

Declining driving among Millennials: **A nationwide perspective of the causes and consequences**

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To Do

- The four types of Millennial travelers
- Constraints or preferences?
- Travel and the built environment
- Is a back-to-the-city movement underway?







BENJAMIN CHEZ STEEL

ESPRESSO	25
ALLONGE	25
MORLETTE	3
CRÈME	4
FILTRE	3
THÉ	4
FRESH JUICE	4
HOT CHOC	5
GRANOLA	6
FORMULE	10 - 12 €

— Il ne se
peut pas
pour que
les clients
comprenez
un véritable
savoir le confort
de chaque
estige

Travel behavior is multifaceted

Travel behavior is multifaceted

Mobility



Trip making

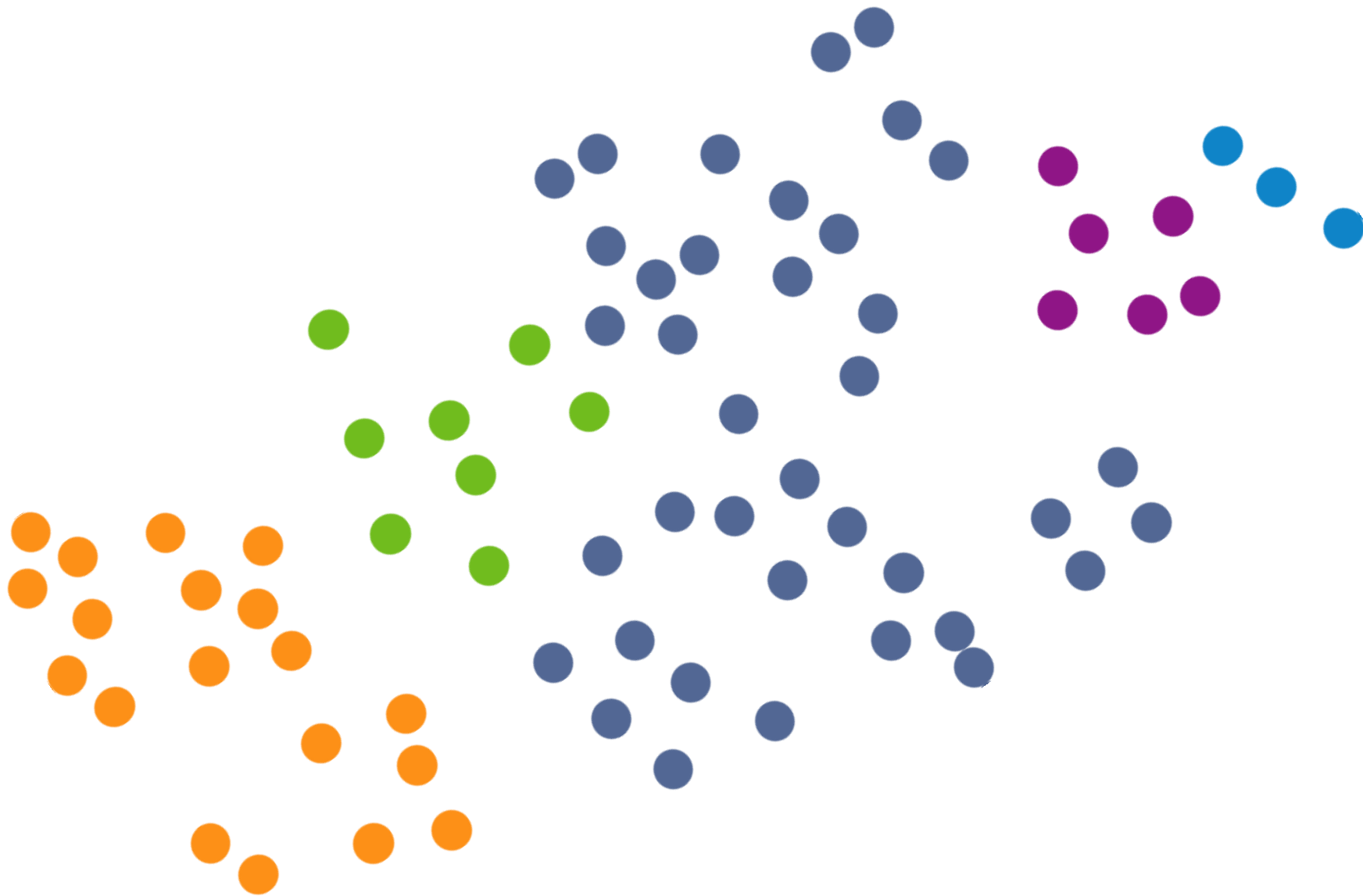


Automobile access



Day-to-day variability





Latent Profile Analysis

Drivers

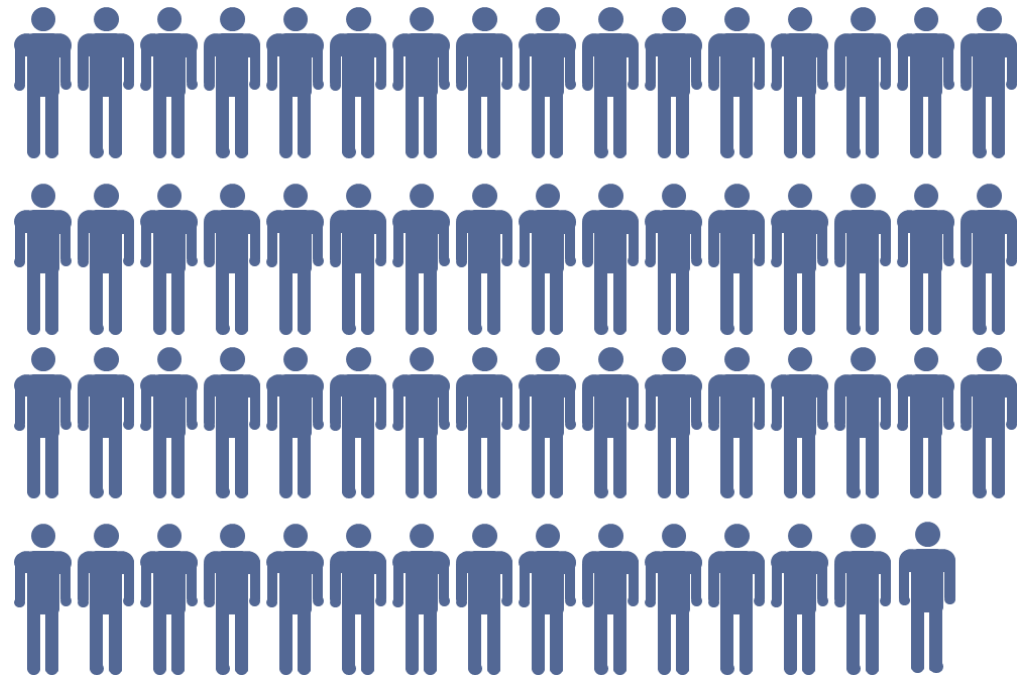
**Long-distance
Trekking**

Multimodals

Car-less

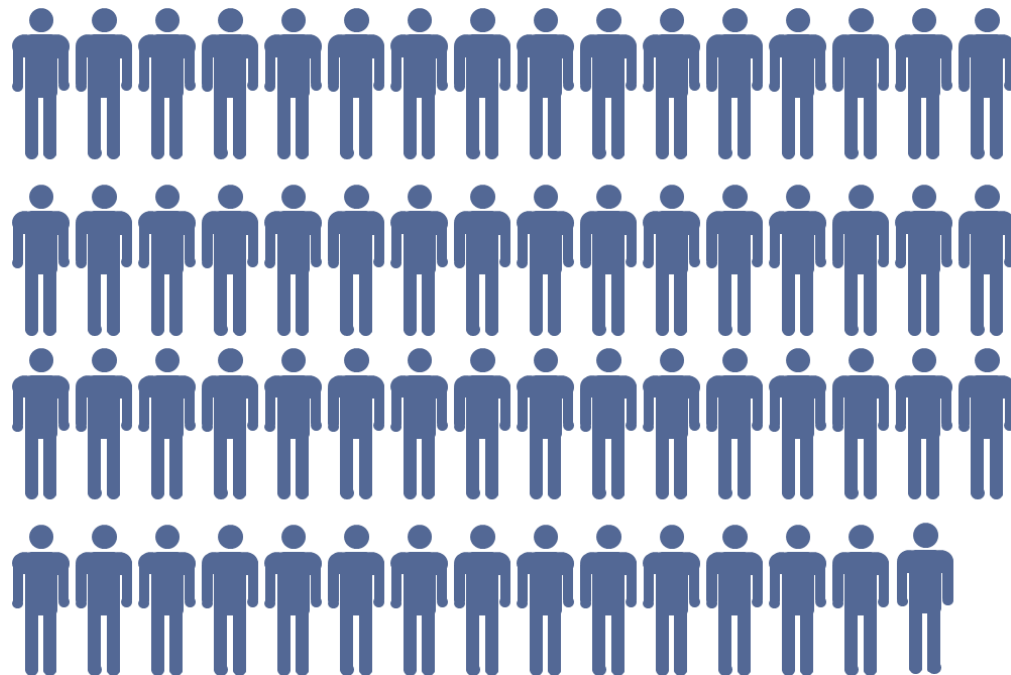
Latent Profile Analysis

Drivers: 79%



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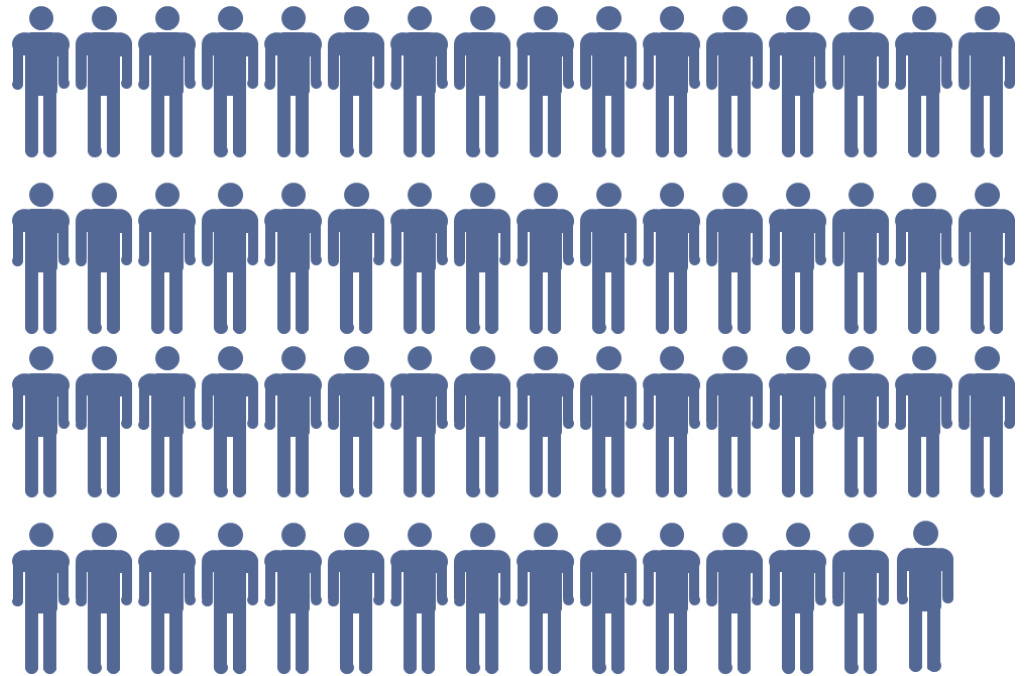
**Long-distance
Trekkers: 3%**



