



# mapping.news

*a project to describe local journalism in realtime*

august 8, 2025 — nick deMarchis

oxford media policy summer institute

# agenda

## 1 importance of local news

- trust
- coverage

## 2 decline of local news

## 3 gaps in the field

## 4 my tool

## 5 methodology

and areas for further research

## 6 early results & areas for improvement

## 7 similar work & stakes

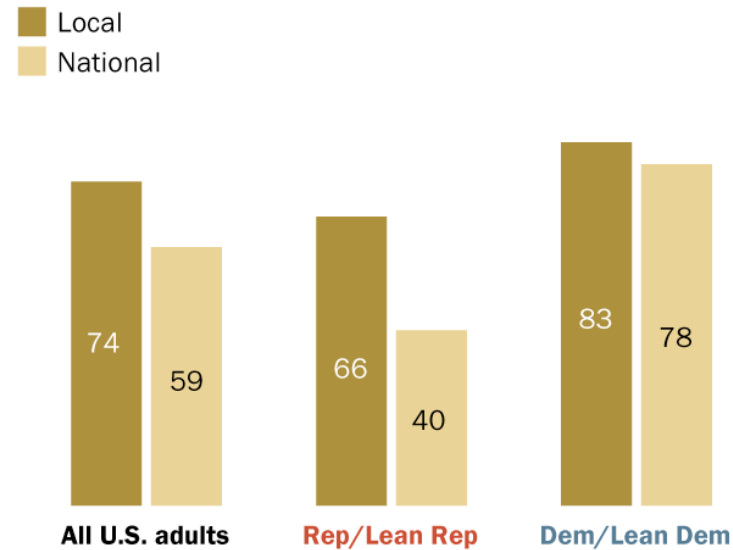
1.

**local news in the US is vital**

# 1a. local news is more trusted in the US, and Americans believe it is important

## Americans – especially Republicans – tend to trust local news more than national news

*% who say they have **a lot of/some** trust in the  
information that comes from \_\_\_ news  
organizations, by party*



Note: Other response options included “Not too much” and “Not at all.” No answer responses are not shown.

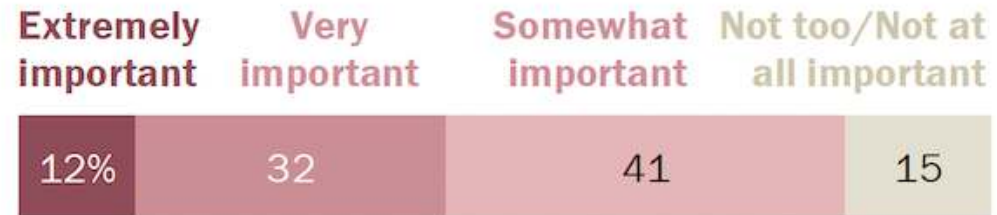
Source: Survey of U.S. adults conducted Sept. 16-22, 2024.

PEW RESEARCH CENTER

# 1a. local news is more trusted in the US, and Americans believe it is important

## Most Americans say local media are at least somewhat important to their community

*% of U.S. adults who say they think local news outlets are \_\_\_ to the well-being of their local community*



Note: Respondents who did not answer are not shown.

Source: Pew Research Center survey of U.S. adults conducted Jan. 22-28, 2024.

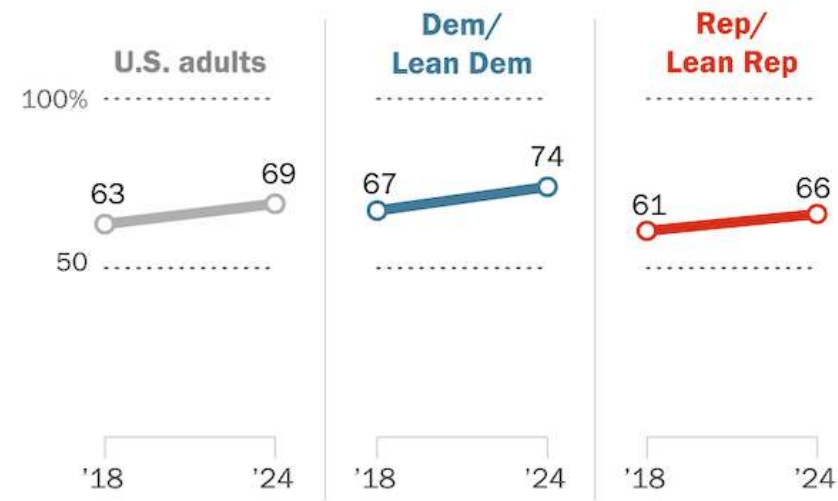
"Americans' Changing Relationship With Local News"

