

New York City in 1932



Source: Schwarzer 2016, https://placesjournal.org/article/downtown-a-short-history-of-american-urban-exceptionalism/?cn-reloaded=1

Sixth Avenue in 1903



Source: Schwarzer 2016, https://placesjournal.org/article/downtown-a-short-history-of-american-urban-exceptionalism/?cn-reloaded=1



Great Fire of 1845, NY

Source:

https://upload.wikimedia.org/wikipedia/commons/f/f3/Extent_of_Great_New_York_City_Fire_of_1845.jpg; NY Public Library Digital Collections

Downtown Disasters... and Resilience





Did downtowns survive highways?



https://www.thestar.com/yourtoronto/once-upon-a-city-archives/2016/07/07/gardiner-expressway-big-daddys-gift-to-toronto.html

Europe spared its cities (Boulevard périphérique in Paris)



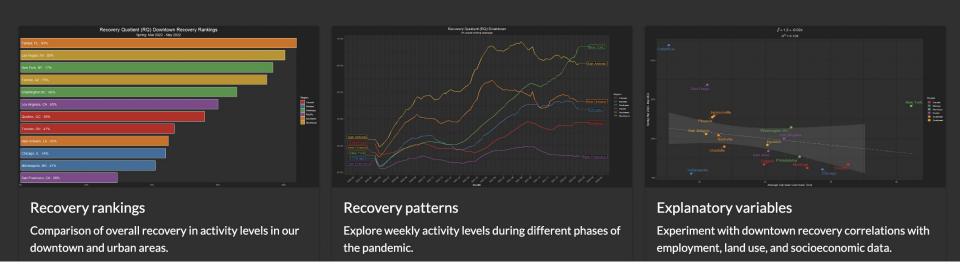
Exploring the death of downtown from Covid-19:

Are the reports greatly exaggerated?

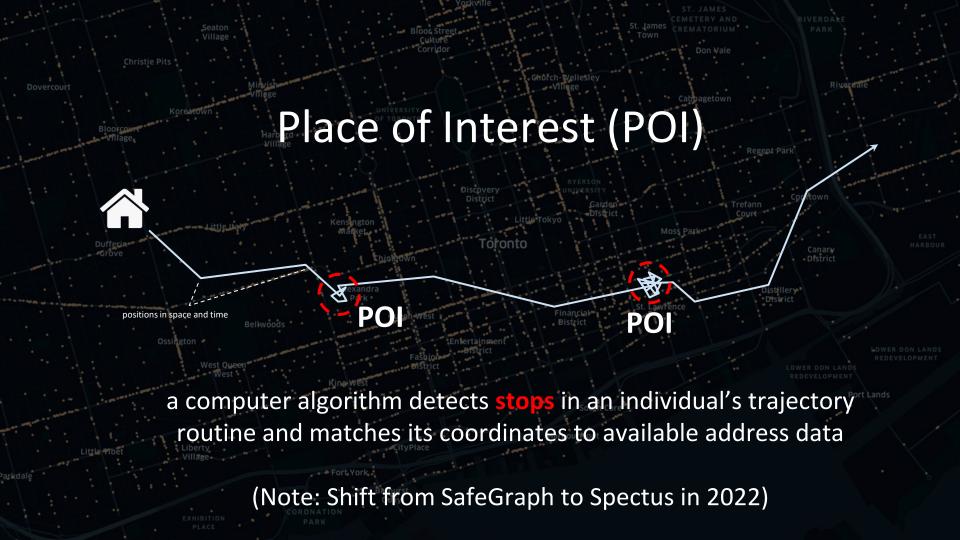
Death of Downtown?

Pandemic Recovery Trajectories across 62 North American Cities

Read policy brief



See www.downtownrecovery.com



POIs could include...

