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# Dynamic Neighborhood Taxonomy

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*A Project of*  
**LIVING CITIES**

By  
RW Ventures, LLC

**The Williams Institute**  
Dallas, May 22, 2008

# Agenda

I

Background: The DNT Project

II

The Nature of Neighborhood Change

III

Digging Deeper: Specialized Drivers By Factors, Types of Neighborhood and Patterns of Change

IV

Implications 1.0: Dynamic, Specialized Neighborhoods

V

Implications 2.0: Specialized Tools - From Diagnostics to Investment

VI

Discussion: What Next?

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Background: The DNT Project

# About Living Cities



“A partnership of financial institutions, national foundations and federal government agencies that invest capital, time and organizational leadership to advance America’s urban neighborhoods.”

## LIVING CITIES PARTNERS:

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AXA Community Investment Program  
Bank of America  
The Annie E. Casey Foundation  
J.P. Morgan Chase & Company  
Deutsche Bank  
Ford Foundation  
Bill & Melinda Gates Foundation  
Robert Wood Johnson Foundation

The Kresge Foundation  
John S. and James L. Knight Foundation  
John D. and Catherine T. MacArthur Foundation  
The McKnight Foundation  
MetLife, Inc.  
Prudential Financial  
The Rockefeller Foundation  
United States Department of Housing &  
Urban Development



# Partners and Advisors

## Participating Cities: Chicago, Cleveland, Dallas and Seattle



... And Over 70 Advisors including Practitioners, Researchers, Funders, Civic Leaders and Government Officials

# We Know Where We Want to Go...

## Common Goal:



**Building Healthier Communities**

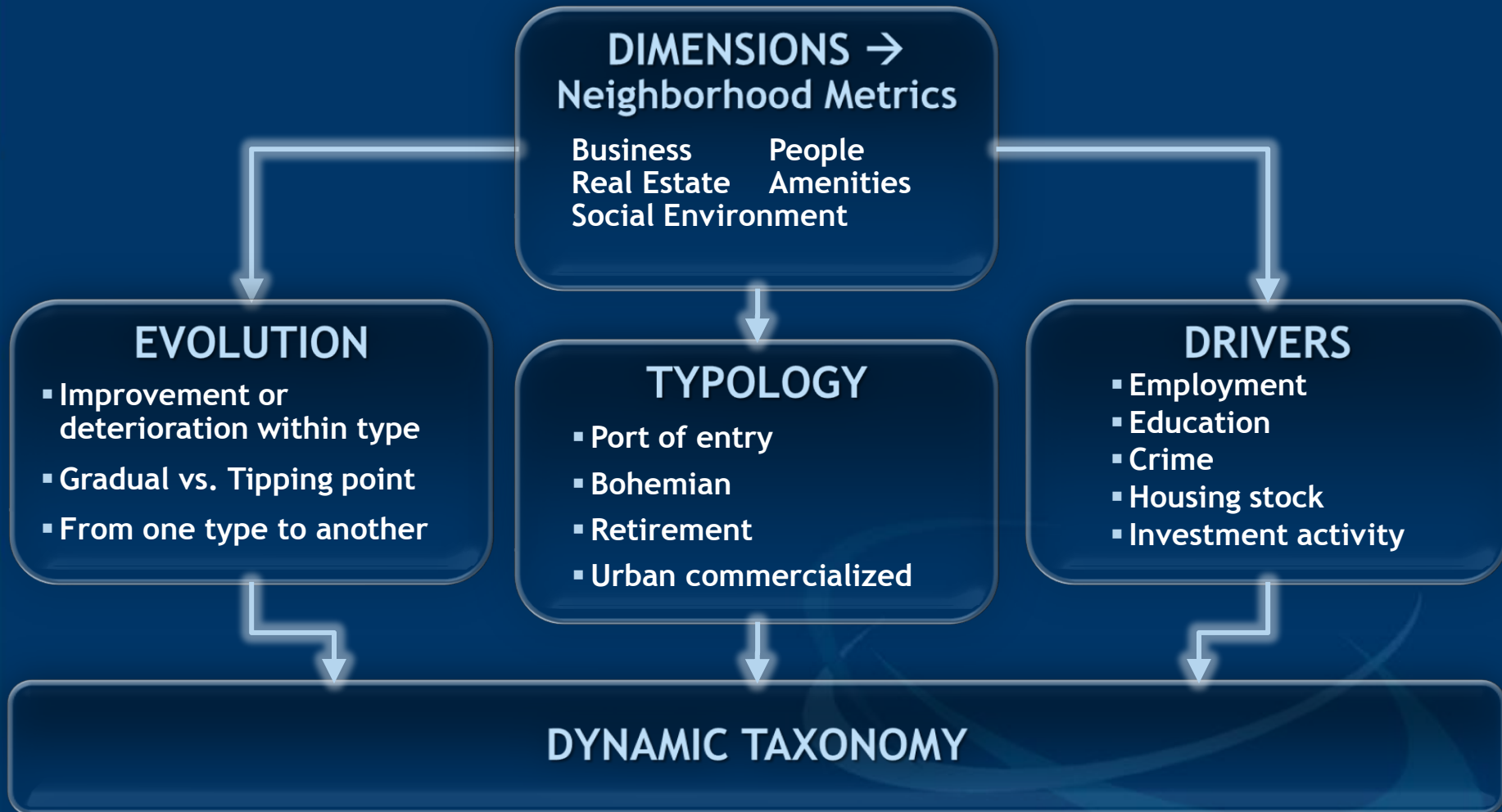
# The Challenge:

## Scarce Resources, Many Options

- Community-Based Organizations: select interventions, identify assets and attract investment
- Governments: tailor policy and interventions
- Businesses: identify untapped neighborhood markets
- Foundations: target interventions, evaluate impacts

*Need for  
Relevant,  
Timely and  
Accessible  
Information  
Resources*

# Comprehensive Neighborhood Taxonomy



# Drivers Model and Data



## PHYSICAL:

Distance from CBD, vacancies, rehab activity, ...

## TRANSPORTATION:

Transit options, distance to jobs, ...

## CONSUMPTION:

Retail, services, entertainment, ...

## PUBLIC SERVICES:

Quality of schools, police and fire, ...

## SOCIAL INTERACTIONS:

Demographics, crime rates, social capital...

*Over 2,500  
variables,  
spanning 15  
years,  
covering over  
2,000 census  
tracts*

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## II

### The Nature of Neighborhood Change

- a. Measuring Change: the RSI
- b. Overall Patterns
- c. Degree and Pace of Change
- d. Drivers of Change

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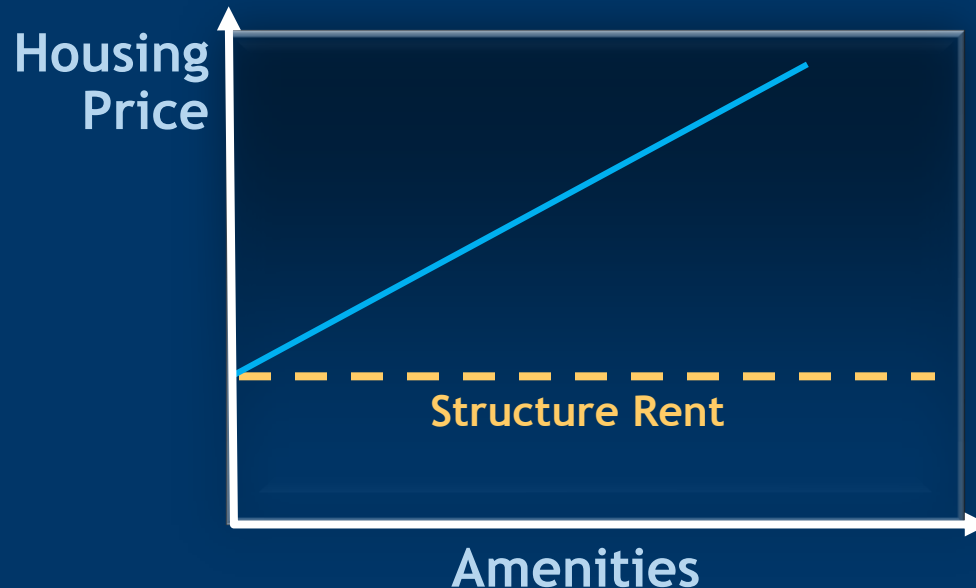
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### The Nature of Neighborhood Change

- a. Measuring Change: the RSI
- b. Overall Patterns
- c. Degree and Pace of Change
- d. Drivers of Change



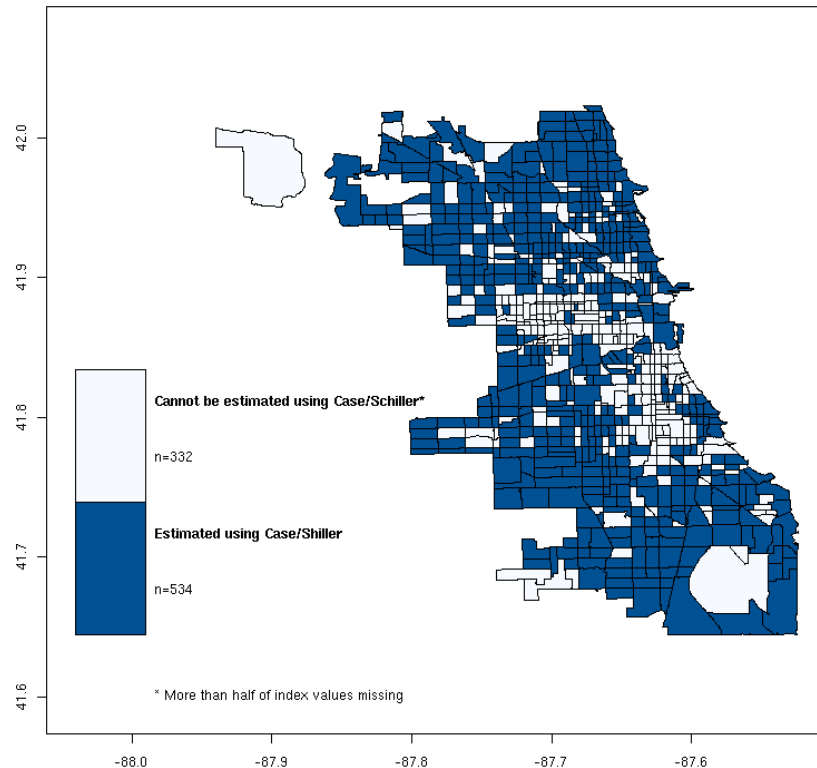
# Theoretical Framework



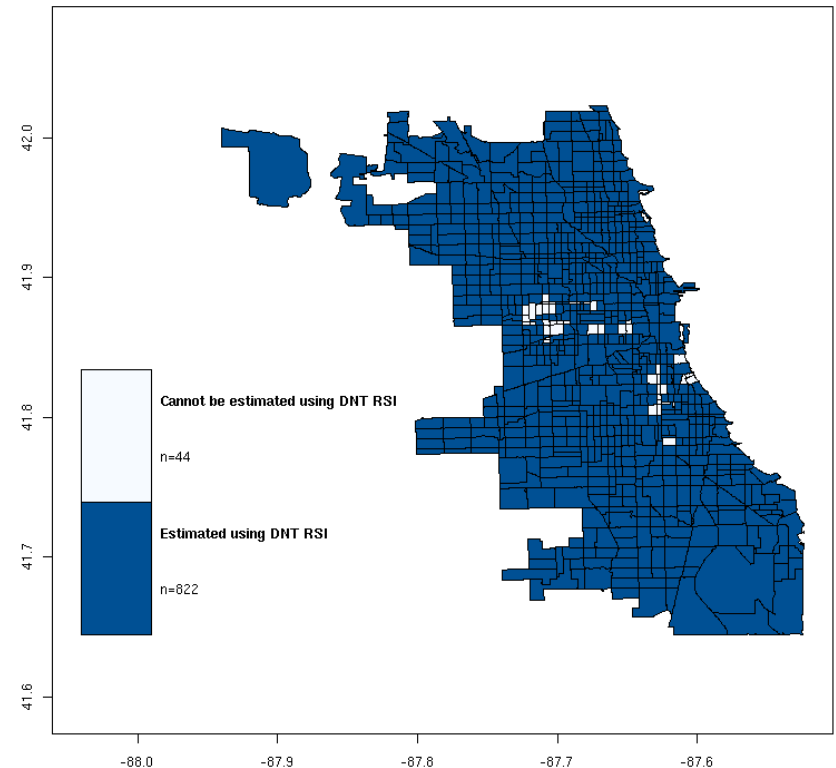
- Use Demand for Housing as Proxy for Neighborhood Health
- Look at Quality Adjusted Housing Values to Capture Neighborhood Amenities
- Look at Change in Quantity of Housing to Account for Supply Effects

# Finding a Metric that Works: The DNT RSI

RSI Estimation Coverage Using Case/Shiller Method  
Time Period: 2000 - 2006



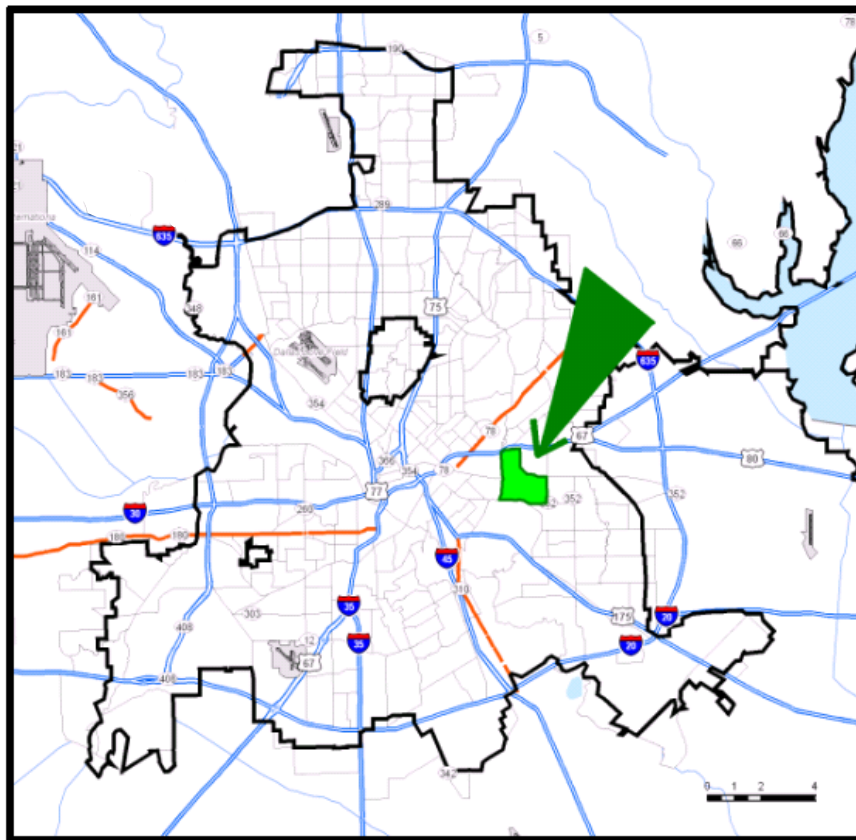
RSI Estimation Coverage Using DNT RSI Method  
Time Period: 2000 - 2006



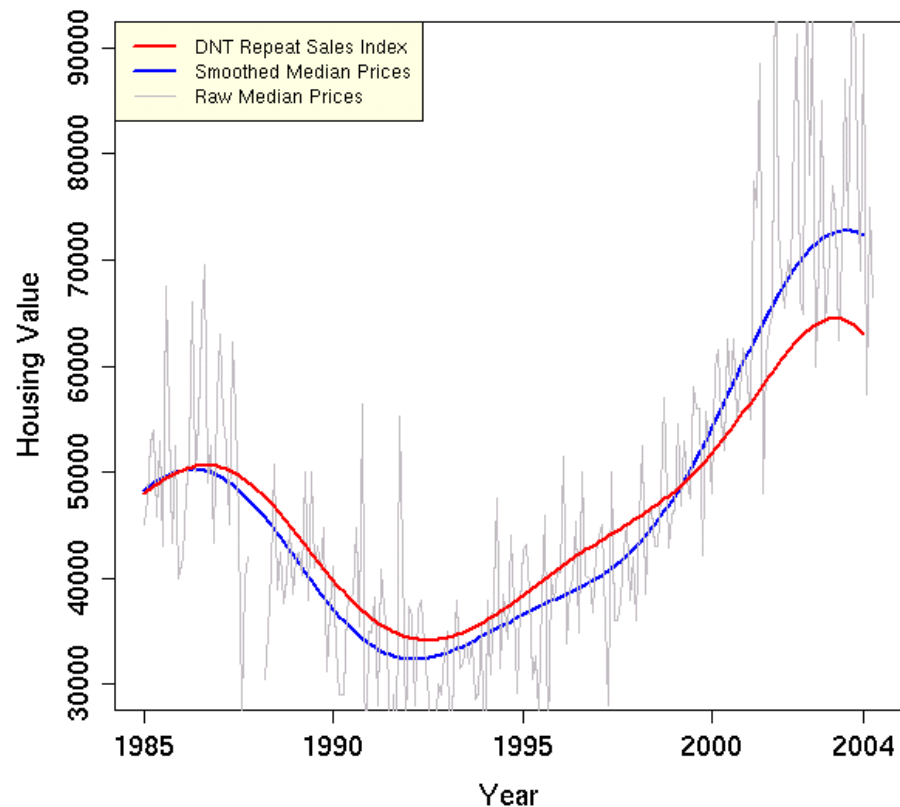
Improving upon traditional repeat sales indices, the DNT RSI can be estimated for very small levels of geography, and is more robust and less volatile.