PEW-KNIGHT INITIATIVE

# 1a. local news is more trusted in the US, and Americans believe it is important

## Majorities of both parties say local journalists are in touch with their community

*% of U.S. adults who say local journalists in their area are mostly in touch with their community*



Source: Pew Research Center survey of U.S. adults conducted Jan. 22-28, 2024.

"Americans' Changing Relationship With Local News"

PEW-KNIGHT INITIATIVE

# 1b. local news provides unique coverage for communities

- **local budget negotiations**

news presence proven to reduce waste, fraud and abuse when covered by beat reporter

- **local elections**

news presence proven to increase voter turnout

- **high school sports scores**

for students getting recruited for college scholarships

- **reduces community cost of borrowing**

news presence proven to reduce bond interest rates

- **etc. etc. etc.**

- **preaching to the choir**

Darr 2018, Gao 2020, Hayes 2015

2.

**local news in the US is in decline**



**local news  
in the US is  
in decline**

**print subscriptions haven't been  
profitable since the mid-2000s**

HBR

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The Big Idea Series / **Democracy Under Attack**

## Journalism's Market Failure Is a Crisis for Democracy

by Victor Pickard

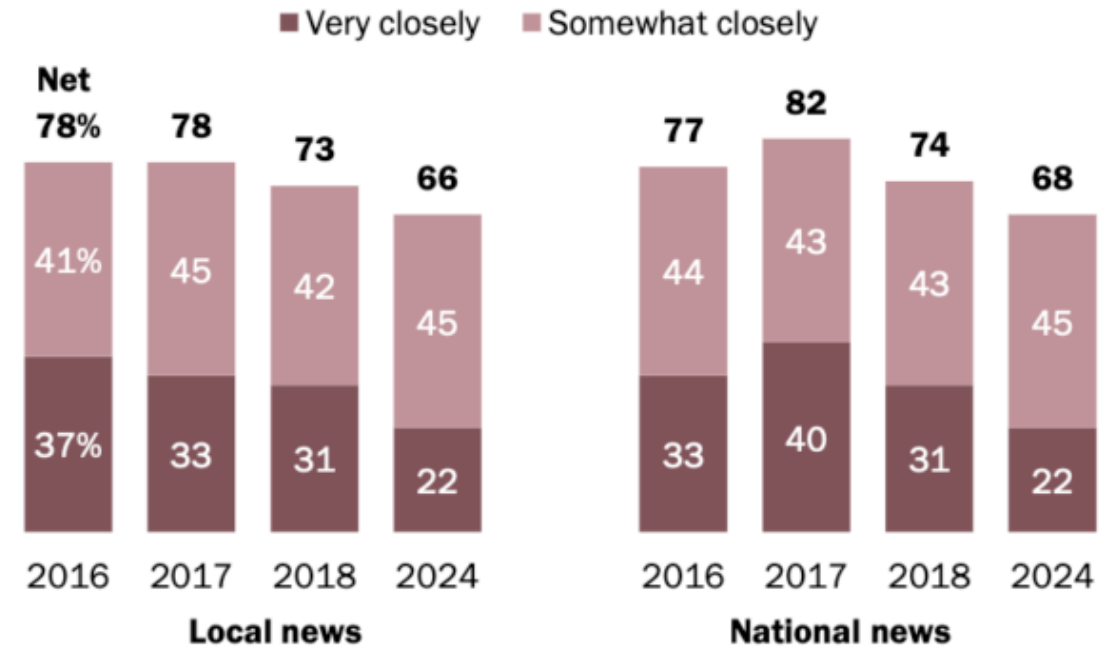
March 12, 2020

**Local journalism is failing** in the United States. Many of us learn in school that a free society requires a free press, but we

local news  
in the US is  
in decline

Fewer Americans are closely following local and national news

% of U.S. adults who follow local news/national news ...