Benny Painting & Decorating 296 Glen Road, Toronto, ON M4W 2X3

Ralph Thornton Community Centre

765 Queen Street East, Toronto, ON M4M 1H3

Golden Wok Chinese Restaurant

94 Halsey Avenue, Toronto, ON M4B 1A9

Walmart Rexdale Supercentre

2245 Islington Avenue, Toronto, ON M9W 3W6

CrossFit

1214 Caledonia Road, Toronto, ON M6A 2W5 Direct Gas 241 Pizza

9 Mulock Avenue, 451 Parliament Street, Toronto, ON M6N 3C3 Toronto, ON M5A 3A3

Hubbard Park

562 Gerrard Street East, Toronto, ON M4M 1X8 Scotia Bank

880 Eglinton Avenue East, Toronto, ON M4G 2L2 **Canadian Tire**

2129 St Clair Avenue West, Toronto, ON M6N 5B4

Avid Technology Worldwide

219 Dufferin Street, Toronto, ON M6K 3J1 Residence Inn by Marriott

255 Wellington Street West, Toronto, ON M5V 3P9 Summerhill Nursery & Floral
301 Macpherson Avenue, Toronto, ON M4V 1A4

Metro Gifts and Smoke

112 Elizabeth Street, Toronto, ON M5G 1P5

William Osler Health Centre

Etobicoke General Hospital, 101 Humber College Boulevard, Toronto, ON M9V 1R8 St Cecilia's Church 7-E

161 Annette Street, Toronto, ON M6P 1P5 7-Eleven

334 Bloor Street West, Toronto, ON M5S 1W9 **Tim Hortons**

550 St Clair Avenue West, Toronto, ON M6C 1A5 **Ko Burgers**

3210 Danforth Avenue, Toronto, ON M1L 1C1 KFC

2500 Danforth Avenue, Toronto, ON M4C 1L2

Silly Goose Pub

1703 Victoria Park Avenue, Toronto, ON M1R 1R9 **Coronation Park Dog Park**

711 Lake Shore Boulevard West, Toronto, ON M5V 3T7 Runnymede Public Library

2178 Bloor Street West, Toronto, ON M6S 1M8 **University of Toronto**

80 Queens Park, Toronto, ON M5S 2C5 Ten Ren's Tea

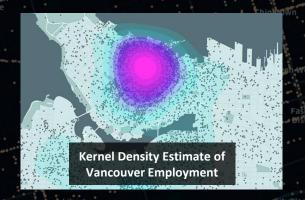
Fairview Mall 1800 Sheppard Avenue East Unit 2022a, Toronto, ON M2J 5A7

and many more...



Defining the Downtown

a 2021 report by **Statscan¹** defined all downtown boundaries in Canada by **employment density**, and used a set of rules to map formal boundaries to dissemination areas

