



Untapped Potential:

Why Old Buildings Matter for 21st Century Cities

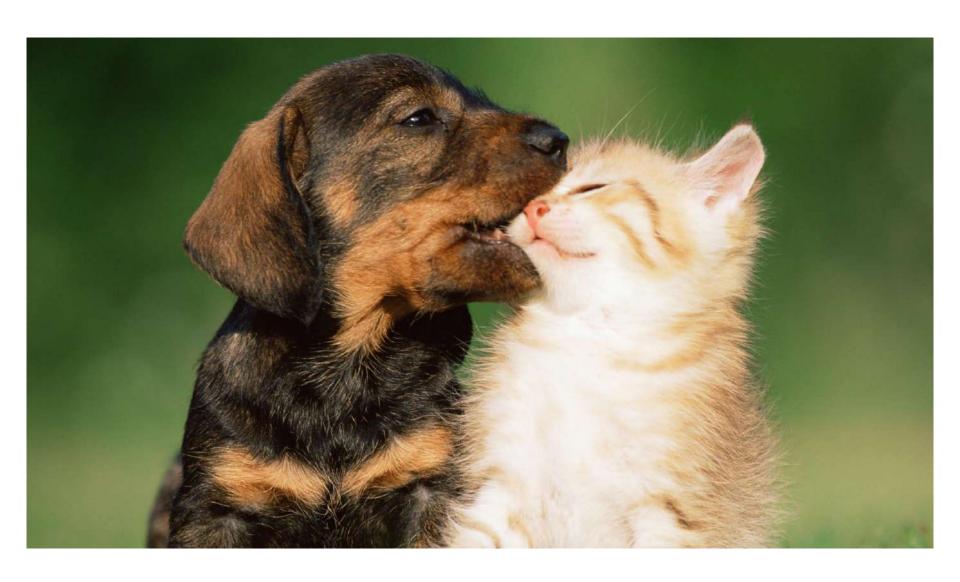
Carson Hartmann, Research Analyst

Preservation Green Lab

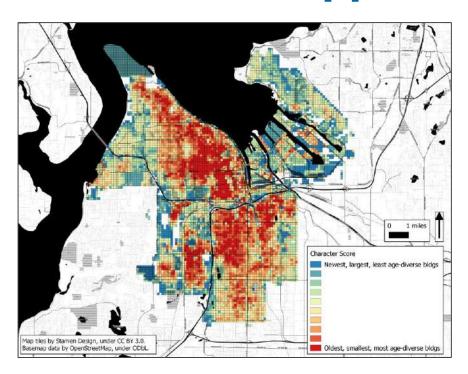
NEVADA PRESERVATION FOUNDATION FEBRUARY 8th, 2018

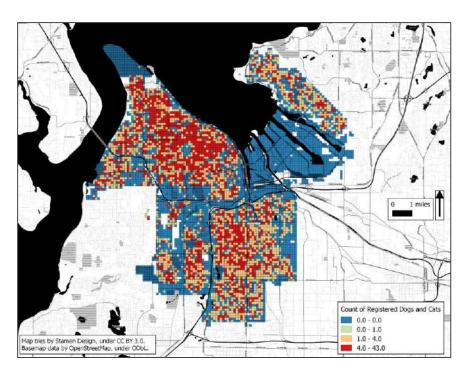
Agree / Disagree

- A) Reusing old buildings keeps my city's history alive and visible.
- B) Reusing old buildings is a smart way to address climate change.
- C) Reusing old buildings fosters walkable neighborhoods where people like to spend their free time.
- D) Reusing old buildings helps my city become a dense 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.



National Trust for Historic Preservation Preservation Green Lab









PRESERVATION GREEN LAB

promotes the conservation, reuse, and retrofitting of existing buildings as a powerful strategy for supporting community health, equity, and resilience.

PGL WORK

Exploration and Research

- GIS and statistical analyses
- Data visualizations
- Research briefs
- Blog Posts



Implementable Policy

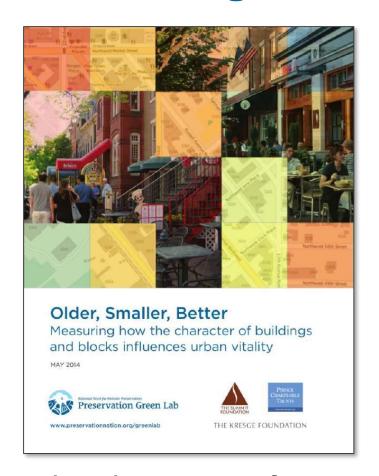
- National Treasures
- Partnership for Building Reuse
- ReUrbanism

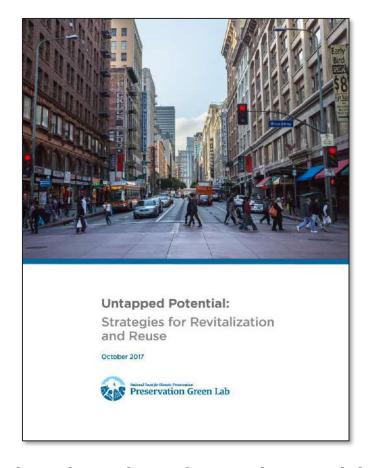
Defensible Positions

- Reports
- Peer Reveiwed Research
- Op-Eds



Demonstrating Value + Advocating for Reuse





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



Older, Smaller, Better

Measuring how the character of buildings and blocks influences urban vitality

MAY 2014

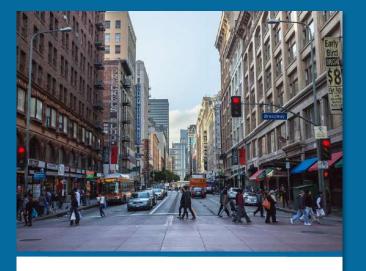






www.preservationnation.org/greenlab

THE KRESGE FOUNDATION



Untapped Potential:

Strategies for Revitalization and Reuse

October 2017

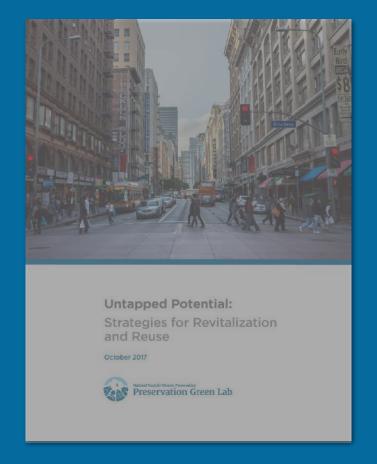


Why?