Source: Pew Research Center survey of U.S. adults conducted Jan. 22-28, 2024.  
"Americans' Changing Relationship With Local News"

PEW-KNIGHT INITIATIVE

# local news in the US is in decline

## Total Number of Local U.S. Newspapers: 2005 and 2024

There has been a net loss of 3,300 papers since 2005.

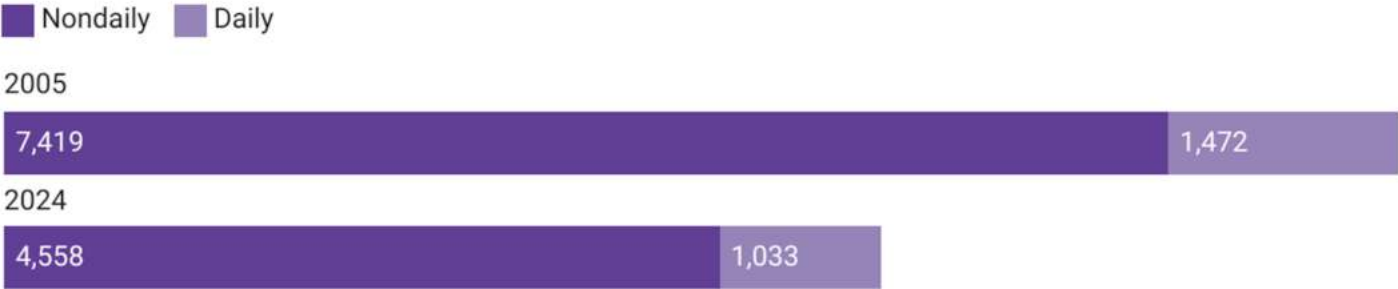


Chart: Mediill Local News Initiative • Source: Local News Initiative Database • Created with Datawrapper

# local news in the US is in decline

## Newspaper Employment: 2005 & 2023

Total newspaper employment has decreased by more than 70% over the past fifteen years.

