



Older, Smaller, Better

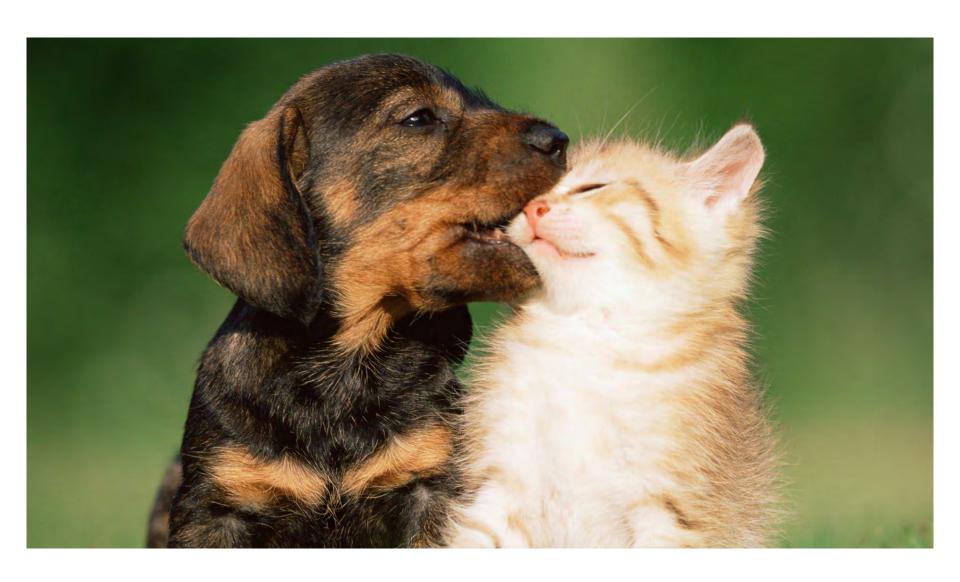
Community Character and Vitality

Michael Powe, Ph.D., Associate Director of Research **Preservation Green Lab**

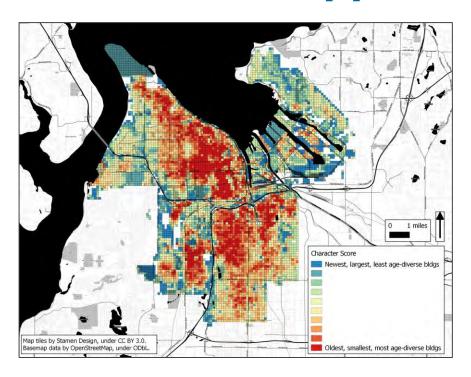
TULSA, OKLAHOMA MARCH 17, 2016

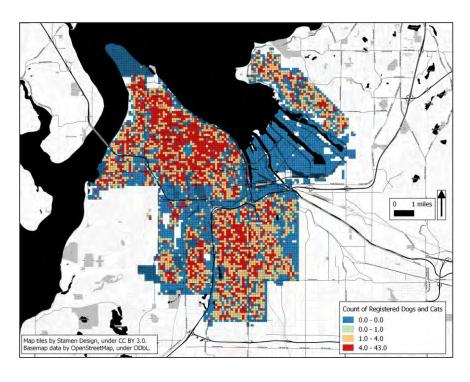
Agree / Disagree

- A) Reusing old buildings keeps Tulsa's history alive and visible.
- B) Reusing old buildings is a smart way to reduce waste and strengthen the efficiency of cities.
- C) Reusing old buildings fosters walkable neighborhoods where people like to spend their free time.
- D) Reusing old buildings helps Tulsa become a denser city where people from a variety of backgrounds can afford to live and work.
- E) Reusing old buildings is a smart way to provide homes for puppies and kittens.



Reusing Old Buildings Supports Puppies and Kittens





There is a clear, significant statistical link between the presence of older, smaller buildings and the number of registered cats and dogs.





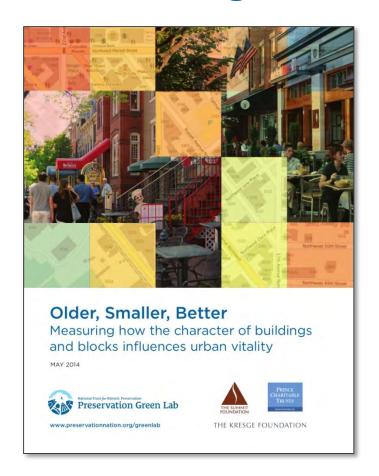


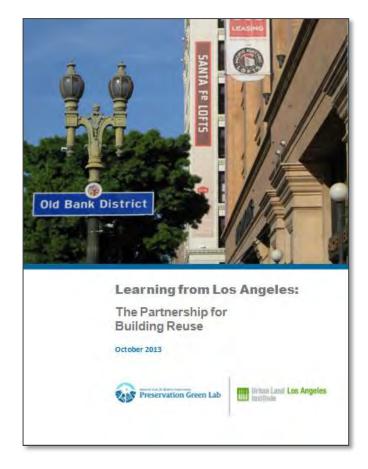


PRESERVATION GREEN LAB

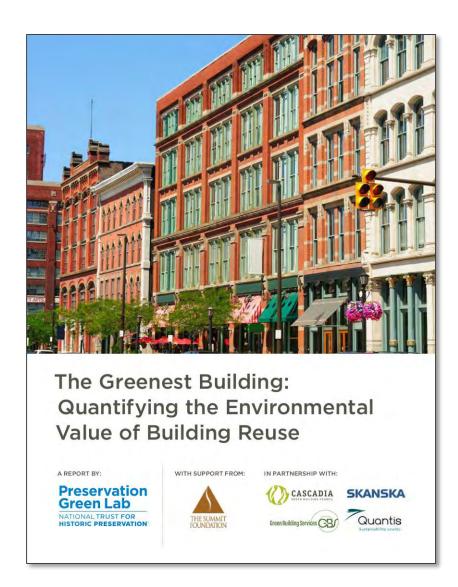
strengthens the fabric of communities by capitalizing on the inherent value of their built assets to improve social, environmental and economic performance.