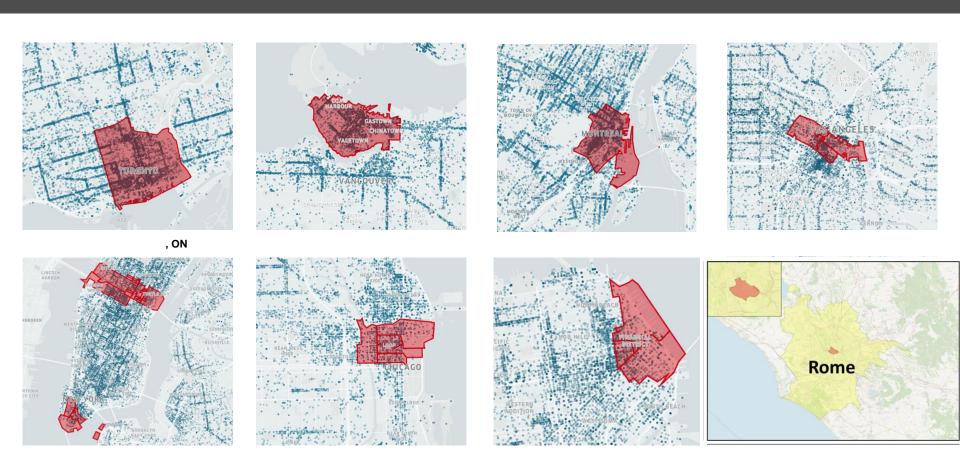


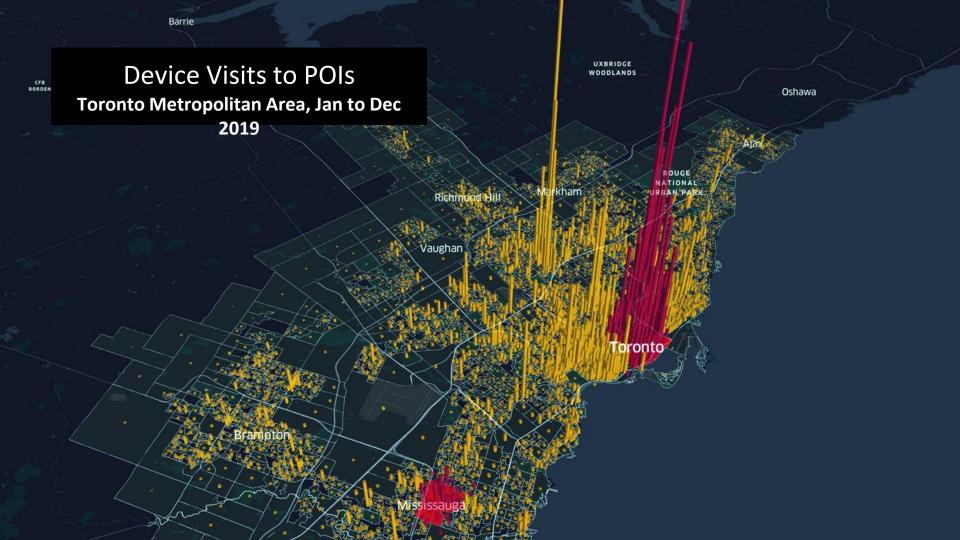


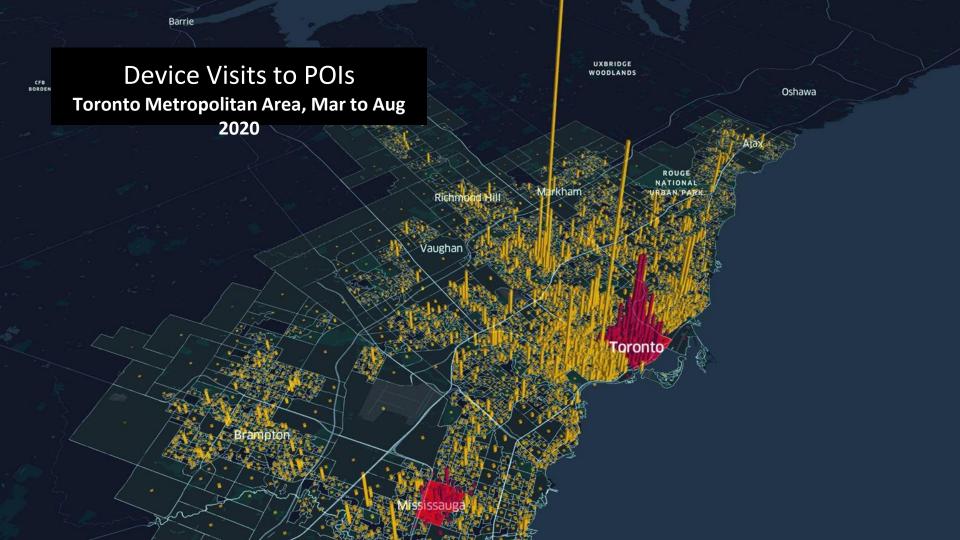


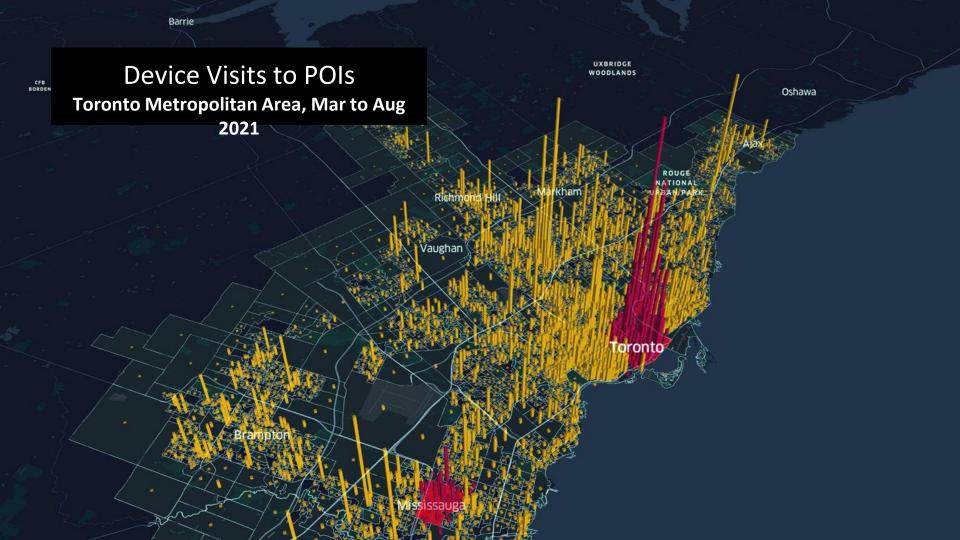
we replicated this methodology for all US cities at the zip code level

What is a Downtown?