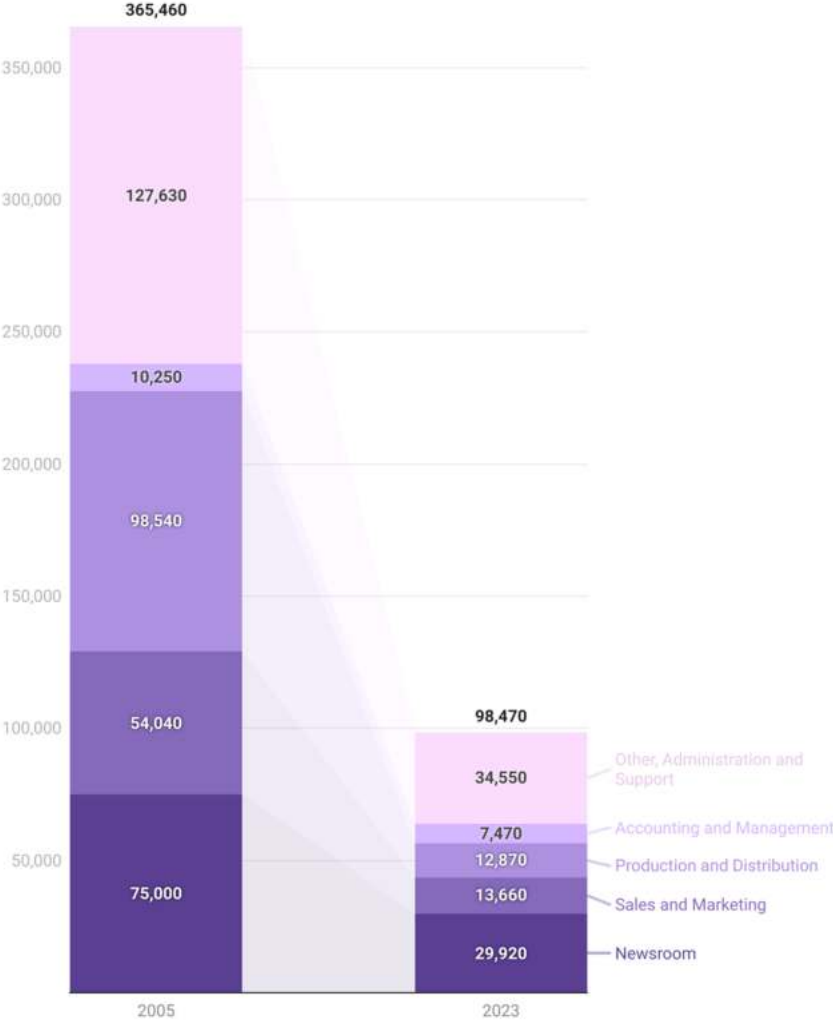


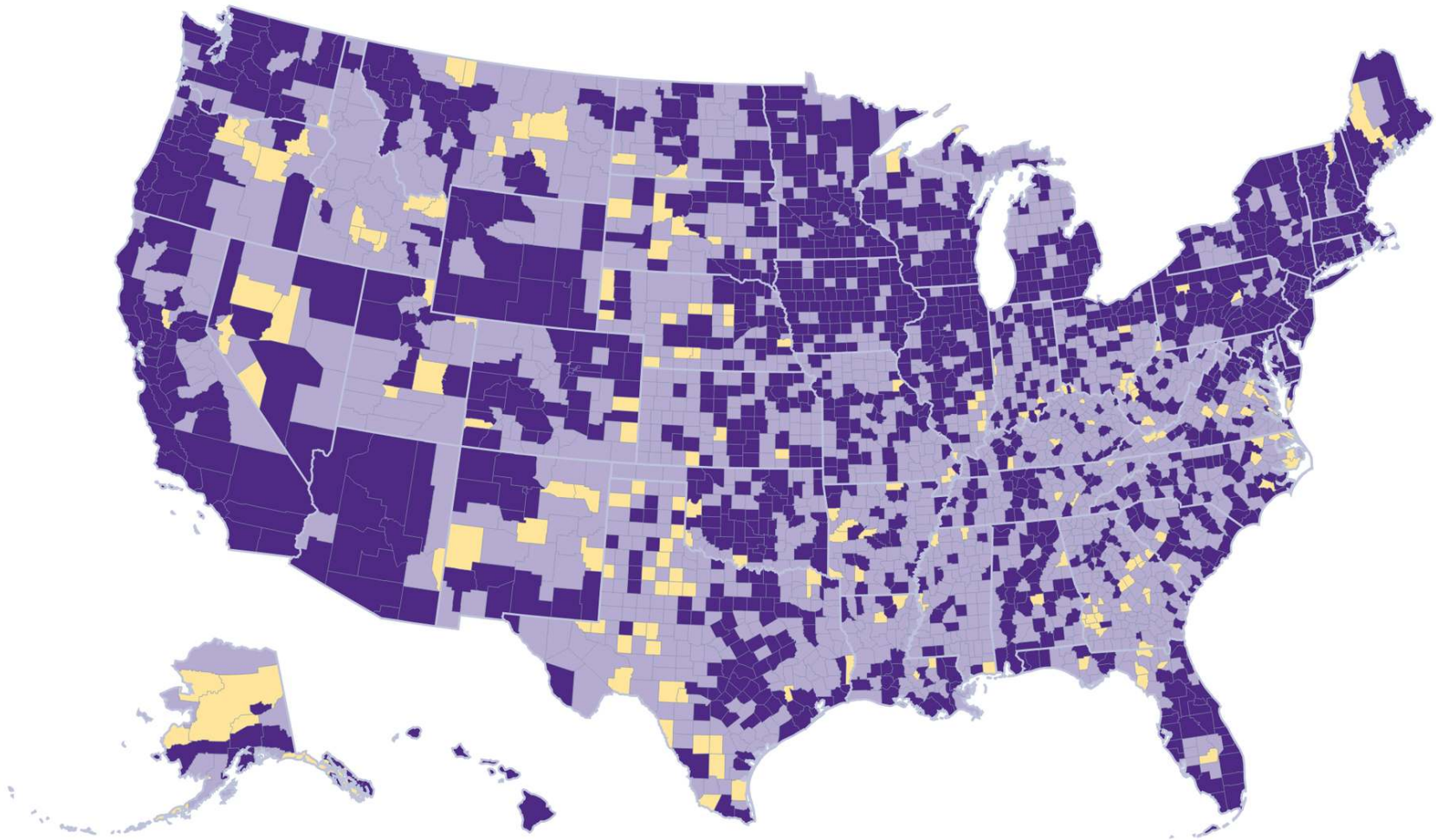
Chart: Medill Local News Initiative • Source: Bureau of Labor Statistics • Created with Datawrapper