Demonstrating Value + Advocating for Reuse





Broaden the scope of preservation by showing what a big difference older, smaller buildings and building reuse make

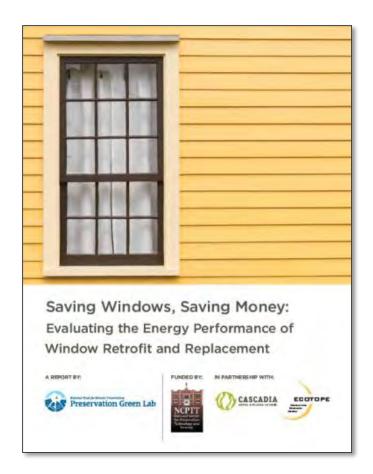


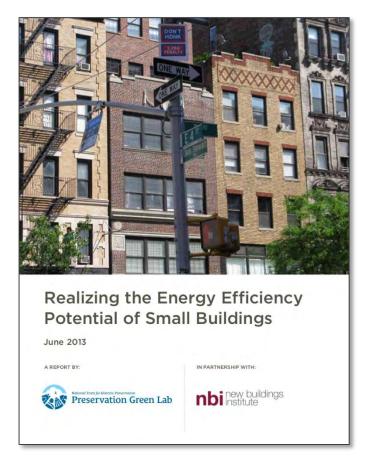
Green Lab Research

Demonstrating the Value of Building Reuse

It can take between 10 to 80 years for a new, energy efficient building to overcome, through efficient operations, the climate change impacts created by its construction.

Energy Efficiency + Old Buildings





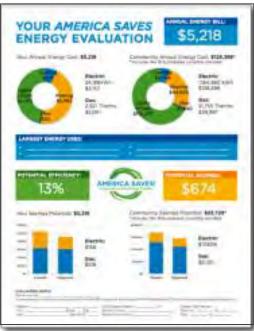
Tremendous energy and cost savings can be realized by retrofitting existing windows and existing buildings.

Energy Efficiency + Old Buildings

Retrofitting Districts of Small Commercial Buildings

The Green Lab received a 3-year, \$2M grant from the Department of Energy to work with Main Street organizations, utilities, property owners and local businesses to encourage energy conservation retrofits of small commercial buildings across the country.









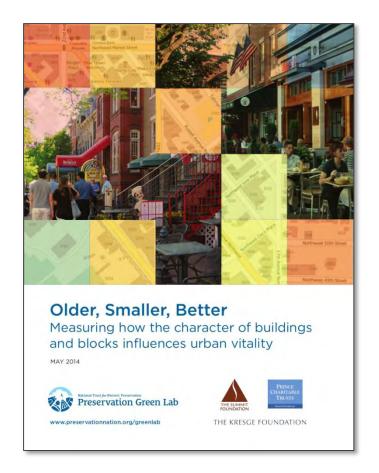


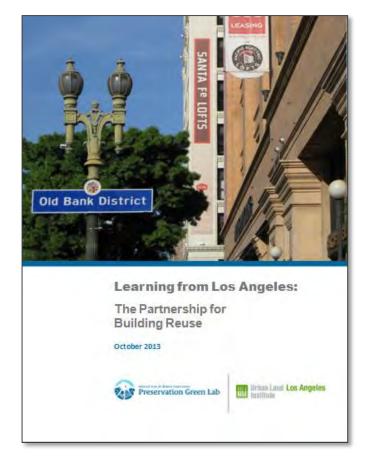
Energy Efficiency + Old Buildings

Outcome-based energy codes

The Green Lab pushed for a major revision to Seattle's energy code that allows developers and building owners to green their buildings and abide by the city code through the building's actual performance.

Demonstrating Value + Advocating for Reuse





Broaden the scope of preservation by showing what a big difference older, smaller buildings and building reuse make

Demonstrating Value and Advocating for Reuse



Broaden the scope of preservation by showing what a big difference older, smaller buildings and building reuse make





Carl Elefante, 2007:

"The greenest building is one that is already built."



"Cities need old buildings so badly it is probably impossible for vigorous streets and districts to grow without them."

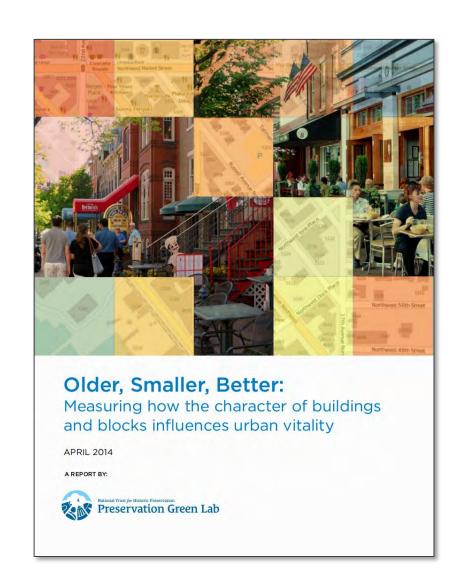


Ed Glaeser, 2011:

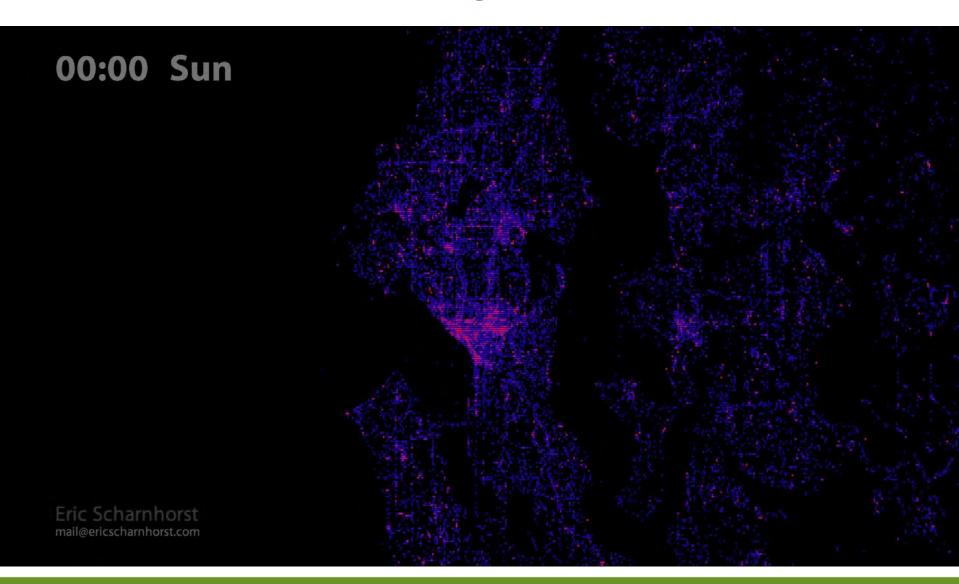
"Restricting construction ties cities to their past and limits the possibilities for their future."