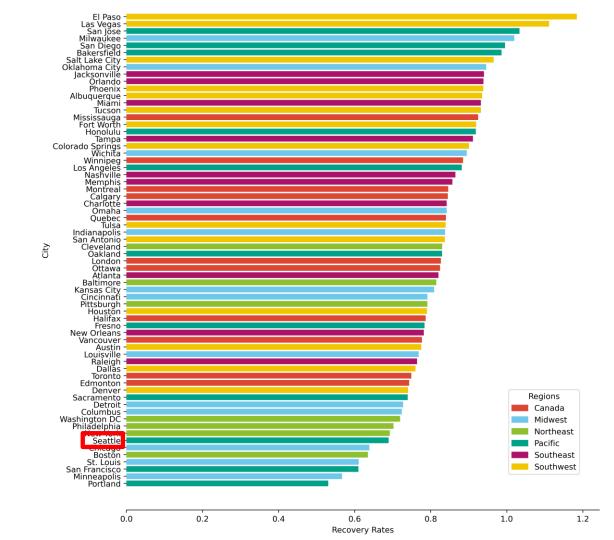
Recovery Rate

Measures the **number of raw POI visits** (scaled by state sampling rate) in post-COVID period vs. pre-COVID period

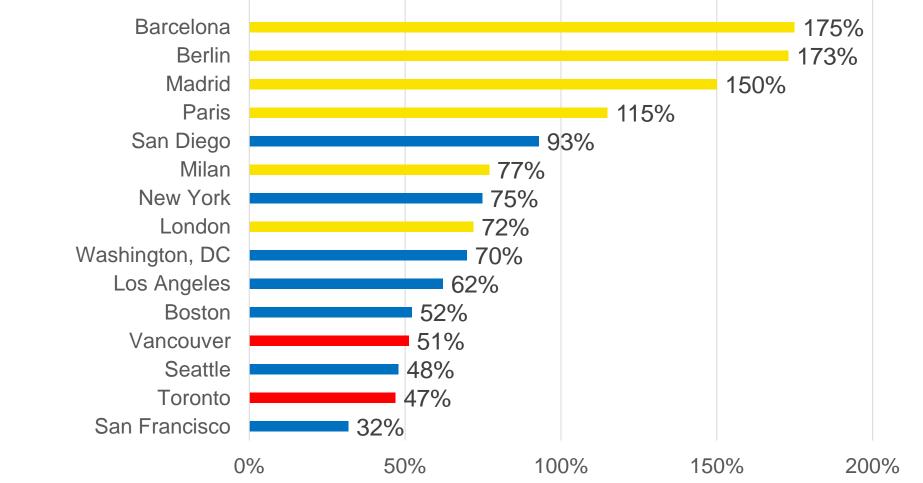
e.g. RR₂₀₂₃ = Downtown POI Visits in 2023