How?

Older, Smaller, Better Measuring how the character of buildings and blocks influences urban vitality MAY 2014 Preservation Green Lab THE KRESGE FOUNDATION www.preservationnation.org/greenlab

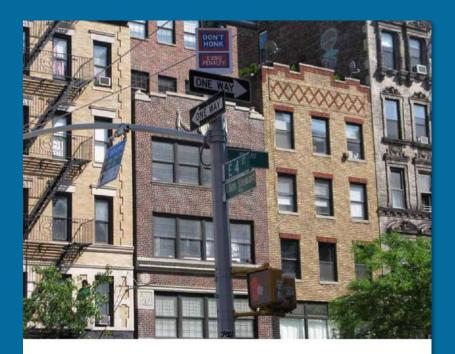


Why?



How?









Realizing the Energy Efficiency Potential of Small Buildings

June 2013

A REPORT BY:



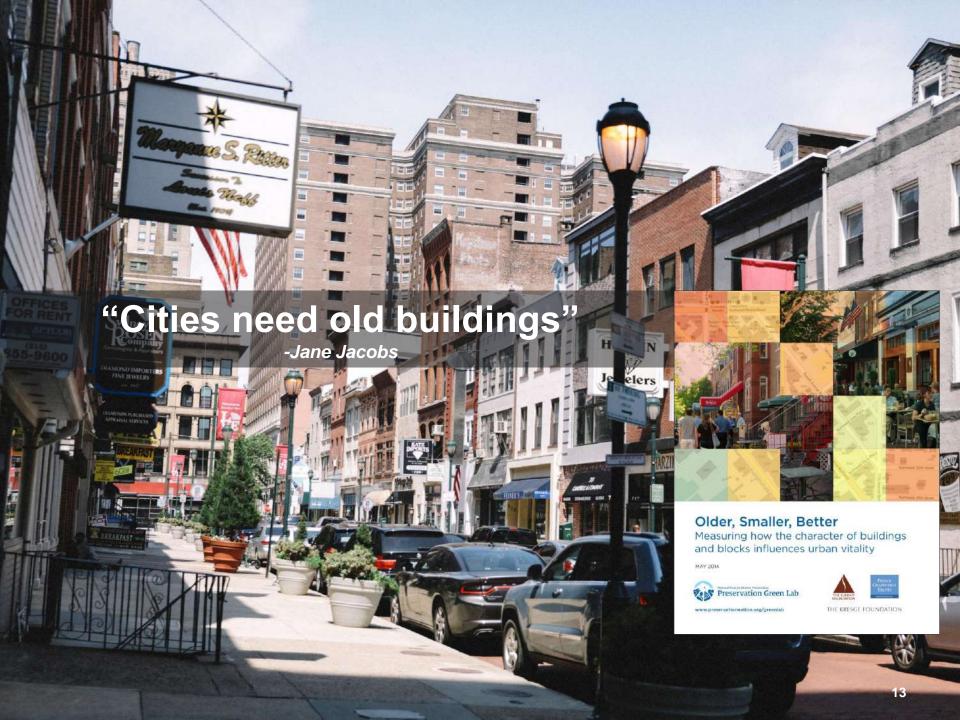
IN PARTNERSHIP WITH:





Quantify, Scope, Scale

"What are a city's buildings like? What are we working with?"





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

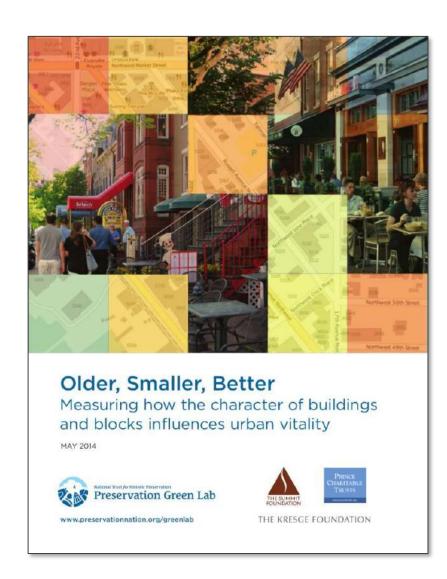


Ed Glaeser, 2011:

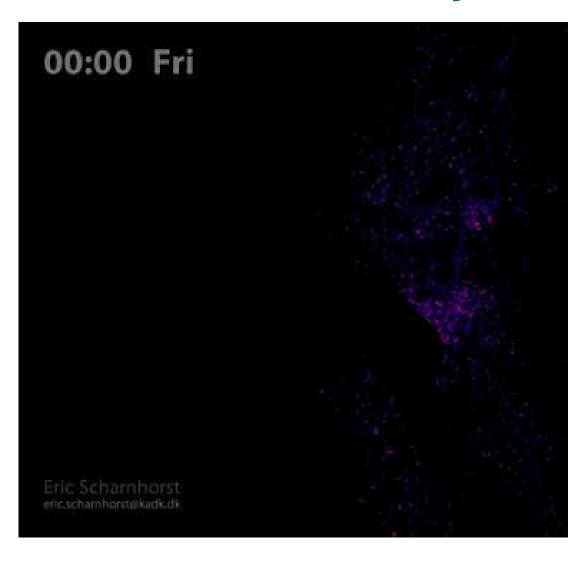
"Restricting construction ties cities to their past and limits the possibilities for their future."

