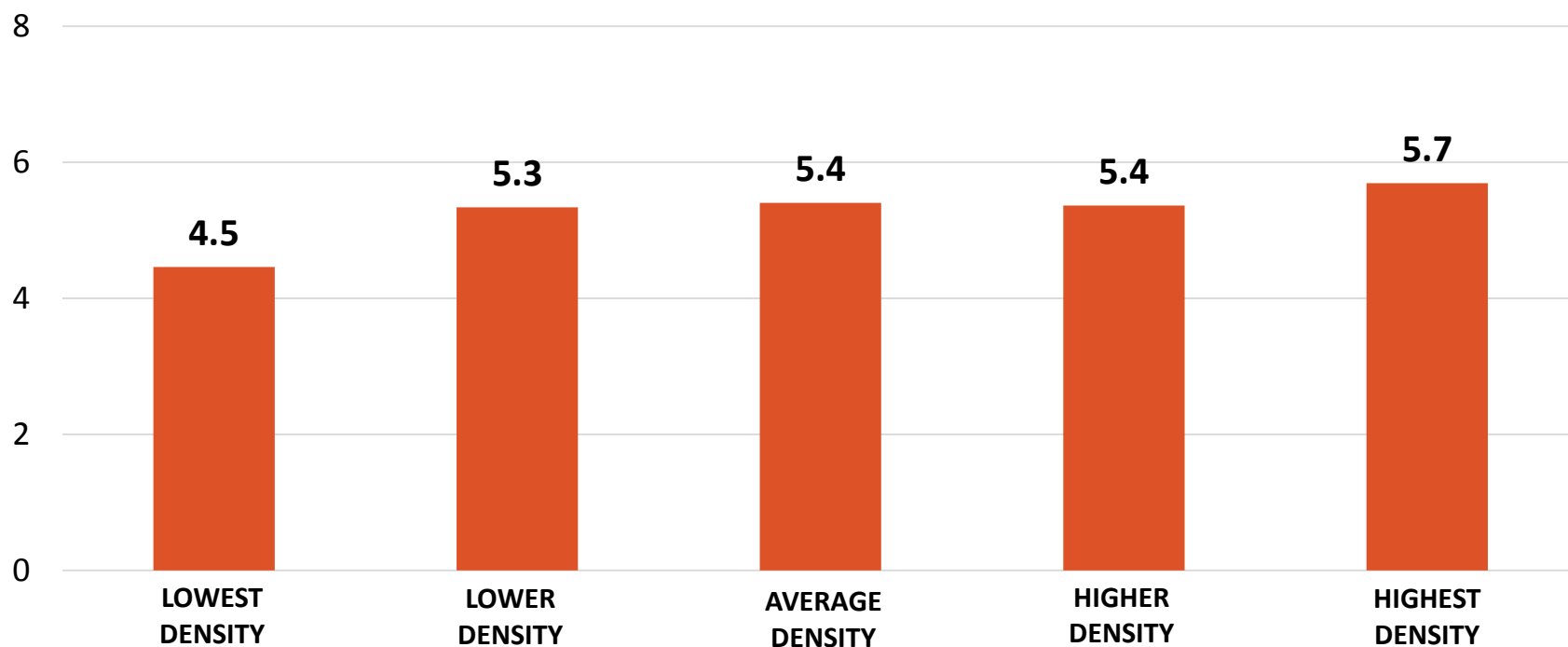


Sources: NYC Department of Education, U.S. Census, Neighborhood Change Database, NYU Furman Center



Higher density neighborhoods had slightly more retail options.

Retail Establishments per 1,000 Residents & Non-Resident Workers

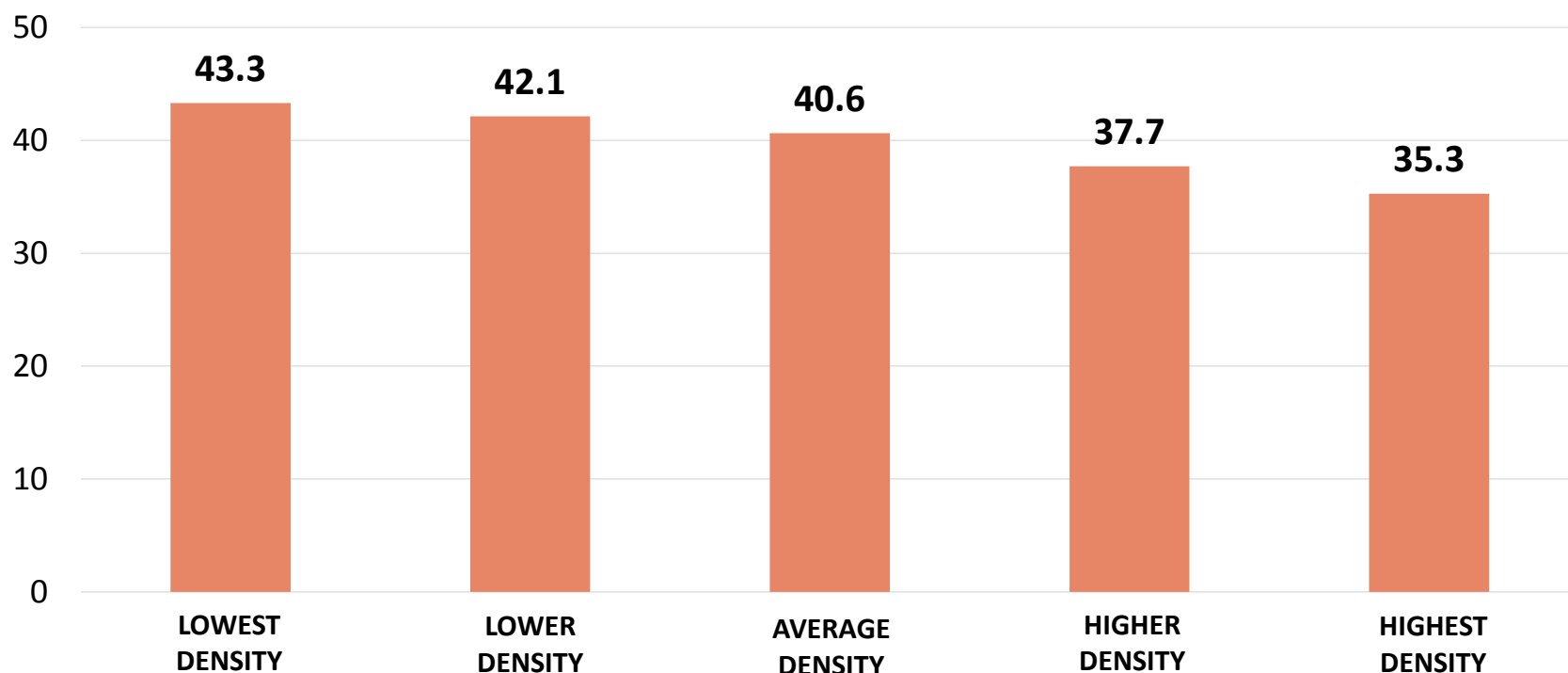


Sources: National Establishment Time Series, U.S. Census, Neighborhood Change Database, NYU Furman Center



Residents in higher density neighborhoods had shorter commutes.

Mean Travel Time to Work (Minutes), 2013



Sources: U.S. Census, Neighborhood Change Database, NYU Furman Center



LOOKING TO NYC'S FUTURE

In 2013, the New York City Department of City Planning projected that the city's population will grow by approximately 578,000 people between 2010 and 2030 to reach a new high of 8.82 million.