# Looking at Particular Tracts: Appreciation in Urbandale-Parkdale

Location: Tract 008400 in Urbandale-Parkdale

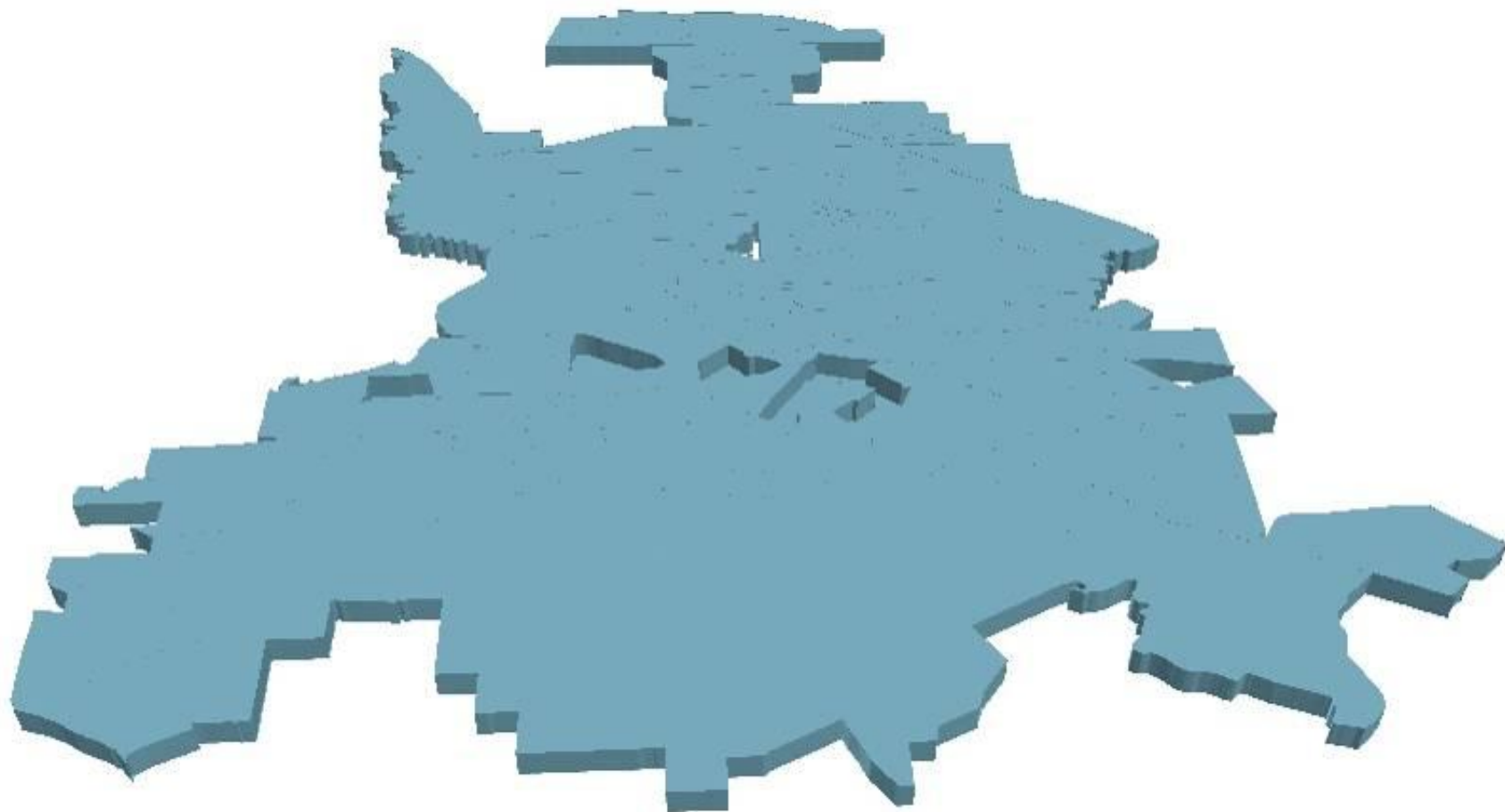


Housing Price Trends



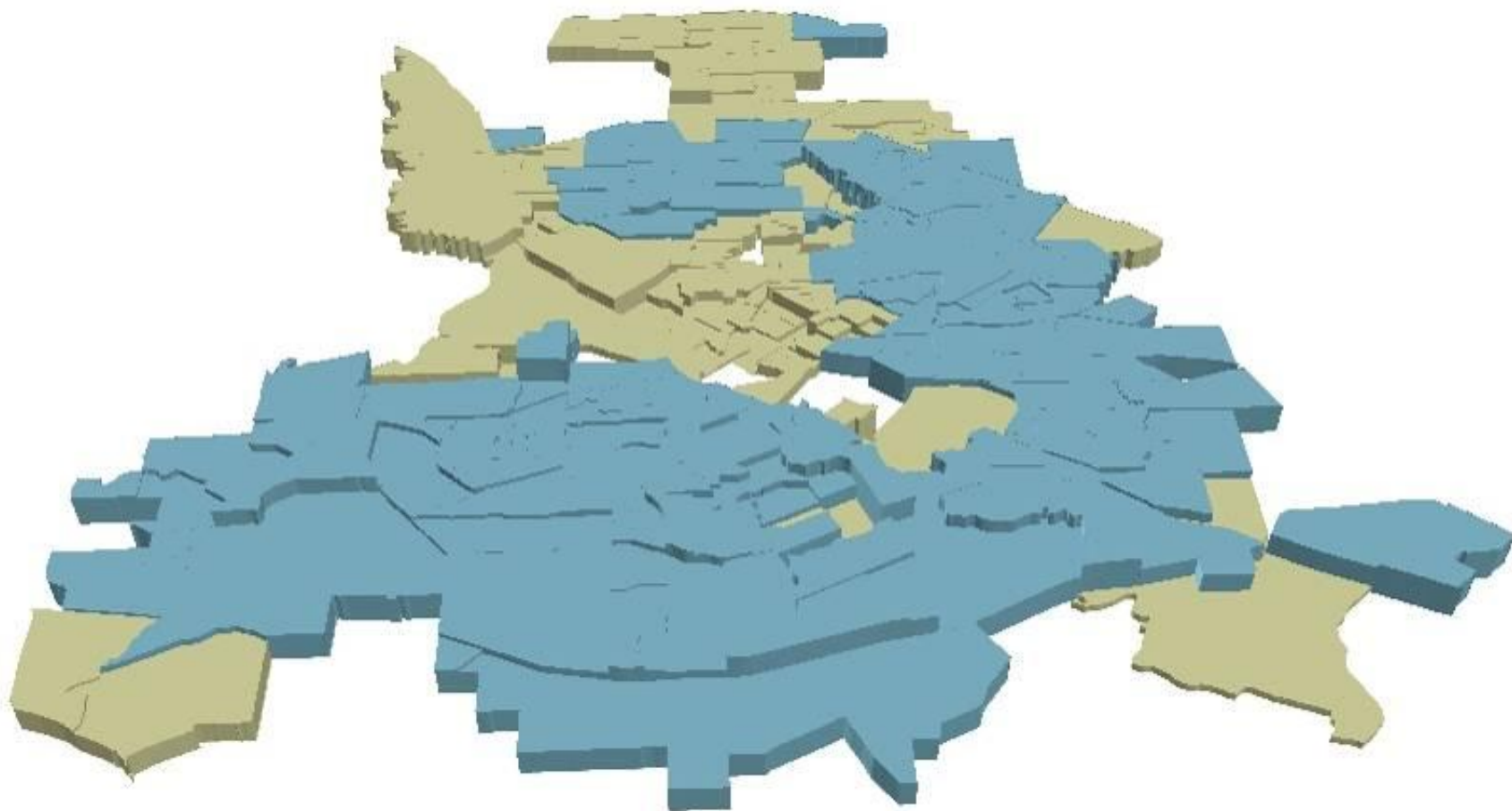
# Dallas Neighborhood Change, 1985-2004

1985



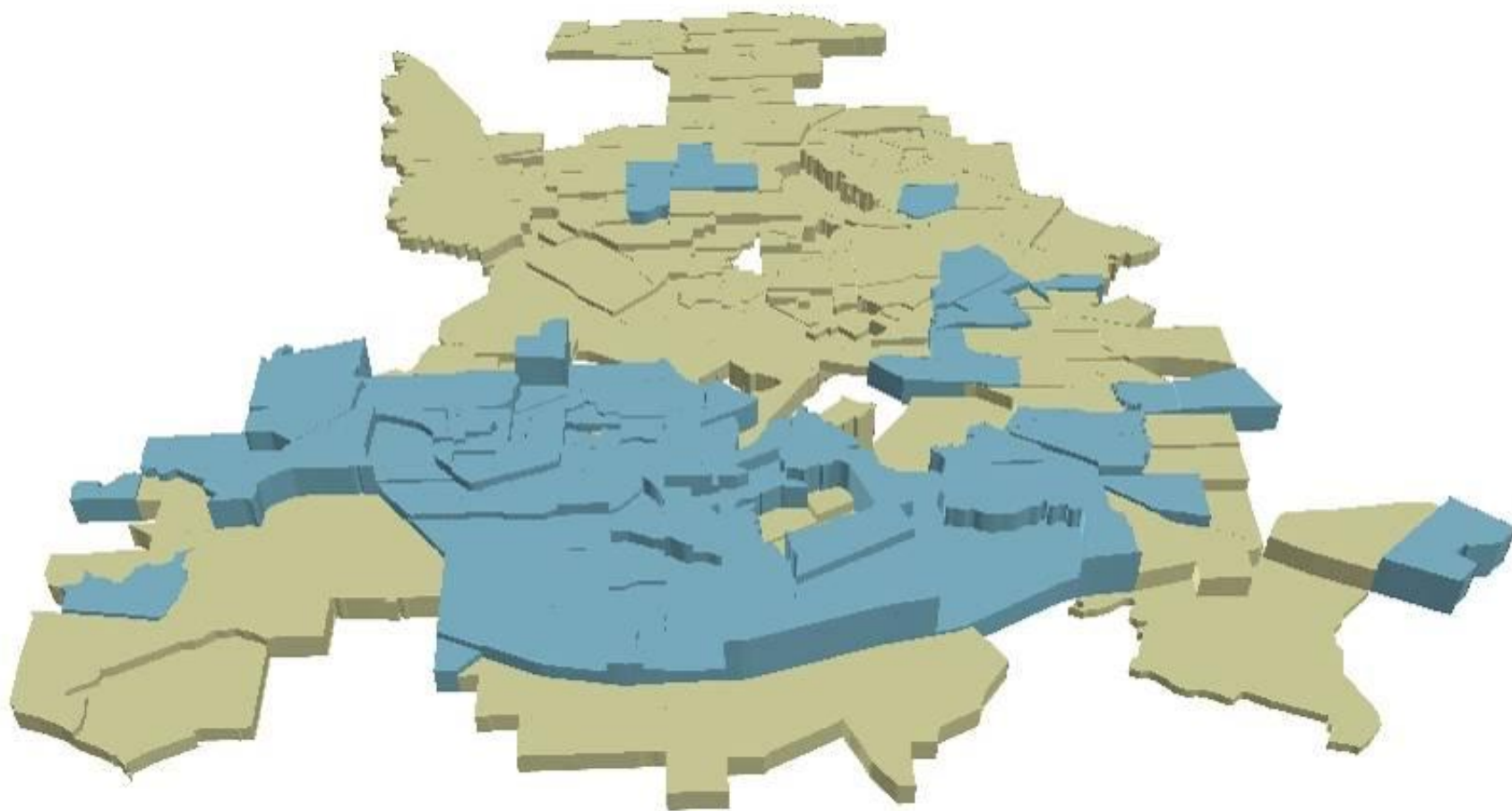
# Dallas Neighborhood Change, 1985-2004

1986



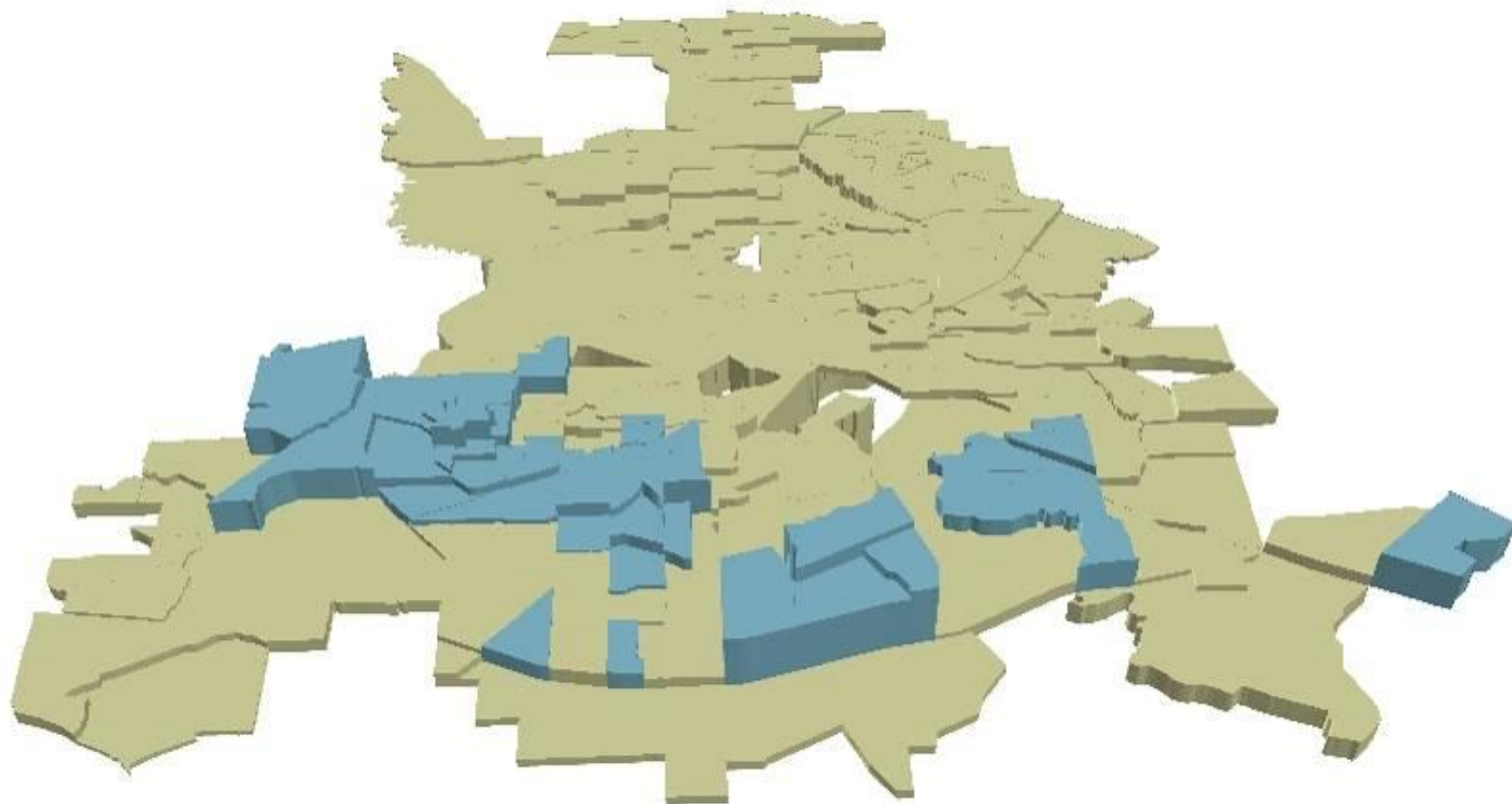
# Dallas Neighborhood Change, 1985-2004

1987



# Dallas Neighborhood Change, 1985-2004

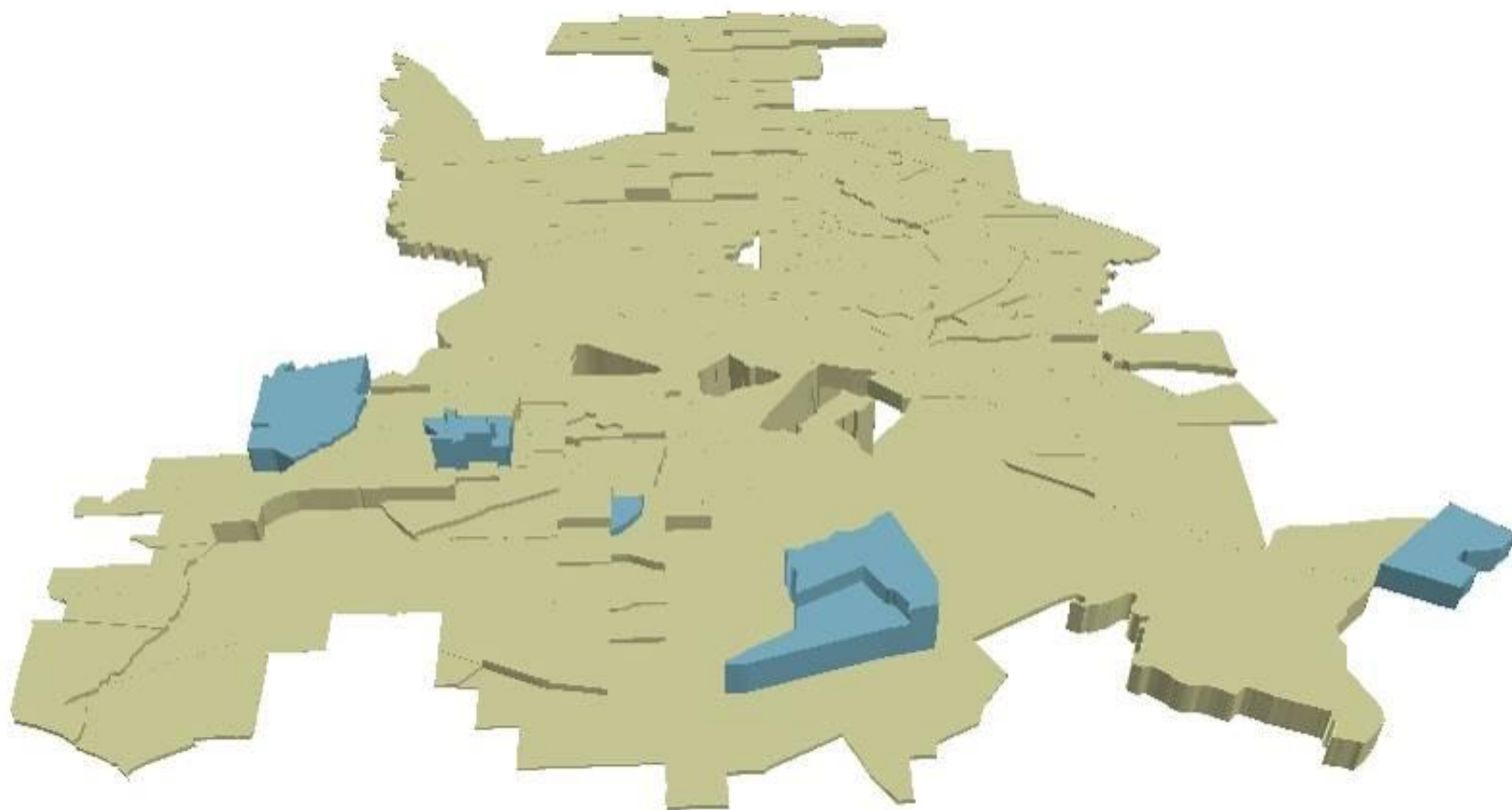
1988





# Dallas Neighborhood Change, 1985-2004

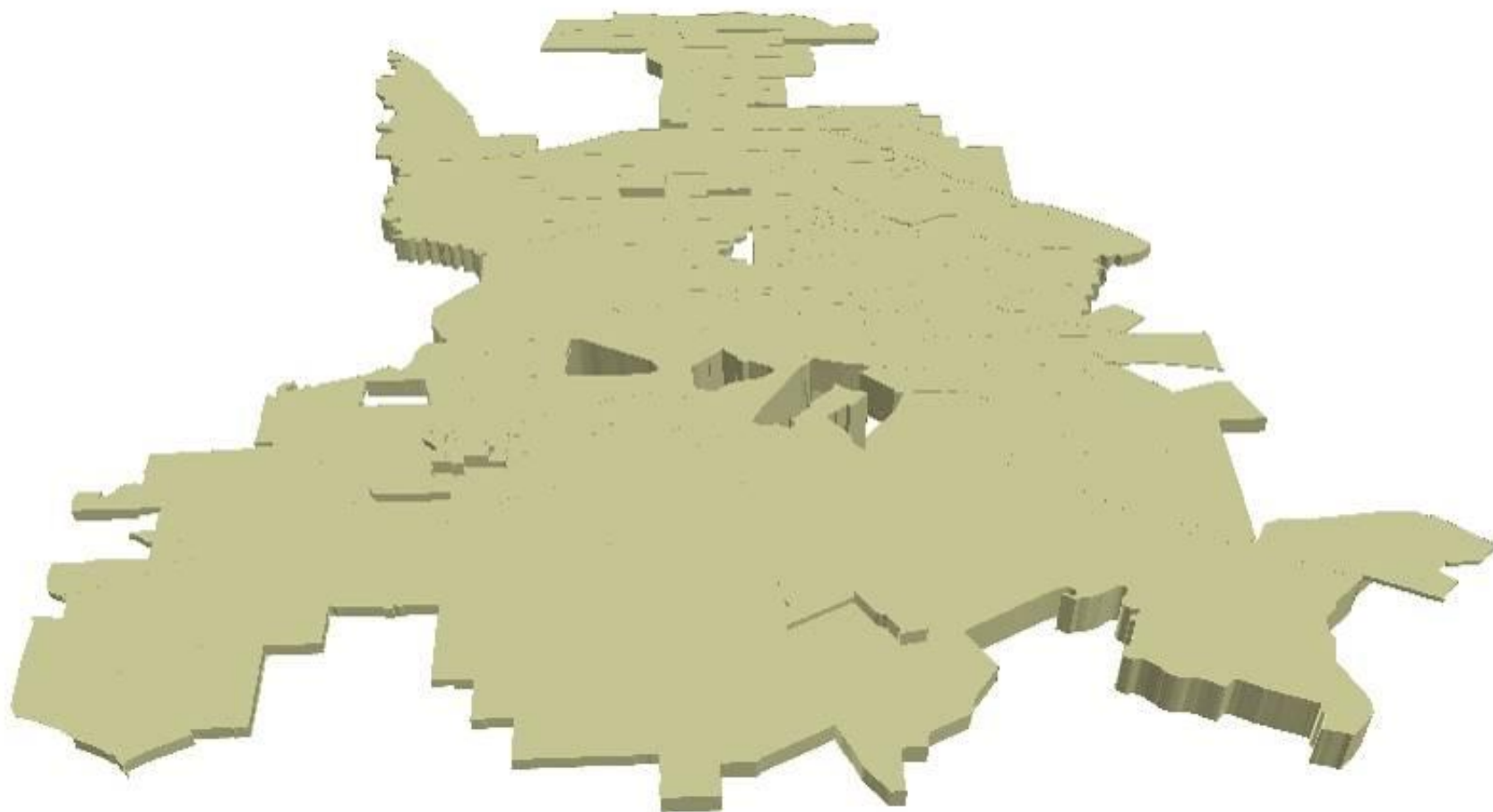
1989





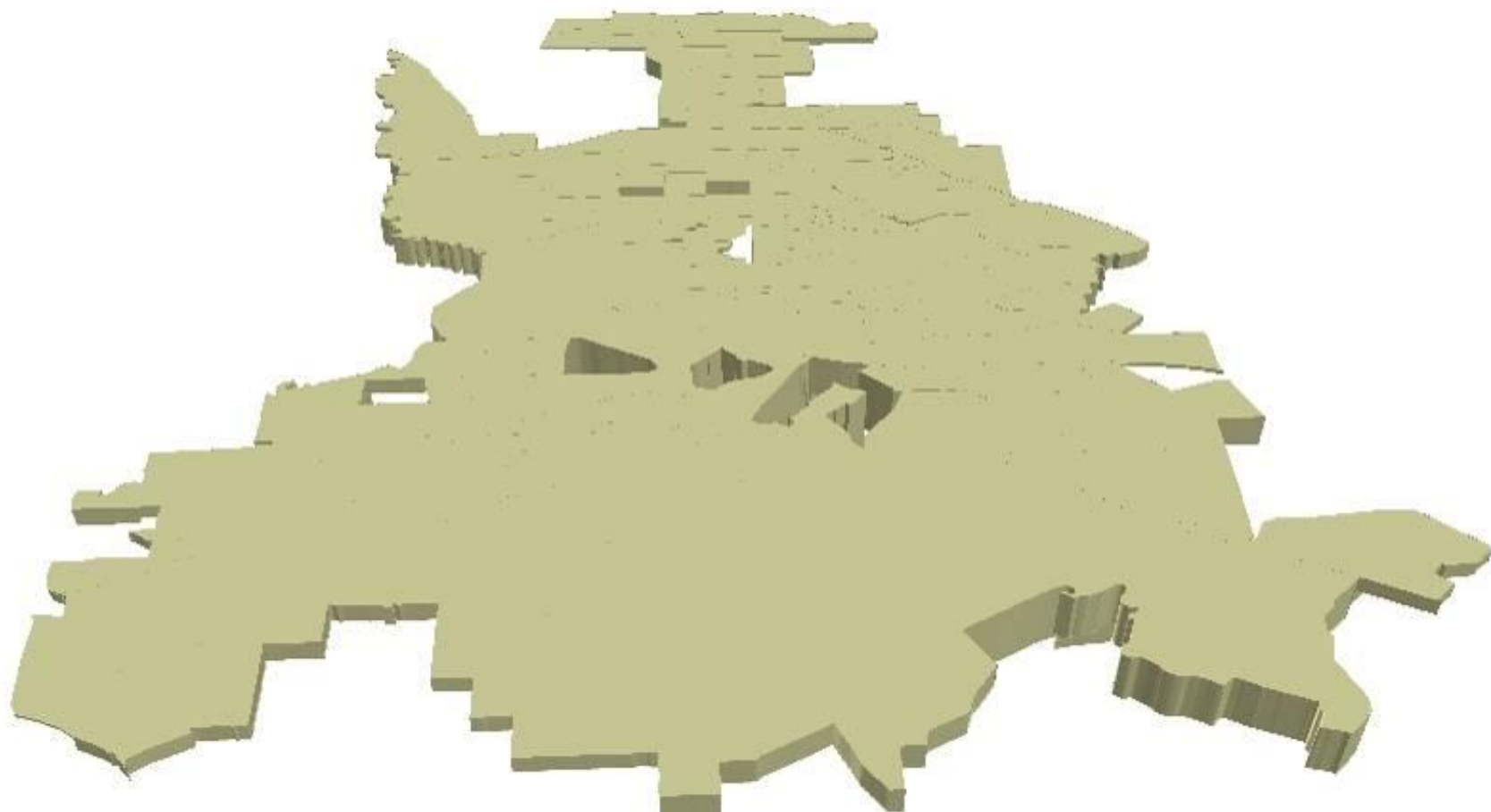
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1990