Older, Smaller, Better Project Overview

- OBJECTIVE: Test Jane Jacobs' hypothesis that diverse city fabric supports greater vitality and opportunity
- Used newly available data to assess the social, cultural, and economic value of older, smaller buildings
- Focused on Seattle, San
 Francisco, and Washington D.C.

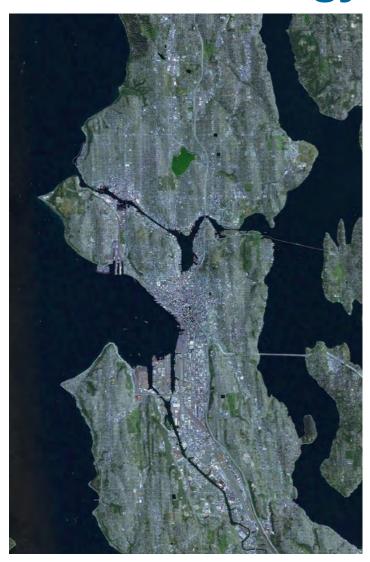


Measures of Livability



Measures of Livability







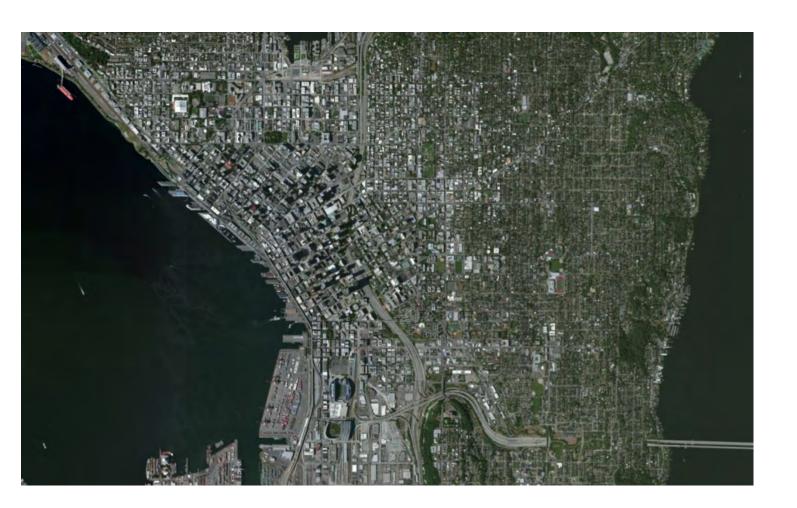
Overlaid 200m x 200m grid



- Overlaid 200m x 200m grid
- Focused on mixed-use corridors

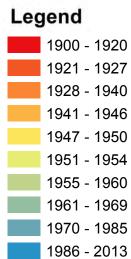


- Overlaid 200m x 200m grid
- Focused on mixed-use corridors
- Measured key features
 of the built fabric:
 building age, diversity of
 building age, granularity

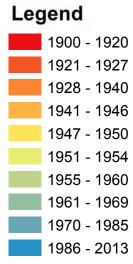




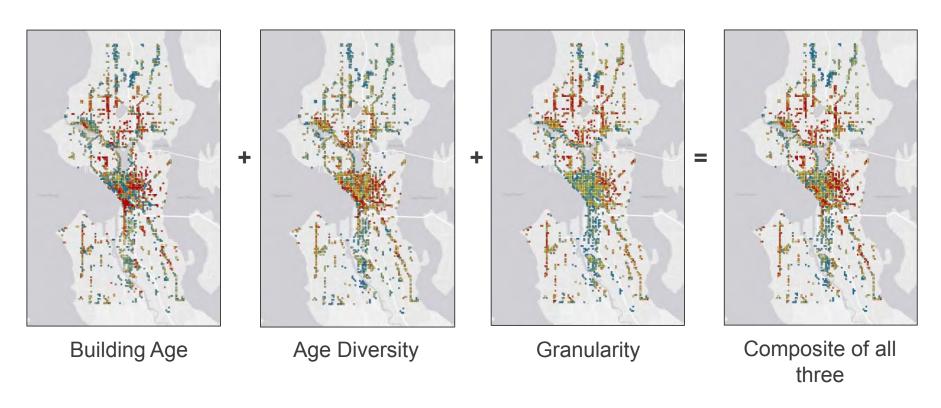








Measures of City Fabric



Our composite measure = "Character Score"