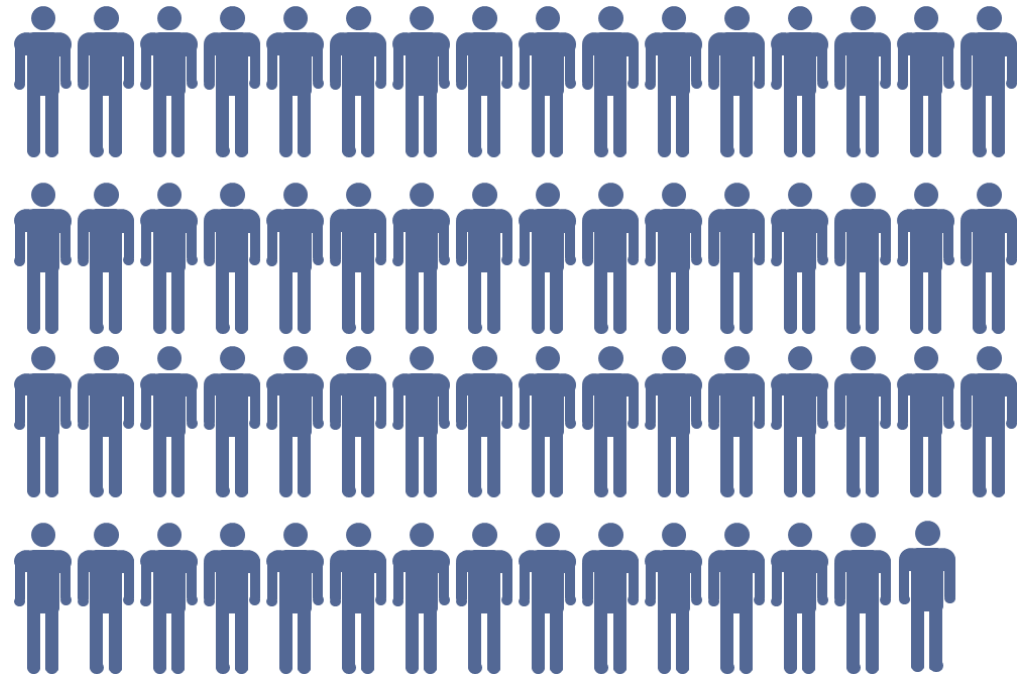
Drivers: 79%

**Long-distance
Trekking: 3%**

Multimodals: 4%



Drivers: 79%



**Long-distance
Trekking: 3%**



Multimodals: 4%



Car-less: 14%

✓ The four types of Millennial travelers

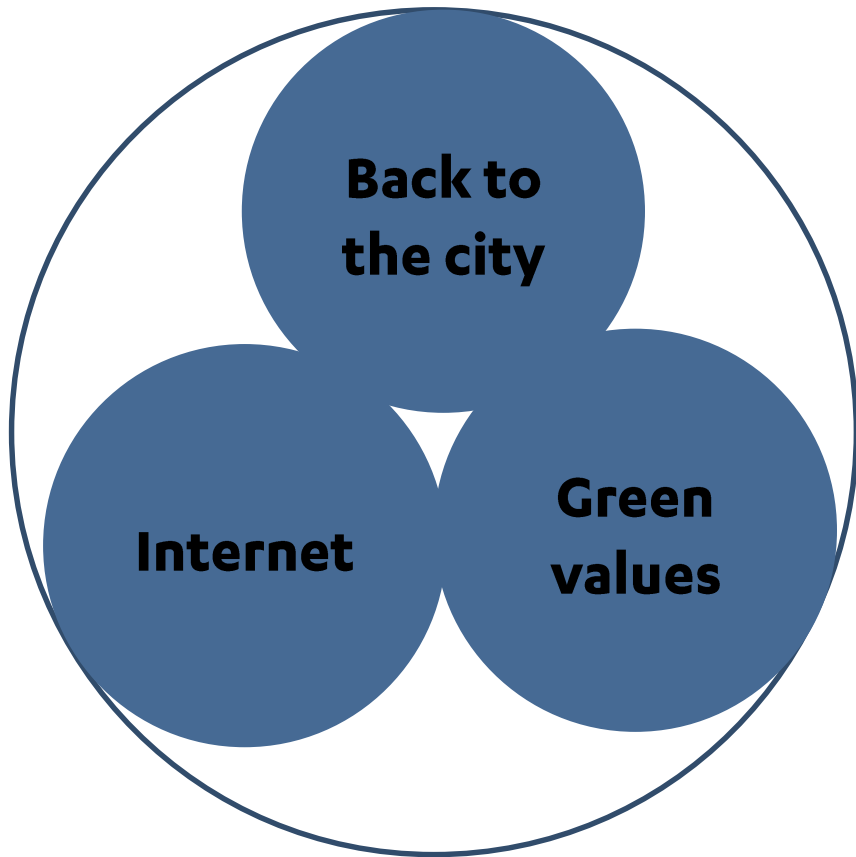
Constraints or preferences?



**Preferences have
changed**



**Responding to
economic
constraints**



**Preferences have
changed**



Indirect test

**Preferences have
changed**

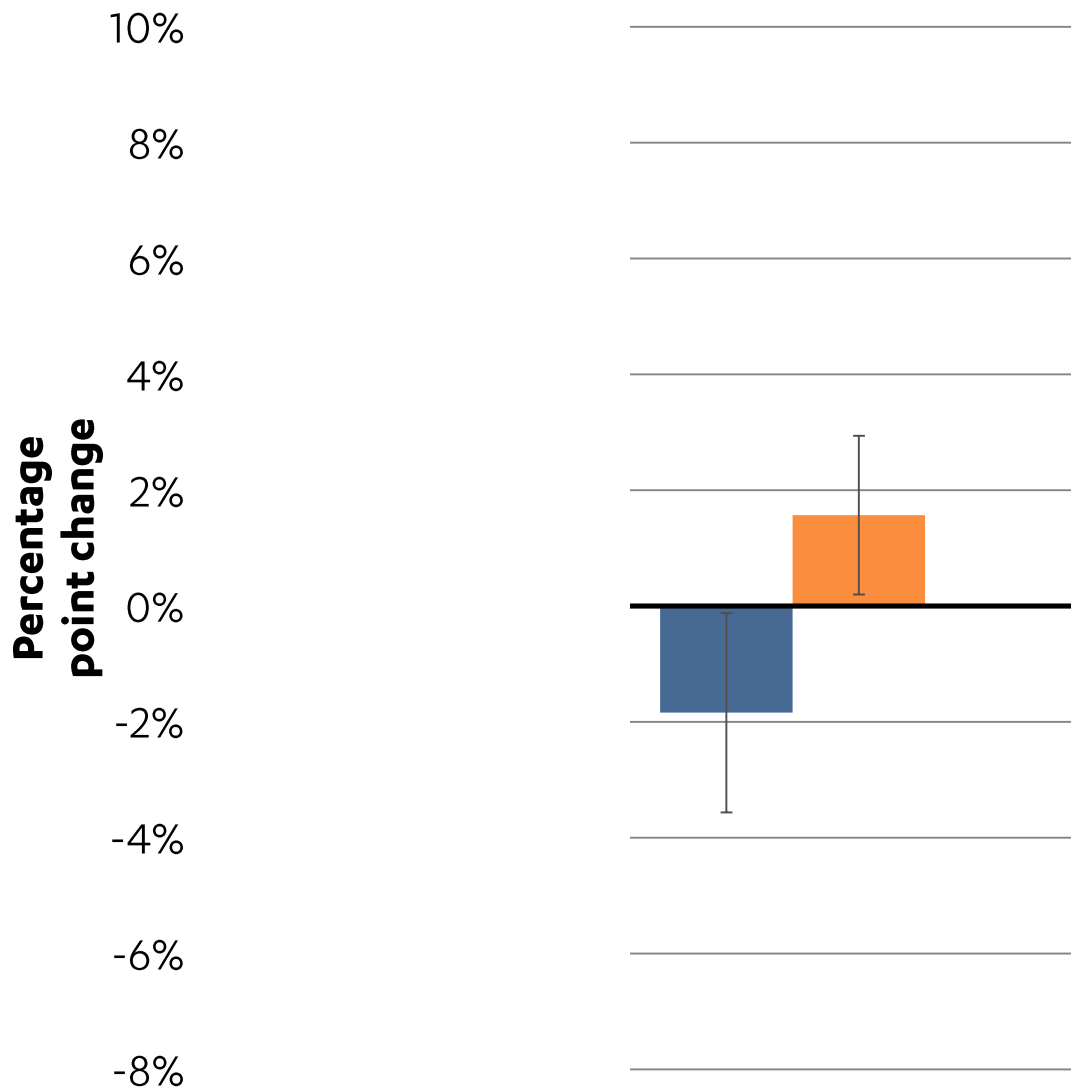
**Responding to
economic
constraints**

Assumption: Young people with many resources are better able to act on their preferences than those with few resources.