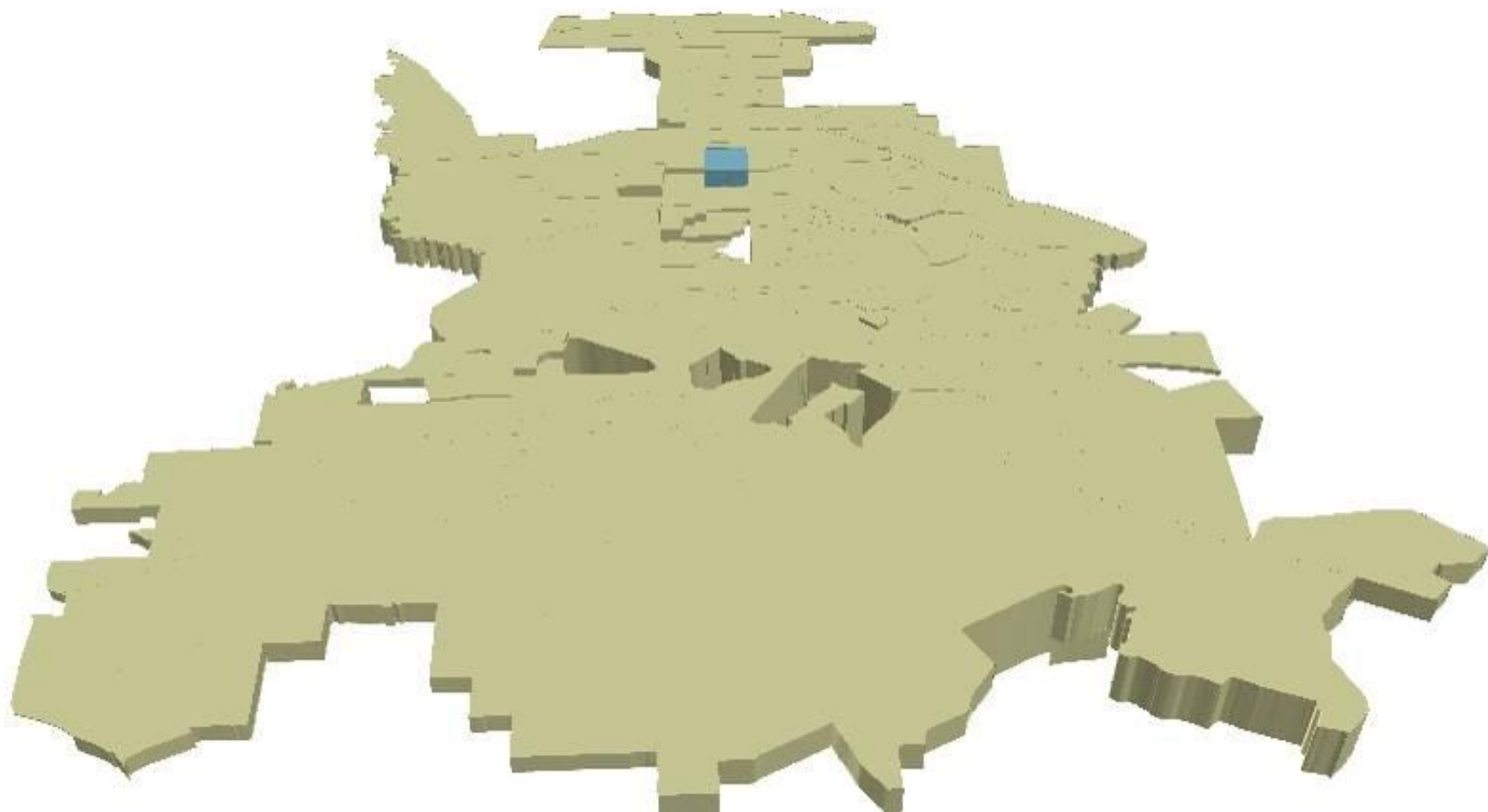
# Dallas Neighborhood Change, 1985-2004

1991



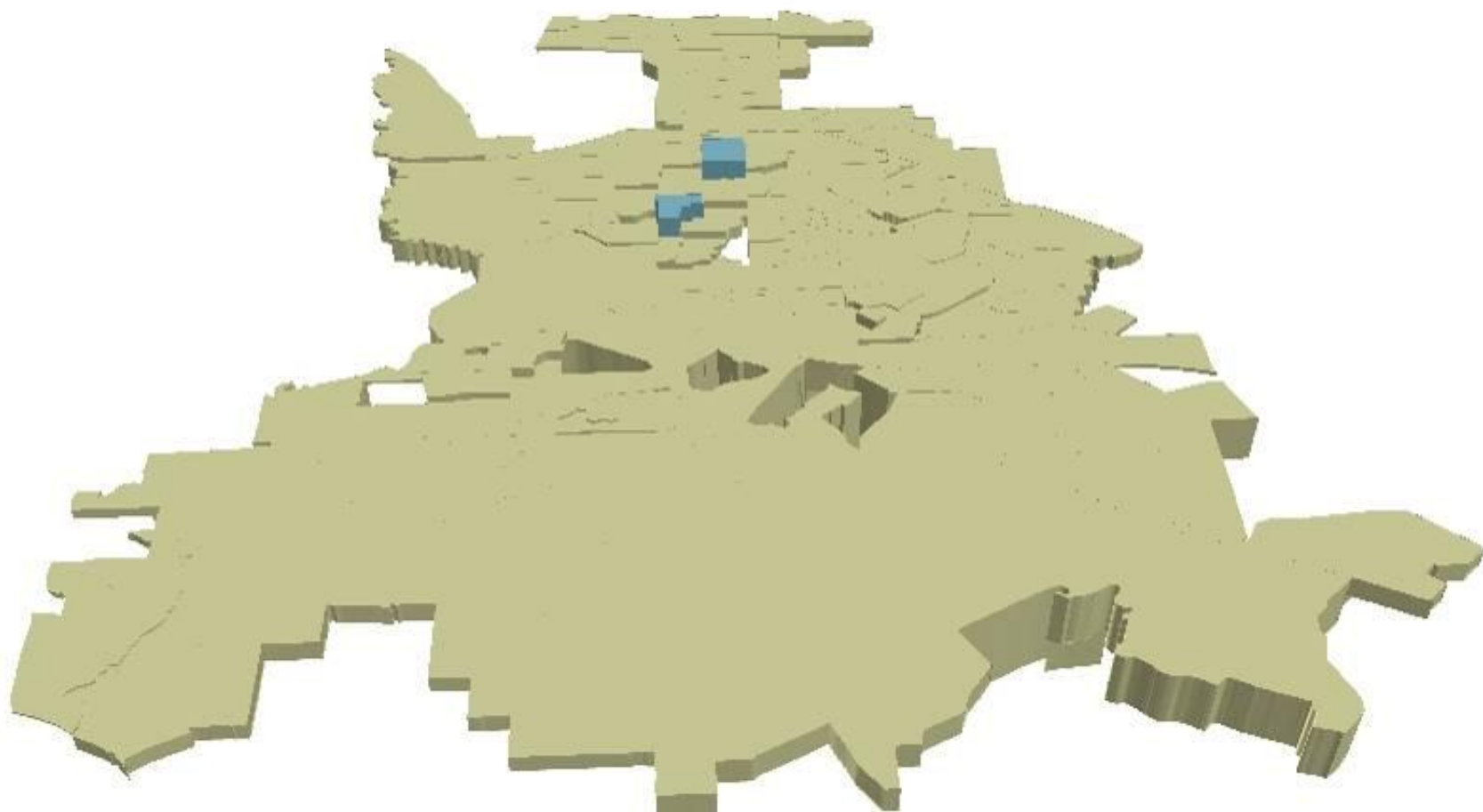
# Dallas Neighborhood Change, 1985-2004

1992



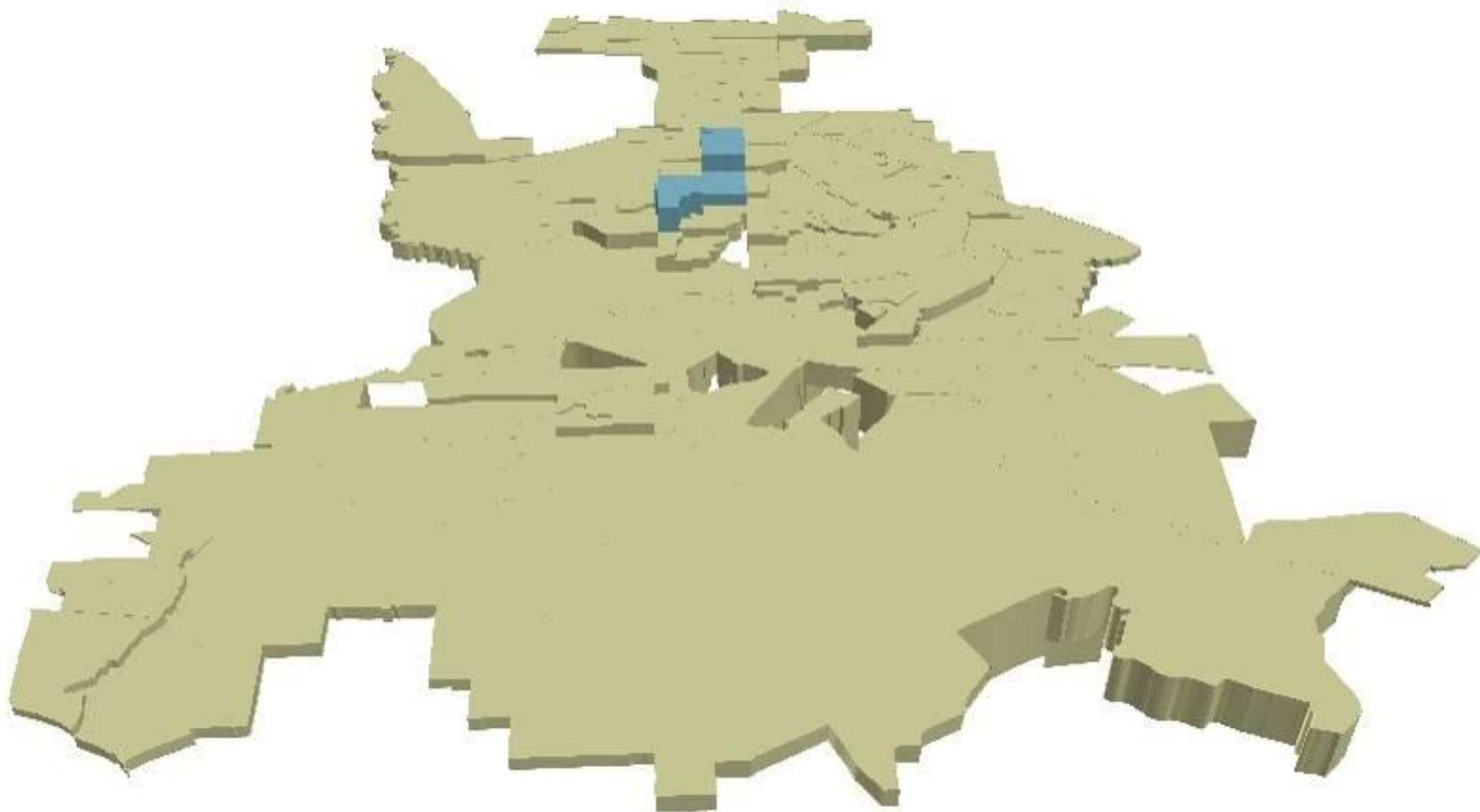
# Dallas Neighborhood Change, 1985-2004

1993



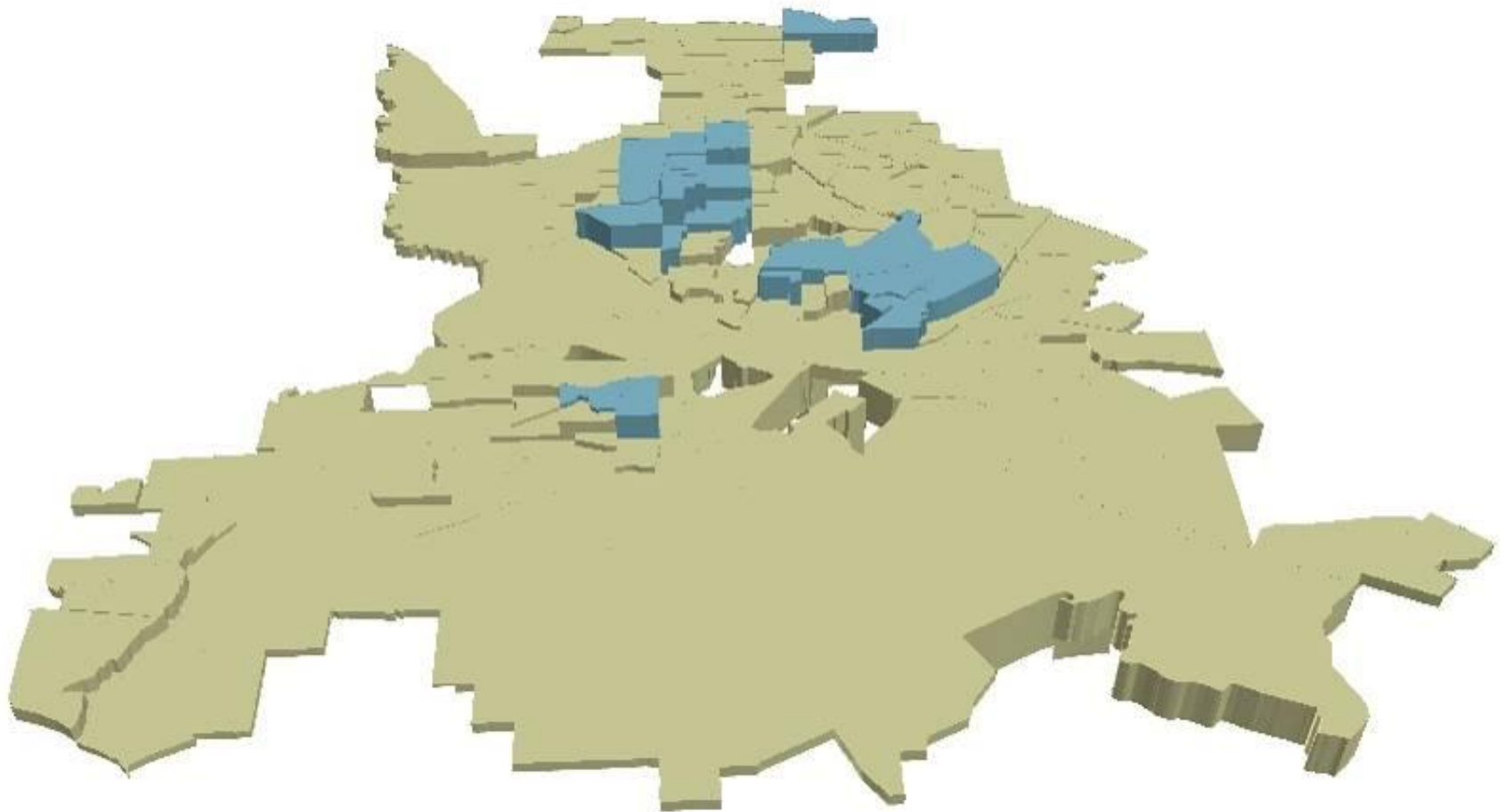
# Dallas Neighborhood Change, 1985-2004

1994



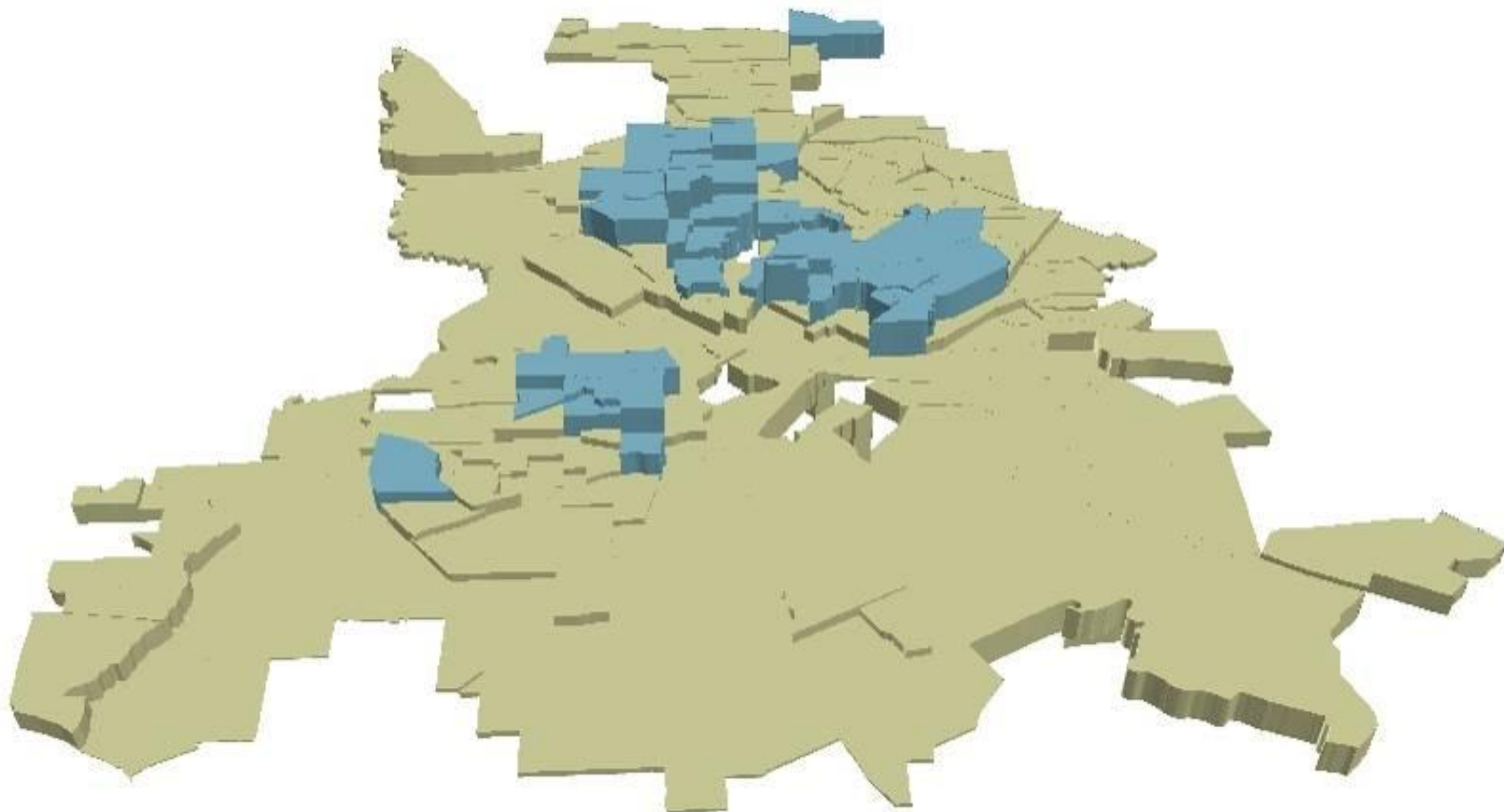
# Dallas Neighborhood Change, 1985-2004

1995



# Dallas Neighborhood Change, 1985-2004

1996





# Dallas Neighborhood Change, 1985-2004

1997





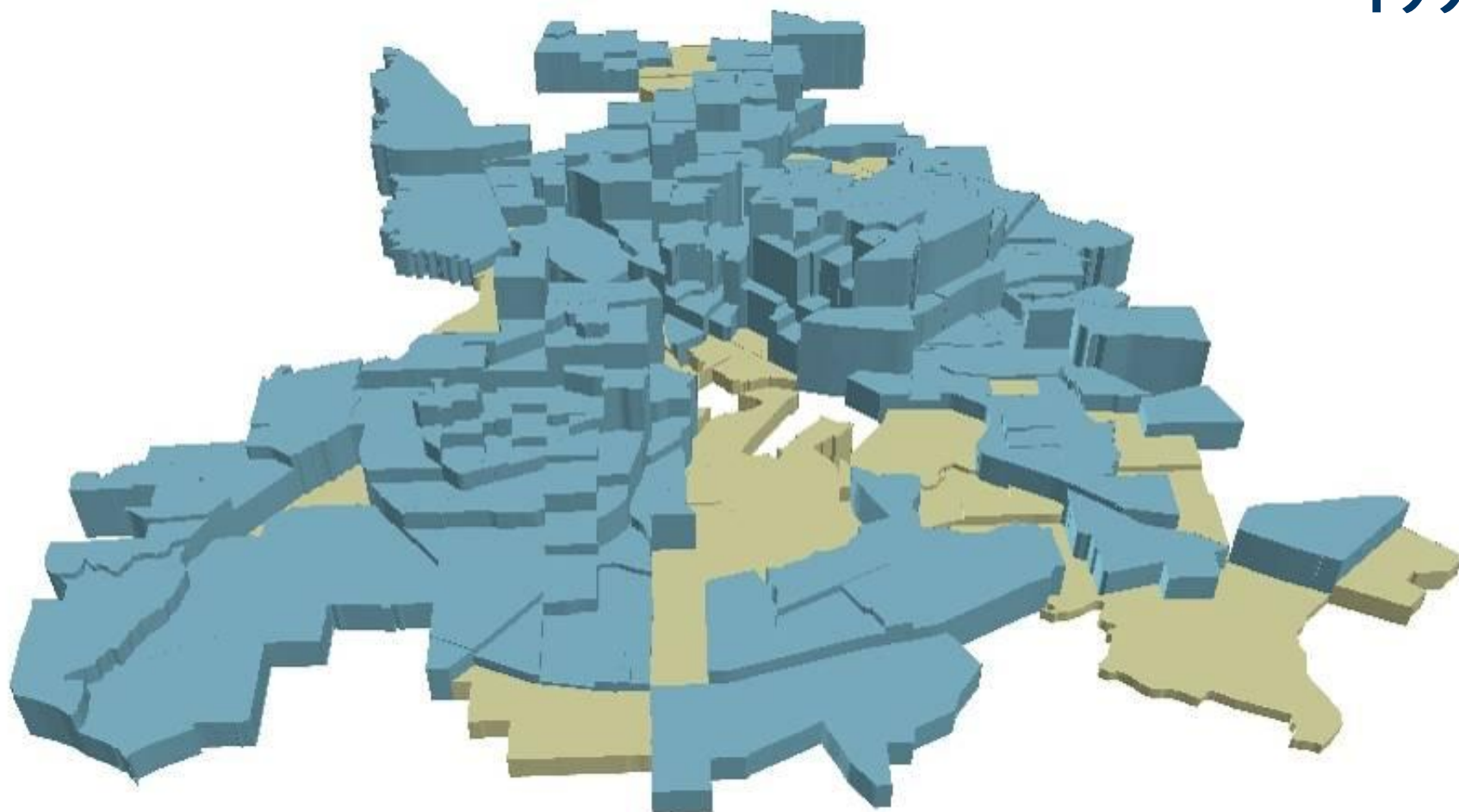
# Dallas Neighborhood Change, 1985-2004

1998



# Dallas Neighborhood Change, 1985-2004

1999



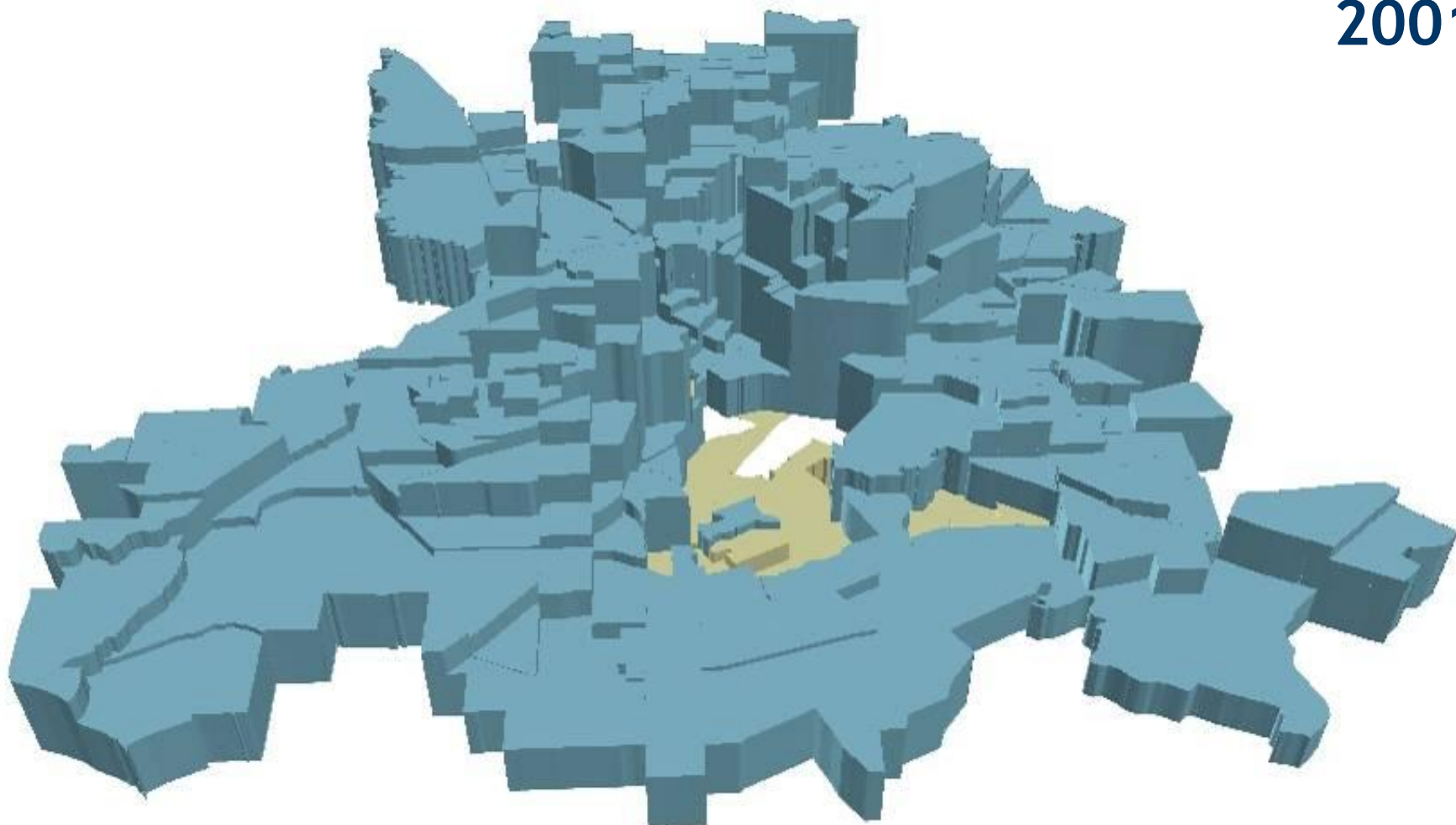
# Dallas Neighborhood Change, 1985-2004

2000



# Dallas Neighborhood Change, 1985-2004

2001



# Dallas Neighborhood Change, 1985-2004

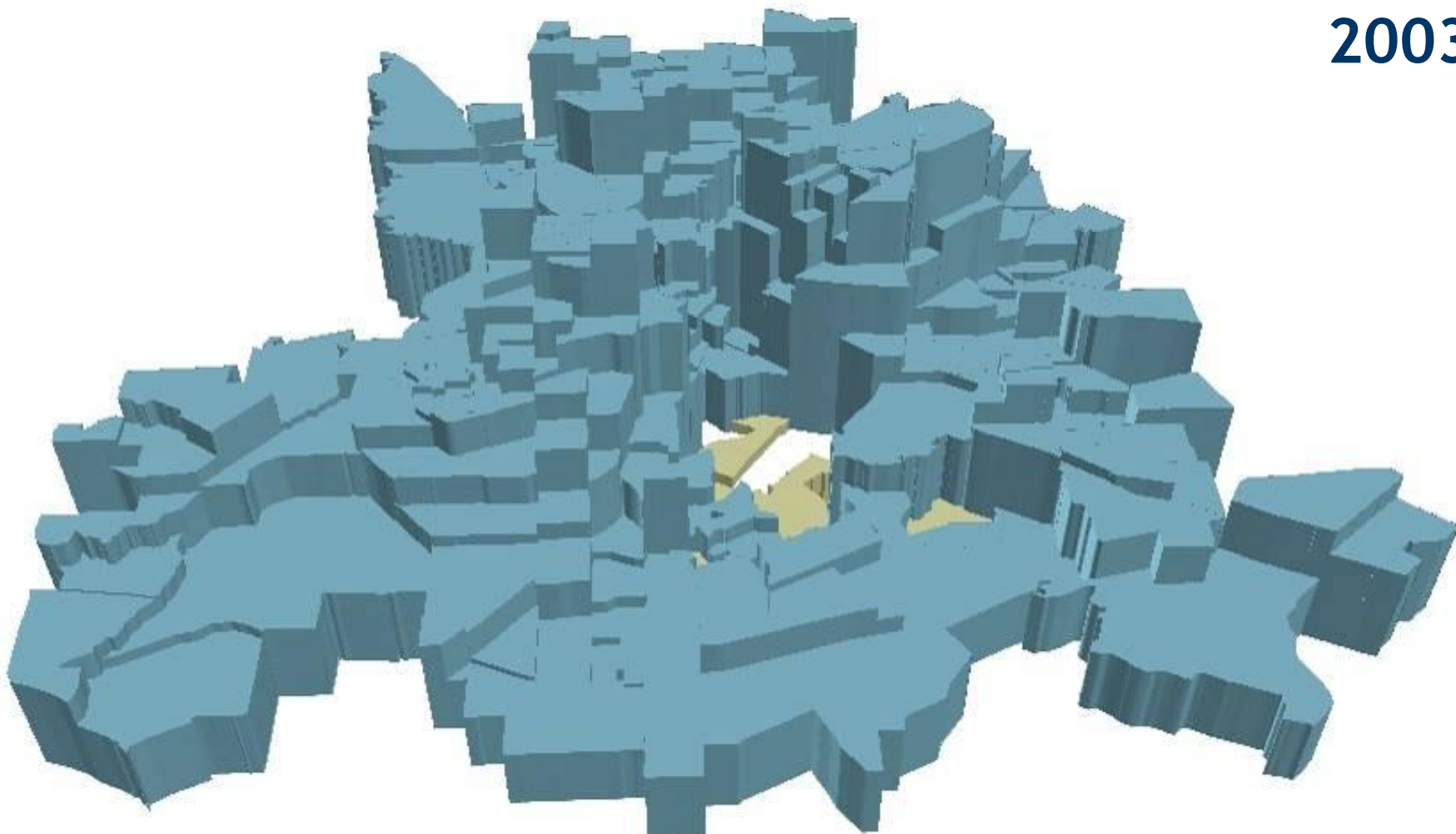
2002





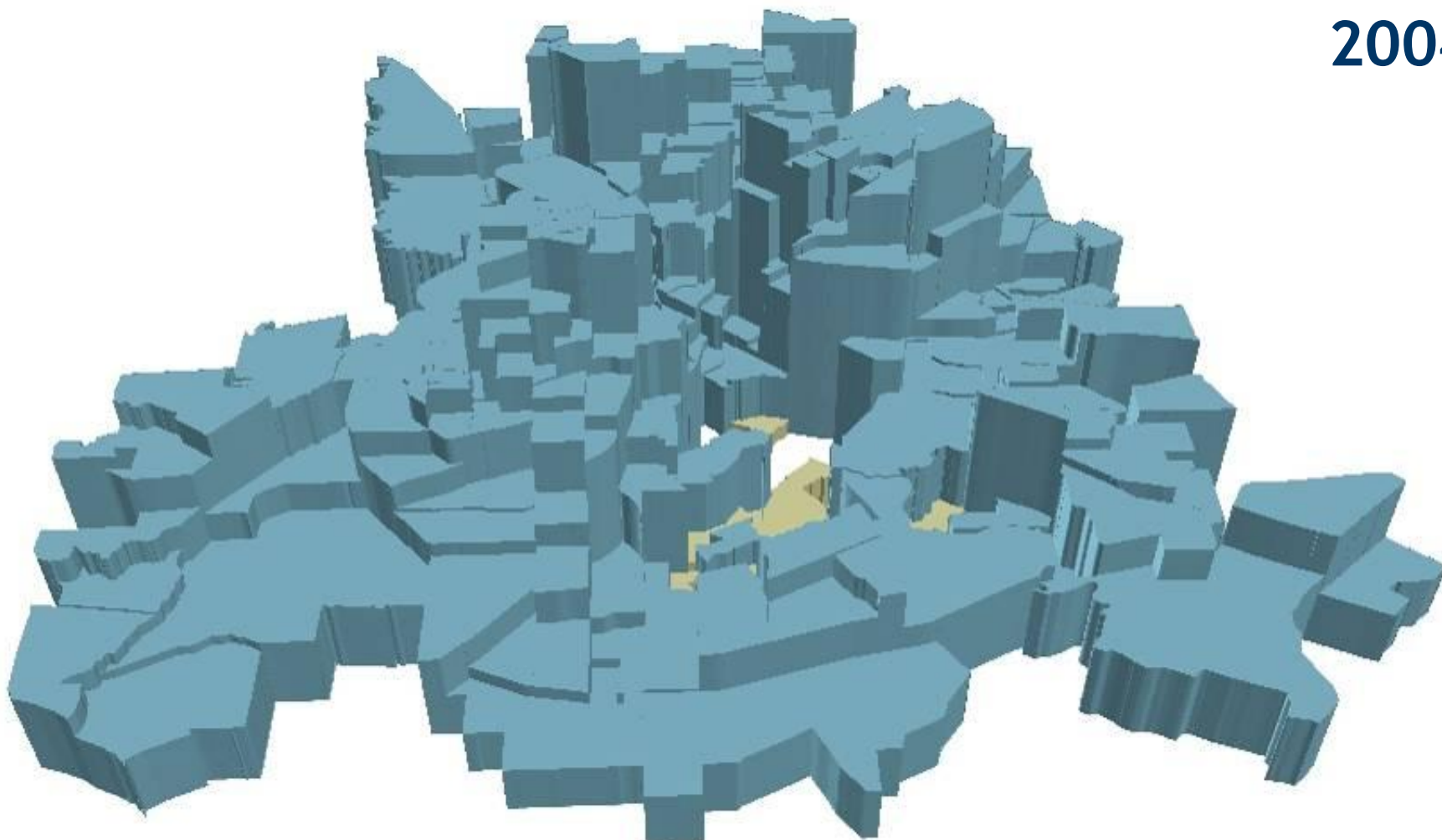
# Dallas Neighborhood Change, 1985-2004

2003



# Dallas Neighborhood Change, 1985-2004

2004



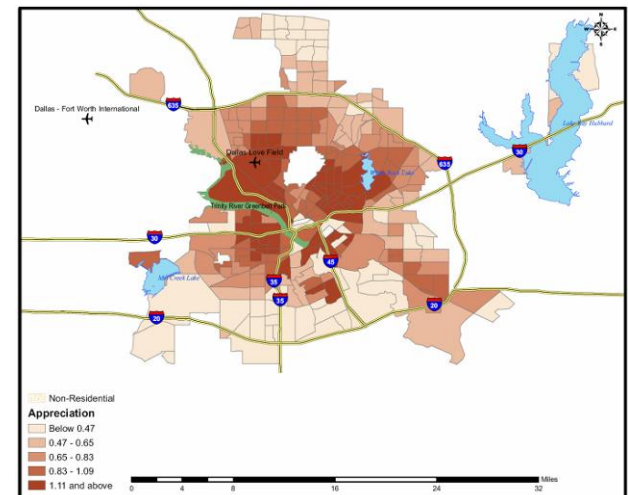
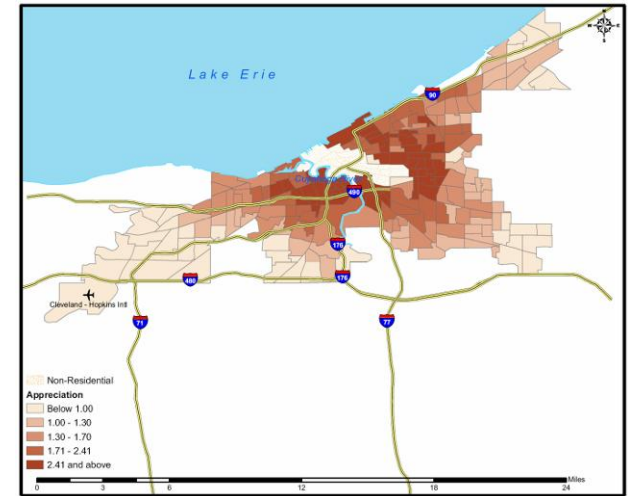
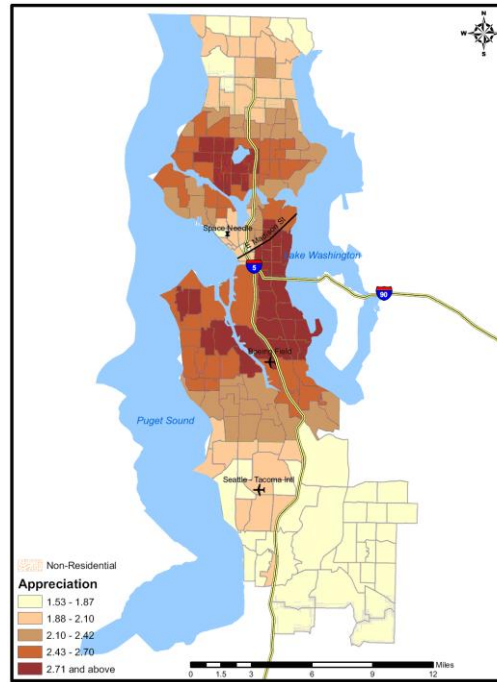
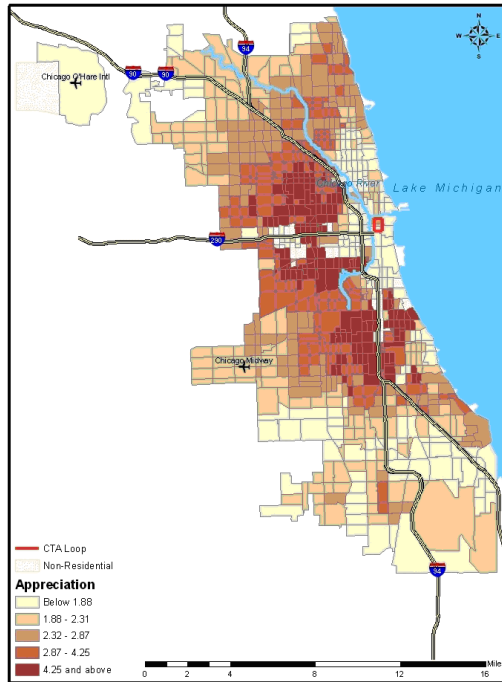
# Initial Conditions and Appreciation

Initial Median House Prices and Change in Housing Values in Chicago, 1990-2006



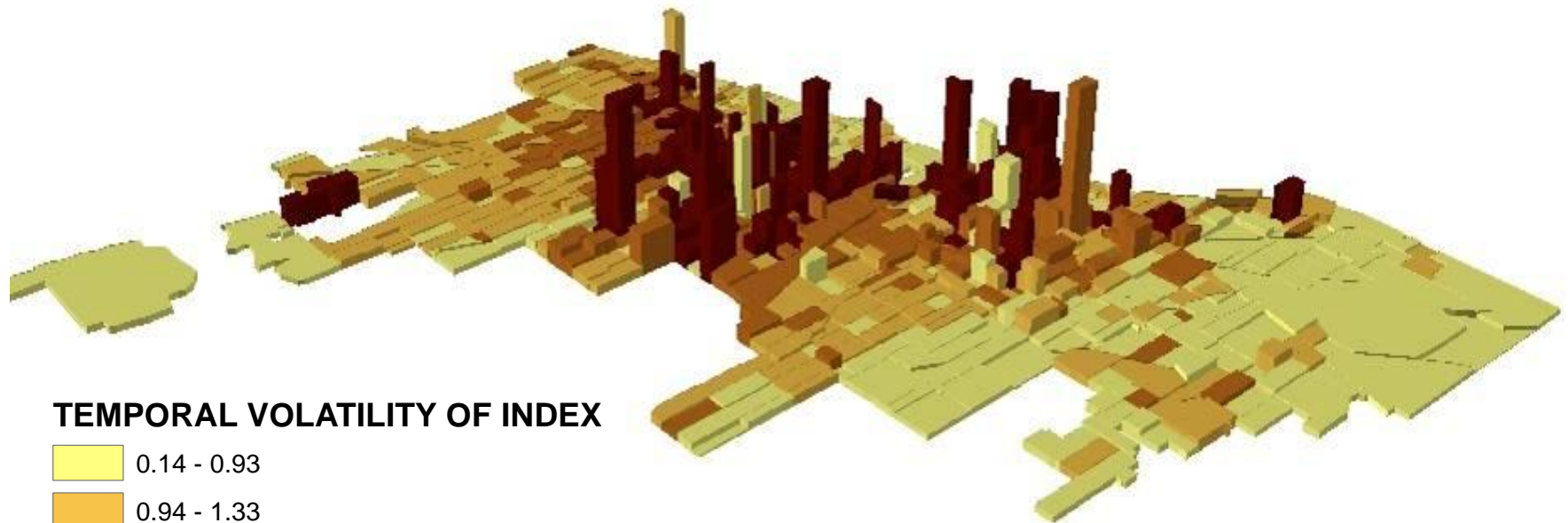


# Change in Price: Poor Neighborhoods Present the Most Opportunities for Investment

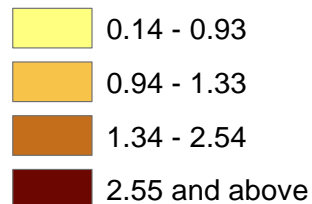


Many of the poorest neighborhoods are the ones that grew the most, outperforming wealthier communities in each of the four sample cities.