Low Character Score

- Newer buildings
- Larger buildings



Less age diversity



High Character Score

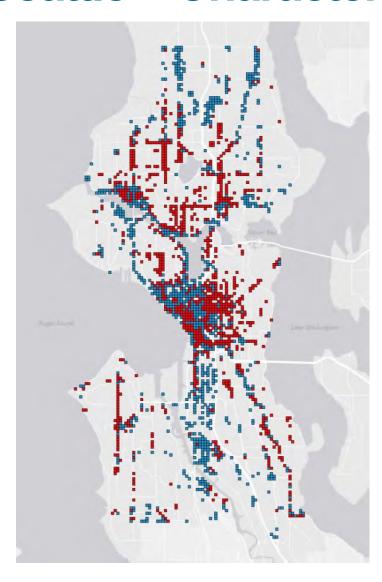
- Older buildings
- Smaller buildings



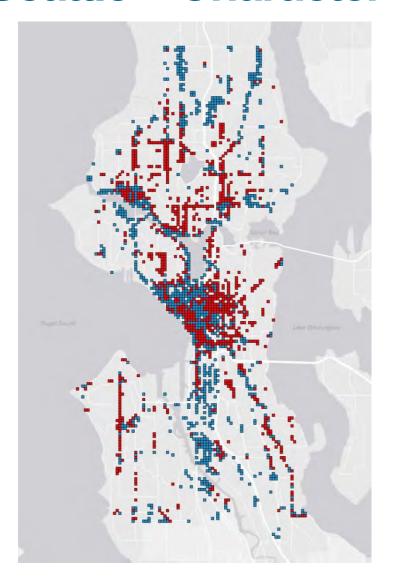




Seattle – Character Score



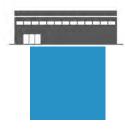
Seattle – Character Score





Older, smaller, more age-diverse buildings

Average Walk Score = 83.6



Newer, larger, less age-diverse buildings

Average Walk Score = 78.1

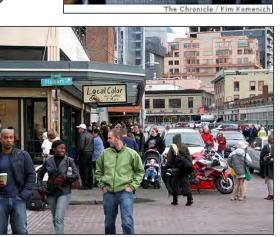
Older, Smaller, Better: Measuring how the character of buildings and blocks influences urban vitality

Major Findings

Older, mixed-use neighborhoods are more walkable.

In Seattle and San Francisco, older neighborhoods with a mixture of small old and new buildings have a significantly higher Walk Score and Transit Score than neighborhoods with large, new buildings.



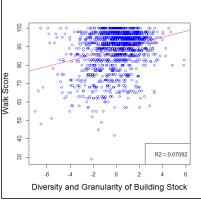






Photos: Walking and Transit in San Francisco (top right by Kim Komenich, SF Chronicle; bottom left from Flickr); Seattle (bottom right from worldchanging.com); Map: Walkscore in the Mission District, San Francisco





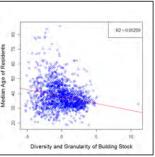


Young people love old buildings.

In Seattle, San Francisco, and Washington D.C., the median age of residents in areas with a mix of small, old and new buildings was significantly lower than in areas with larger, predominantly new buildings.

Pictured: Capitol Hill Block Party on Pike St., Seattle, WA; Credit: KEXP Blog; Map: Median Age of Residents, 3rd and 4th St NE, Washington D.C.

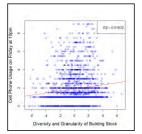




Nightlife is most alive on streets with a diverse range of building age.

San Francisco and D.C. city blocks comprised of buildings from different eras host greater activity on Friday nights.





Seattle's Pike-Pine Corridor - Cell phone usage at 10pm on a Friday night



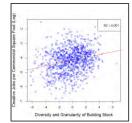
Right: H Street NE, Washington D.C., Amanda Voisard; Below: Pine and 11th, Seattle, WA, Michael Hanscom



The creative economy thrives in older, mixeduse neighborhoods.

Seattle and D.C., mixed-use neighborhoods with a mix of old and new buildings are significantly more likely to house creative companies and creative jobs.





Creative jobs per commercial square foot (log) – Seattle, WA (Red = High performance; Blue = Low performance)

Pictured: Urban Outfitters corporate offices in Philadelphia (Inhabitat); Graham Baba Architects studio in Seattle (Picasa)



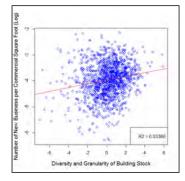




Older business districts offer opportunities for entrepreneurs of all backgrounds.

In Seattle and Washington D.C., neighborhoods with a finegrained mix of old and new buildings host a significantly higher proportion of new businesses and women and minority-owned businesses than areas with predominantly larger, newer buildings.





New businesses per commercial square foot (log) - San Francisco (Red = High performance; Blue = Low performance)

Pictured: E. Smith Mercantile, Pioneer Square, Seattle, WA Credit: Mike Powe, above; Hien Dang, Alliance for Pioneer Square right.







2x WOMEN AND MINORITY OWNERSHIP

Areas of Seattle with older, smaller, more age-diverse buildings have more than twice the rate found in areas with mostly newer, larger buildings.



Oldest, most diverse & finest-grained buildings



Newest, largest, least age-diverse buildings



19.2%

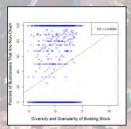


9.5%

Older, smaller buildings provide space for a strong local economy.

In Seattle, San Francisco, and Washington, D.C., streets with a combination of small old and new buildings have significantly higher proportions of non-chain businesses and small businesses.





Percent of businesses that are locally owned - Washington D.C. (Red = High performance; Blue = Low performance)

Pictured: H Street in Washington D.C.

Credit: Ted Eytan (Flickr)









MORE NON-CHAIN ESTABLISHMENTS

There are significantly more non-chain businesses in areas of Washington, D.C. composed of older, smaller, more age-diverse buildings than in areas with mostly newer, larger buildings.



Oldest, most diverse & finest-grained buildings



Newest, largest, least age-diverse buildings

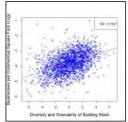




Older commercial and mixed-use districts contain hidden density.

In Seattle, San Francisco, and D.C., streets with a mix of old and new buildings have greater population density and more businesses per commercial square foot than streets with large, new buildings. In Seattle and D.C., those areas also had significantly more jobs per commercial square foot.





Businesses per commercial square foot (log) - Seattle, WA (Red = High performance; Blue = Low performance)

Pictured: Melrose Market in Seattle, WA. Credit: Graham Baba Architects







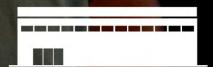
JOBS PER 1,000 SQ FT

36.8% MORE JOBS/SQ FT

There are more jobs per commercial square foot in areas of Seattle composed of older, smaller, more age-diverse buildings than in areas with mostly newer, larger buildings.