Change 1995 to 2009

Not employed

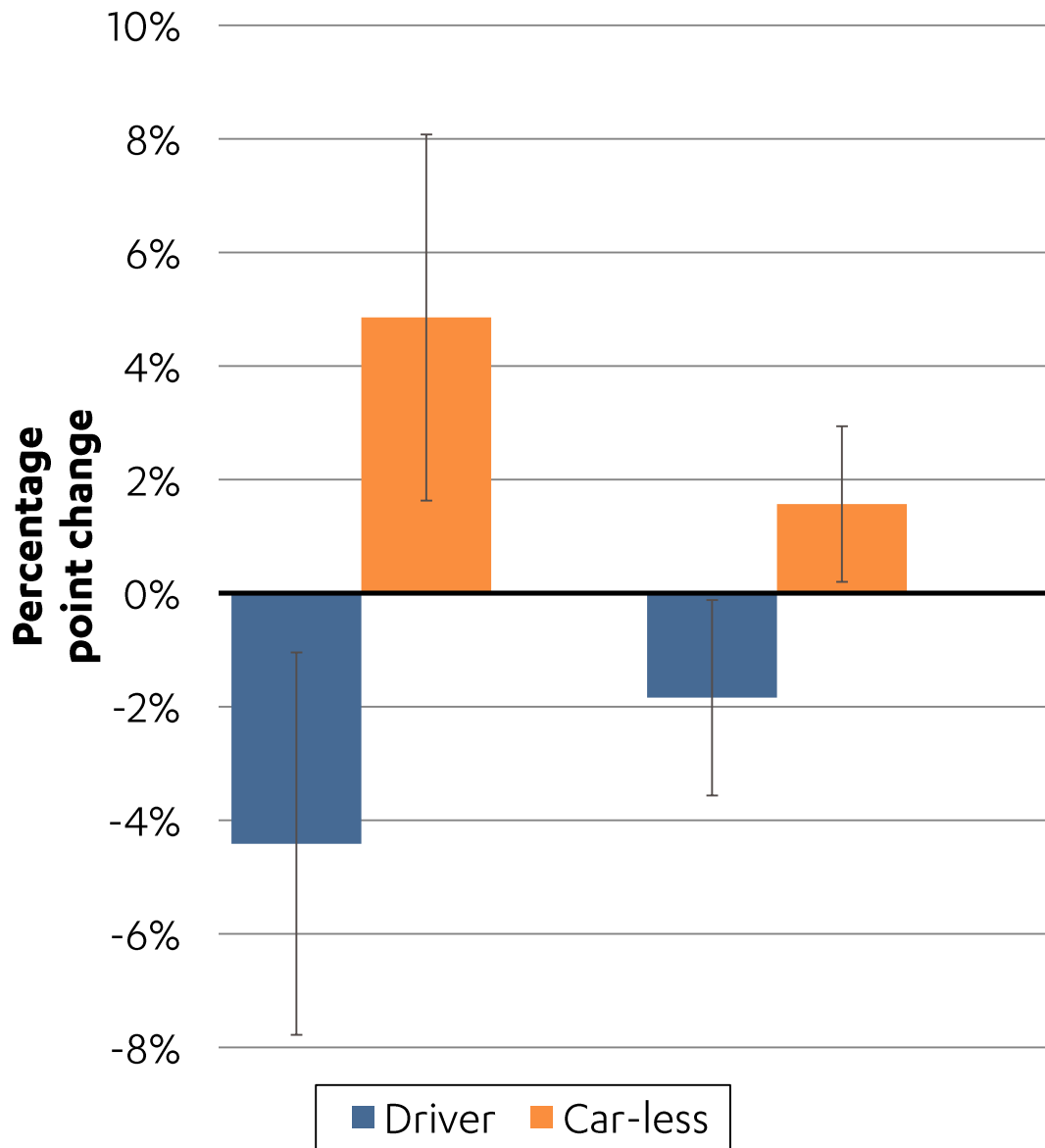
Employed



Change 1995 to 2009

Not employed

Employed

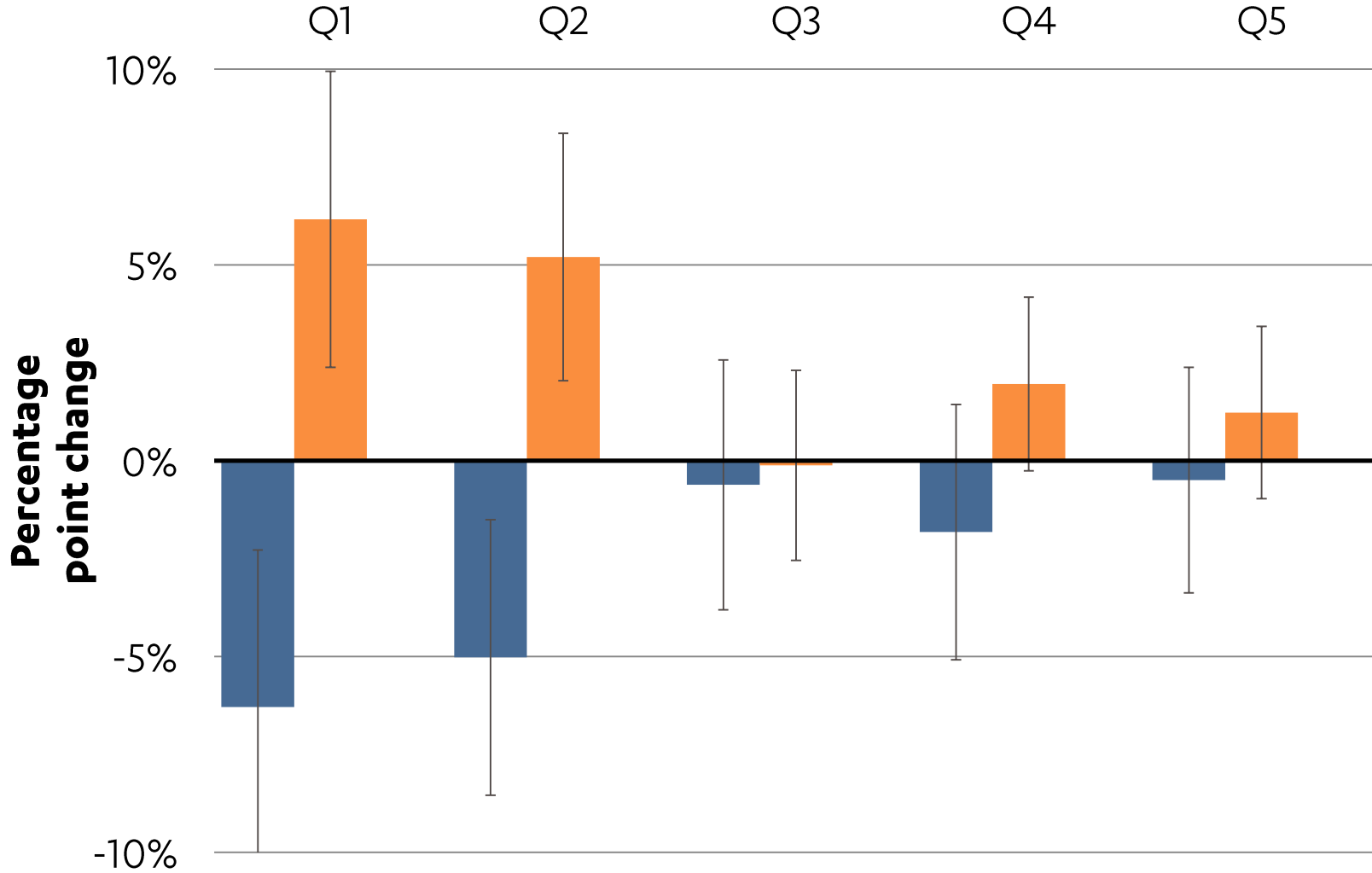


2x
more

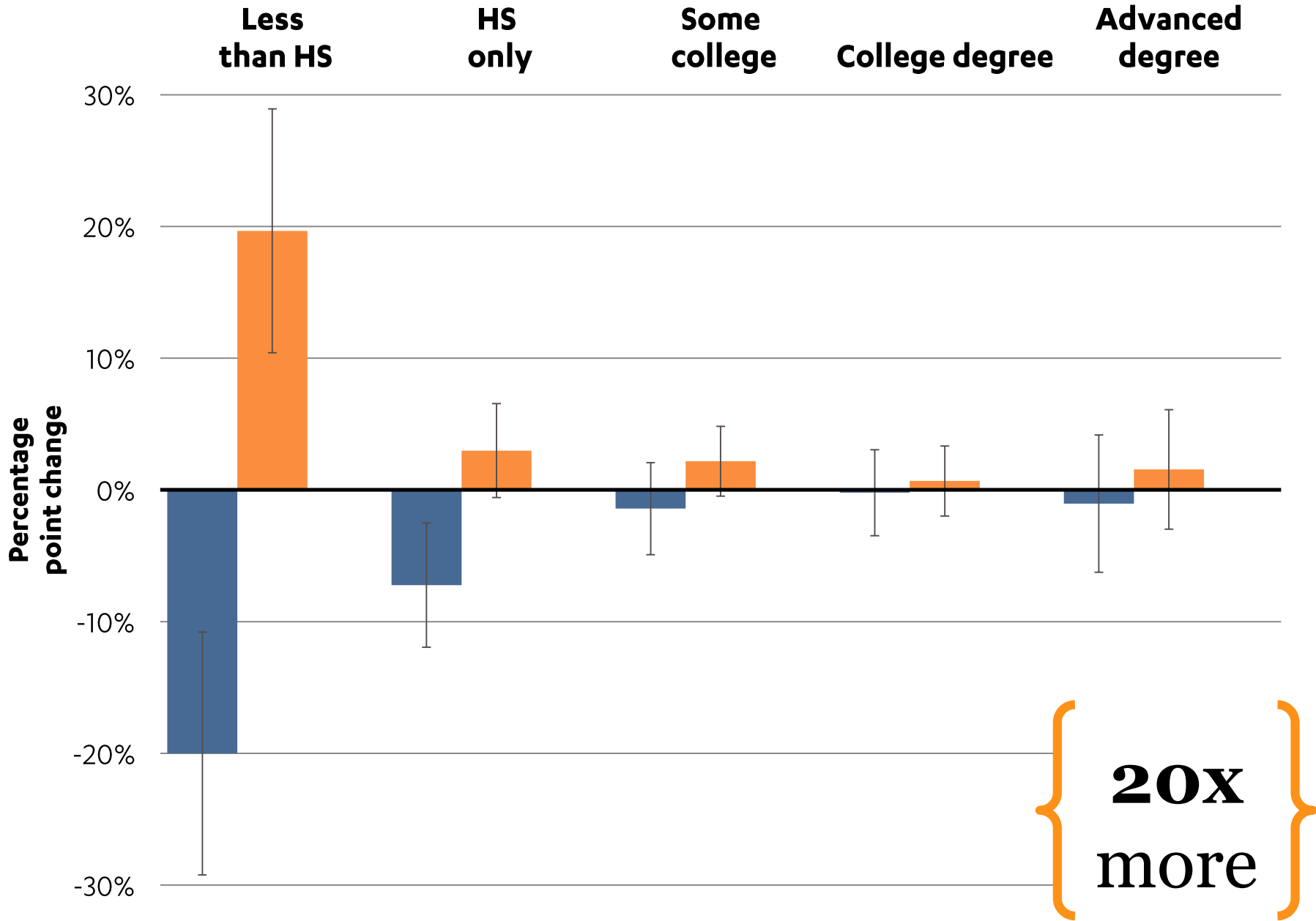
Change 1995 to 2009