# Partly Due to Lack of Information, These Areas Are Also the Most Volatile



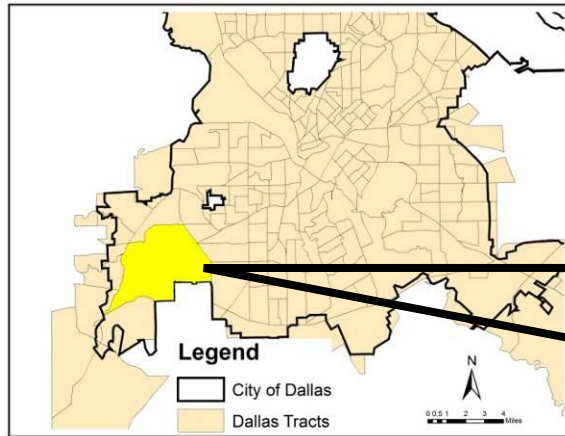
## TEMPORAL VOLATILITY OF INDEX



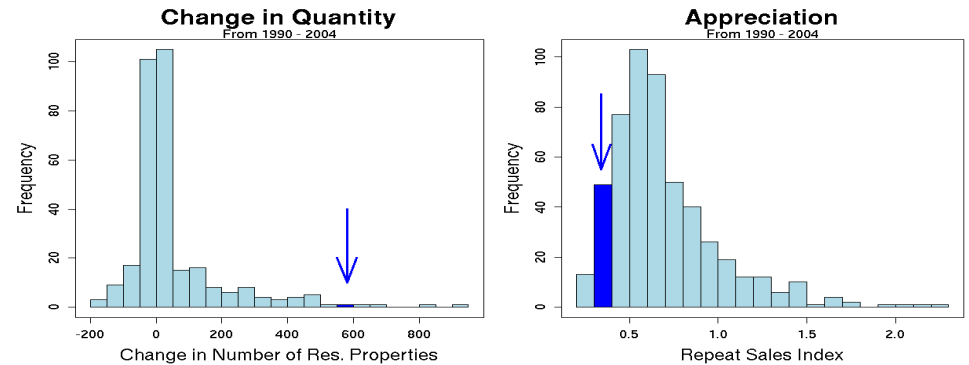
59.7  
↑  
-1.0  
↓  
APPRECIATION

By increasing the availability of information on these markets, we could reduce risk, increase market activity, and help stabilize these communities, further strengthening their performance.

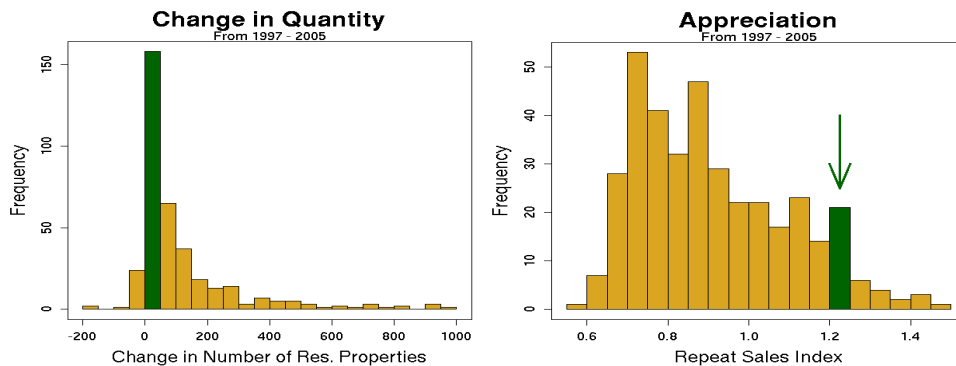
# Beyond Change in Price: Relationship of Price and Quantity



## Tract 016501: 17% Developable Parcels in 1990



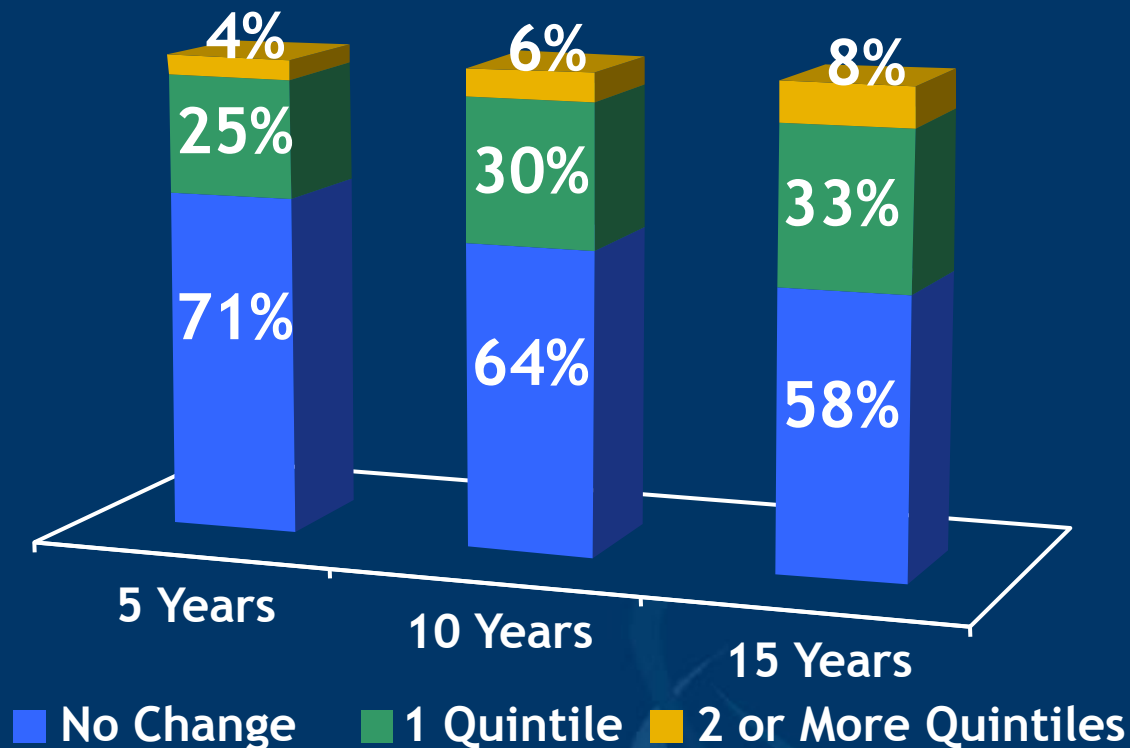
## Tract 002900: 0.05% Developable Parcels in 1990



Neighborhoods with lower supply elasticity are at greater risk of displacement, as housing prices will increase faster than in areas where more housing can be developed

# Neighborhood Change Is a Slow Process

## Neighborhood Mobility by Time Interval



Even over 15 years, most neighborhoods do not change their position relative to other neighborhoods in the region.

# Yet Substantial Change Occurs in Select Neighborhoods

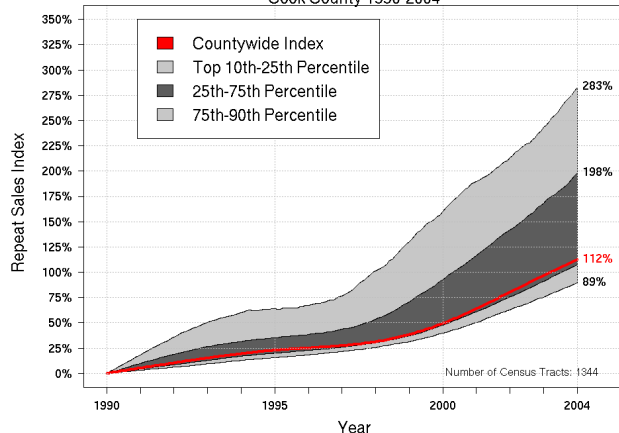
Median Sales Price Transition Matrix Cleveland, 1990-2004					
	Final Quintile				
Initial Quintile	1	2	3	4	5
1	76.9%	15.4%	7.7%	0.0%	0.0%
2	5.1%	51.3%	25.6%	15.4%	2.6%
3	2.6%	26.3%	26.3%	39.5%	5.3%
4	7.7%	2.6%	28.2%	23.1%	38.5%
5	7.7%	5.1%	10.3%	23.1%	53.8%

**In Cleveland, 13% of all the tracts at the bottom of the distribution in 1990 moved up to the top 2 quintiles 15 years later.**

# Neighborhoods and Regions

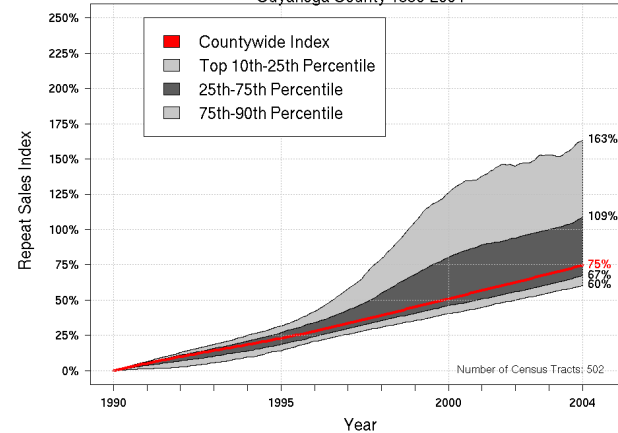
Variation of appreciation trends across Neighborhoods

Cook County 1990-2004



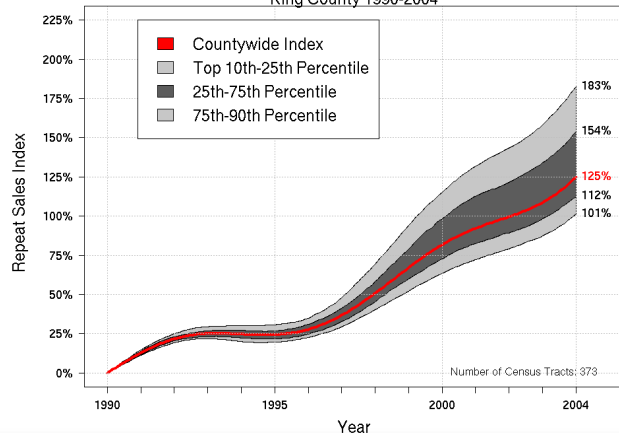
Variation of appreciation trends across Neighborhoods

Cuyahoga County 1990-2004



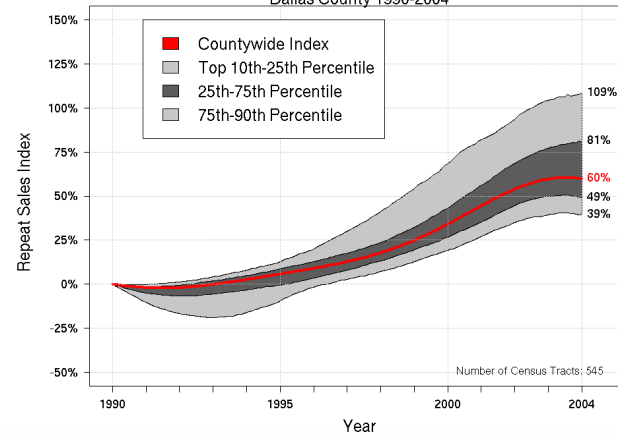
Variation of appreciation trends across Neighborhoods

King County 1990-2004



Variation of appreciation trends across Neighborhoods

Dallas County 1990-2004

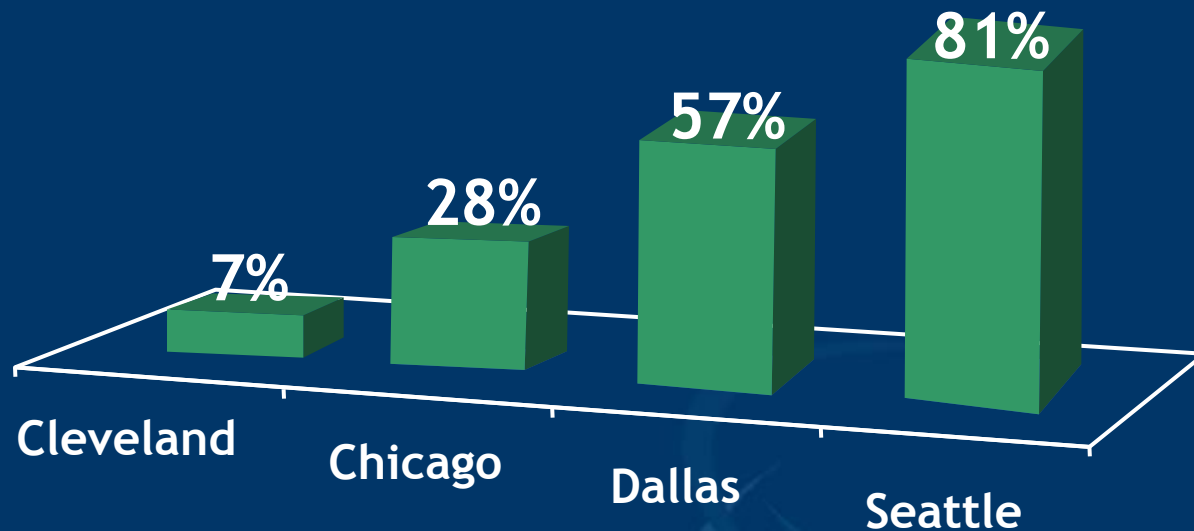


Most neighborhoods follow their region closely, but there are important exceptions.

# Neighborhoods and Regions

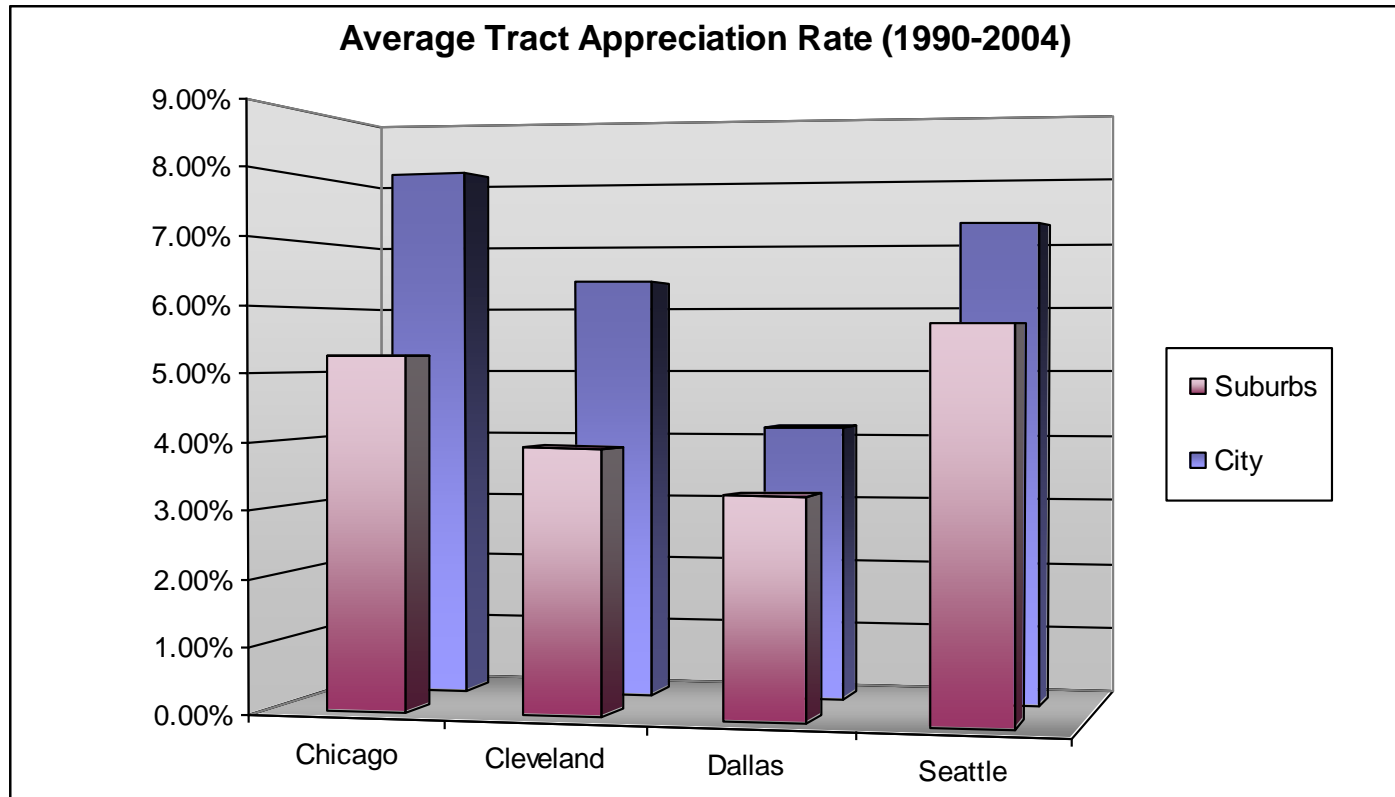
**Across Cities, 35% of Neighborhood Change is Accounted for by Regional Shifts**

R Squared from Regression Models of Tract RSI on Region



**Regional effects vary greatly by area.**

# The Big Picture: Urban Neighborhoods Are Coming Back

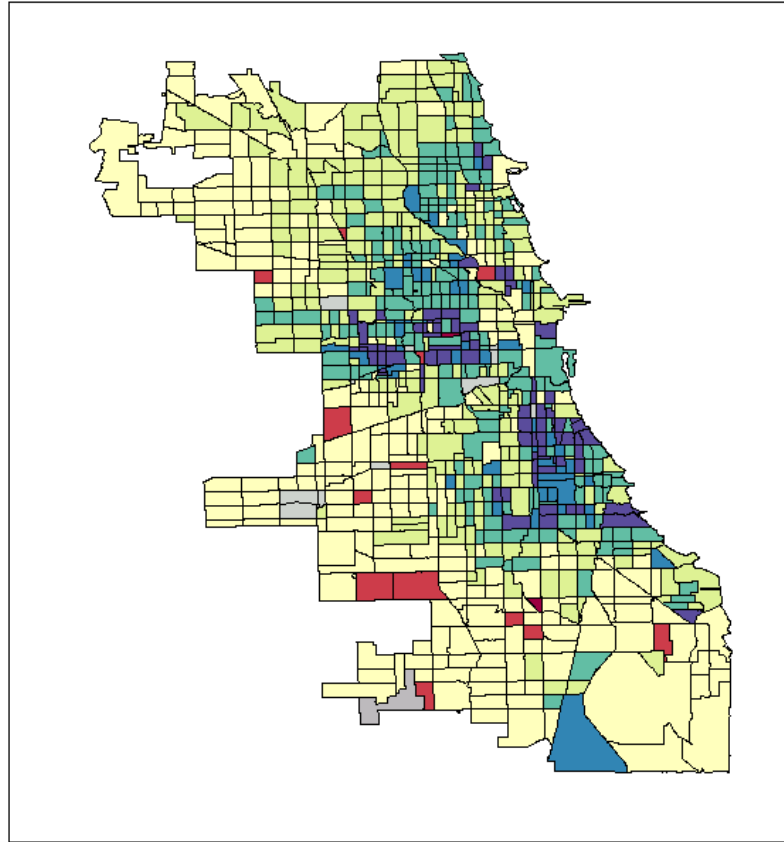
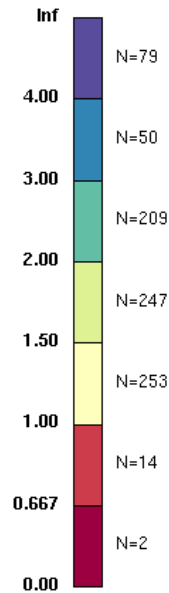


Over the past 15 years, tracts in the central city grew faster than tracts in nearby suburbs.



# The Big Picture: Neighborhood Change = Changing Neighbors?

Ratio of HMDA Borrower Income (2000-2005) to Census Income (2000) in Chicago, IL



The primary mechanism of change overall appears to be the movement of people.

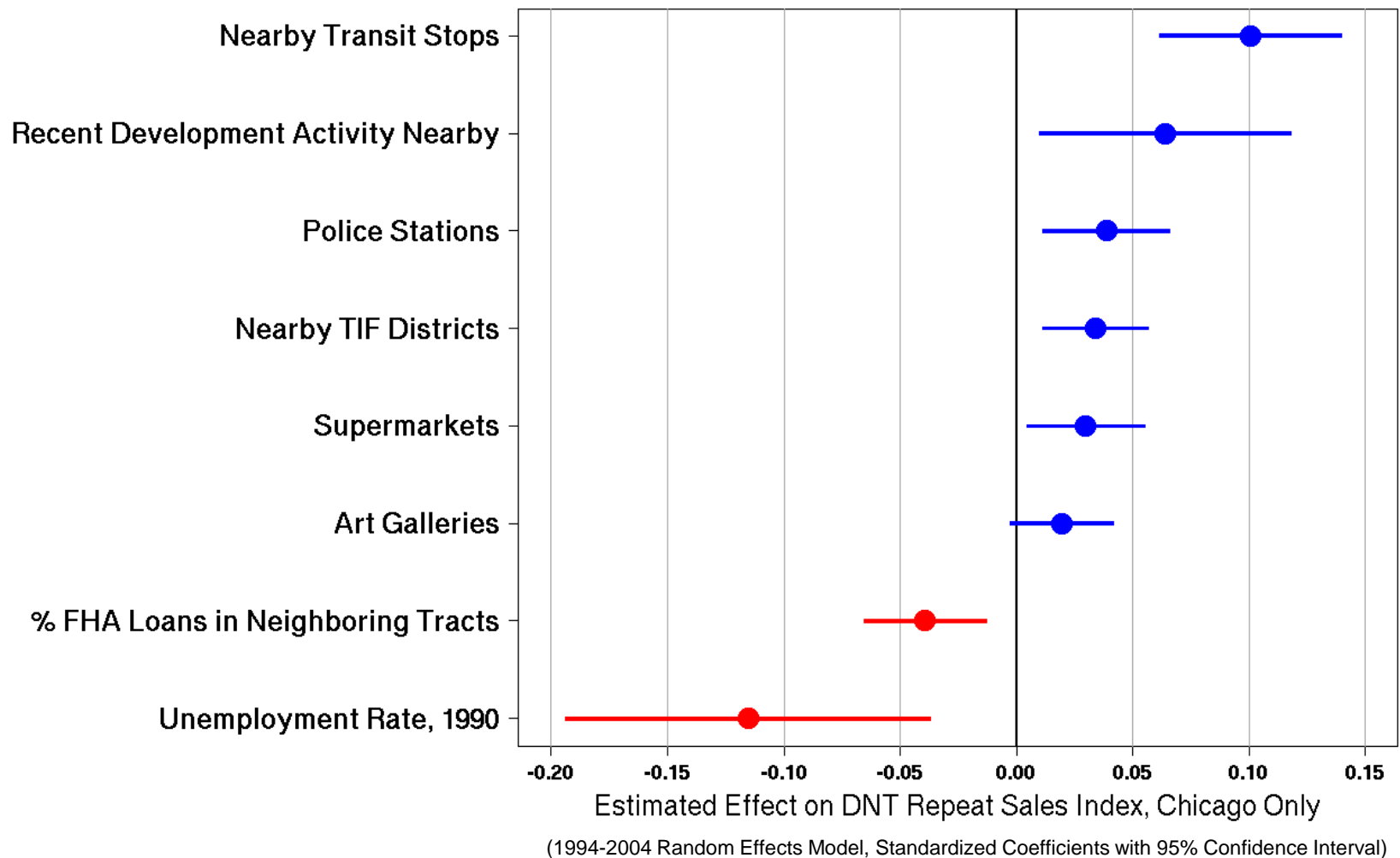
# The Big Picture: Drivers of Neighborhood Change

## “The Goldilocks Theory” ...

- Mobility is the key mechanism of change
- Movers are attracted to areas with undervalued housing but sound economic fundamentals (employment, income, education, young adults)
- Being connected is important: proximity to job centers, access to transit, lower commuting times are positive
- Cultural and Recreational Amenities (art galleries, bars and restaurants) help, but are not the main event

**... Neighborhoods of Opportunity are “Just Right.”**

# Exploring the Relative Importance of Different Drivers of Change



# The Big Picture: Drivers of Neighborhood Change

- Race is still a factor: even controlling for income, influx of minorities in a neighborhood leads to lower appreciation - but there are important exceptions
- Neighborhood Spillovers are important: what happens in your neighborhood reflects what happens in the neighborhoods around you
- Context matters: substantial variation by type and stage; current conditions have large effects on degrees and patterns of change

# The “Little” Picture: Few Silver Bullets



## 3'-By-4' Plot Of Green Space Rejuvenates Neighborhood

FEBRUARY 11, 2008 | [ISSUE 44•07](#)

**DETROIT**—Notorious for its abandoned buildings, industrial warehouses, and gray, dilapidated roads, Detroit's Warrendale neighborhood was miraculously revitalized this week by the installation of a single, three-by-four-foot plot of green space.

The green space, a rectangular patch of crabgrass located on a busy median divider, has by all accounts turned what was once a rundown community into a thriving, picturesque oasis, filled with charming shops, luxury condominiums, and, for the first time ever, hope.

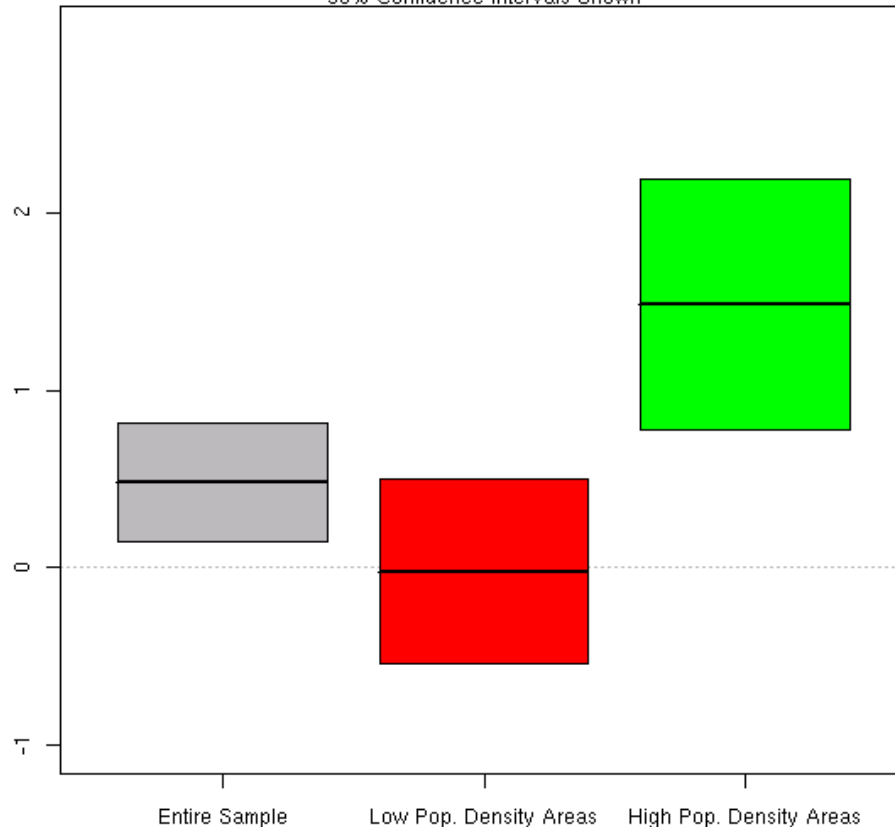
The Johansens, who just moved to Warrendale, enjoy some outdoor time.



# The “Little” Picture: Few Silver Bullets

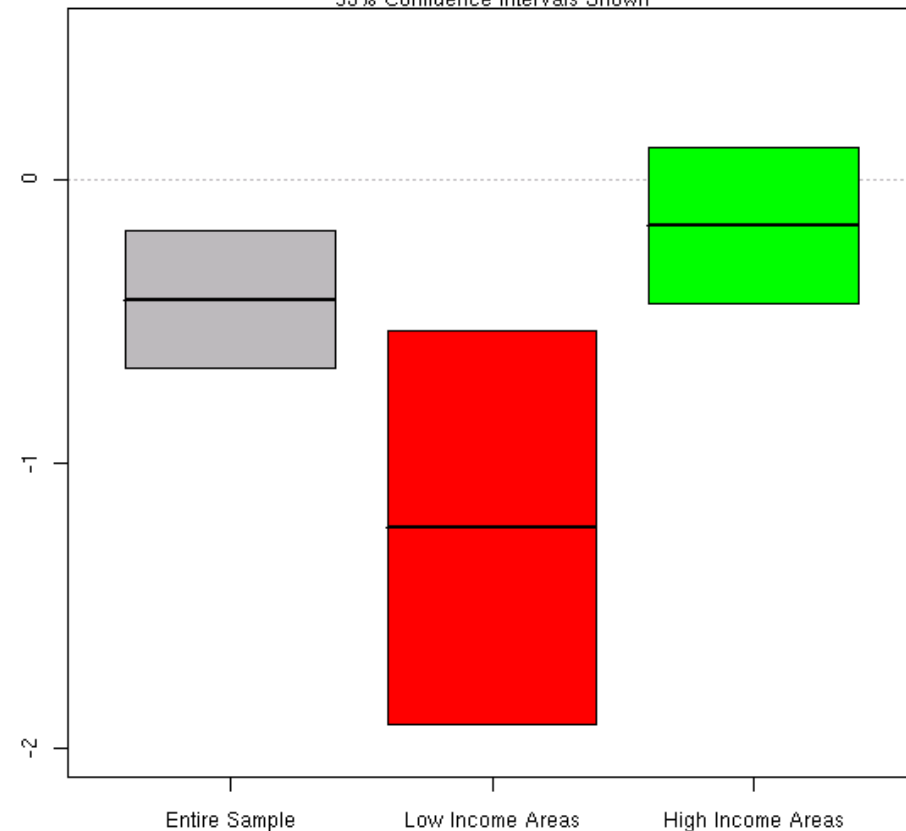
Regression Estimates for Effect of Nearby Transit Stops on RSI

95% Confidence Intervals Shown



Regression Estimates for Effect of Unemployment Rate on RSI

95% Confidence Intervals Shown



What matters varies a great deal by type of neighborhood.