Oldest, most diverse & finest-grained buildings



Newest, largest, least age-diverse buildings





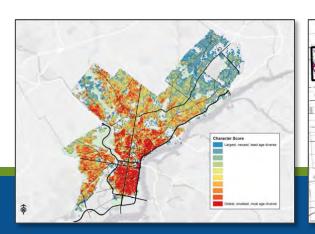
Older, Smaller, Better Evolution

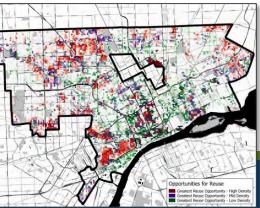
- Since publication of the original report in 2014...
 - Peer-reviewed publication in the Journal of the American Planning Association

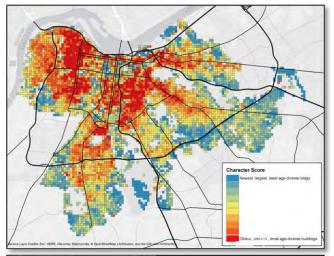


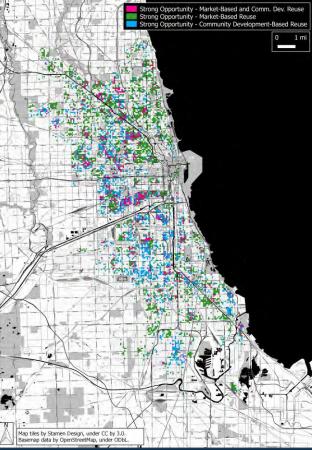
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 - Integration of mapping methodology into PGL's Partnership for Building Reuse



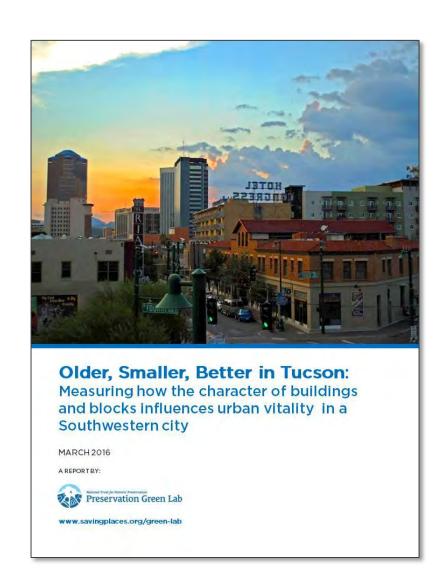






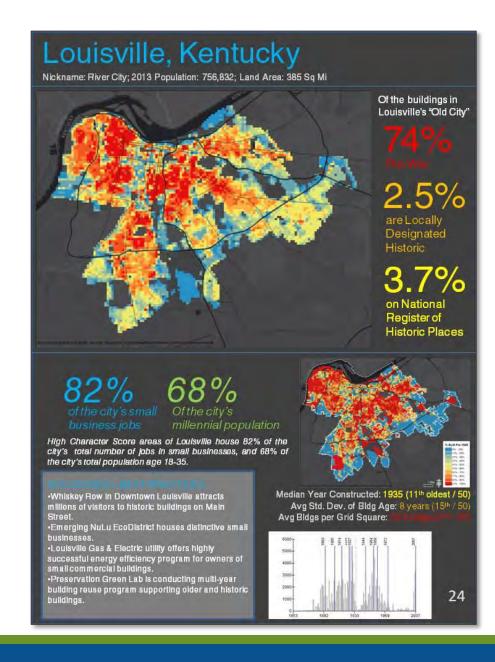
Older, Smaller, Better Evolution

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 - Peer-reviewed publication in the Journal of the American Planning Association
 - Integration of mapping methodology into PGL's Partnership for Building Reuse
 - Full scale analysis of Tucson, Arizona, with new variables of interest