By household income quintile

6x
more



Change 1995 to 2009

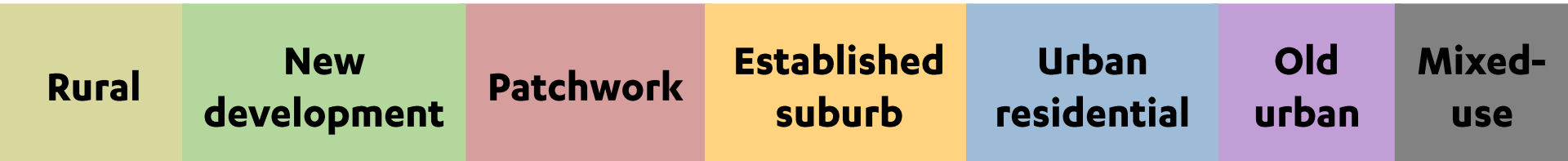
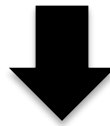
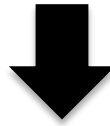
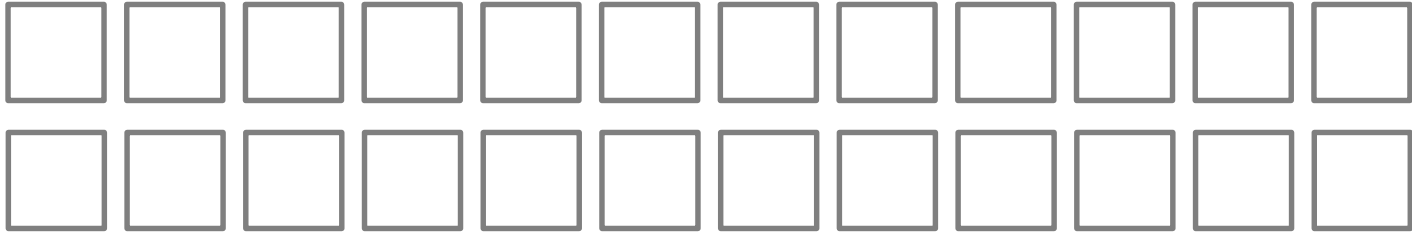


✓ Constraints or preferences?