Older, Smaller, Better **Project Overview**

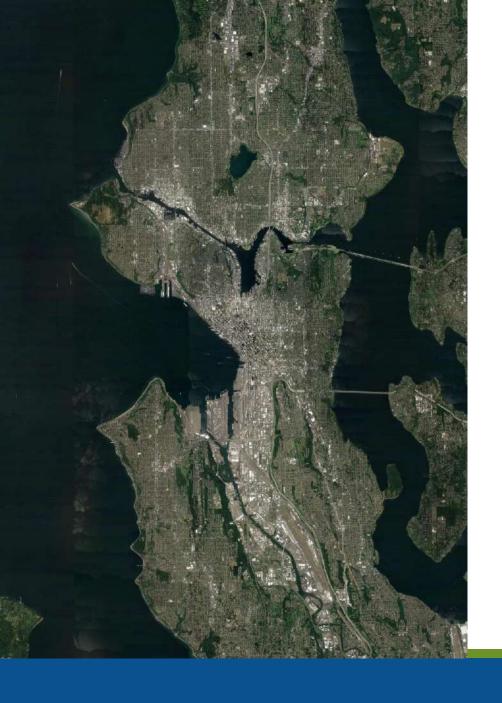
- OBJECTIVE: Test Jane Jacobs' hypothesis that diverse city fabric supports greater vitality and opportunity
- Used newly available data to assess the social, cultural, and economic value of older, smaller buildings
- Focused on Seattle, San Francisco, and Washington D.C.



Measures of Livability



- Used innovative data sources to link older buildings to unique performance
- EXAMPLE: Cell phone activity concentrated in the oldest areas of Seattle on weekend nights



OSB Mapping Methodology



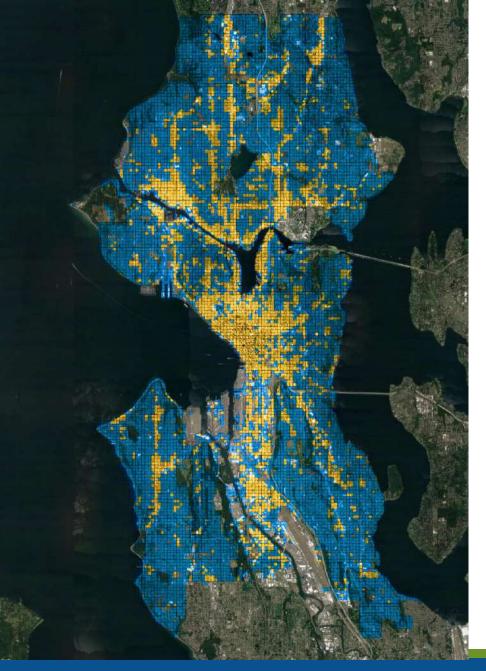
OSB Mapping Methodology

 Overlaid 200-meter-by-200meter grid



Our Mapping Methodology

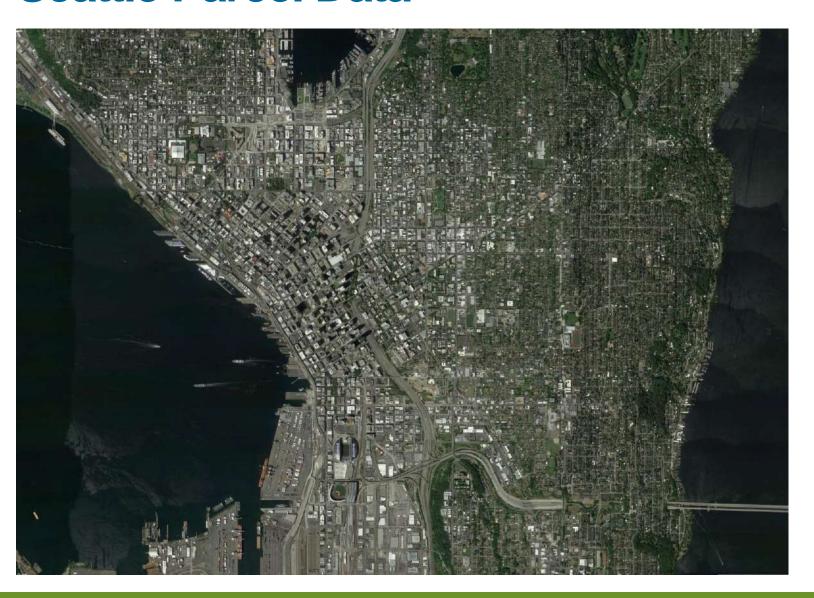
- Overlaid 200-meter-by-200meter grid
- Older, Smaller, Better focused on commercial and mixed-use areas



Our Mapping Methodology

- Overlaid 200-meter-by-200meter grid
- Older, Smaller, Better focused on commercial and mixed-use areas
- Measured key features of the built fabric:
 - -Median building age
 - -Diversity of building age
 - -Granularity

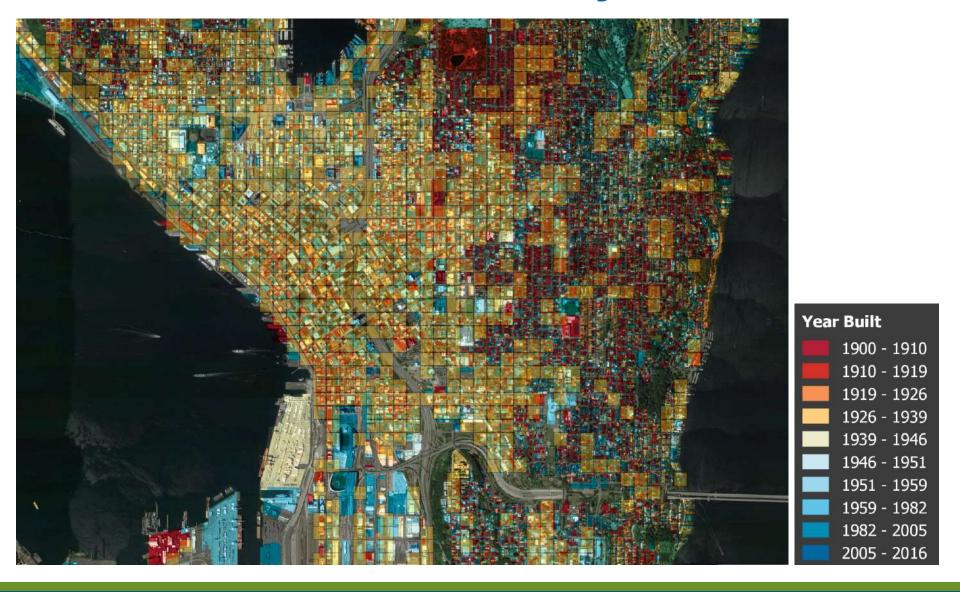
Seattle Parcel Data



Seattle Parcel Data: 'Year Built'