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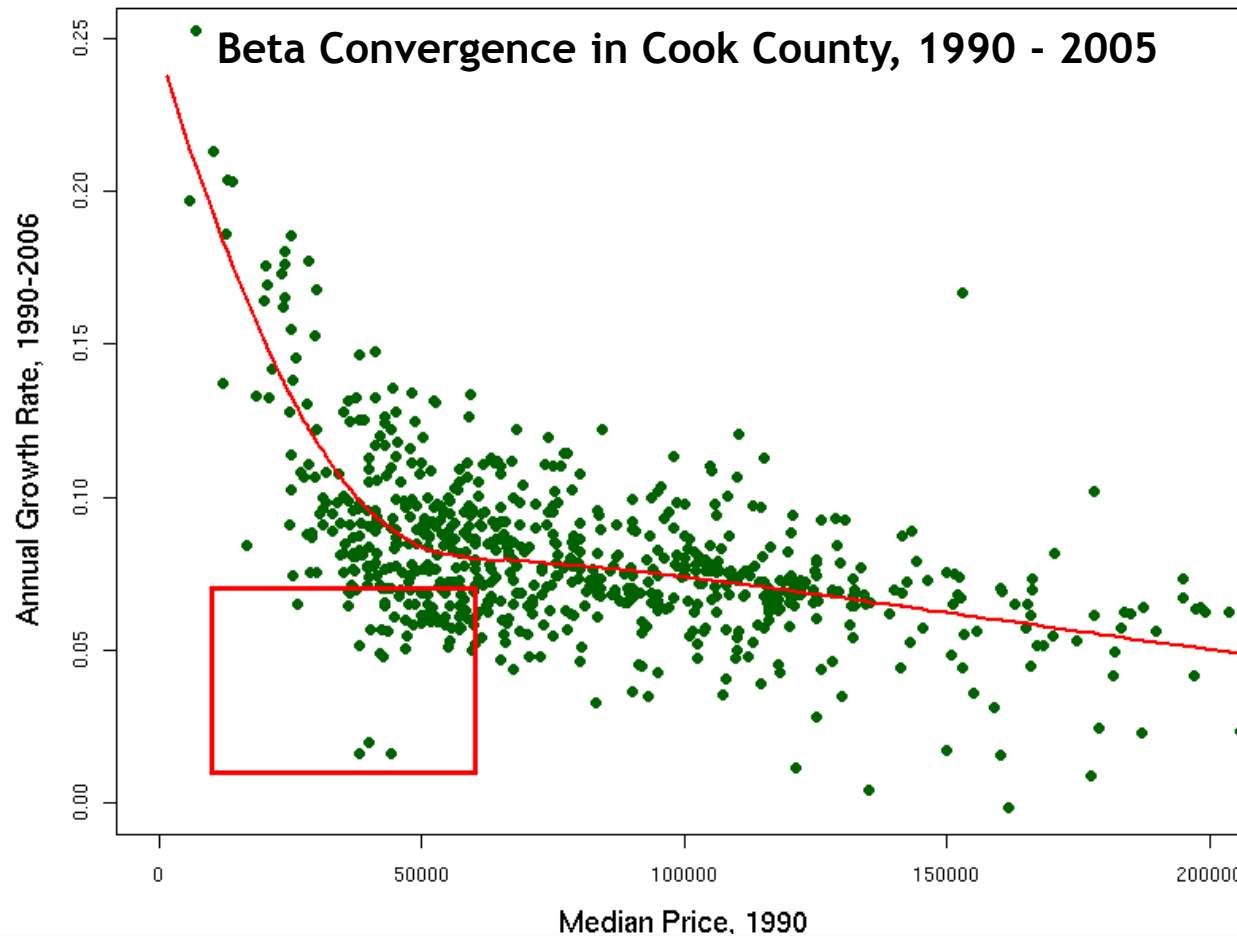
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Specialized Drivers

# Neighborhood Convergence



Neighborhoods that have not converged yet follow this trend each other.

# Characteristics of Poorer Neighborhoods that Tend to Converge

Strong evidence suggests convergence is more likely:

- Closer to the Central Business District
- In neighborhoods with more turnover
- With more Social Capital
  - Civic, Social, Fraternal, Political, Religious, Business and other Membership Associations

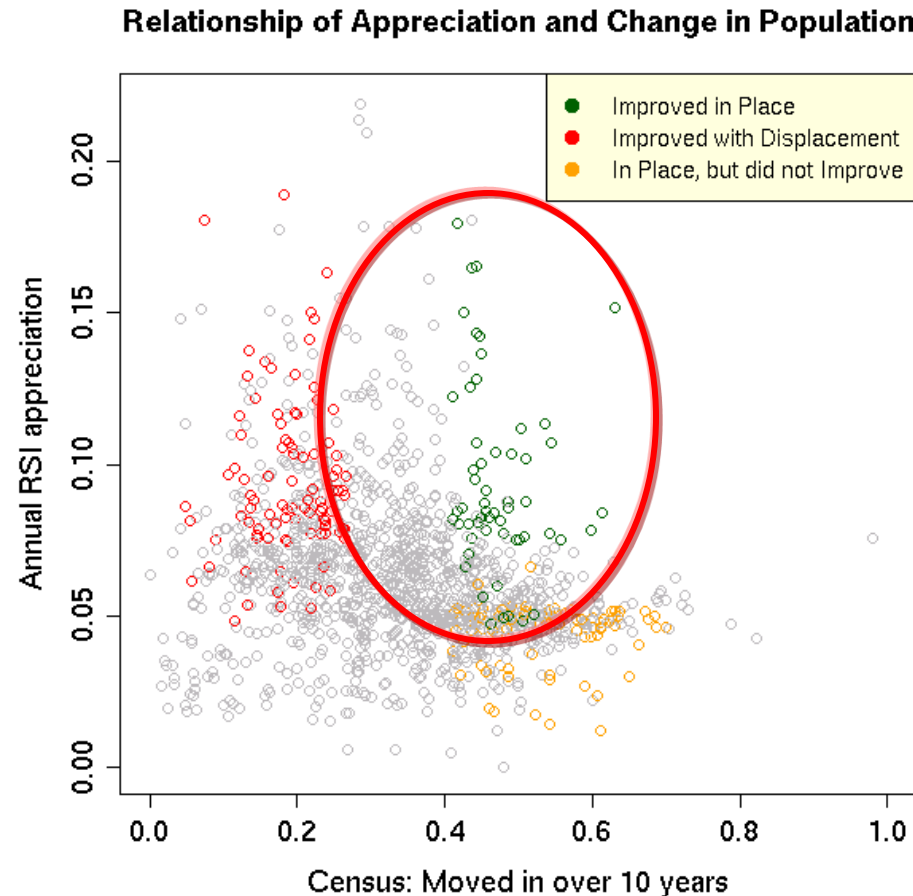
# Characteristics of Poorer Neighborhoods that Tend to Converge

Moderate evidence favors:

- Educational levels
- Supermarkets
- Transit nearby
- Income diversity
- Art Galleries nearby
- Eating establishments nearby

*Target investments to improve social capital, education and consumption amenities in areas further from CBD.*

# Improvement With High and Low Turnover



What characterizes the neighborhoods that improved with less displacement?

# Drivers of “Improvement in Place”

Improvement with Low Turnover Is Associated With:

- High Home Ownership Rates
- Low Vacancy Rates
- Access to Transit
- Reduction in Unemployment
- Presence of Employment Services
- High Social Capital
- High Percentage of Young Adults

*"Homeownership, Social Capital and Reduction of Unemployment are Key to Improving Neighborhoods with Less Displacement"*


# Overall Summary → Implications

- Neighborhoods are highly specialized
- Neighborhood change is a function of people and money moving in and out
- This in turn varies based on neighborhood type and stage of development - different people and investors choose different neighborhoods in the context of larger markets and systems
- As a result, what matters varies by place. For any given neighborhood, the goal could be continuity or change in type, and implementation entails understanding who you want to stay or move in, and what factors matter to them



# Summary → Implications

## Two major implications:

1. We need a framework for understanding neighborhoods as dynamic, specialized, and nested in larger systems
  2. We need much better tools for customized analysis of local economies
- 

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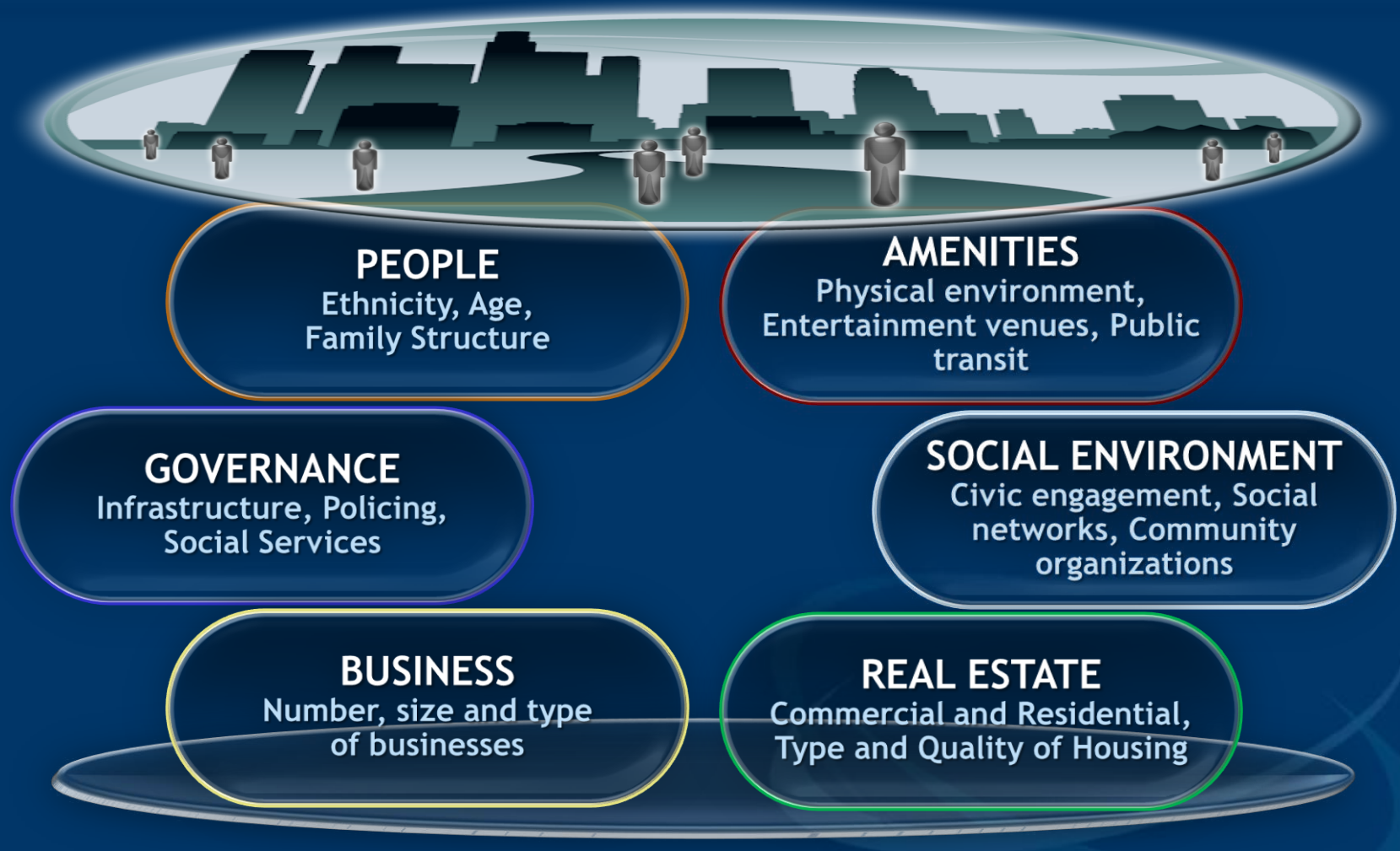
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Dynamic, Specialized Neighborhoods

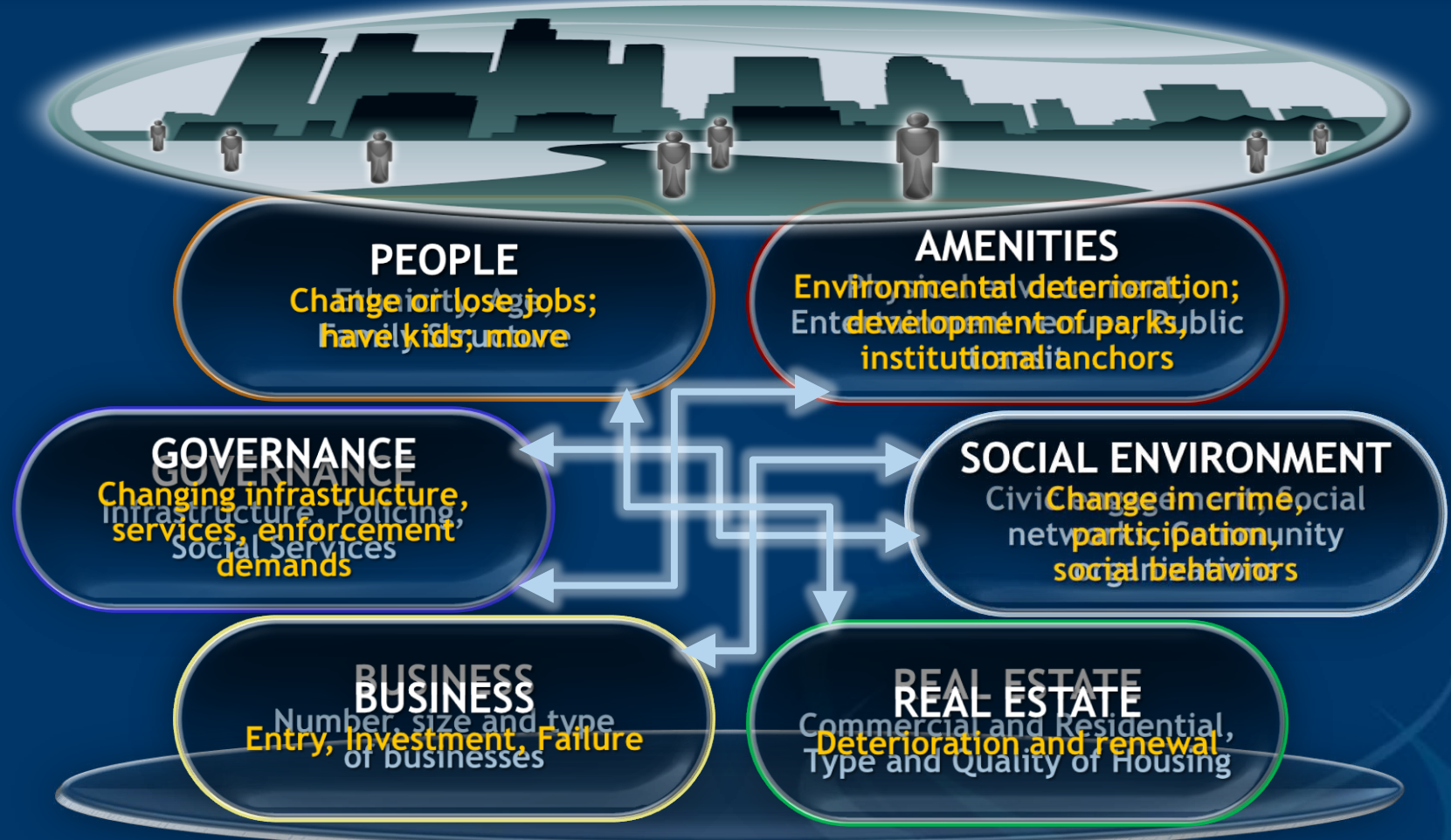
# Neighborhoods are Complex



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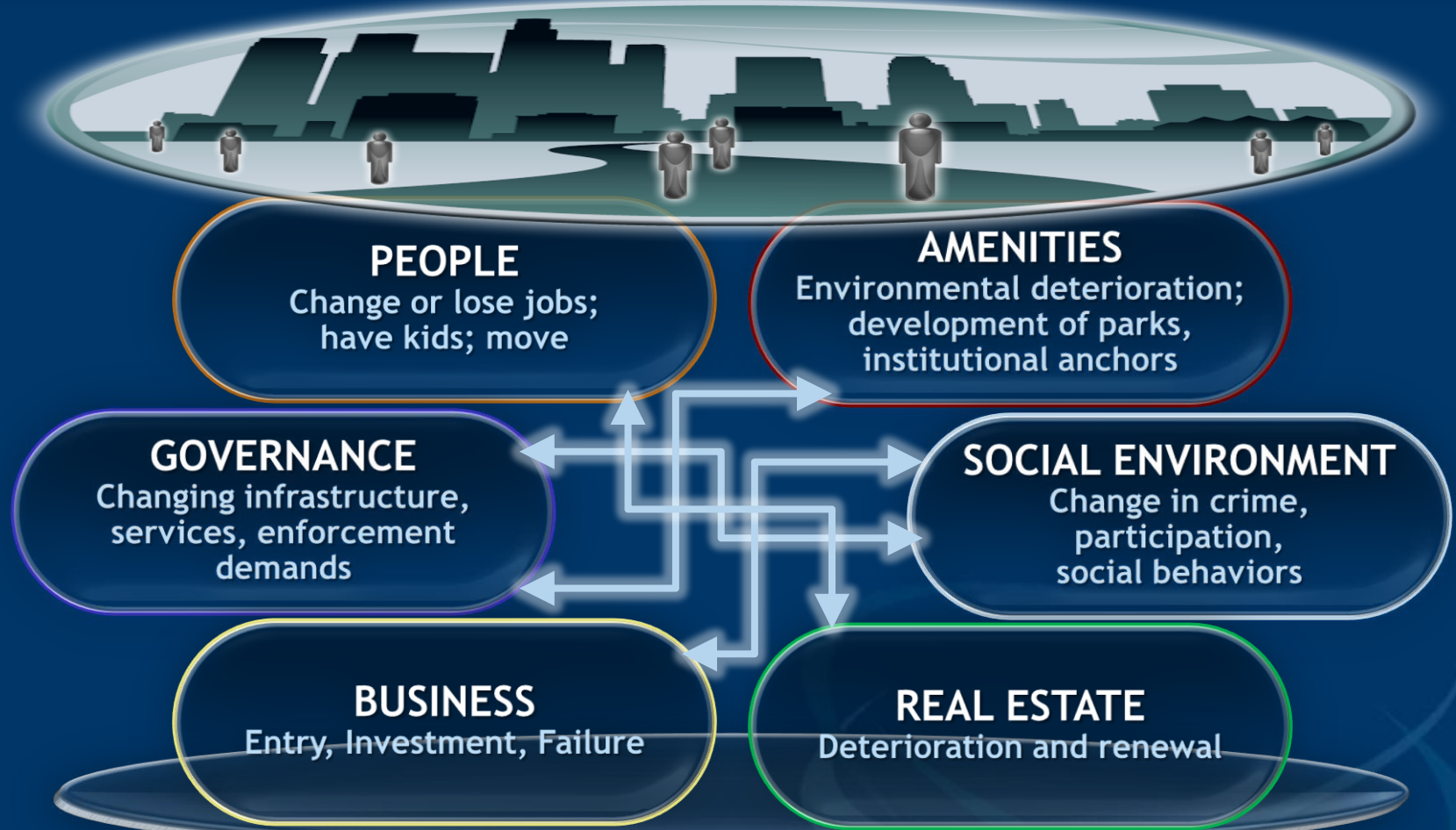
# Neighborhoods are Dynamic



A Web of Interdependent Activities: “Organized Complexity” (Jacobs)



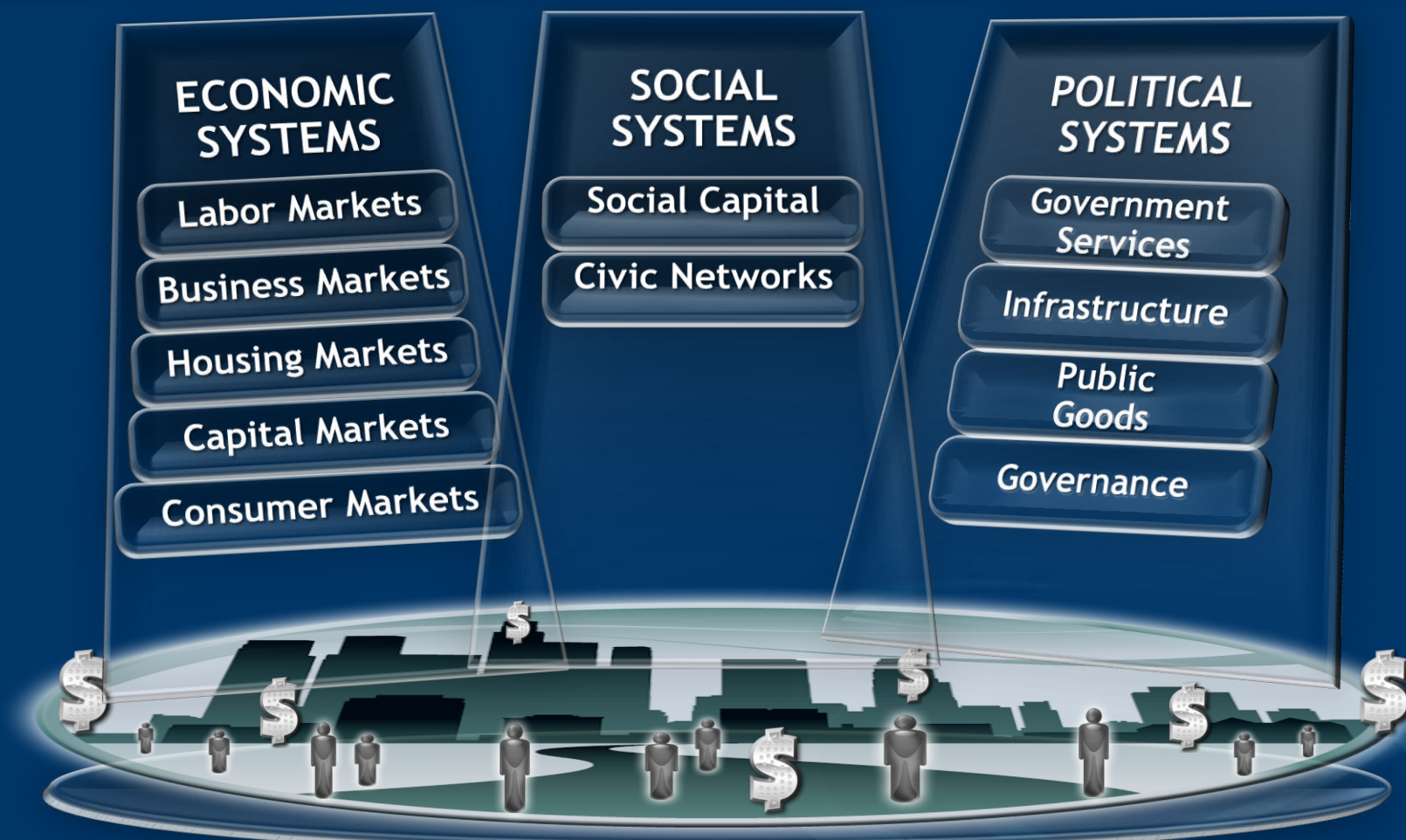
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**A Web of Interdependent Activities: “Organized Complexity” (Jacobs)**

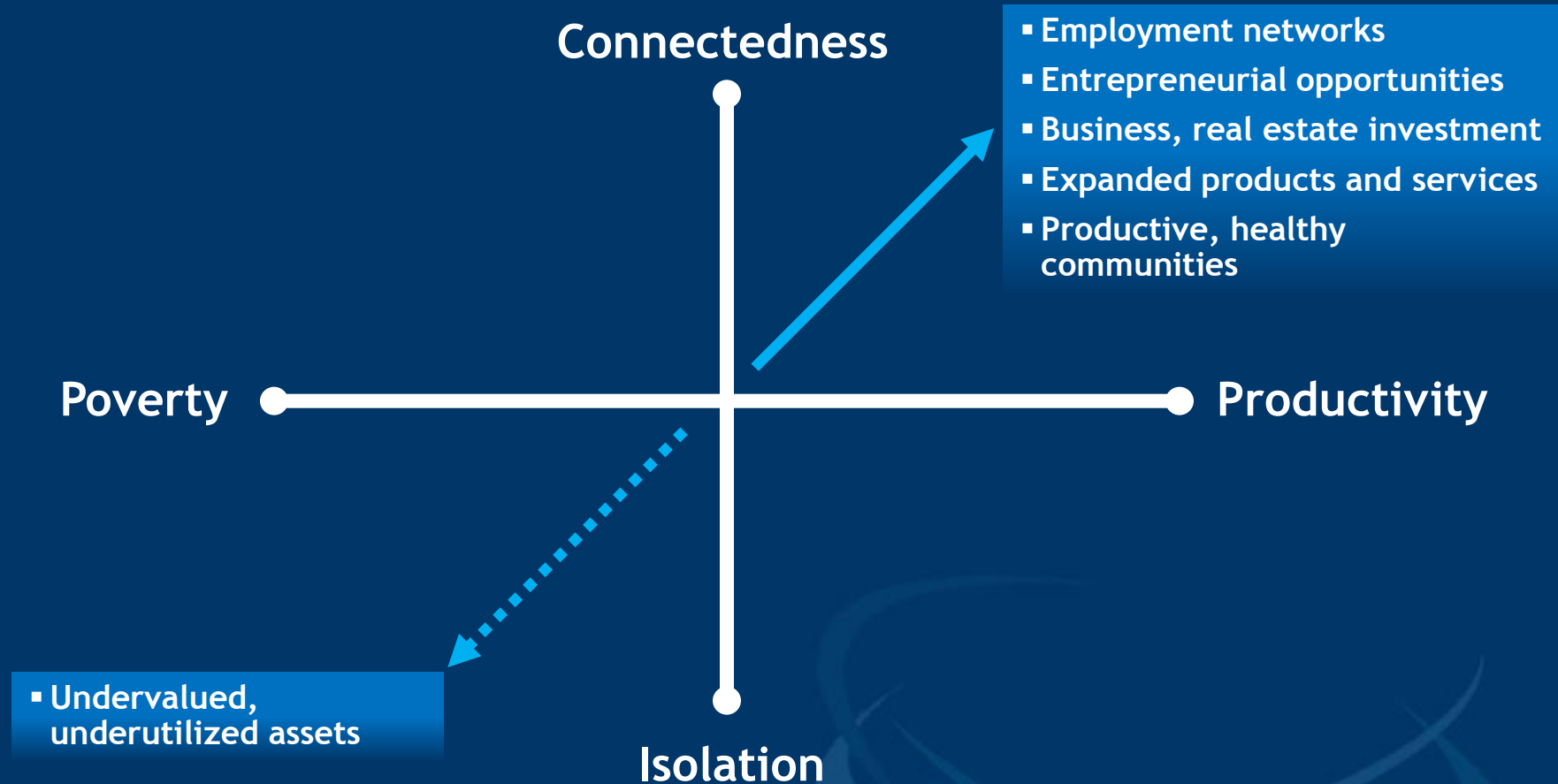


# Neighborhoods are Nested in Larger Systems Which Drive the Flows of People and Capital



Neighborhoods arise from the interaction of regional economic, social and political systems with physical place.

# Functioning Neighborhoods Connect Residents and Assets to Larger Systems



**Goal: Neighborhoods that Build Capacity and Opportunity (Amartya Sen)**

# Applying the Framework

STEP 1A: What type of neighborhood do you want to be?

STEP 1B: What drivers will get you there?