Downtown POI Visits in 2019

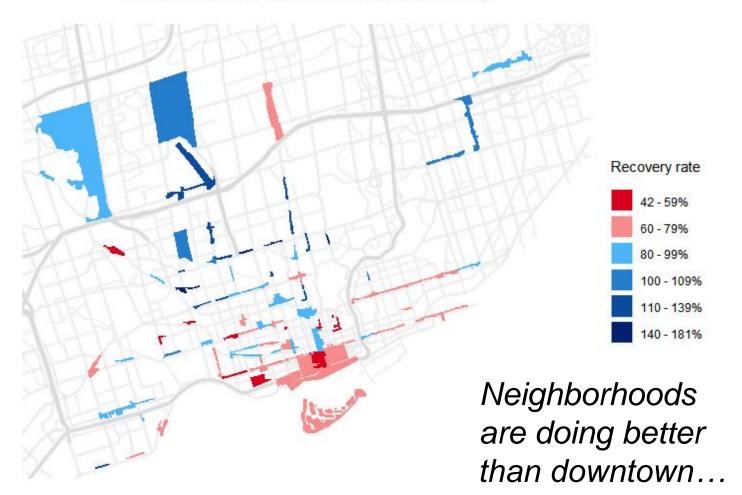
Recovery rankings, March – June 2023



Select North American and European Downtowns, Winter 2023



Recovery rate of Business Improvement Areas in Toronto, March 1 - May 19 (2023 versus 2019)



Explanatory Factors

THE THE





US and Canada Census Data

Total Population

Median Household Income Tenure

> Single Family Households

orridor



regulations

Covid-19

Weather

Political leanings

Land Use Entropy

 $-\sum_{j=1}^{k}p_{j}ln(p_{j})$

Industry Composition Census



US and Canada
Business Patterns Data

Business Density (Calculated)

Land Area of Analysis Unit



Racial/Ethnic
Composition (white, black,
Hispanic, Asian, others)

Industry of

Employment

College Education

Median Age

Median Rent

Number of Occupancy Housing Units

Population Density (Calculated)

Housing Density
(Calculated)

Little Tibet

IBITION PARK

Top factors behind downtown recovery (based on random forest classification of recovery rates)