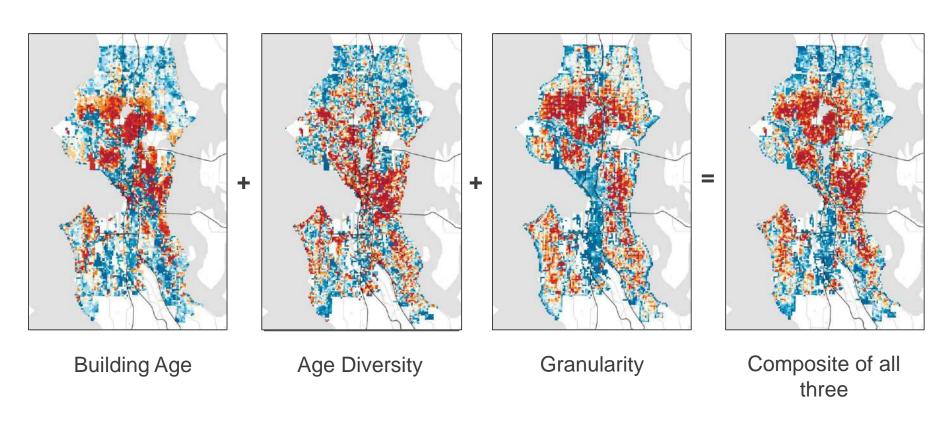
Seattle Parcel Data: 'Overlay Grid



Seattle Parcel Data: 'Year Built' in Grid



Measures of City Fabric



Our composite measure = "Character Score"

Low Character Score

- Newer buildings
- Larger buildings





High Character Score

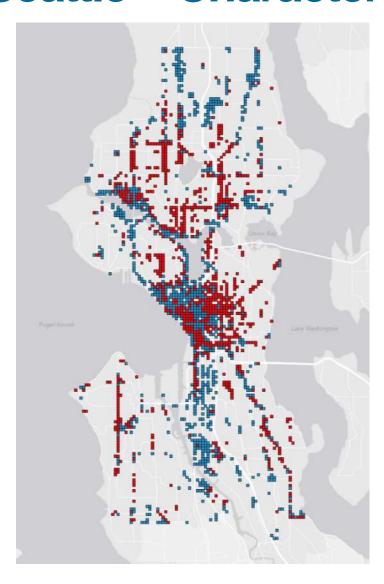
- Older buildings
- Smaller buildings



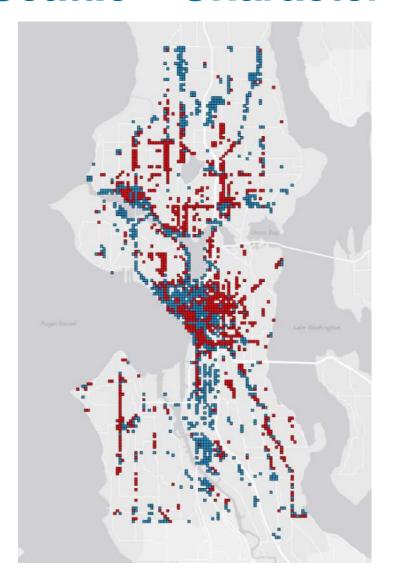




Seattle – Character Score



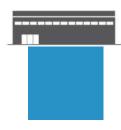
Seattle – Character Score





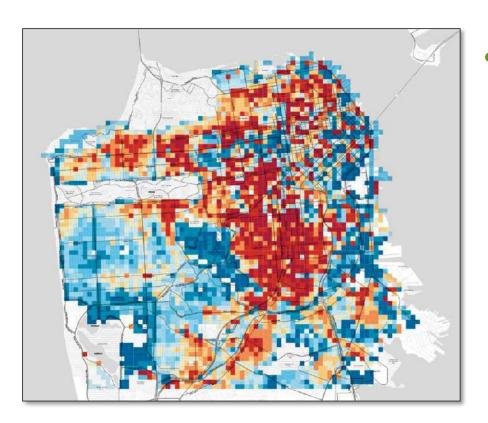
Older, smaller, more age-diverse buildings

Average Walk Score = 83.6



Newer, larger, less age-diverse buildings

Average Walk Score = 78.1

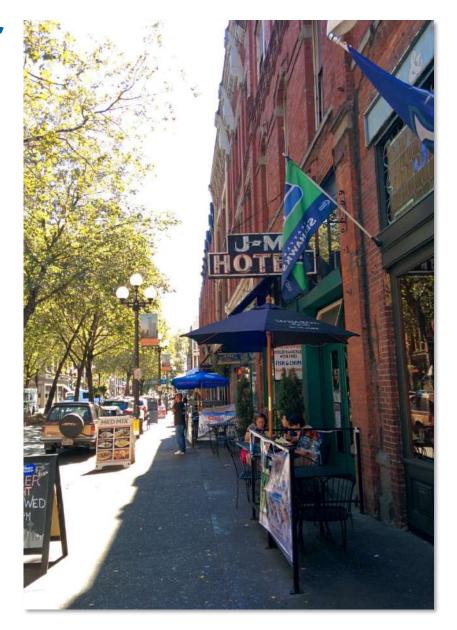


Statistical Analysis

- Developed spatial regression models to determine relative role of building fabric alongside other measures
 - -Private investment(Construction permit dollars)
 - -Access to transit (Transit Score)
 - -Income (Median income)

Older, Smaller, Better Findings

- Where you find older, smaller buildings and mixed-vintage blocks, you see significantly...
 - Greater walkability
 - Younger residents and a greater mix of people at different stages of life
 - Greater nightlife and cultural vitality
 - More jobs, creative jobs, and businesses per square foot
 - More women and minority-owned businesses, non-chain businesses, small businesses, and new businesses







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







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



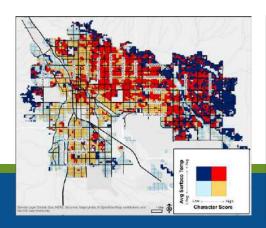
Newest, largest, least age-diverse buildings