- Specific Retail Amenities
- Child Care
- Schools
- Safety
- Affordability



# Applying the Framework

## STEP 2: Identify Relevant System



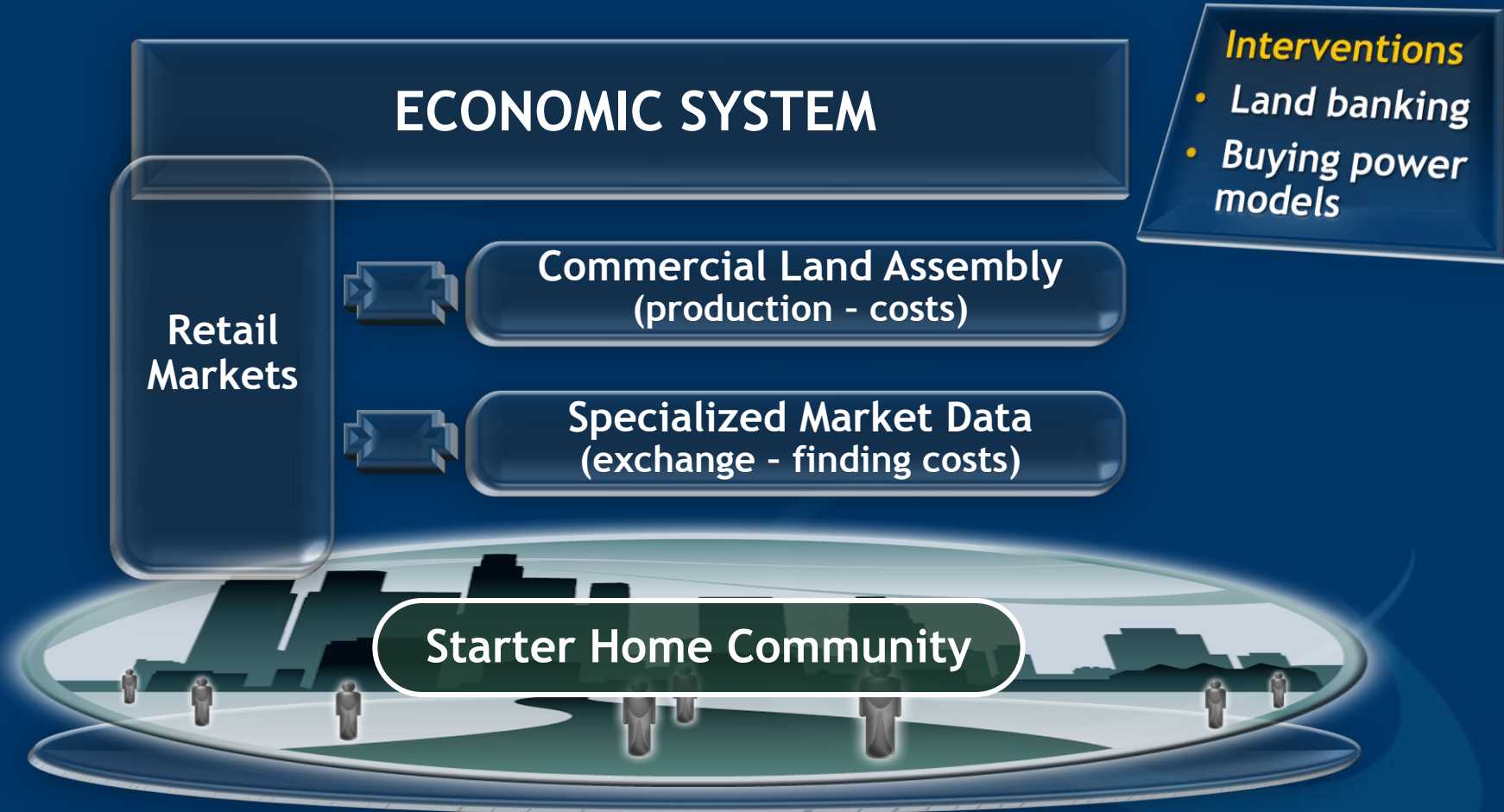
# Applying the Framework

## STEP 3: Identify Change Levers Within System



# Applying the Framework

## STEP 4: Specify Interventions



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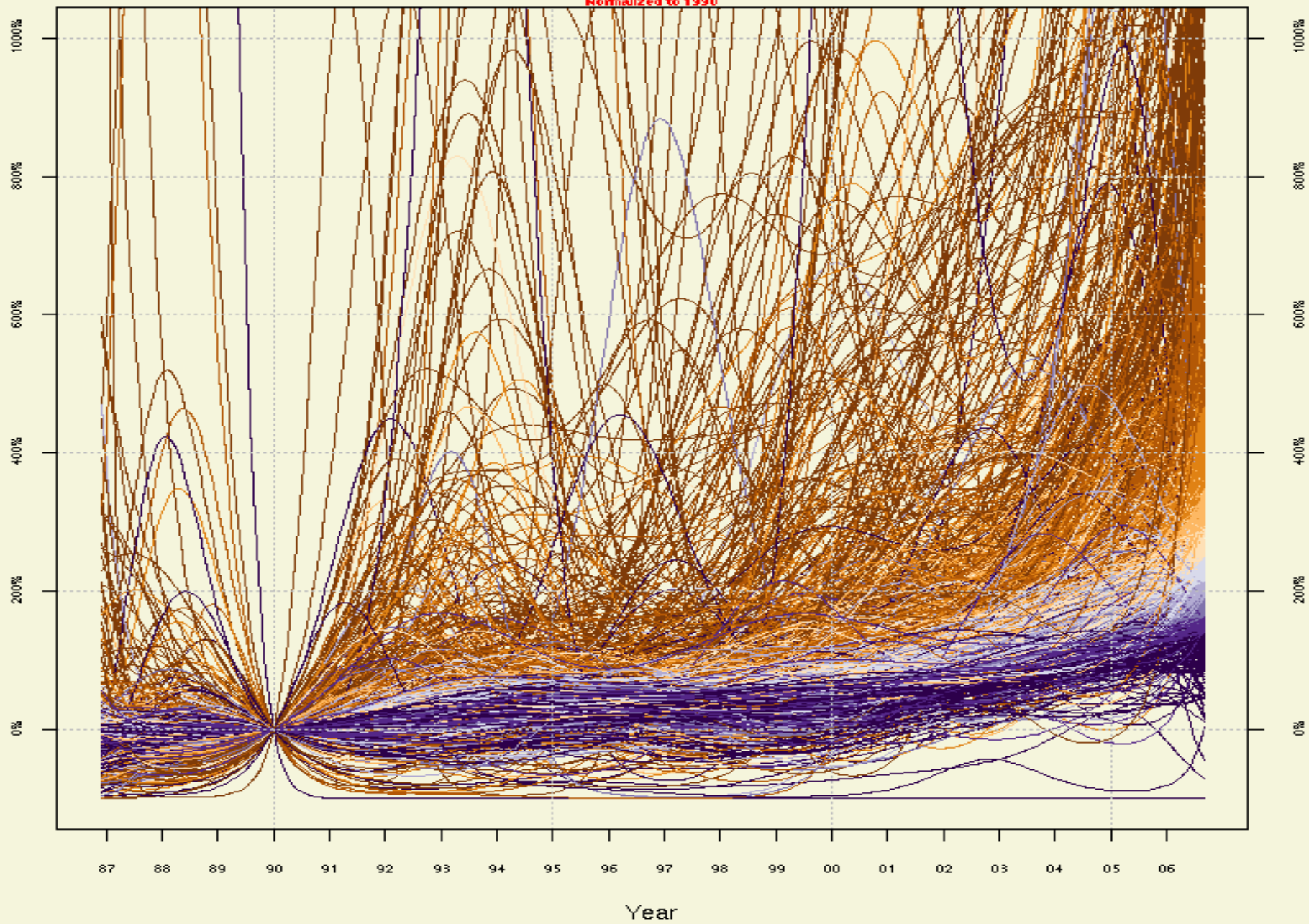
V

Specialized Tools - From Diagnostics to Investment

# Chicago Tract Indices, Neighbor

Normalized to 1990

Percent Increase



# Developing New Tools for the Field

Question/Goal	Tool
Anticipate and manage neighborhood change	Pattern Search Engine
Enabling investment in inner city real estate markets	RSI → REIT
Track affordability and neighborhood housing mix	Housing Diversity Metric
Identify “true” neighborhood boundaries	Locally Weighted Regression
What neighborhoods are similar along particular factors of interest?	Custom Typologies
How does the impact of an intervention vary in different places?	Geographically Weighted Regression
What drivers differentiate neighborhoods with respect to a specific outcome of interest?	CART
How will a specific intervention affect its surrounding area?	Impact Estimator
Identify comparable neighborhoods based on drivers of change and other key characteristics	Neighborhood Typology

# Pattern Search

## What It Does:

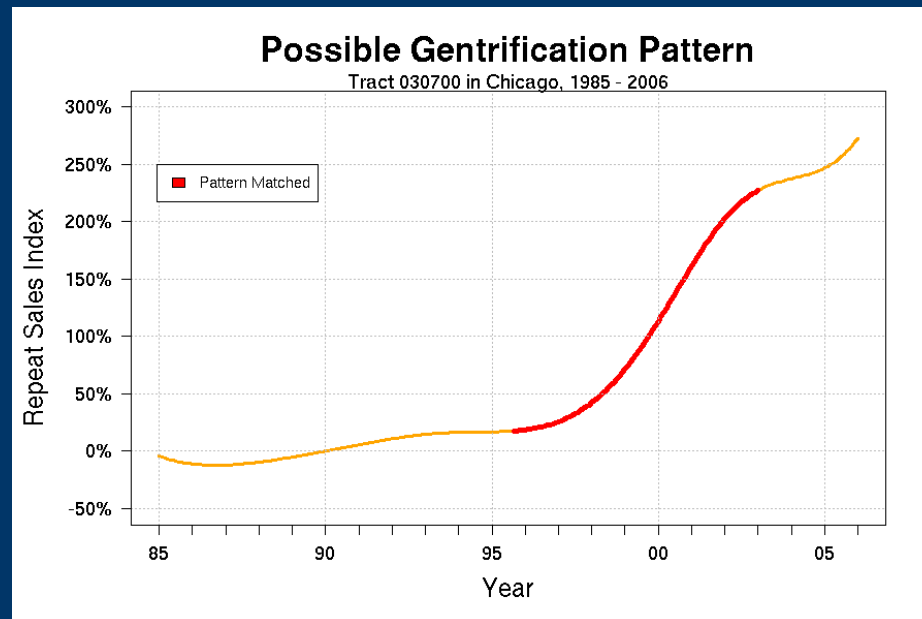
- For identified patterns of change, finds other neighborhoods that have been through or are going through the same pattern

## Applications:

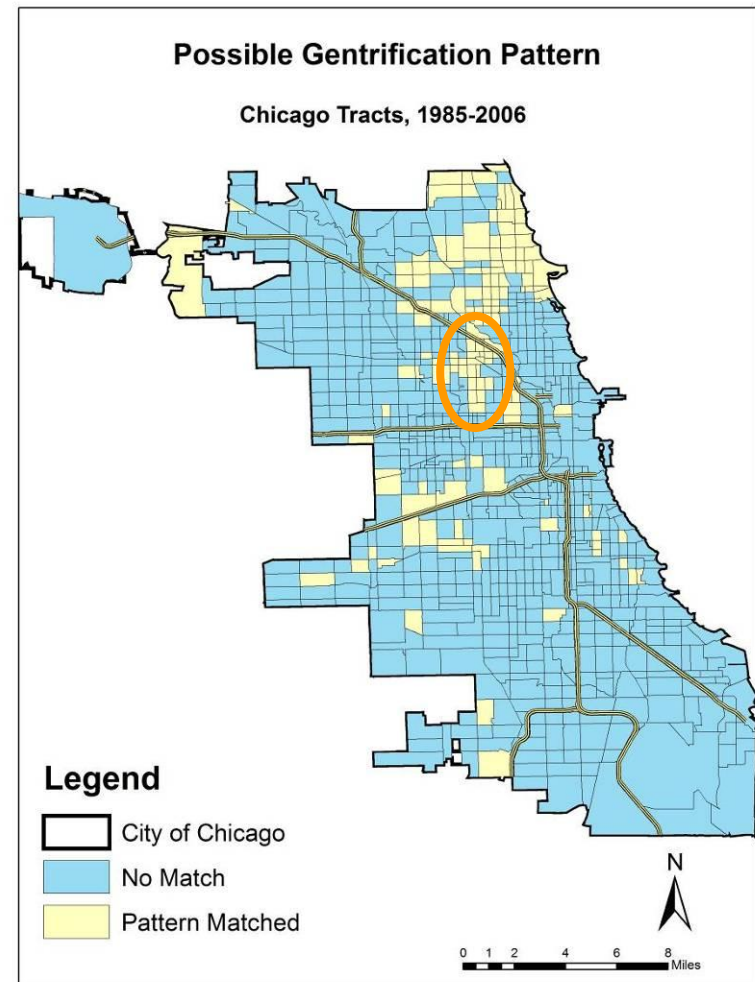
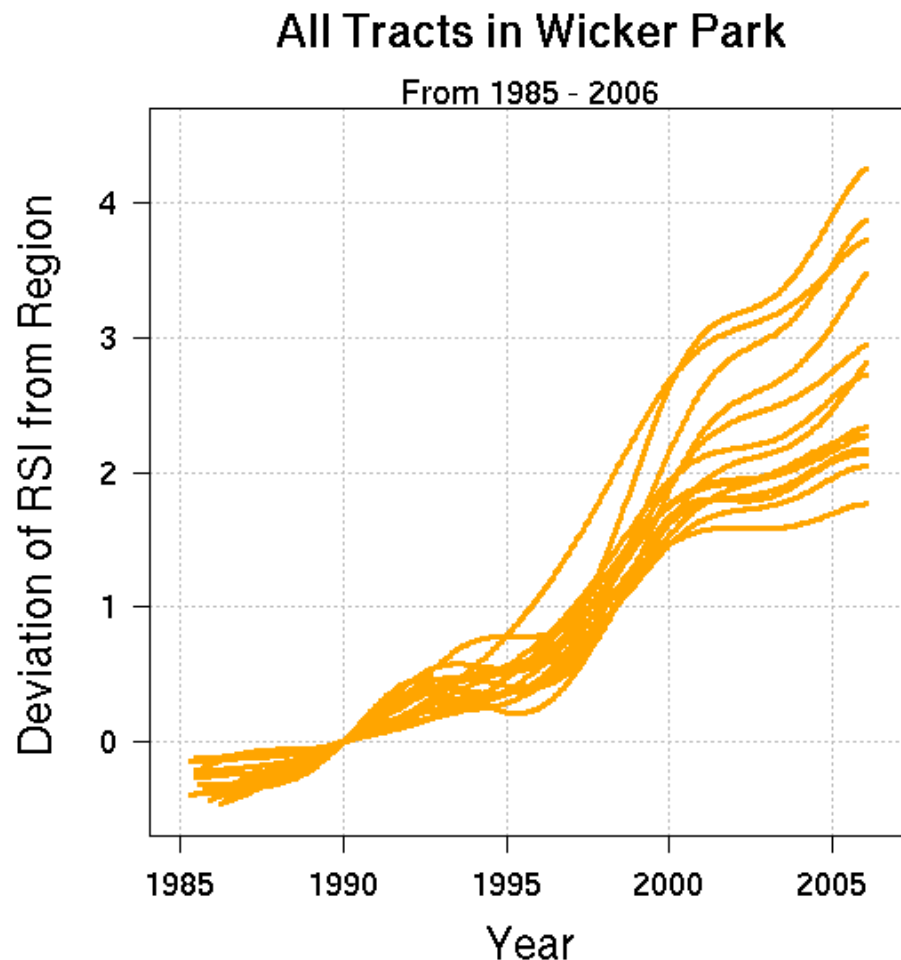
- Enables identifying comparable neighborhoods with respect to particular patterns of change in order to identify key factors and effects
- Enables anticipating and managing particular patterns of change

# Pattern Search Example: Gentrification in Chicago

- **Goal:** Anticipating Neighborhood Change
- **How it Works:** Define a Pattern and Find Matching Cases
- **Example:** Possible Gentrification Pattern Defined Based on a Neighborhood in Chicago