□ Travel and the built environment

☐ Travel and the built environment

- ☐ Neighborhood types



Rural





New development



Patchwork



Established suburb



Urban residential



Old urban

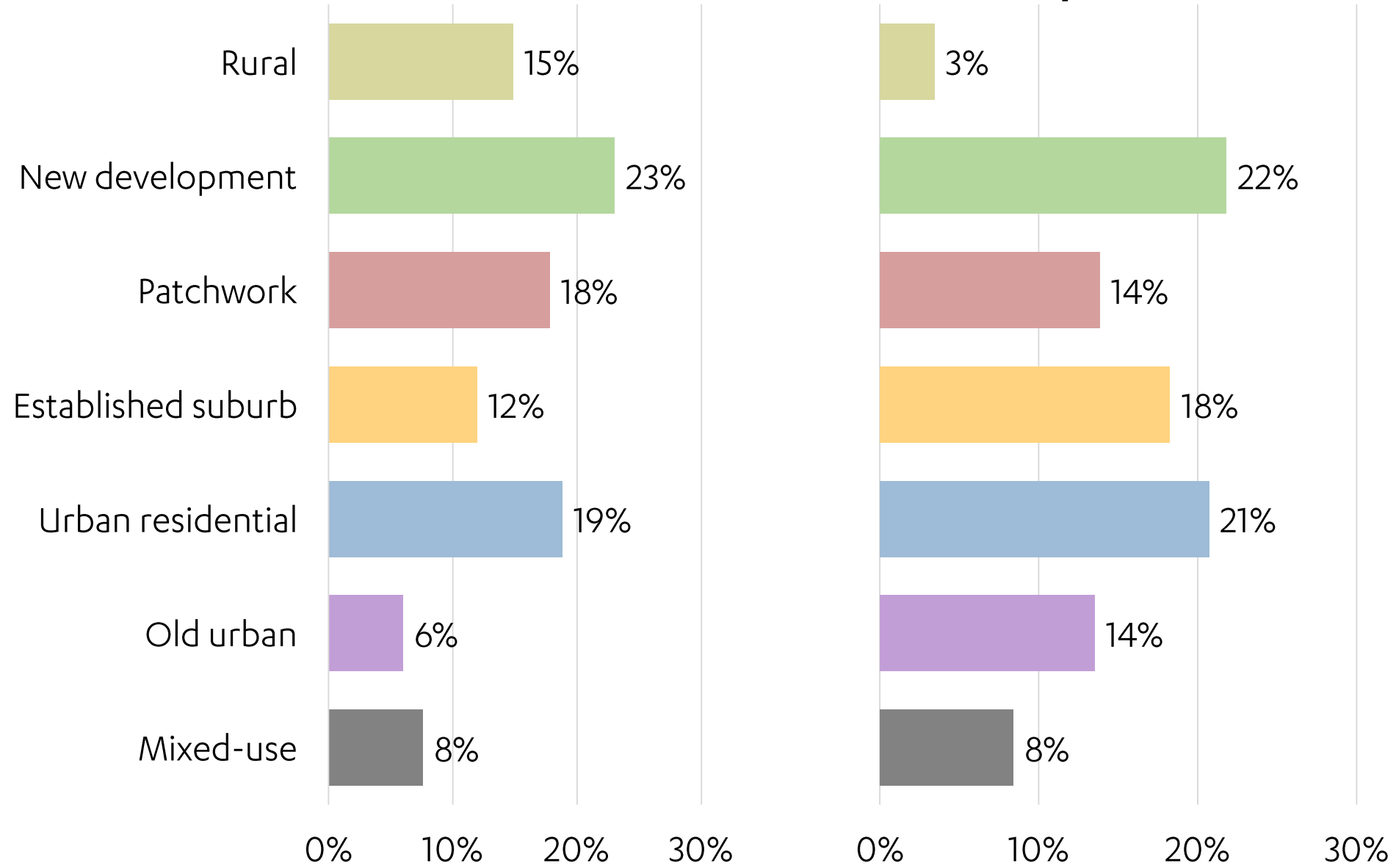


Mixed-use

Share of young adults (Age 20 to 34) by neighborhood type

In the United States

In the Largest 25 Metropolitan Areas



☐ Travel and the built environment

- ✓ Neighborhood types

Rural

**New
development**

Patchwork

**Established
suburb**

**Urban
residential**

**Old
urban**

**Mixed-
use**

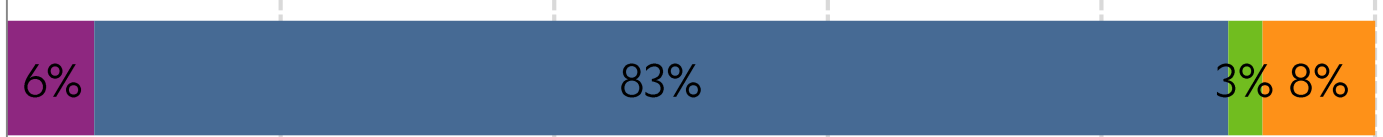


Trekkers Drivers Multimodals Car-less

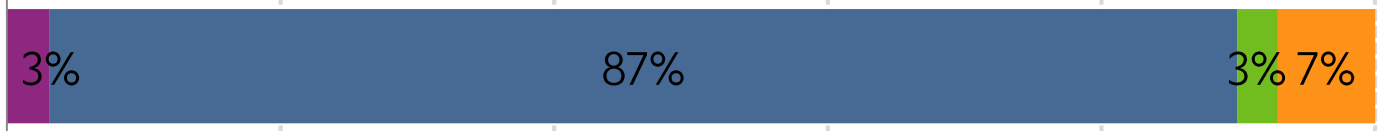
Share of young adults

0% 20% 40% 60% 80% 100%