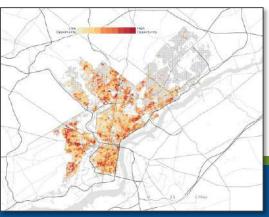


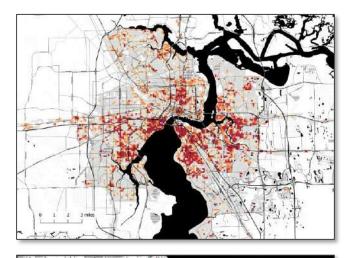


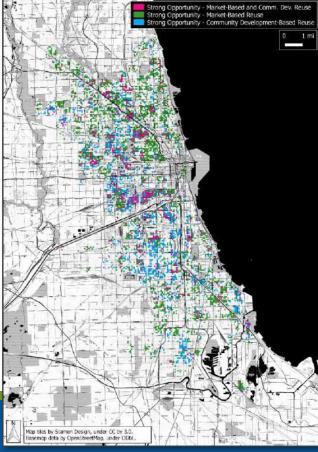
Older, Smaller, Better Evolution

- Since publication of the original report in 2014...
 - Peer-reviewed publication in the Journal of the American Planning Association
 - Integration of mapping methodology into PGL's Partnership for Building Reuse



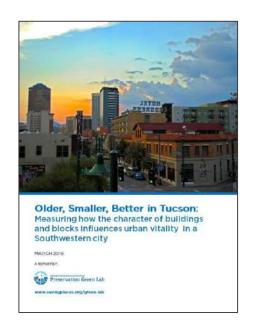


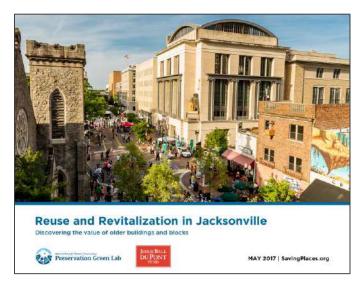


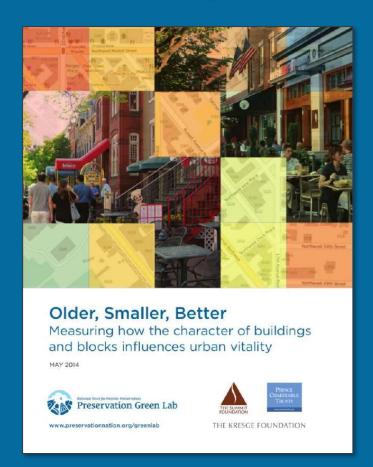


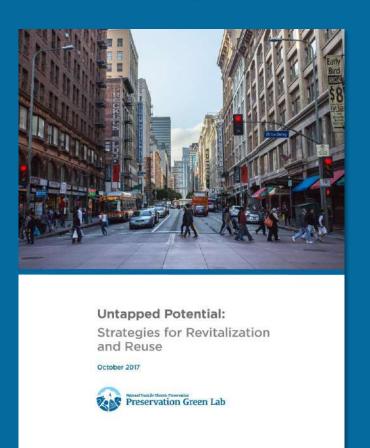
Older, Smaller, Better Evolution

- Since publication of the original report in 2014...
 - 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 and Jacksonville, Florida with new variables of interest
 - The Atlas of ReUrbanism

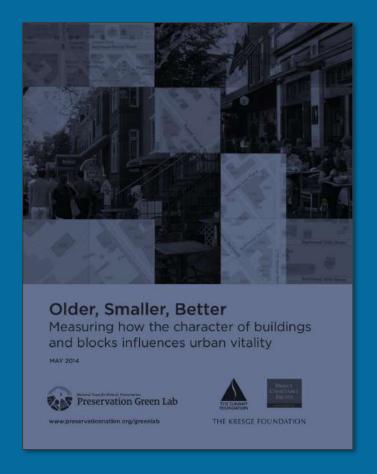


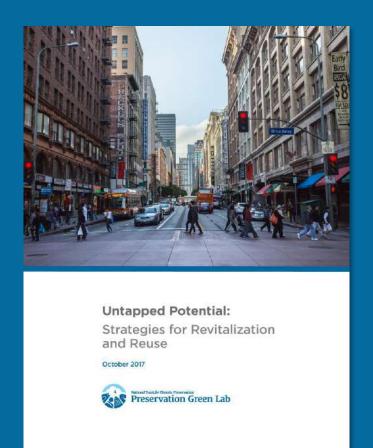






Why? + How?



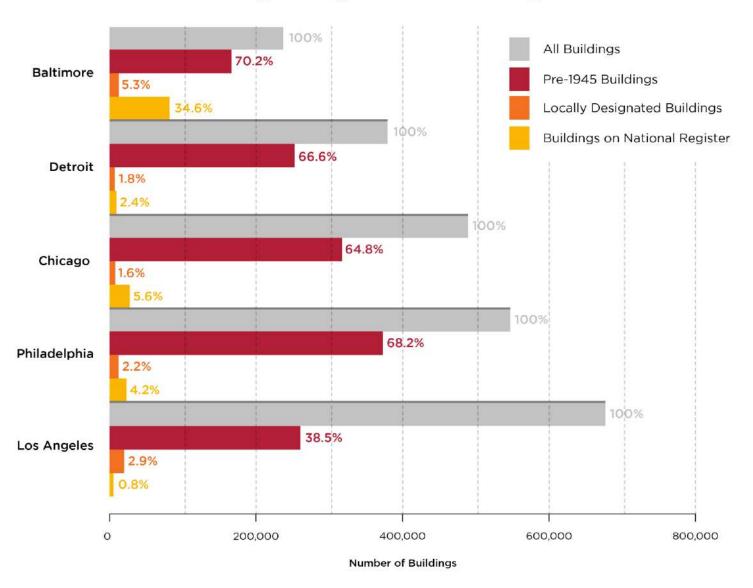


Why?



How?