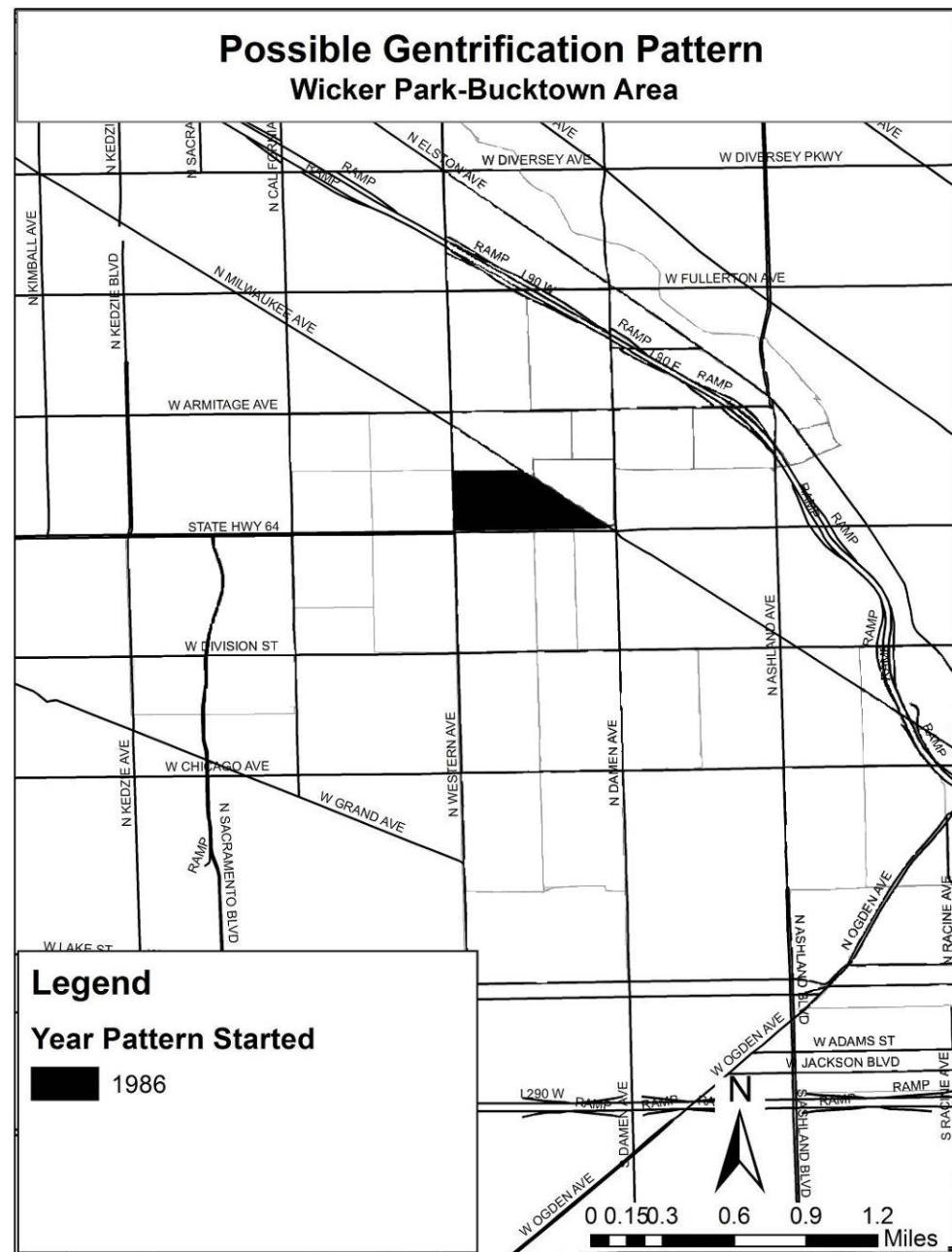


# Zooming In: Wicker Park Area



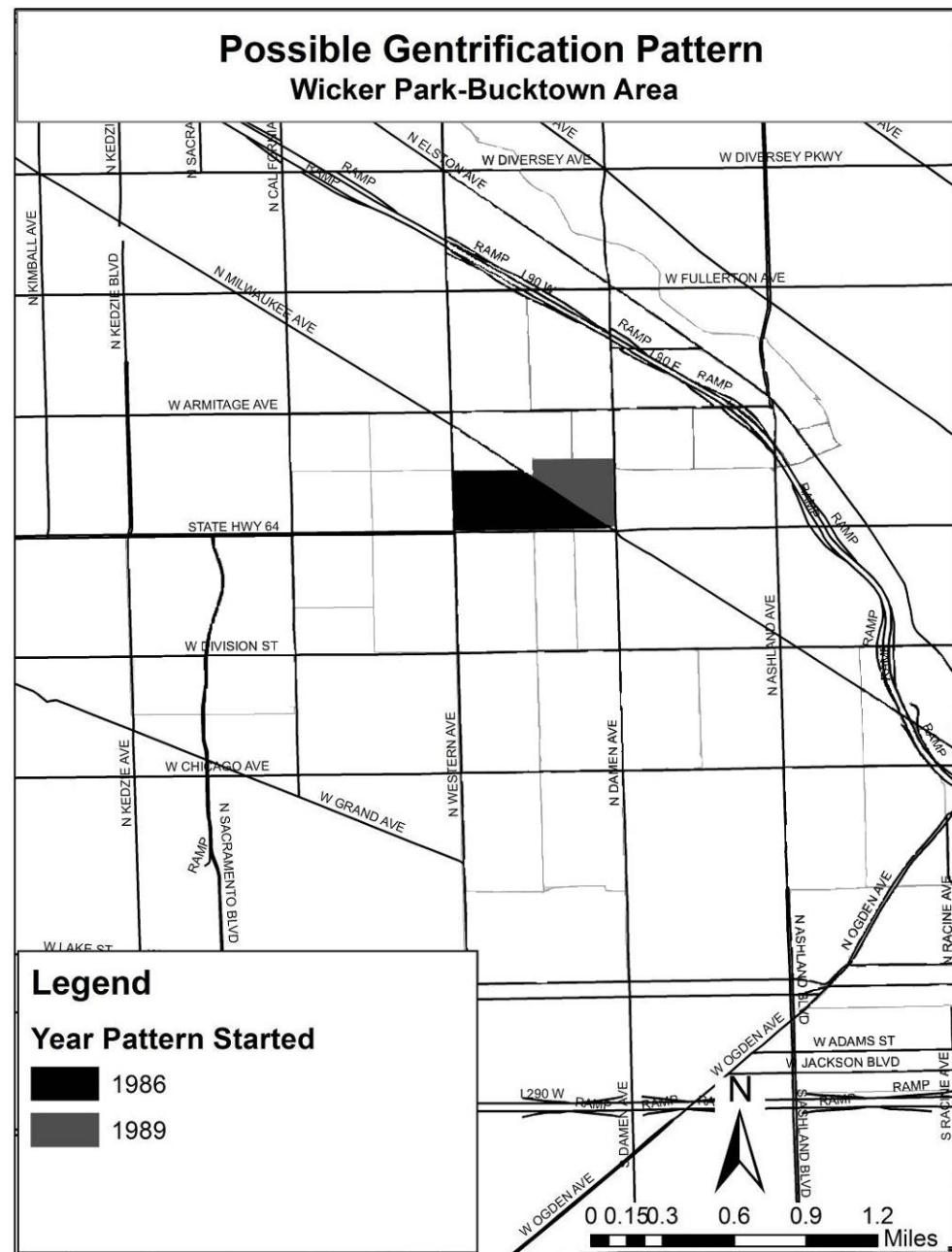


## Pattern “Spreading” to Nearby Tracts

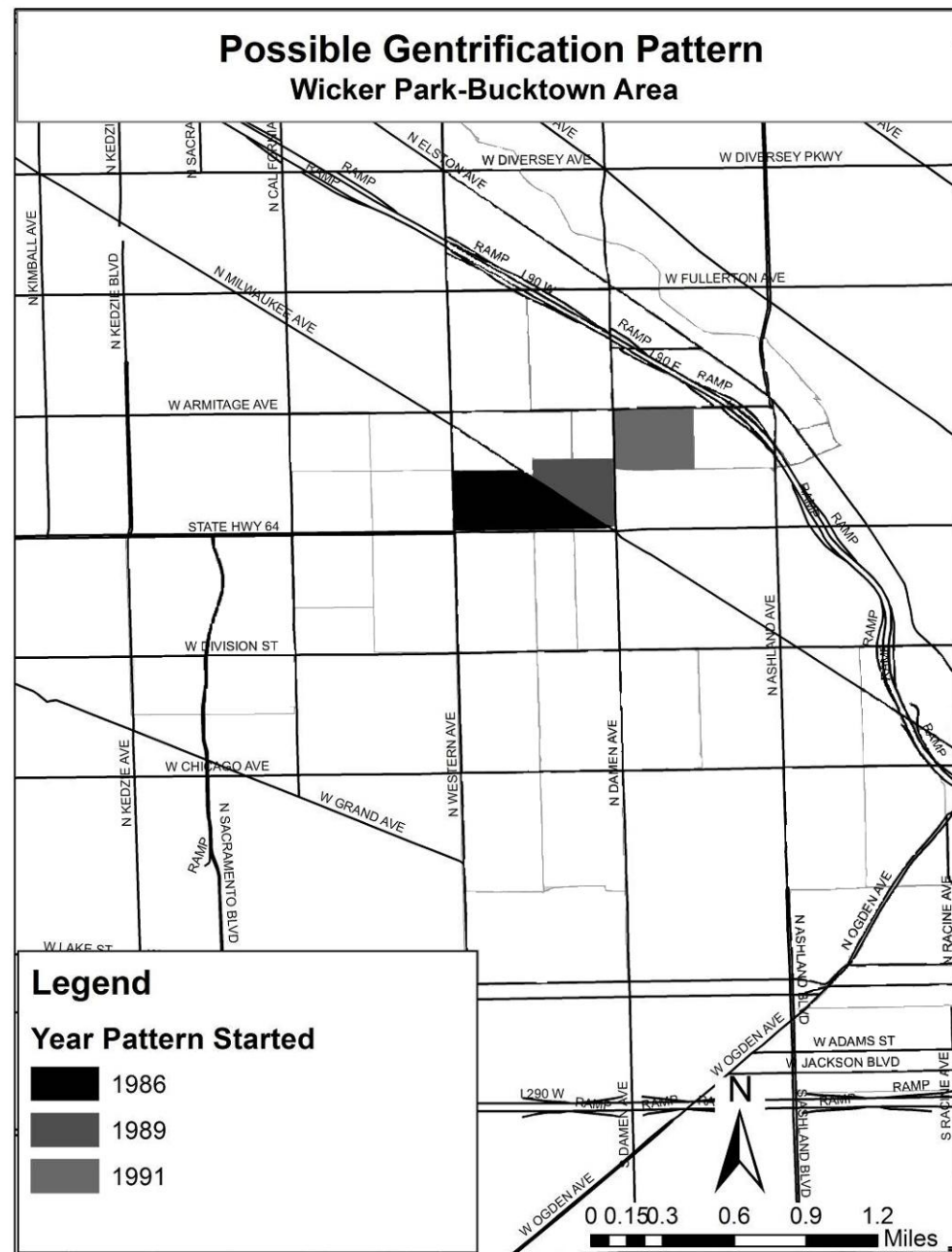




## Pattern “Spreading” to Nearby Tracts

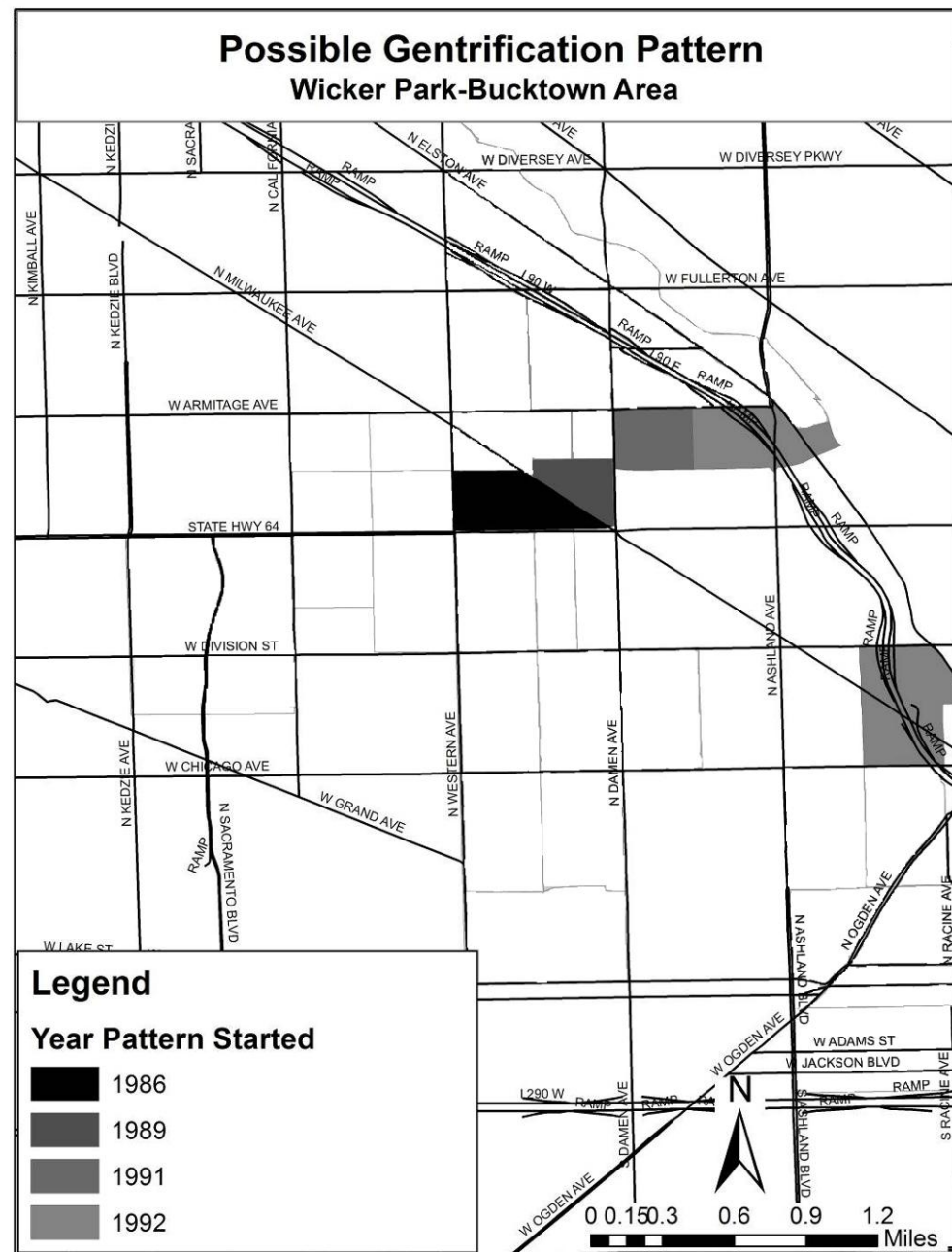


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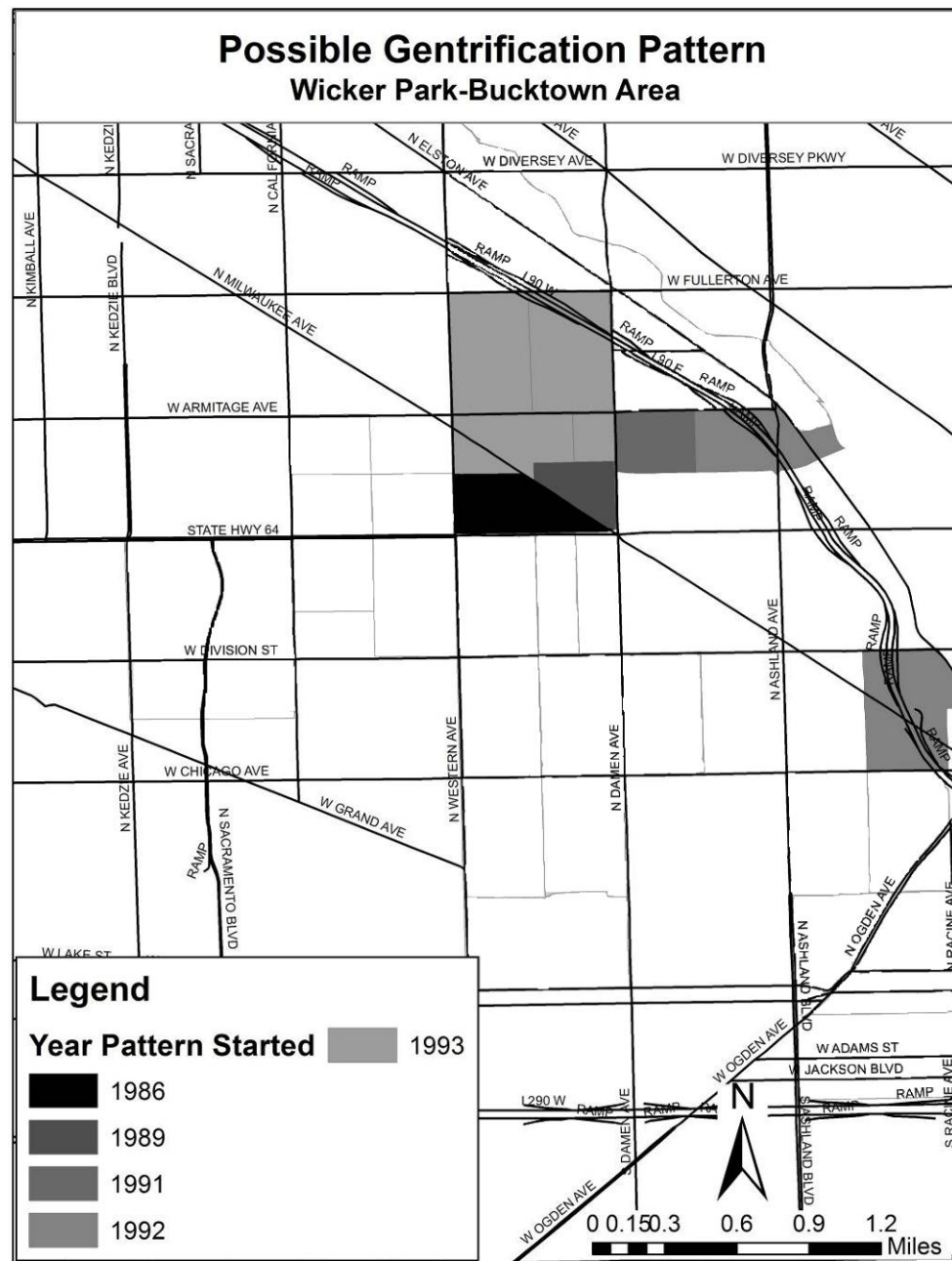
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## Specialized Tools - From Diagnostics to Investment



## V

## Specialized Tools - From Diagnostics to Investment



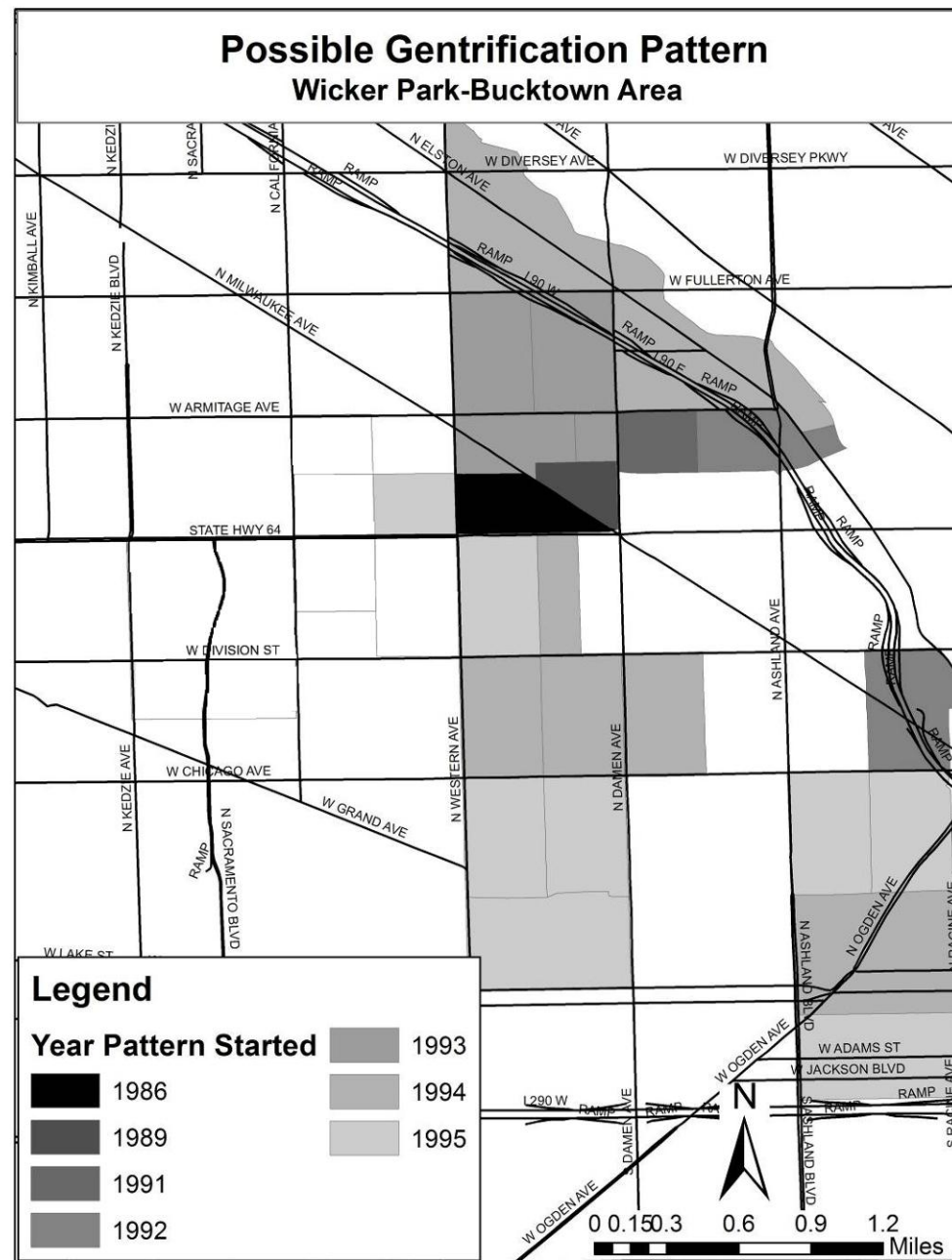
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## V

## Specialized Tools - From Diagnostics to Investment



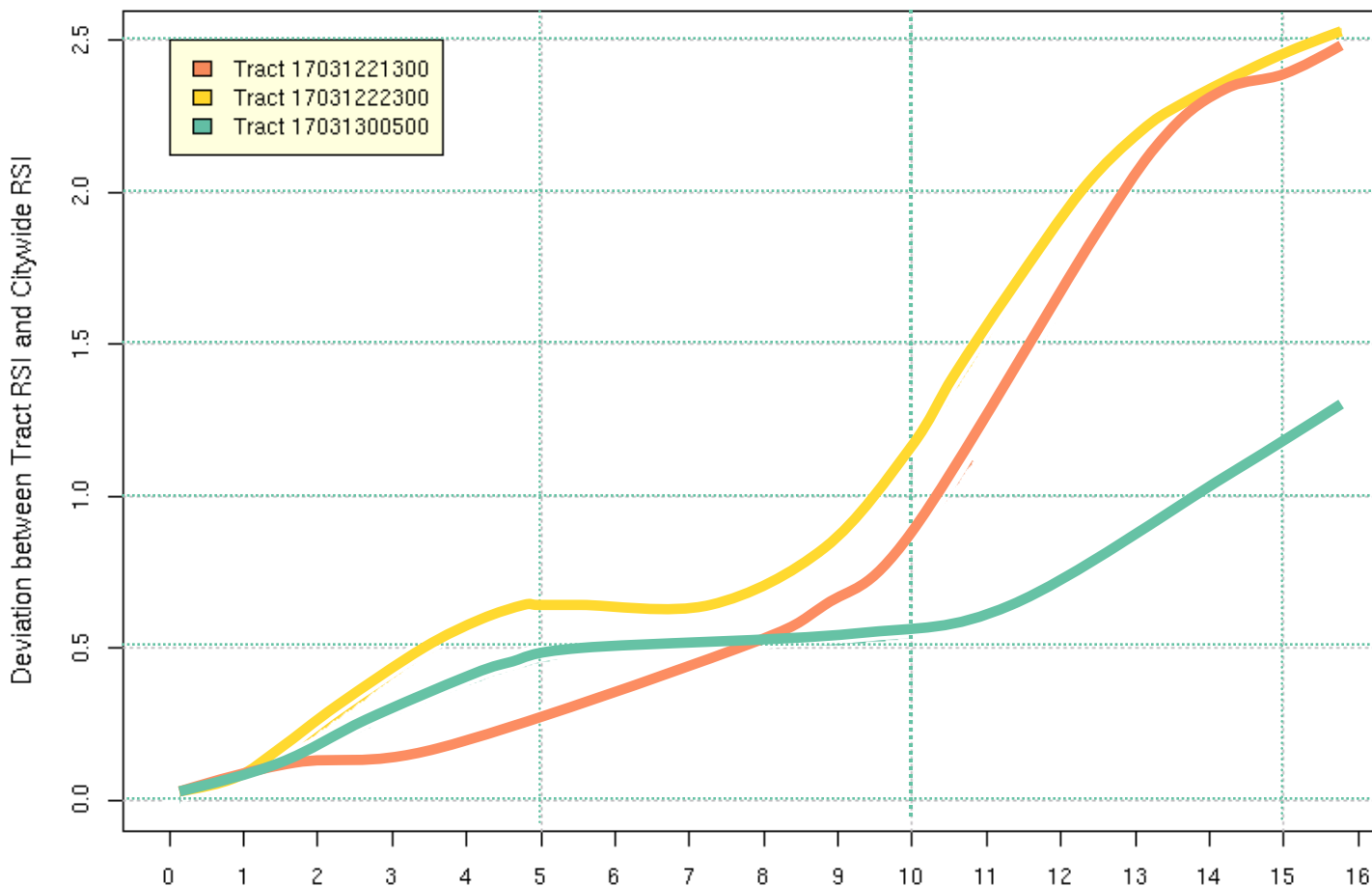
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# Possible Application: Anticipating and Managing Gentrification

**Different Appreciation Patterns Found in the DNT RSI**



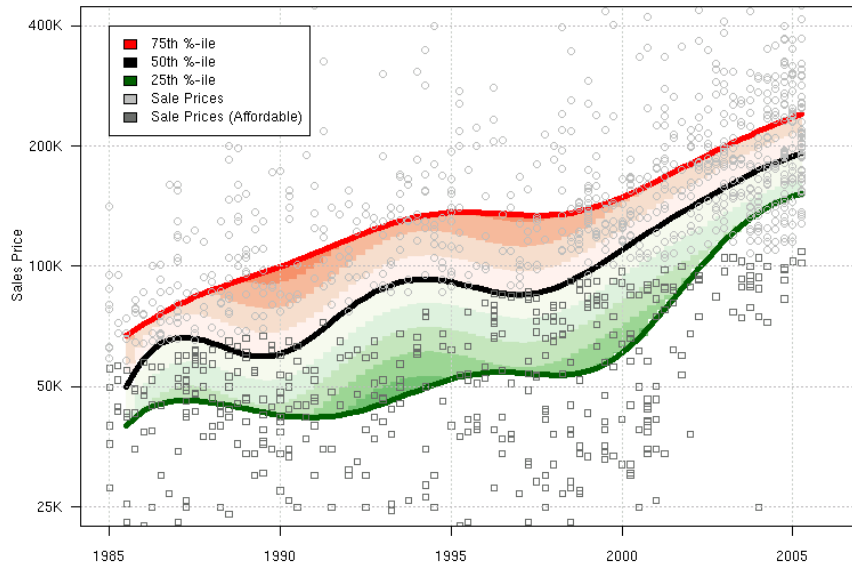
# Housing Diversity Metric

## What It Does:

- Tracks the affordability and mix of the housing stock (distribution, not just median)
- **Applications:**
  - Enables tracking the range of housing available in the neighborhood
  - Better indicator of possible displacement than median prices alone

# Example: Tracking the Price Mix

Sale Prices at 25th, 50th, and 75th Percentiles of tract 17031010200 in Chicago

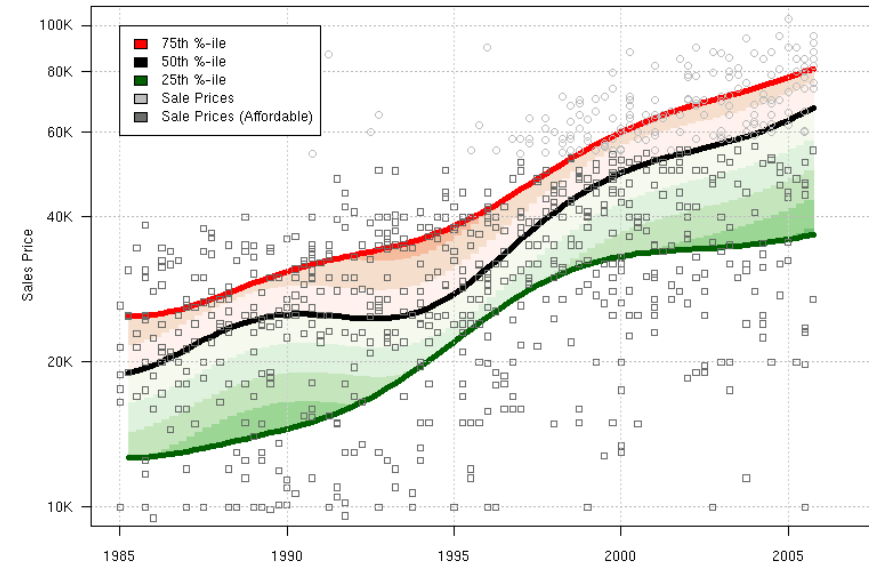


**Strong Overall Appreciation,  
Range of Housing Options Is Narrowing**



**Lack of Affordable Housing**

Sale Prices at 25th, 50th, and 75th Percentiles of tract 39035105100 in Cleveland

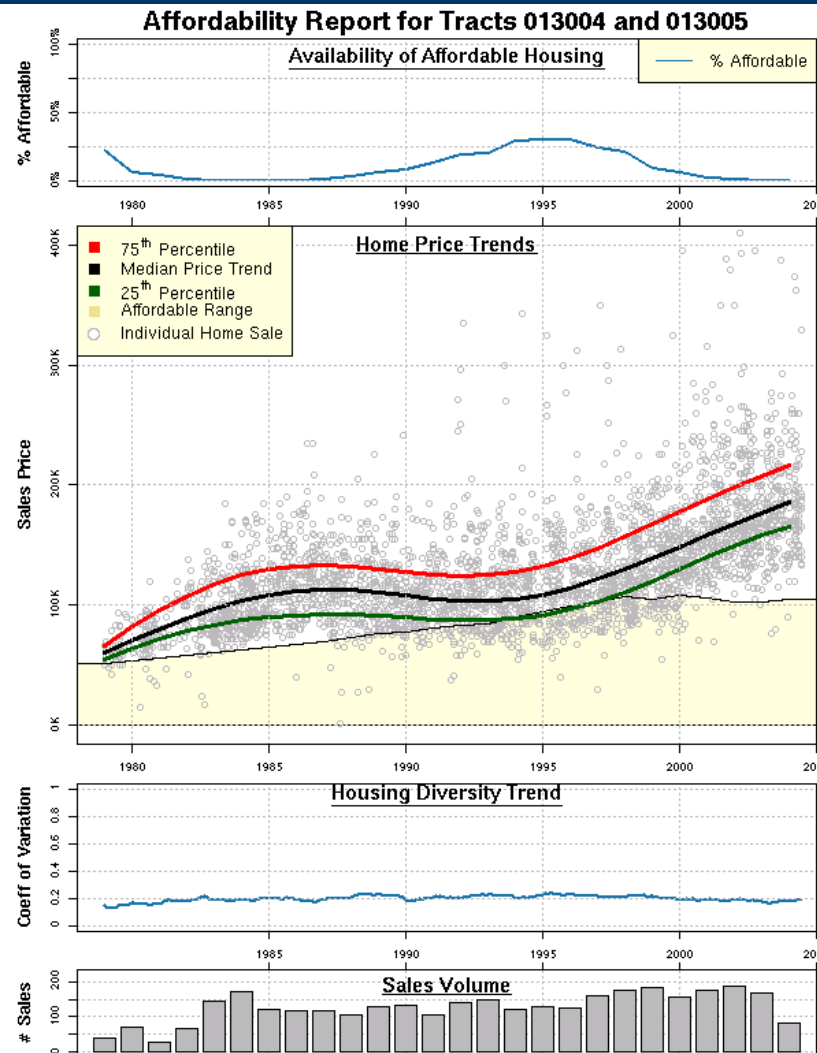


**Strong Overall Appreciation, but  
Range of Housing Options Is Still Wide**



**Large Share of Housing  
Remains Affordable**

# Sample “Affordability Report”



# Impact Estimator

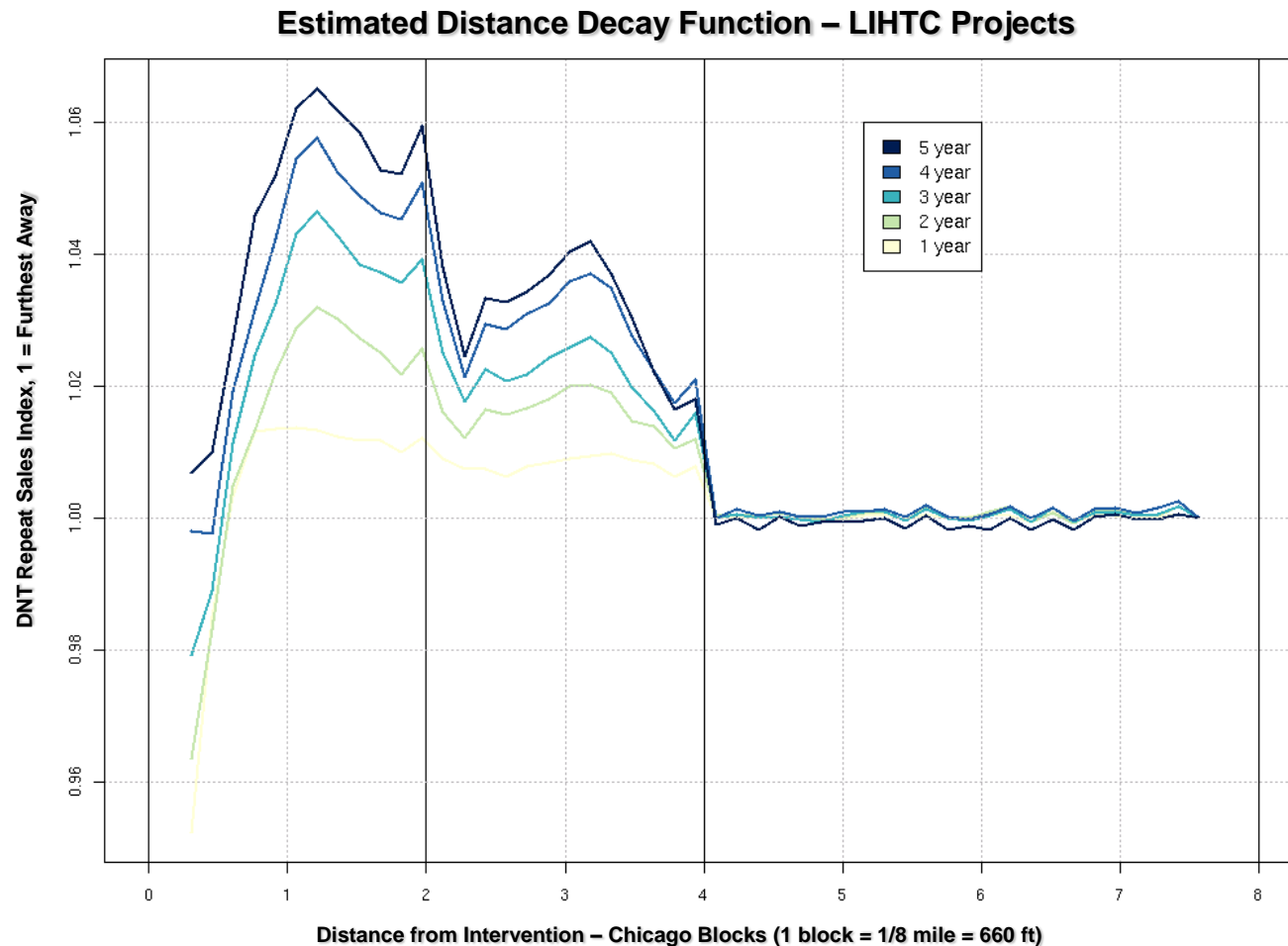
## What It Does:

- Estimate impact of an intervention on surrounding housing values (or on other outcome, e.g. crime)

## Possible Applications:

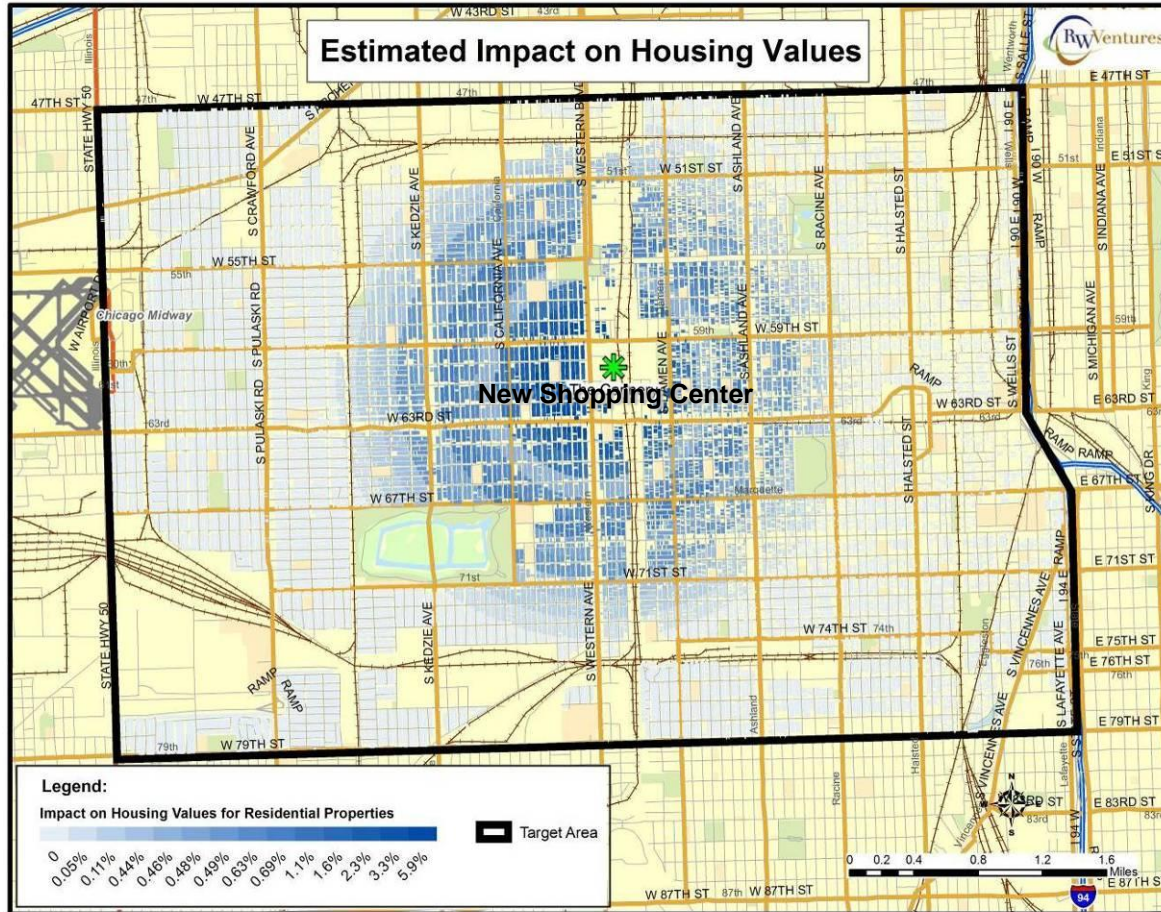
- Evaluate the impact of a development policy
- Choose among alternative interventions based on estimated benefits to the surrounding community
- Advocate for a specific intervention

# Impact of LIHTC on Surrounding Properties



PRELIMINARY – FOR ILLUSTRATION PURPOSES ONLY

## Applying the Estimator to a Specific Project: New Shopping Center in Chicago



**Estimated benefits to the community: \$29 million in increased property values, or an average of \$1,300 per home owner.**



# Classification and Regression Tree (CART)

## What It Does:

- Identify similar neighborhoods with respect to an outcome of interest and its drivers

## Applications:

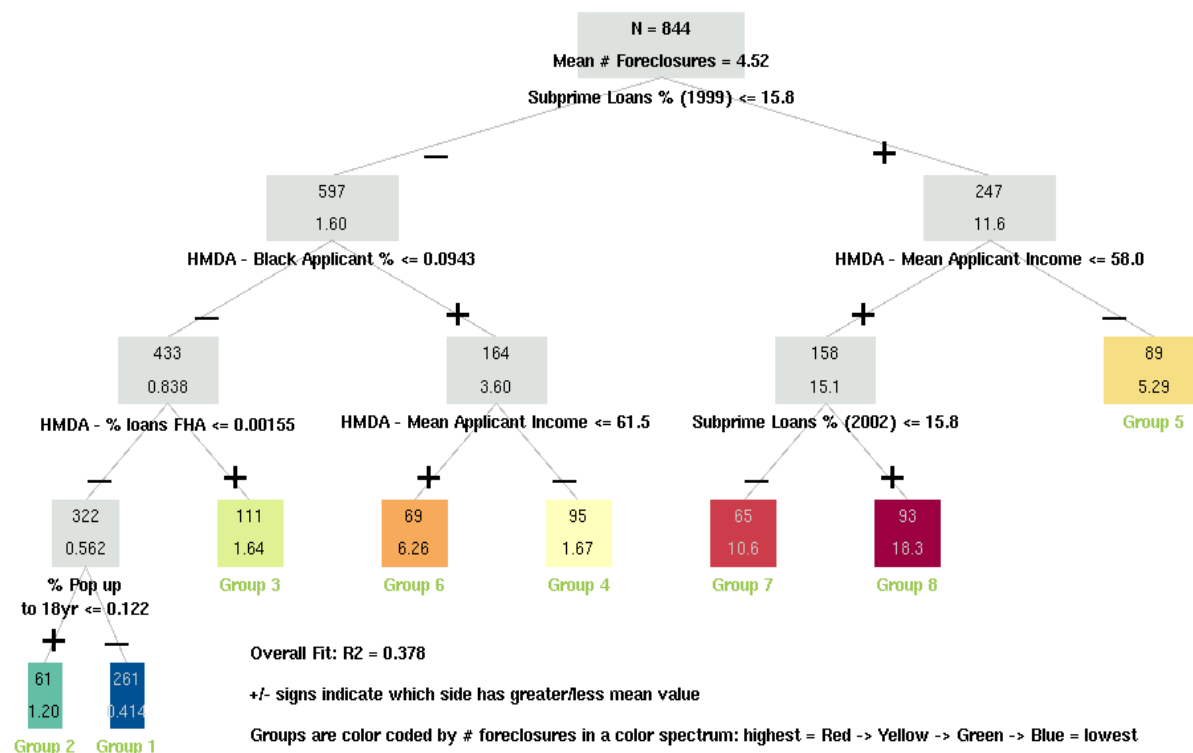
- Identify leverage points to affect the desired outcome
- Meaningful comparison of trends and best practices across neighborhoods