-11.59% Employment Density Downtown (Calculated - jobs per km²) 7.88% City-wide Percentage of Commuters who use Private Automobiles -6.25% Percentage of Jobs in Professional, Scientific, and Technical Fields (NAICS 54) -5.54% Downtown Percentage of Housing Units in multi-Family Homes Percentage of lobs in Information (NAICS 51) 4.91% City-wide Percentage of Commuters who use Public Transportation 4.05% downtown Percentage of Residents with a Bachelor's Degree or Higher Median Household Income of Downtown Residents -3.43% -3.00% Percentage of lobs in Finance & Insurance (NAICS 42) 2.95% Percentage of Jobs in Manufacturing (NAICS 31 - 33) 2.85% Percentage of Jobs in Construction (NAICS 23) 2.53% Median Number of Rooms per Housing Unit 2.14% Percentage of Jobs in Administrative Support & Waste Management (NAICS 56) -2.07% Downtown Housing Density (Calculated - housing units per km²) -2.05% Median Year of Structure Built of Housing Units Median Rent of downtown housing units Percentage of Jobs in Management of Companies and Enterprises (NAICS 55) -1.88% -1.79% city-wide Average Commute Time (minutes) -1.75% Population Density Downtown (Calculated - people per km²) downtown percentage of rented-occupied units Percentage of Jobs in Transportation & Warehousing (NAICS 48 - 49) Average Winter Temperature in Degrees Fahrenheit Percentage of Jobs in Retail Trade (NAICS 44 - 45) -1.60% Median Age of downtown residents (years) Percentage of lobs in Accommodation & Food Services (NAICS 72) 1.56% Average Summer Temperature in Degrees Fahrenheit 1.38% -1.35% Downtown Percentage of Vacant Housing Units -1.16% Percentage of Jobs in Real Estate (NAICS 53) Percentage of Jobs in Healthcare & Social Assistance (NAICS 62) 1.13% Percentage of Jobs in Educational Services (NAICS 61) 1.08% 1.07% Percentage of Jobs in Utilities (NAICS 22) Number of days all events were canceled -1.03% 1.00% Percentage of Jobs in Wholesale Trade (NAICS 41 - 42) 0.95% Percentage of lobs in Agriculture, Forestry, Fishing, and Hunting (NAICS 11) -0.92% Number of days stay-at-home requirements were imposed -0.89% Crime Rate (Rate per 100,000 population) Percentage of Jobs in Public Administration (NAICS 91) 0.87% 0.79% Number of days mask/facial covering mandates were imposed Number of days income support was disbursed -0.70% -0.65% Number of days workplaces were closed Percentage of Jobs in Arts, Entertainment & Recreation (NAICS 71) 0.56% Number of days large public events were canceled 0.56% -0.52% Percentage of Jobs in Mining, Quarrying, Oil, and Gas (NAICS 21) -0.46% Number of days schools were closed

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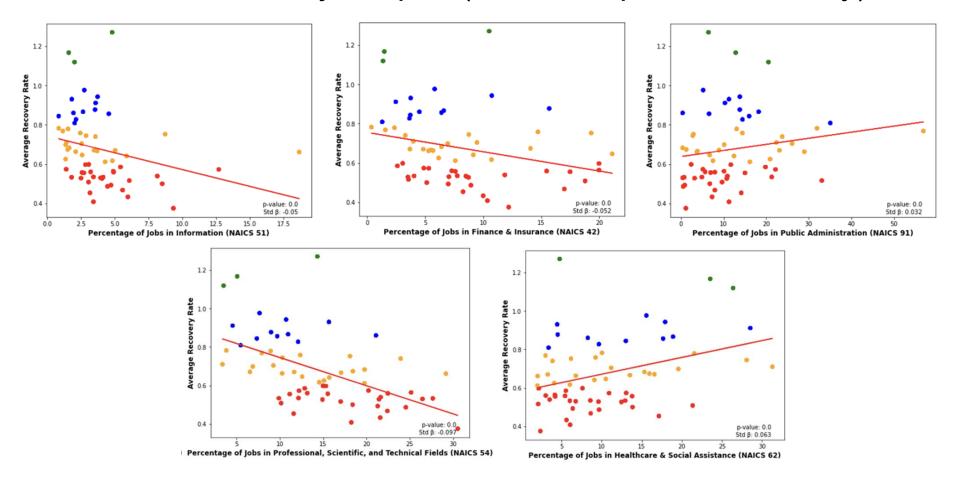
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Importance