Exisiting Buildings and Historical Designation









Build on Success: LA's Adaptive Reuse Ordinance (ARO)

- Groundbreaking ordinance passed in 1999; expanded in 2013
- Removed zoning and building code barriers to reuse
- 60 building rehabilitations, 14,000 new residents
- Fewer projects since 2007



Untapped Potential:

Strategies for Revitalization and Reuse

October 2017



Green Lab Solutions

Partnership for Building Reuse

Brings together preservation, real estate, community development, and planning professionals to remove technical, financial, and regulatory barriers to make building reuse easier and more likely in major US cities.

The Partnership for Building Reuse Goals







- Strengthen building reuse to strengthen communities
- Identify common barriers
- Uncover hidden opportunities
- Share best practices
- Realize the potential for sustainable development

Local Expertise



- Real estate
- Architecture
- Planning
- Preservation
- Community development
- Sustainability
- Government
- Philanthropy

Assess Barriers and Identify Solutions



Regulatory Barriers
Zoning Code (Remington, Baltimore)



Market Barriers
Limited Demand (West Baltimore)

Build on Success



Miller's Court, Remington, Baltimore



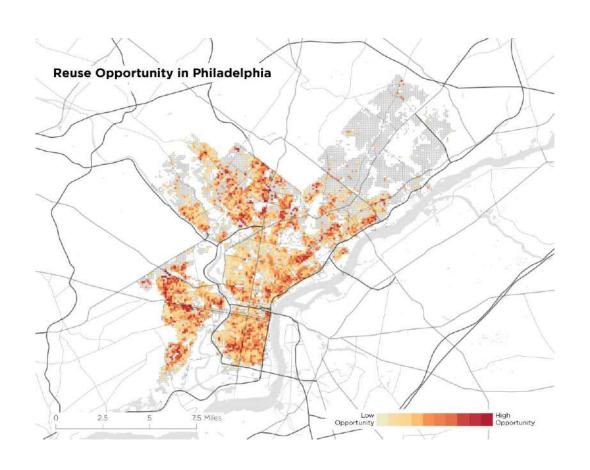
Highlight Opportunities





52nd St., West Philadelphia (left), American Ice Company, Baltimore (right)

Highlighting Opportunity



- Highlight areas of the city where building reuse could have greatest impact
- Build on "Character Score" mapping
- Apply additional data analysis
- Uncover new insights about opportunities in old neighborhoods



Older, Smaller, Better

Measuring how the character of buildings and blocks influences urban vitality

MAY 2014







www.preservationnation.org/greenlab

THE KRESGE FOUNDATION



Unlocking the Potential of Detroit's Neighborhoods:

The Partnership for Building Reuse

August 2016





Why?

7

How?



Current Projects









• Reuse, Reinvest, Reinforce. Reurbanism.



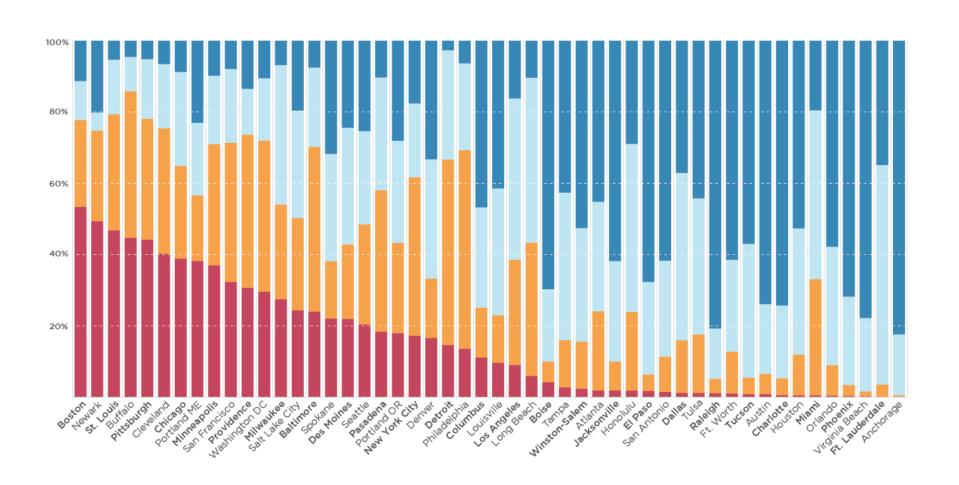
- Reuse, Reinvest, Reinforce. Reurbanism.
- Make building reuse the default option in U.S. cities



- Reuse, Reinvest, Reinforce. Reurbanism.
- Make building reuse the default option in U.S. cities
- Engage density, diversity, affordability, displacement, equity.
 Serious challenges and serious solutions.

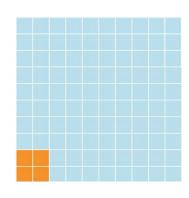


The Atlas of ReUrbanism: Summary Report



Findings for 50+ Cities









The Atlas of ReUrbanism: Interactive Maps



The Atlas of ReUrbanism: Interactive Maps



The Atlas of ReUrbanism: **City-Specific Factsheets**



Mew York, NY

301.5 mi2 | Pop: 8,550,405 | Most Populous U.S. City | Est. 1624

Blocks of older, smaller, mixed-age buildings play a critical role in fostering robust local economies, inclusive neighborhoods, and sustainable cities. The Preservation Green Lab report, Older, Smaller, Better, leveraged the ideas of Jane Jacobs to show why preservation and building reuse matter for successful communities. The Atlas of ReUrbanism expands this research to 50 U.S. cities, demonstrating that Character Counts.

In New York, compared to areas with large, new structures. character-rich blocks of older, smaller, mixed-age buildings contain...



Nearly twice as many women and minority-owned businesses



Twice the number of jobs in small and new business



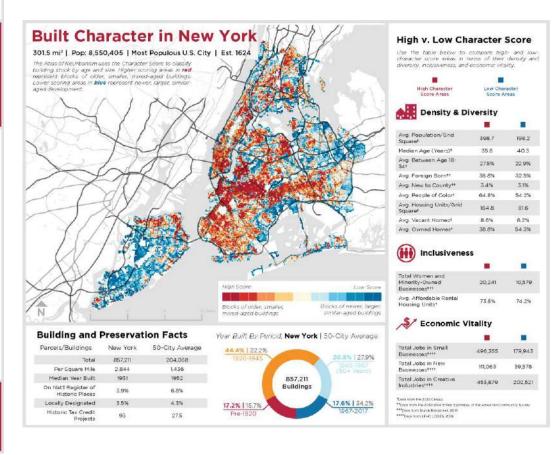
More diverse residents in terms of race, country of origin, and sexual orientation

The building blocks for an inclusive, diverse, economically vibrant city, New York's older, smaller buildings are irreplaceable assets. For more information about New York's high-character areas, please see reverse.