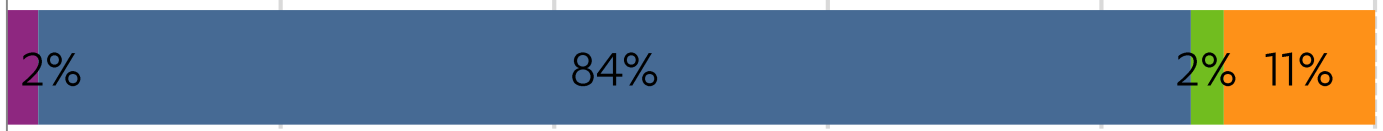
Rural



New development



Patchwork



Established suburbs



Urban residential



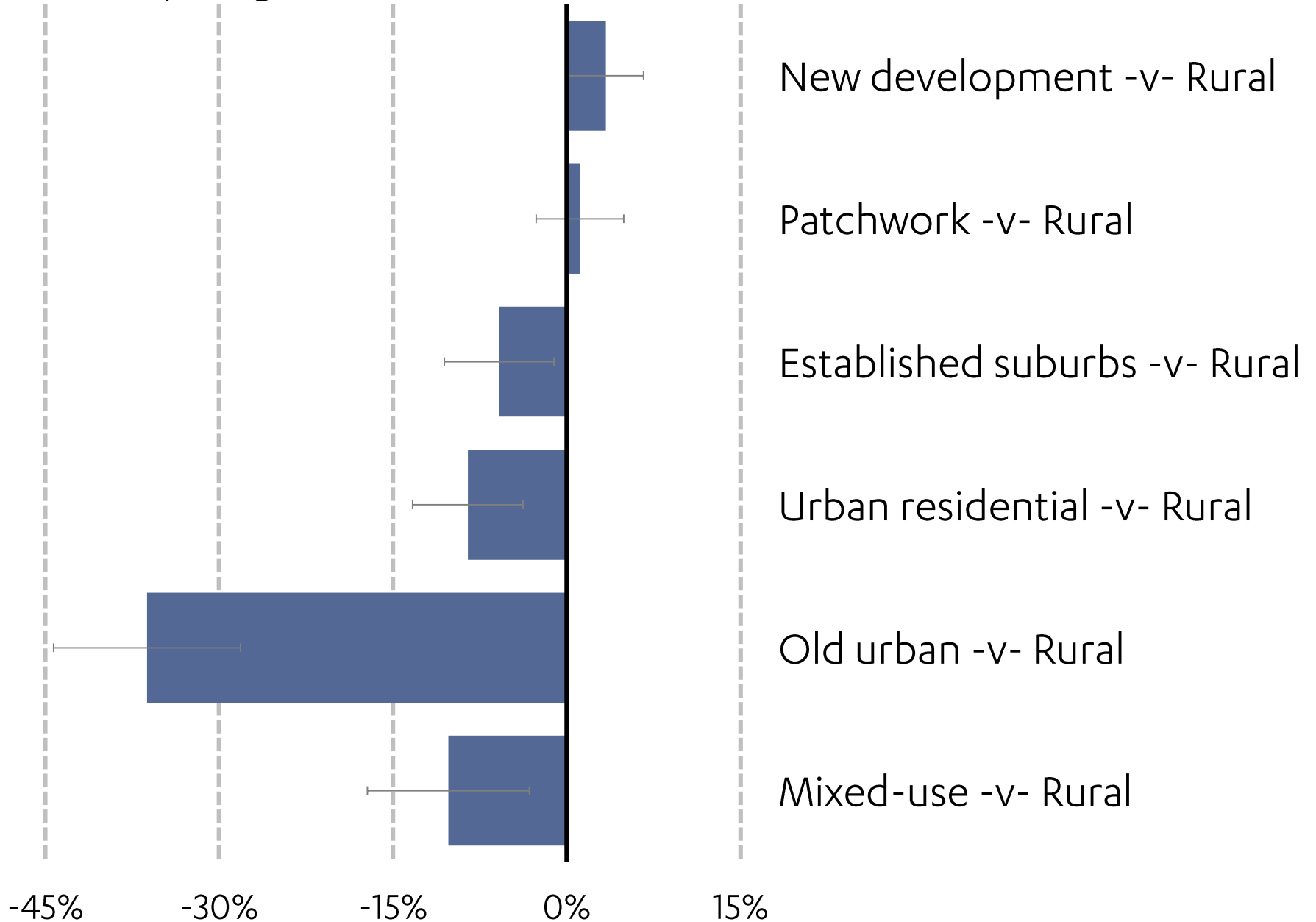
Old urban



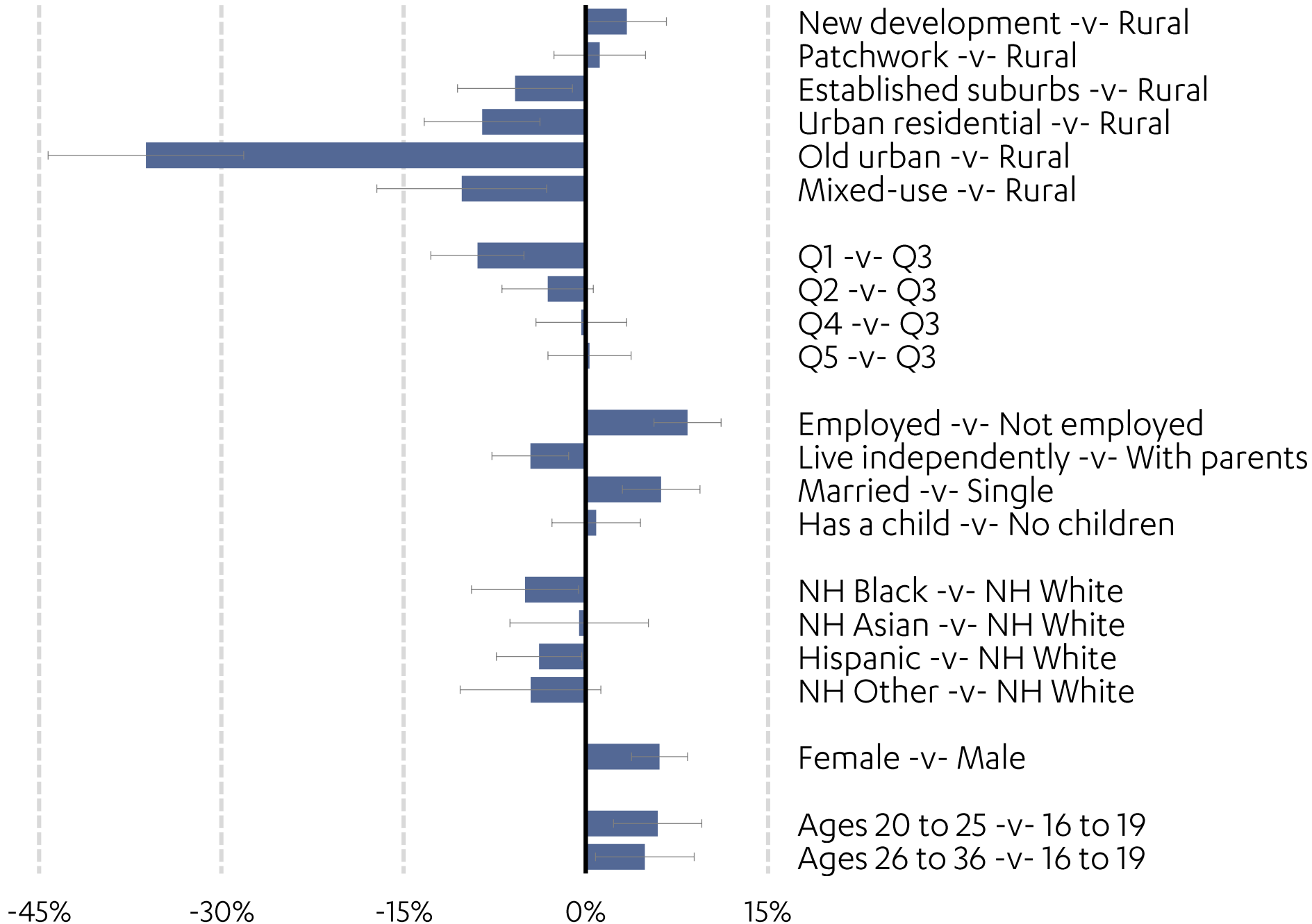
Mixed-use



Percentage point difference in share of young adults that are Drivers



Drivers



✓ Travel and the built environment

Are Millennials heading back-to-the-city?

❑ Are Millennials heading back-to-the-city?

How many more/fewer young people (ages 20 to 34) lived in each type of neighborhood in 2010 than in 2000?

4.2 million more young people in urban neighborhoods



in 2010 than in 2000.

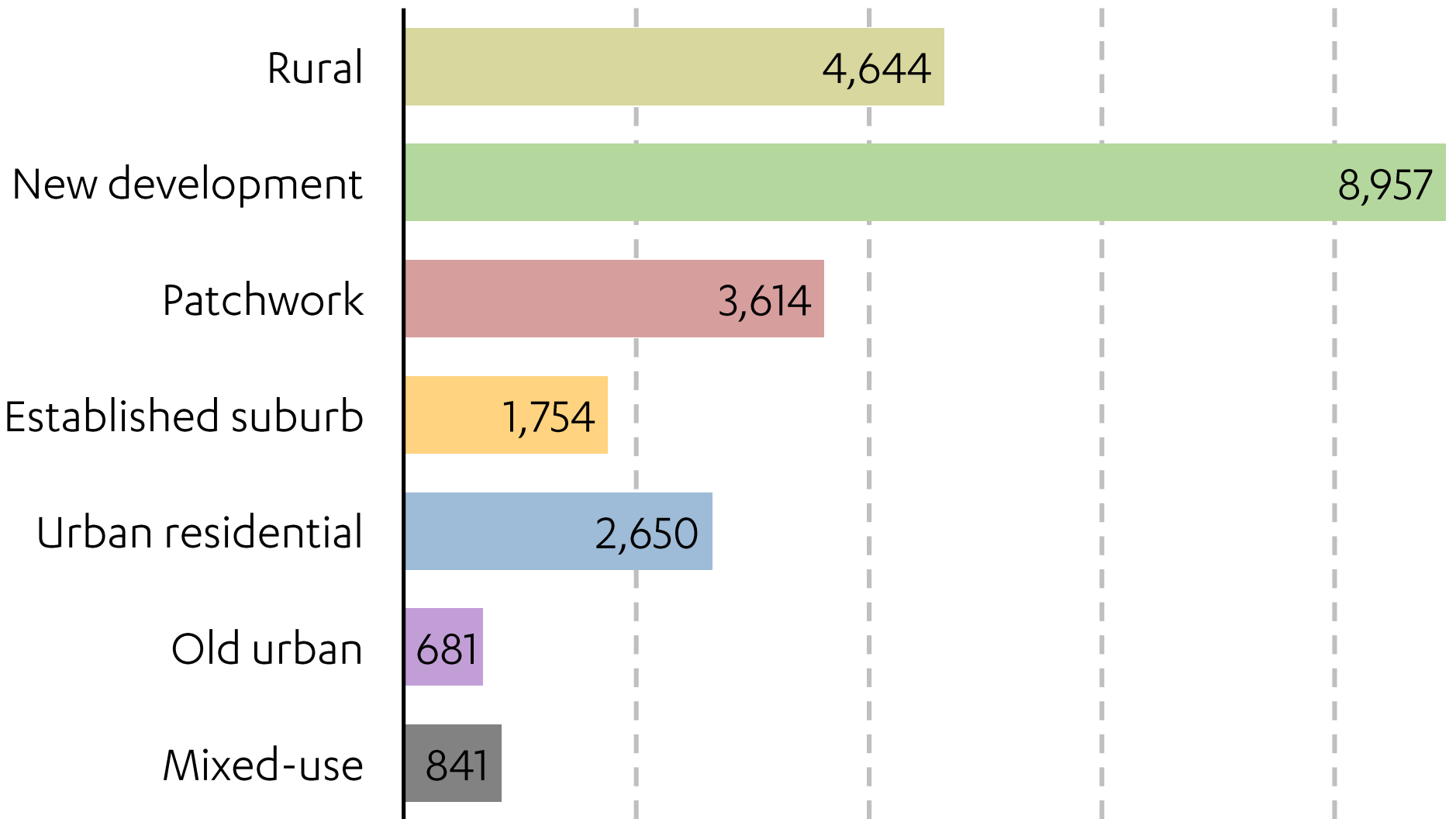
14.3 million more young people in suburbs



in 2010 than in 2000.