# Sample CART: Foreclosures

CART Tree built using "Number of Foreclosures in 2004" as the Dependent Variable

All Variables Measured in 2004 unless otherwise noted

## 40 Variables Tested



## Outcome:

- Number of Foreclosures (2004)

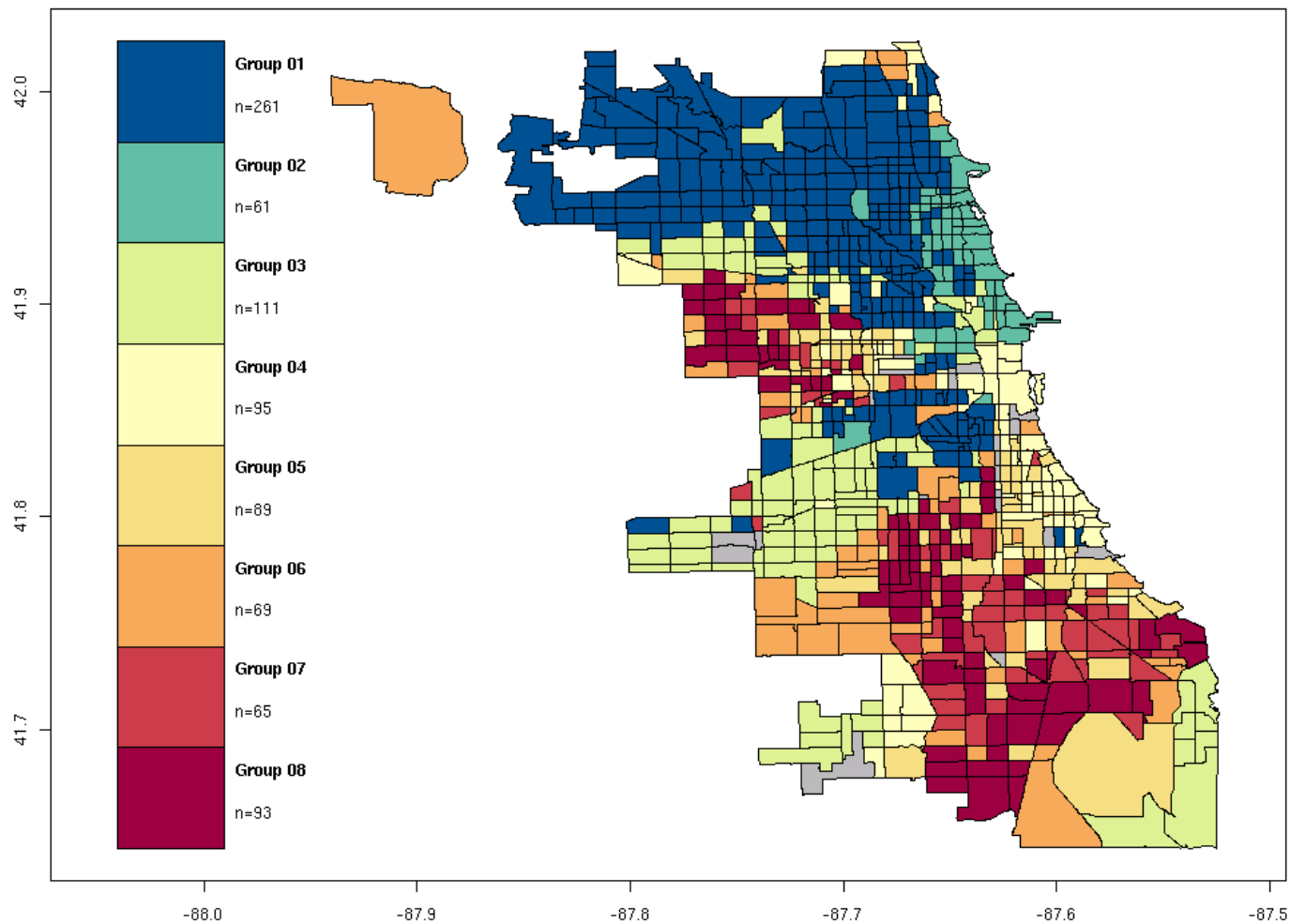
## Drivers:

- % Subprime Loans in Previous Years
- Mean Loan Applicant Income
- % FHA Loans
- % Black Borrowers

What Neighborhoods Have Similar Numbers of Foreclosures, and Why?

# CART Output: Chicago Segments

Geographic Distribution of CART Groups in Chicago, using Foreclosures as the Dependent Variable



# Cluster 8: Defining Traits and Risk Factors

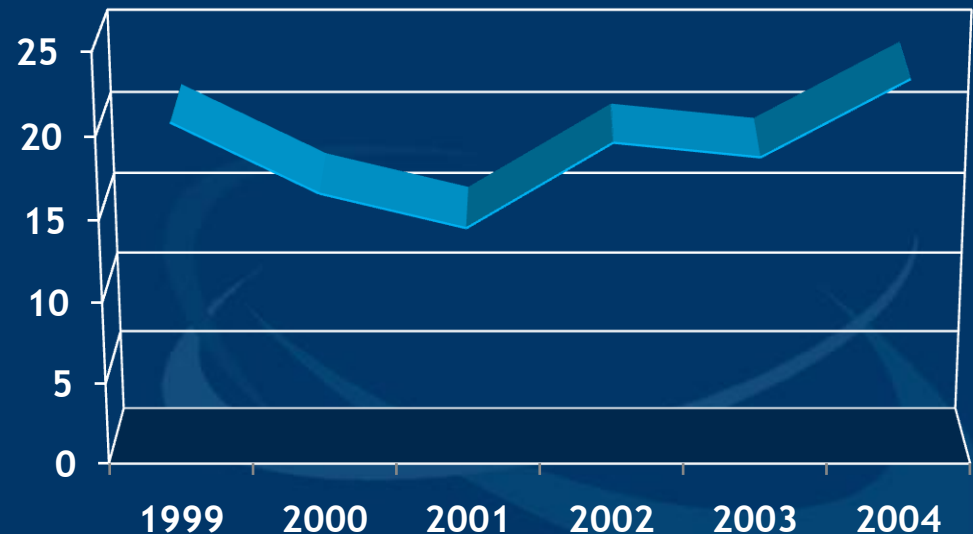
## Segment Profile:

- Isolated, underserved, predominantly African American communities. High rates of unemployment and sub-prime lending activity.

## Primary Risk Factor:

- Percentage of sub-prime loans (primary driver of foreclosures) is at its highest and still on the rise

Percentage of Sub-prime Loans by Year



# DNT Neighborhood Typology

## What It Does:

- Identifies distinct neighborhood types based on drivers of change and other characteristics

## Possible Applications:

- Tailor strategies to specific neighborhood types
- Benchmark neighborhood performance
- Peer analysis and relevant best practices
- Facilitate impact analysis

# A Preliminary Taxonomy of Neighborhoods

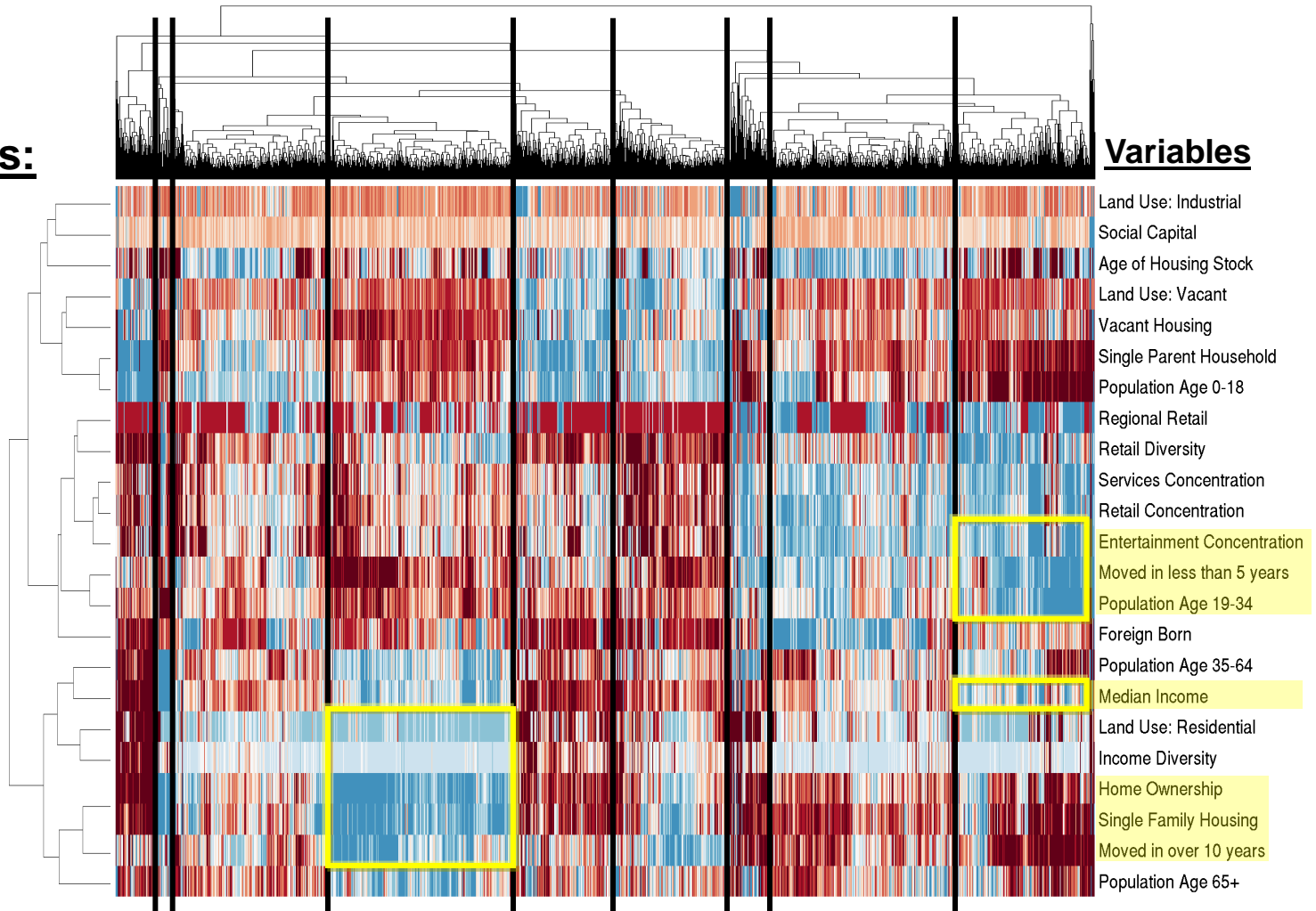
## Key Dimensions:

### •People

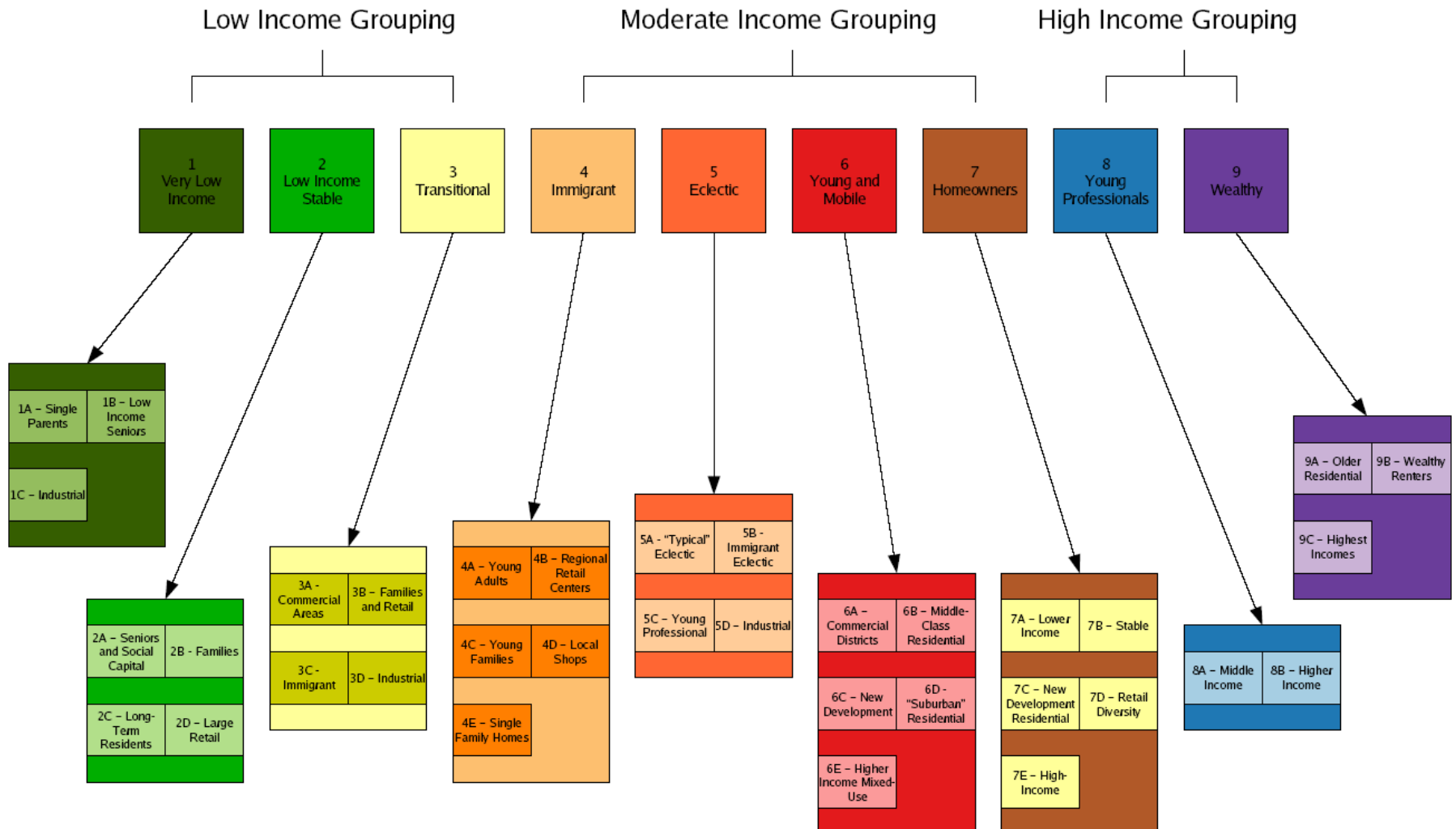
- Income
- Age
- Foreign Born

### •Place

- Land Use
- Housing Stock
- Business Types

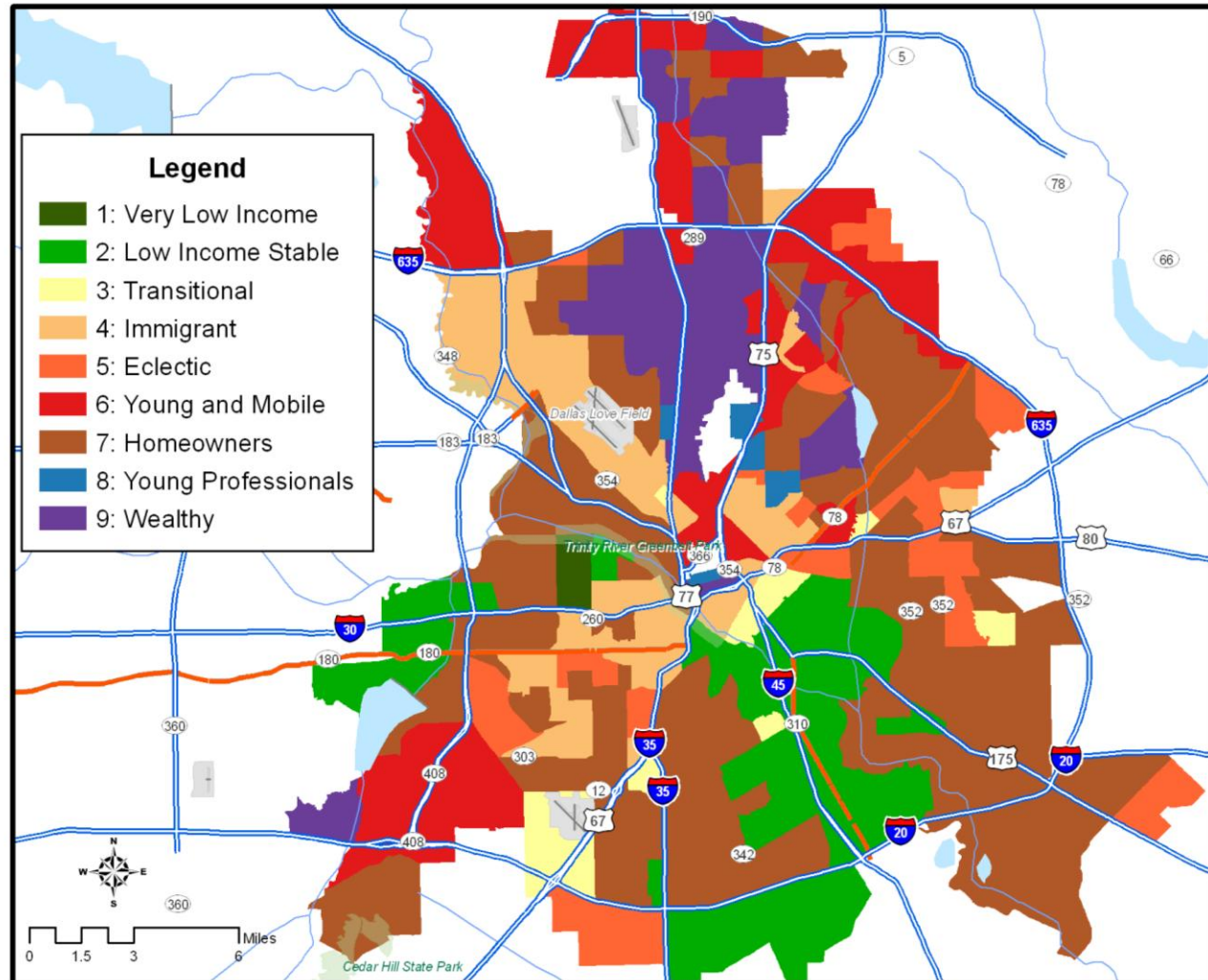


# Taxonomy Structure: “Genus, Phylum, Species”





# Dallas Neighborhood Types



# Example: Type 7, “Homeowners”

## Cluster Profile:

- Highly residential neighborhoods, with high rates of homeownership, generally in single family homes, located further from downtown. Residents tend to be employed in professional occupations and have middle to high incomes. Crime rates in these neighborhoods are typically low.

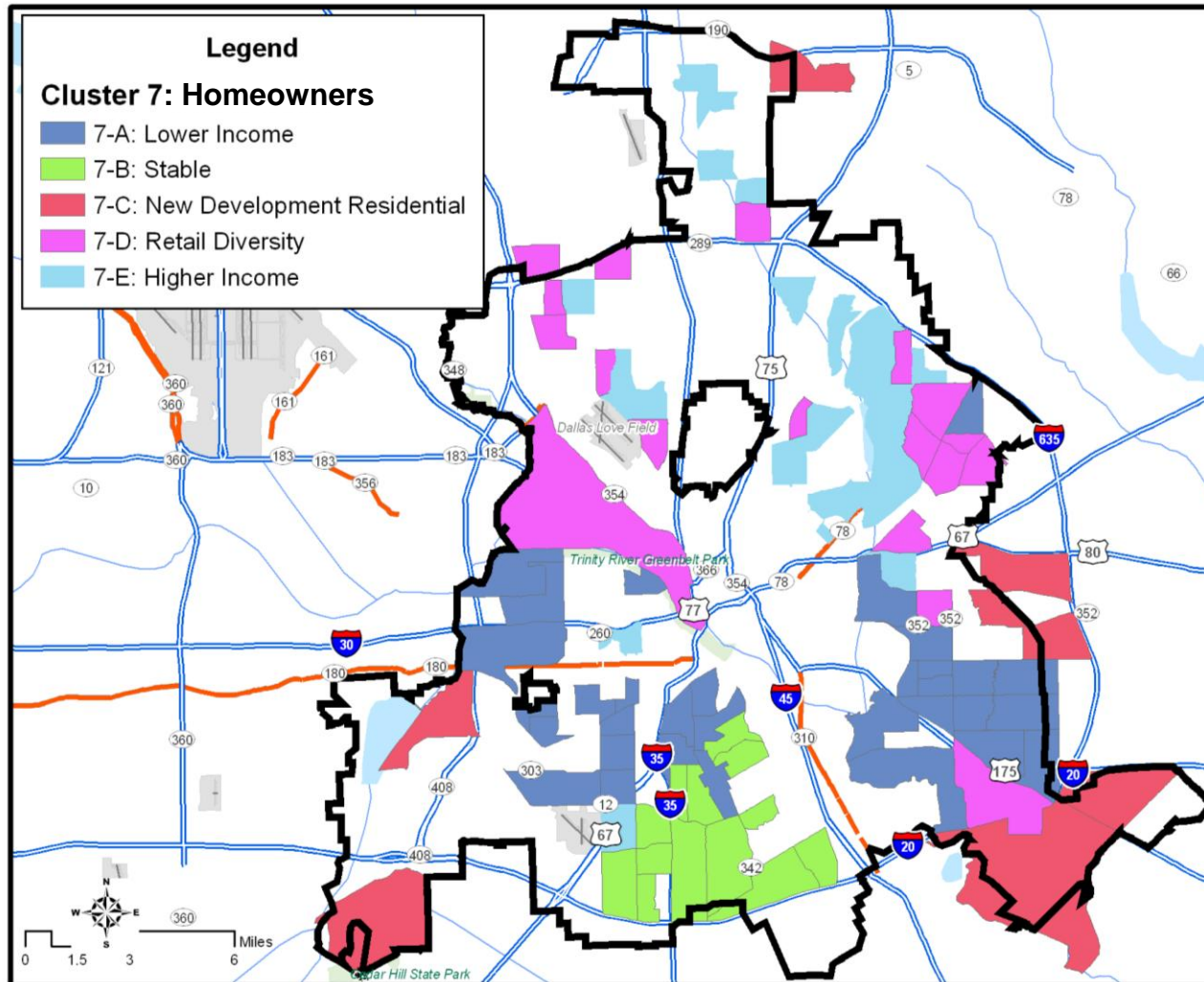
## Other Characteristics:

- Tends to move in sync with the region
- Stable type, though 8% transitioned to Type 5 (“Eclectic”)

## V



# Moving Down the Taxonomy: From “Phylum” to “Species”





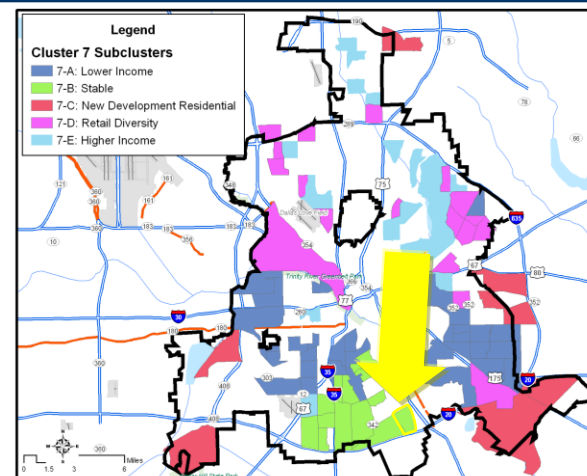
## V



# Applying the Taxonomy...

## Comparing Within Type:

	Tract 016901	Type 7-B, “Stable Homeowners”
Change in Value	12.3%	63%
Median Income	\$31,242	\$41,330
Percent Single Parent Households	19.9%	9.3%
Homeownership Rate	70.6%	73.9%
Turnover (% Moved in over 10 Years Ago)	61%	68.8%
Retail Diversity	35	20.6
Unemployment Rate	15.6	10.4
Vacancy Rate	3.4%	4.8%

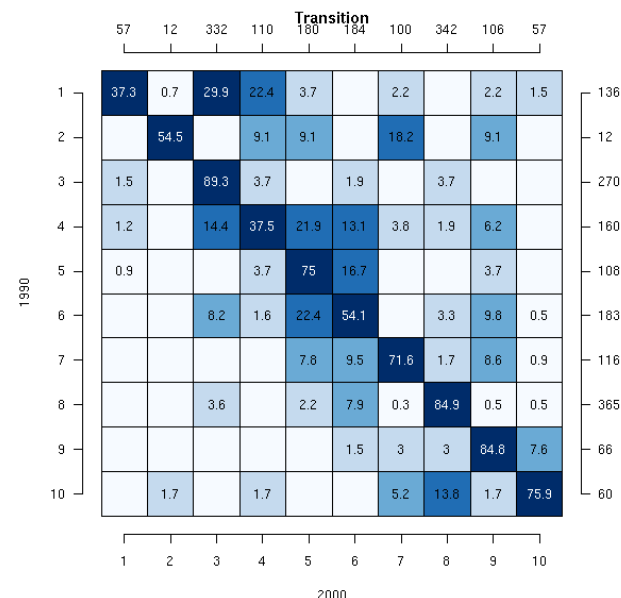


Identify Factors  
Affecting  
Neighborhood  
Performance  
Compared to Peers

# Applying the Taxonomy...

## Comparing Across Types:

	Type 6-D New Development	Cluster 8 Young Professionals	Cluster 7 Homeowners
Age 19-34	35%	49%	24%
Stability (Less than 5)	69%	71%	39%
Single Family Housing	27%	11%	71%
Commercial Land Use	8.4%	7.7%	3.9%
School Quality (reading test scores)	76	55	60
Homeownership	33%	34%	69%



What Would it Take to  
Become a Different  
Type of  
Neighborhood?



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Discussion: What Next?

# Open Source: Multiple Parties Are Already Interested in Moving the Work Forward

- LISC - Analysis of Impact of LIHTC Projects
- UMI/NNIP - Embed Tools in Existing Web Platforms
- Preservation Compact - Affordability Reports and Real Estate Metrics
- Chicago Department of Children and Youth Services - Targeting Location of Child Care Centers and Youth Programming
- Metropolitan Mayor's Caucus/Chicago Metropolis 2020 - Affordability Reports, Real Estate Metrics, Patterns of Change Analysis
- MCIC - RSI and Other Housing Values Indicators
- MDRC - Analysis of Impact of New Communities Program
- Case Western - Analysis of Mixed-Income Communities
- Ansonia Properties, LLC and CityView - Apply Tools to Guide Investment in Workforce Housing

# Building on the DNT Foundation: Possible Next Steps

- Make the tools available to practitioners and investors (e.g. by embedding them in existing web-based data platforms)
- Apply the work to particular neighborhoods and interventions: improve the analysis and tools based on repeated application
- Extend the analysis to the rest of the region and to other cities: expand data, metrics, models and tools
- Maintain and update core metrics (particularly RSI) going forward
- Create a “learning network”?

# Building on the DNT Foundation: Possible Next Steps

## Further Investigation of the Effects of Specific Factors:

- Detailed Analysis of Effects of Different Types of Crime
- Comparative Analysis of the Impact of Different Types of Business Establishments
- Detailed Analysis of the Effects of Access to and Use of Credit
- Analyze the Impact of Specific Development Interventions (from Human Development Programs to Sub-Prime Remedies)
- Return on Investment Analysis: Tie Magnitude of Effect to Cost of Interventions to Assess which Strategies are Most Cost Effective

## Further Investigation of Specific Neighborhood Segments:

- Exploratory Analysis of Stable Mixed-Income Communities
- Analysis of Drivers of Improvement in Place for Specific Subsets of Neighborhoods (e.g. Immigrant, Startup Family, etc.)
- Build on Typology Results to Identify Drivers by Type

## Address Other Issues in the Field:

- Gentrification Early Warning System
- Identify What Amenities Attract Different Demographics

# Discussion

- General Comments and Questions
- What are You Trying to Better Understand About Neighborhoods?
- What Impacts are You Trying to Achieve and Measure?
- What Tools and Applications Would Be Most Useful?
- Partners: Corollary Research, Tool Development and Testing, Other?

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# Dynamic Neighborhood Taxonomy

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*A Project of*

**LIVING CITIES**

By

RW Ventures, LLC

**The Williams Institute**

Dallas, May 22, 2008