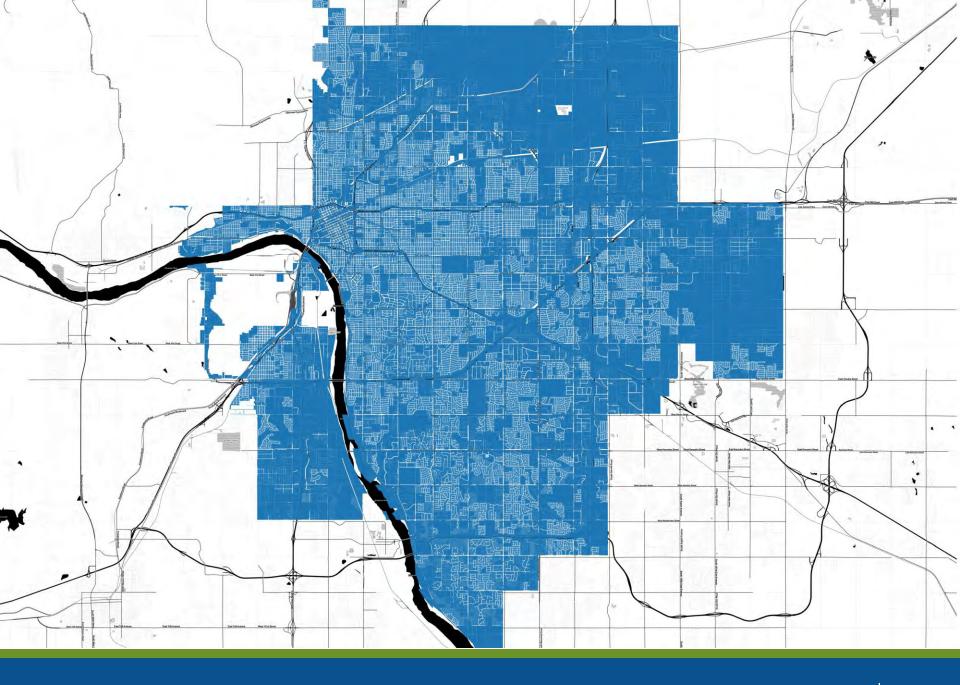
Urban Preservation Atlas

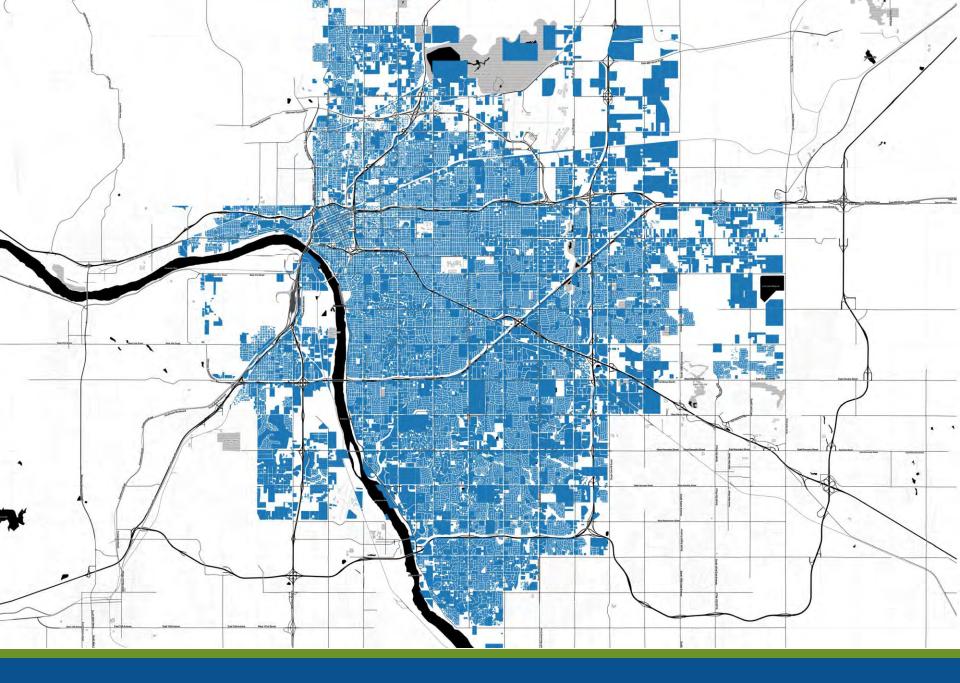
- Database and mapping platform
 - 50+ cities in 2016 and growing
 - Launch in November 2016
 - New types of analysis
 - Potential for solar power generation
 - New visualizations
 - Risk of sea level rise

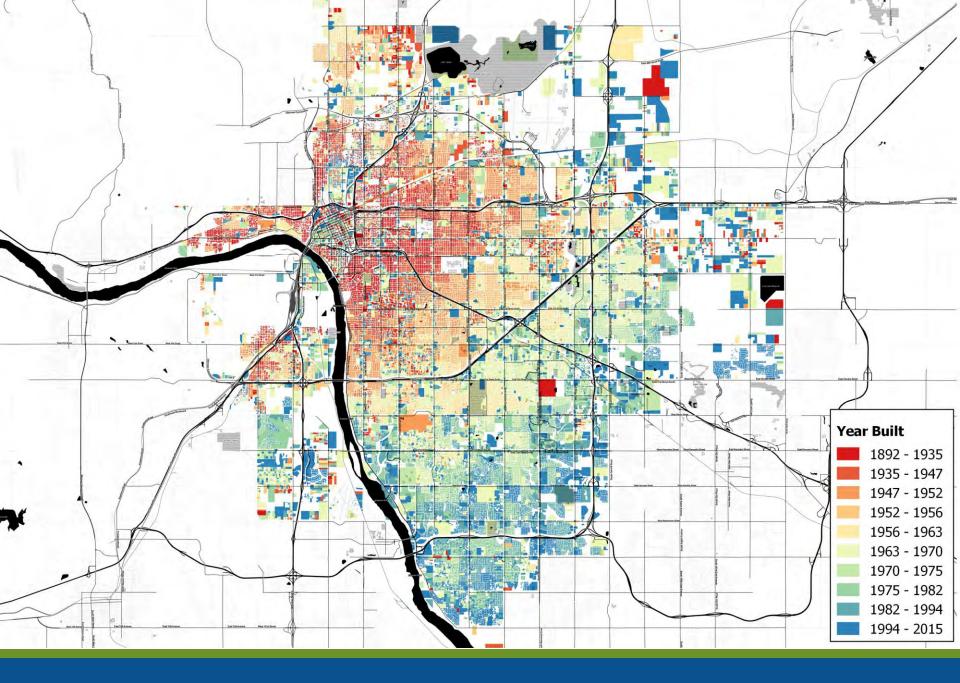


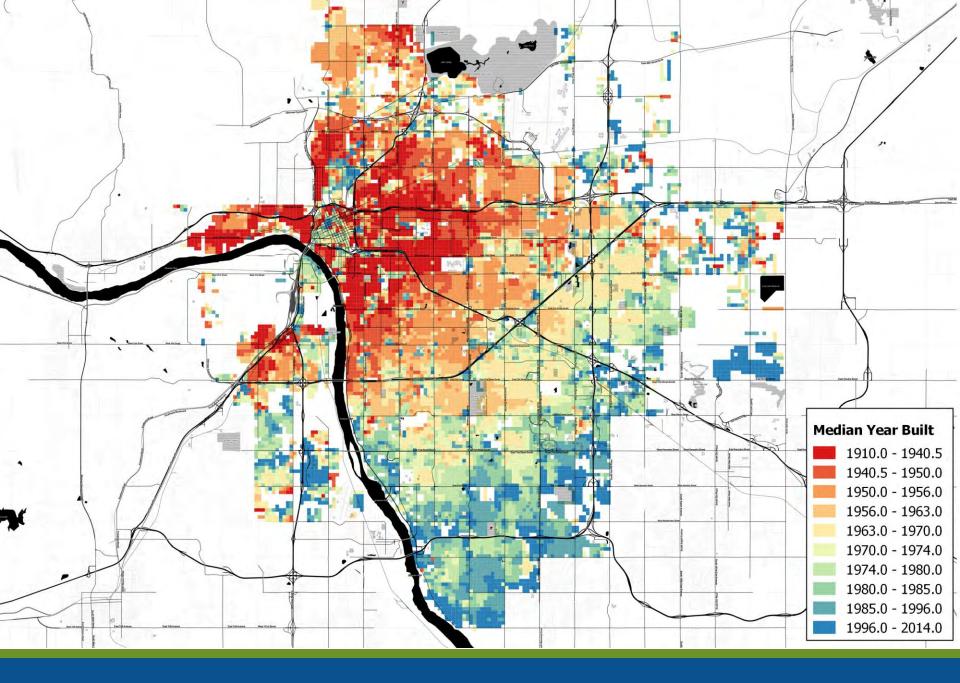
Older, Smaller, Better: Measuring how the character of buildings and blocks influences urban vitality