Change in population (thousands)

0 2,000 4,000 6,000 8,000



**Is there unambiguous urban
growth in some areas?**



**Urban
growth**

Boston

New York

Pittsburgh

An aerial photograph of a suburban residential area with a large mountain range in the background. The houses are arranged in a grid pattern with dark roofs. The mountains are rugged and have some snow on their peaks. The sky is blue with some clouds.

**Suburban
growth**

Atlanta

Charlotte

Dallas

Houston

Phoenix

San Antonio

Tampa

Mixed



Baltimore

Chicago

Denver

Detroit

Los Angeles

Miami

Minneapolis

Philadelphia

Portland

San Diego

San Francisco

Seattle

St. Louis

Washington DC

A Recap

- ✓ The four types of Millennial travelers

A Recap

- ✓ The four types of Millennial travelers
- ✓ Constraints or preferences?

A Recap

- ✓ The four types of Millennial travelers
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A Recap

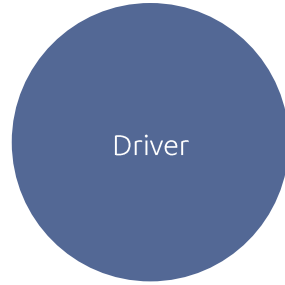
- ✓ The four types of Millennial travelers
- ✓ Constraints or preferences?
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- ✓ Is a back-to-the-city movement underway?

Thank you.

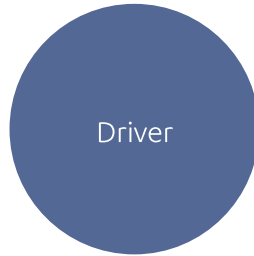
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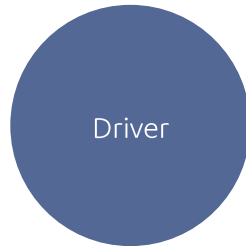
Two classes



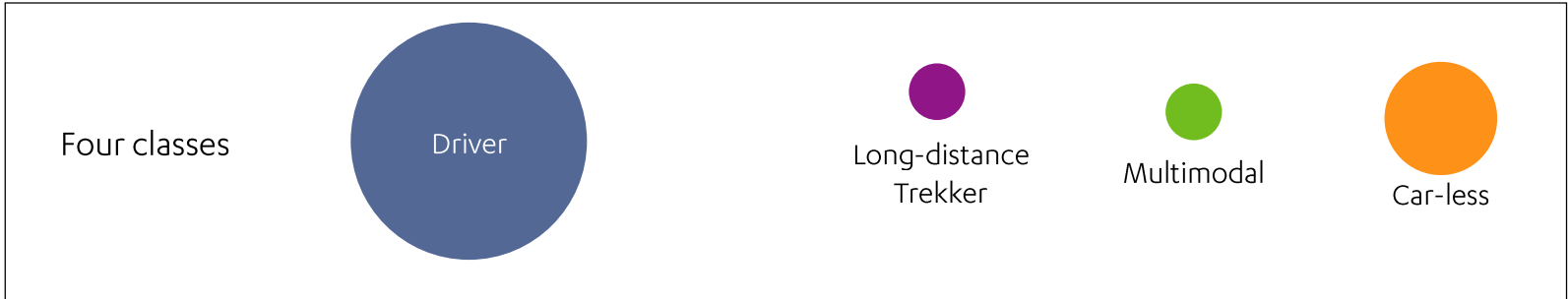
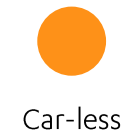
Three classes



Four classes



Five classes

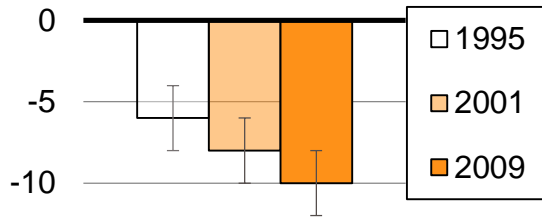


Another indirect test

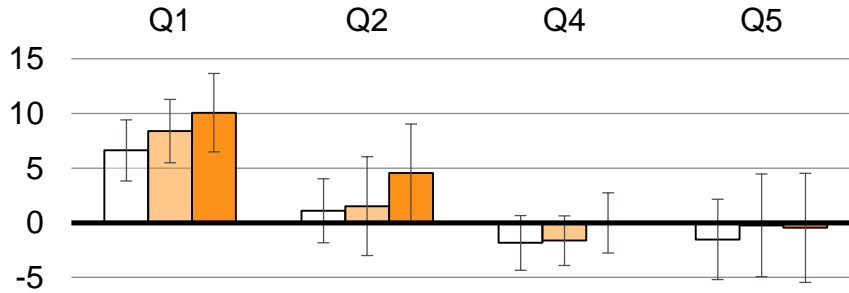
If preferences were indeed the primary cause of the decline, then over time, being Car-less would have less to do with resources.

Change in proportion Car-less relative to base

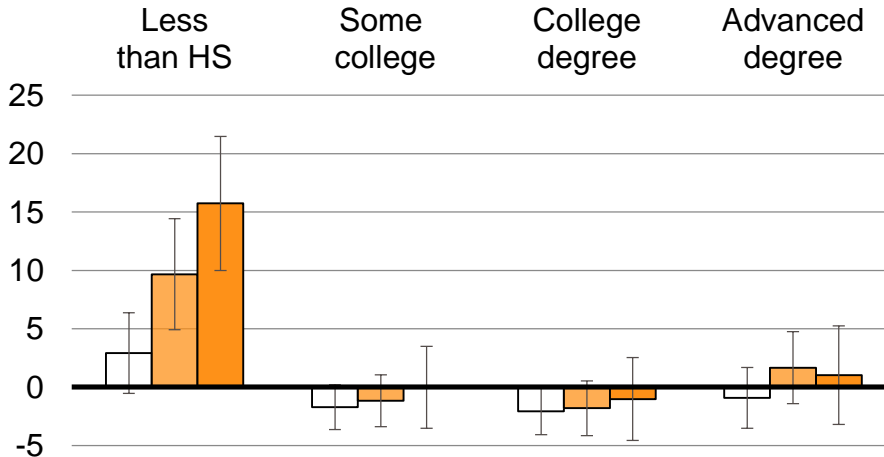
Employed (Base: Not employed)



Household income quintile (Base: Q3)



Educational attainment (Base: High school only)



The gap between the haves and the have nots is widening.