■ The Atlas of ReUrbanism | A Tool for Discovery

Developed by the Preservation Green Lab, the Atlas of ReUrbanism is part of the National Trust for Historic Preservation's ReUrbanism initiative. Explore the Preservation Green Lab buildings and blocks of New York and other American cities further by visiting: www.atlasofreurbanism.com





The Atlas of ReUrbanism: City-Specific Factsheets



Avg. Population/Grid Square [†]	398.7	198.2
Median Age (Years)*	35.8	40.3
Avg. Between Age 18- 54†	27.5%	22.9%
Avg. Foreign Born ⁺⁺	36.8%	32.5%
Avg. New to County#	3.4%	3.1%
Avg. People of Color+	64.8%	54.2%
Avg. Housing Units/Grid Square [†]	164.8	81.6
Avg. Vacant Homes!	8.6%	6.2%
Avg. Owned Homes [†]	38.8%	54.3%



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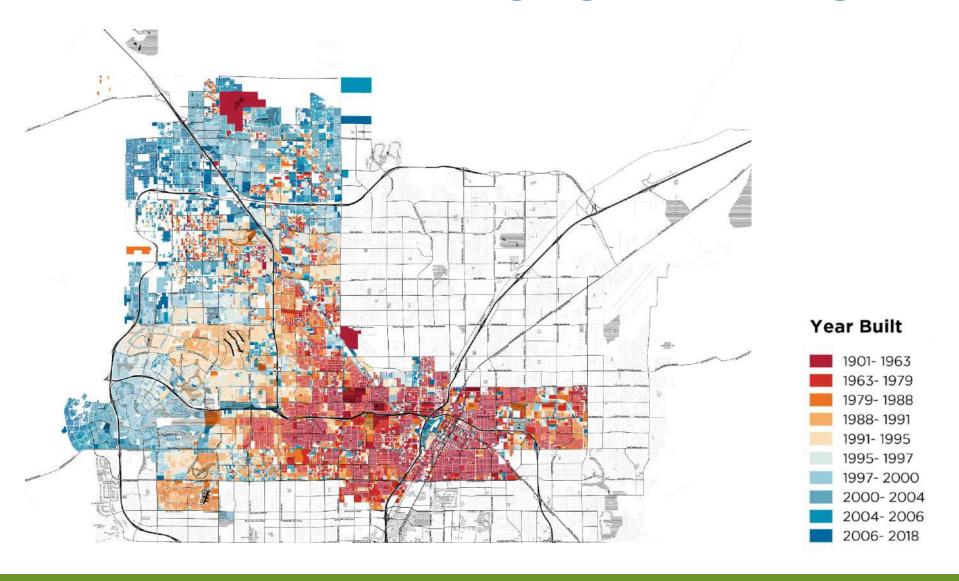


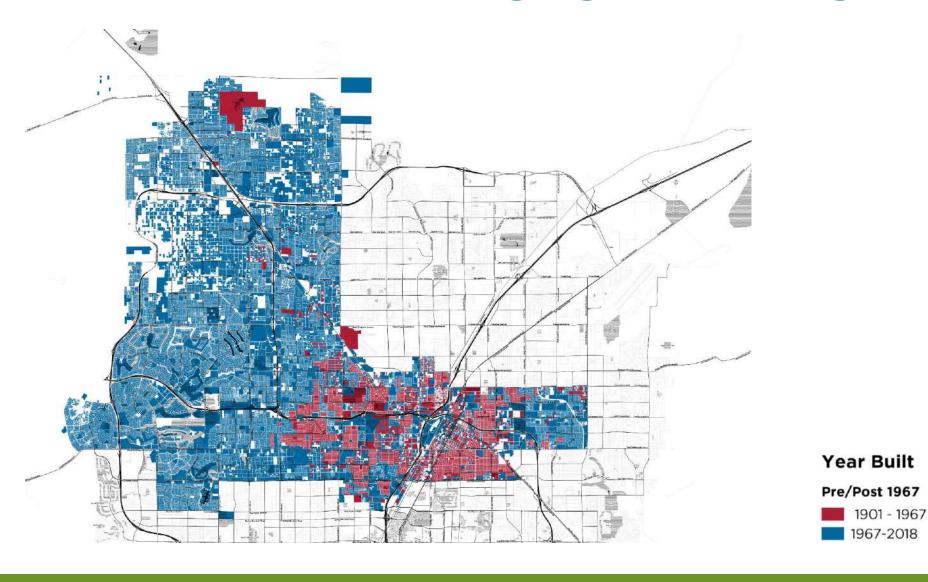
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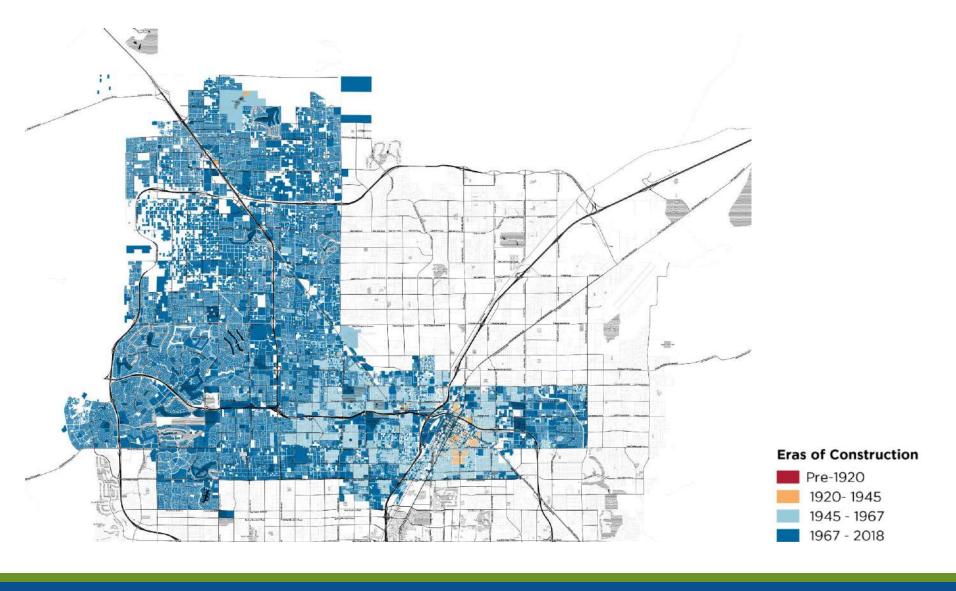
- Facts on the contributions of high character score vs. low character areas
- Preservation-applicable information, including median year built and registered properties
- Topline statistics on how high character areas stand out