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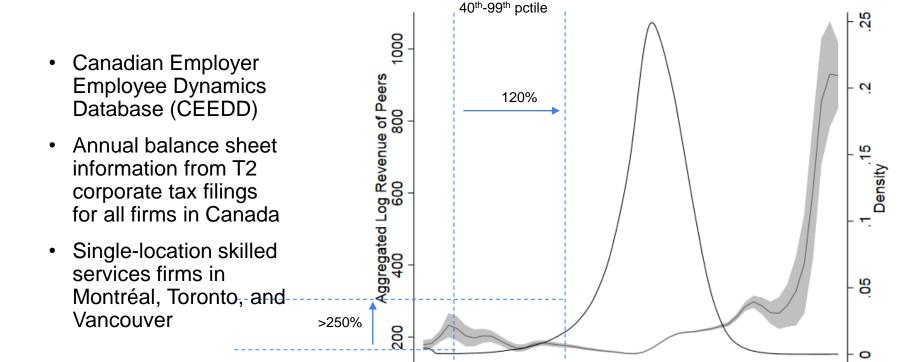
Feature Importance (Random Forest Classifier)

It's the economy, stupid! (Plus transport and density)



What are other researchers finding?

Higher Revenue Firms Cluster and Have More Economic Activity Nearby

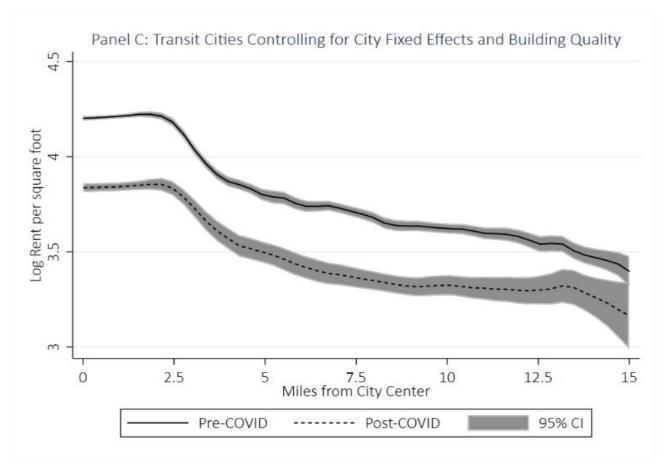


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10 Log Revenue 20

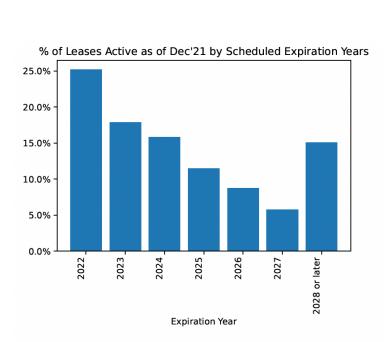
Source: "Local Productivity Spillovers" N. Baum-Snow, N. Gendron-Carrier & R. Pavan

The rent gradient has not gone away

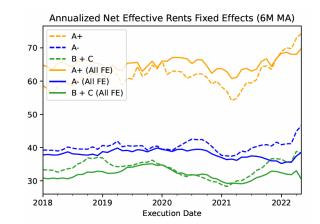


For more: "Work From Home and the Office Real Estate Apocalypse" (Gupta,

Mittal, & Nieuwerburgh, 2023)