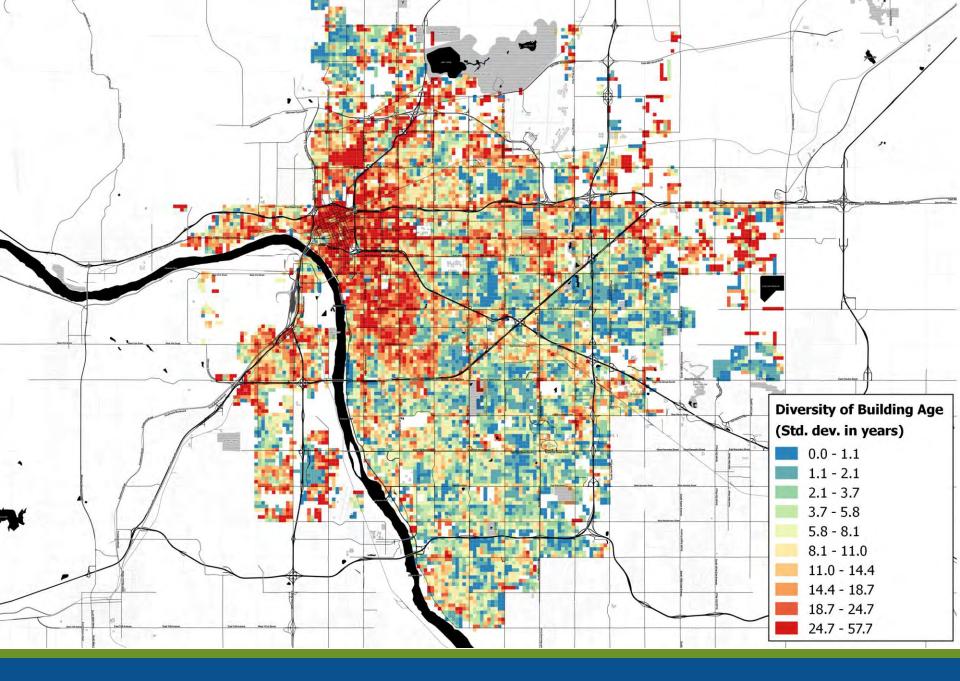
The Built Fabric of Tulsa

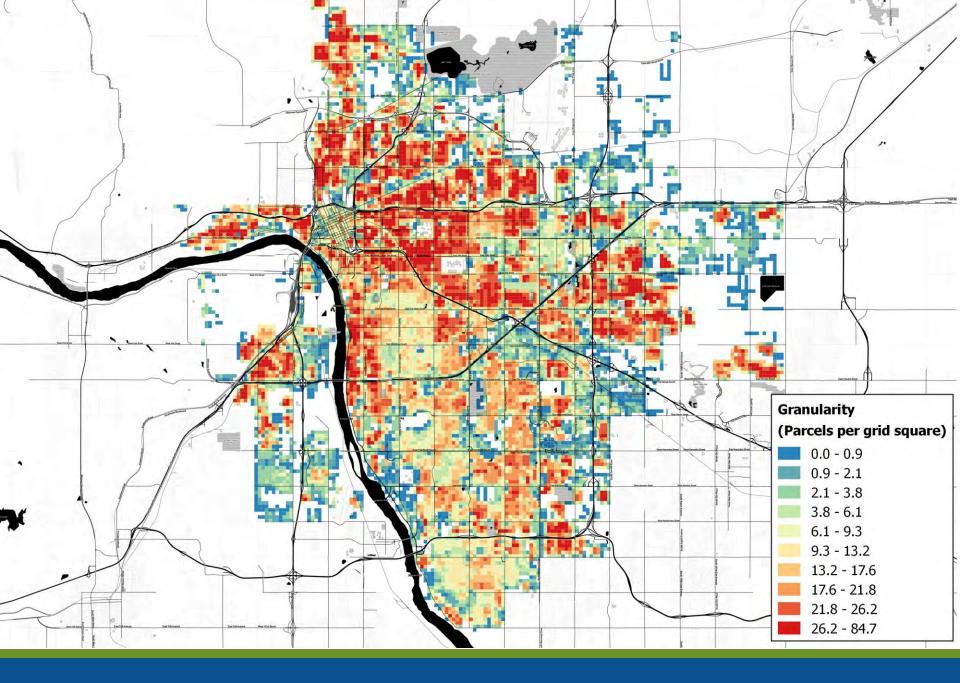


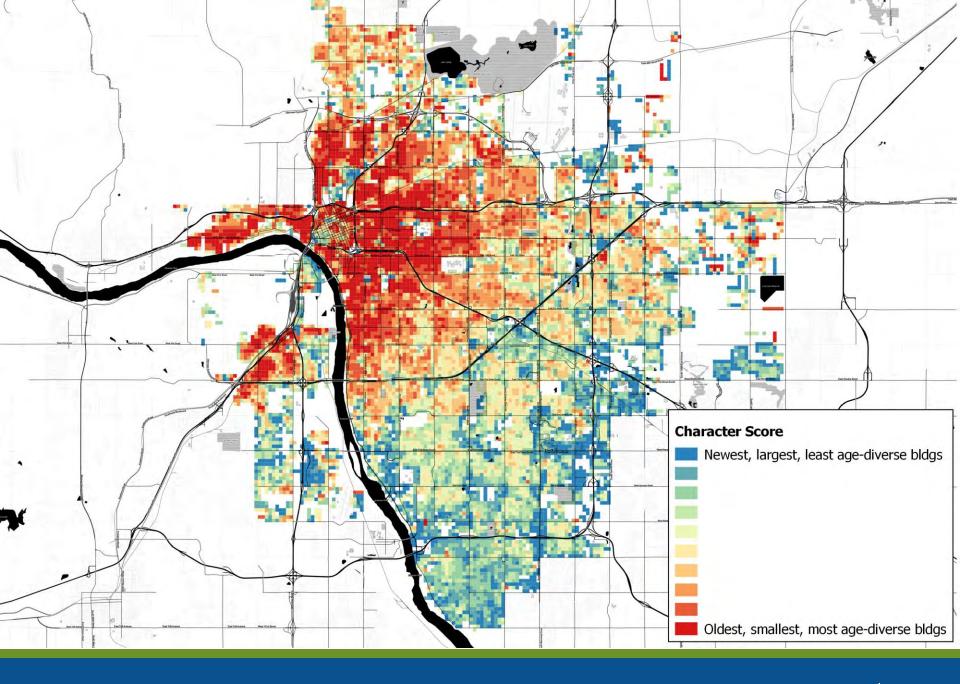


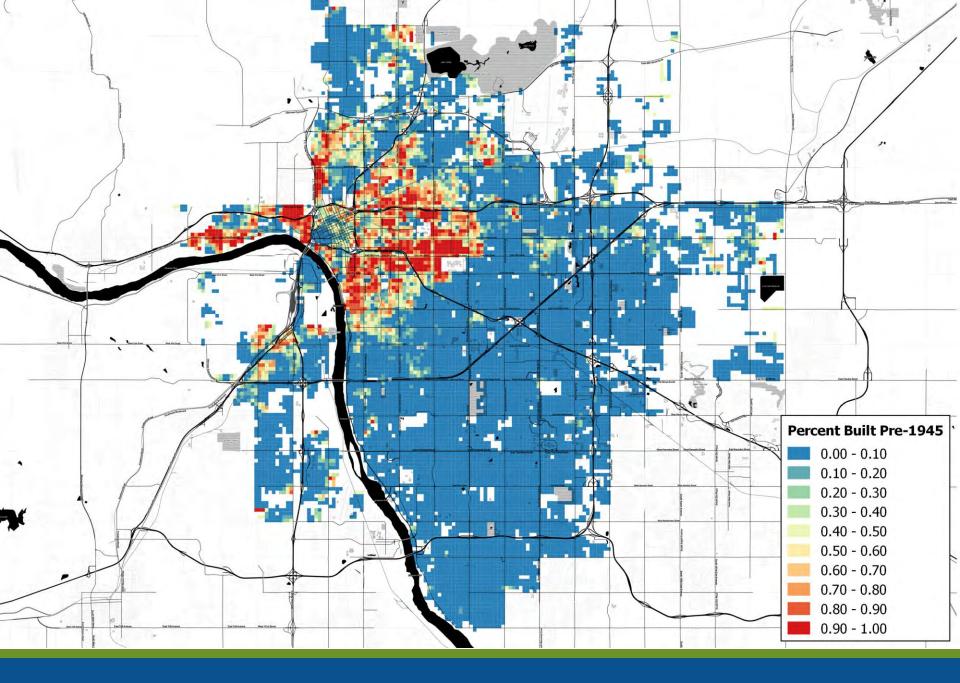


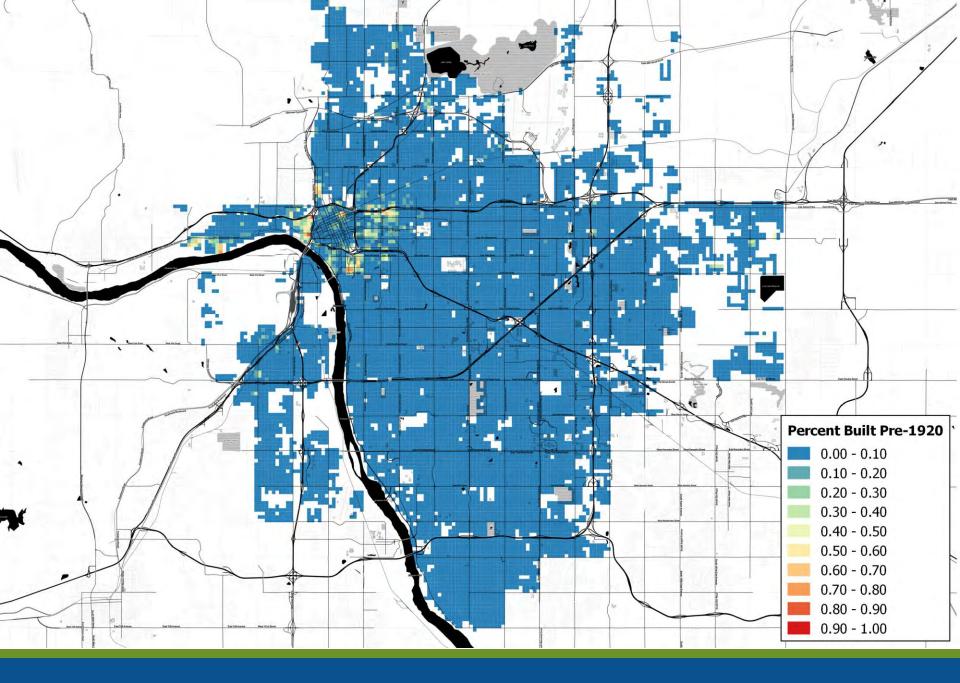














Key Implications

Character and scale of buildings matter.



Key Implications

Foster the existing strengths of great neighborhoods that work.

Photo: Fairhaven.com



Key Implications

Encourage reuse and infill in transitioning neighborhoods with 'good bones'

Photo: Kathleen Cooper, Tacoma News Tribune



Key Implications

Don't be afraid to mix old and new — just be smart about design

Photo: Jim Lindberg



Older, Smaller, Better

Measuring how the character of buildings and blocks influences urban vitality

MAY 2014







www.preservationnation.org/greenlab

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