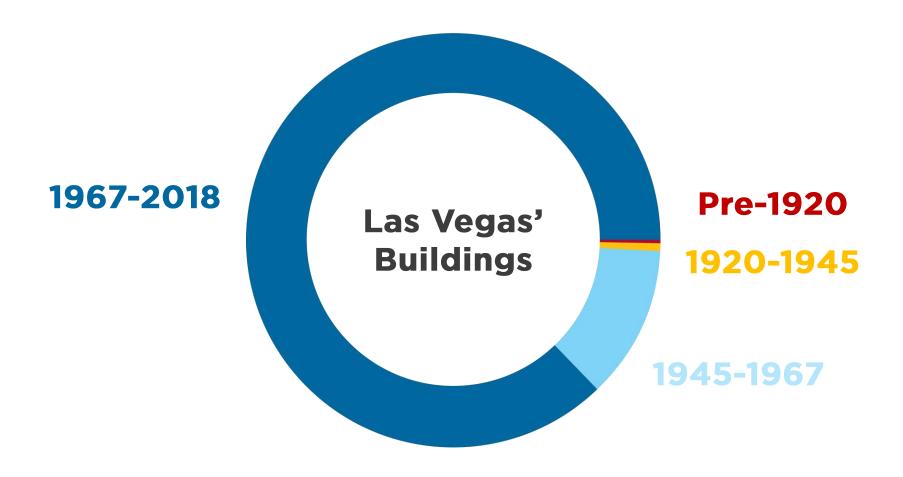


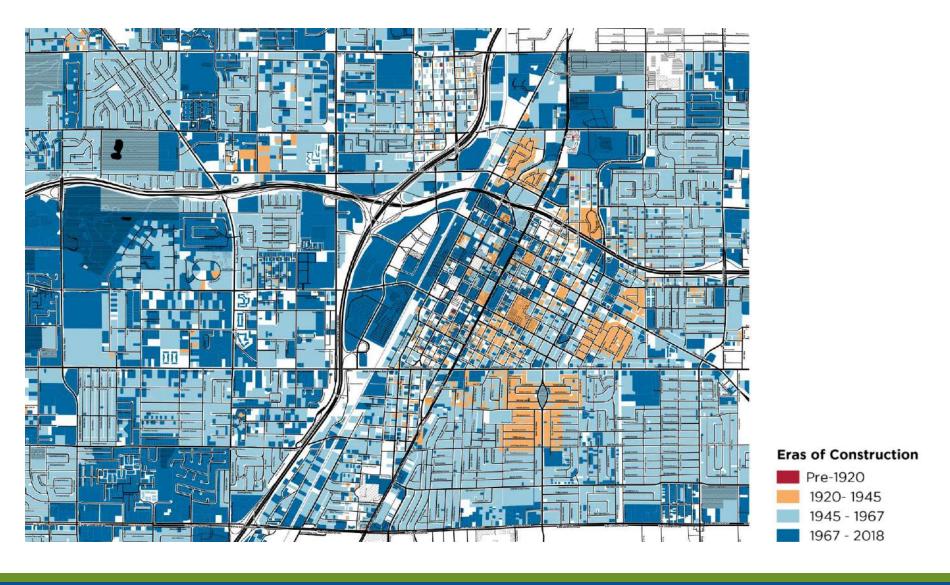


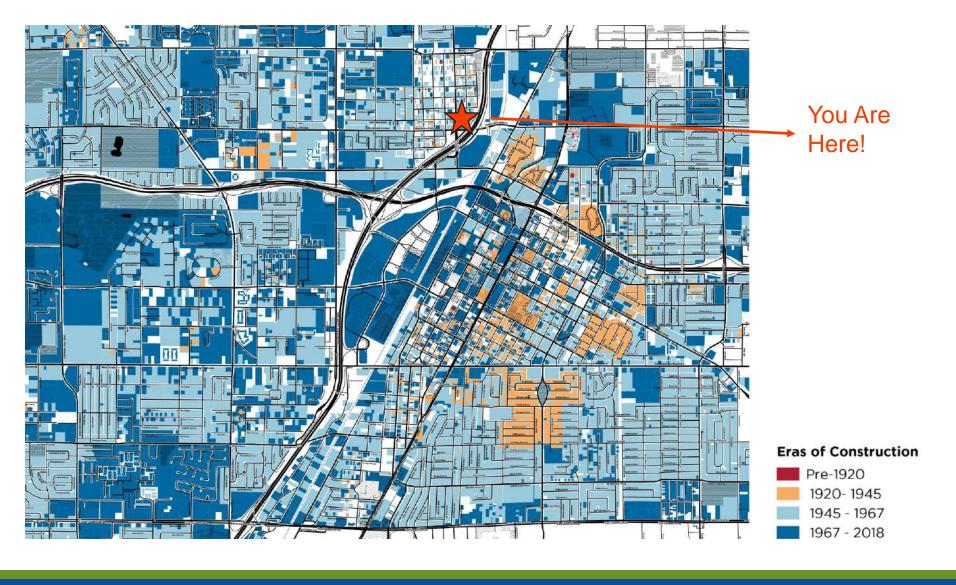




Las Vegas by Era of Construction









Buildings and blocks in American cities

NOVEMBER 2016



Thank you!

www.savingplaces.org www.savingplaces.org/green-lab