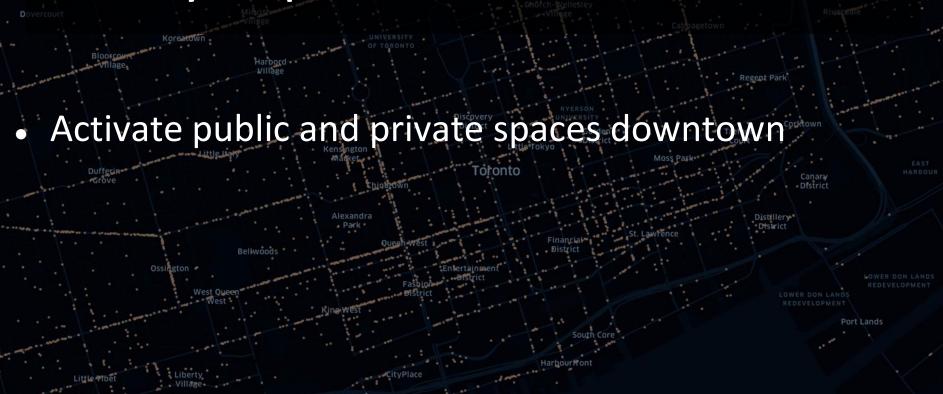


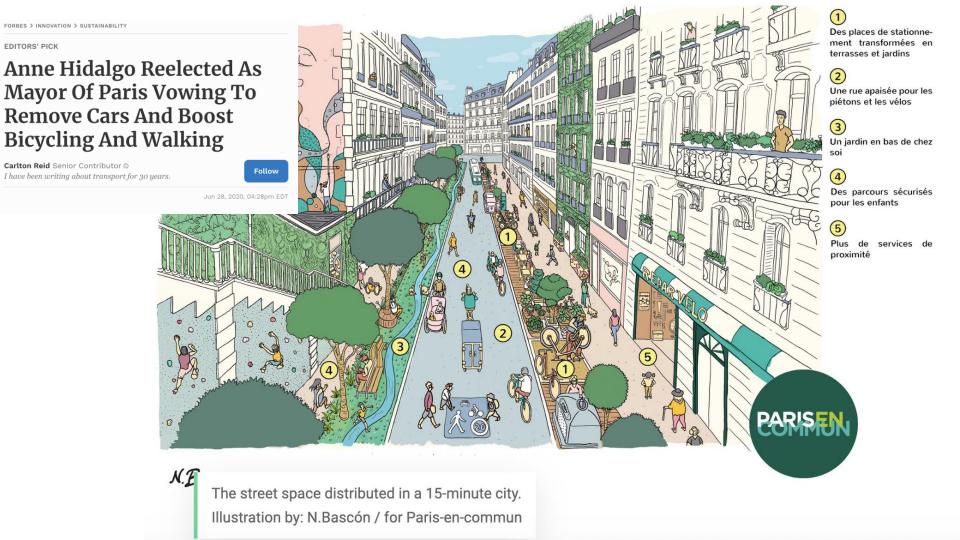




https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4124698

Policy Implications: Short-Term





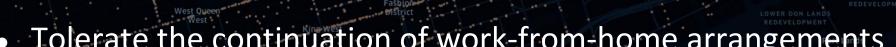
Tactical Urbanism is Not Enough



Source: San Francisco Chronicle, July 18, 2022.

Policy Implications: Short-Term

- Activate public and private spaces downtown
- Facilitate access to loans for small service and retail businesses



Tolerate the continuation of work-from-home arrangements

Policy Implications: Long-Term



Ensure that downtowns are inclusive and affordable





Source: Florida 2021: https://www.bloomberg.com/news/features/2021-05-14/the-post-pandemic-future-of-central-business-districts, Photographer: Alexi Rosenfeld/Getty Images



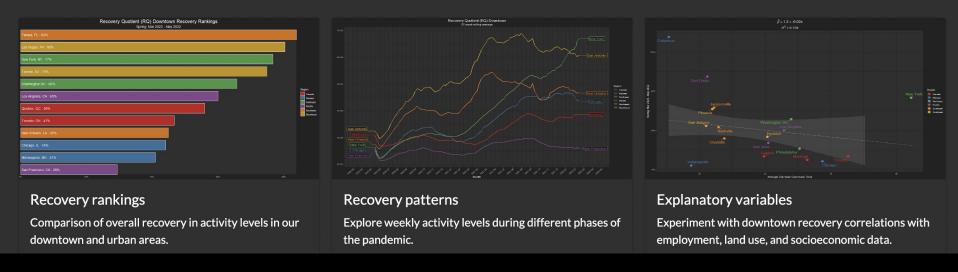
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