**news deserts have  
proliferated as a result.**

# Local News Landscape

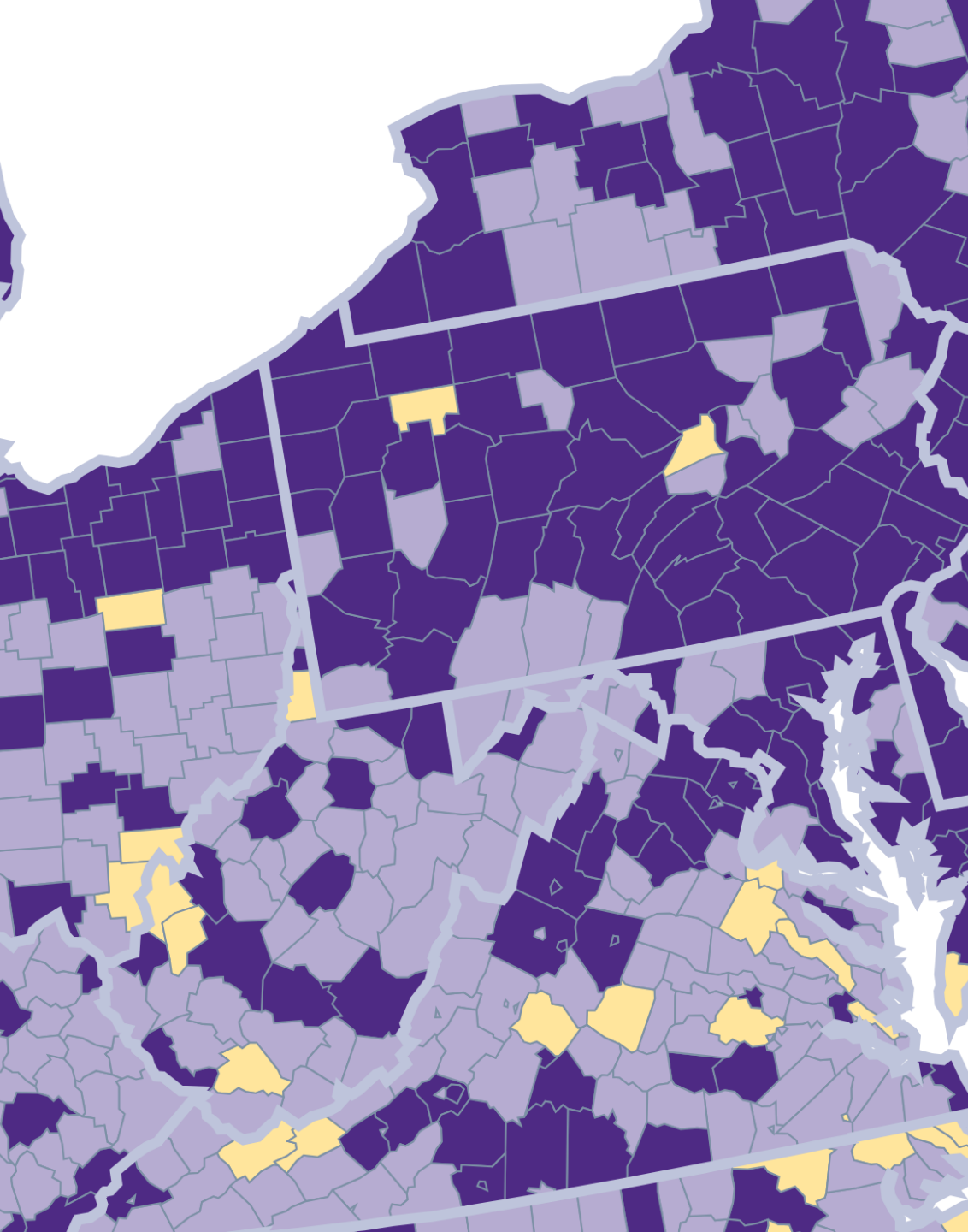
There are 201 counties in the United States with no news outlets. There are 1,563 counties with only one.

■ No news outlets   ■ 1 news outlet   ■ 2 or more news outlets



3.

**gaps in the research**



- **really great work in giving a clear nationwide picture of what areas are well-served and which aren't**
- **however, most existing research is focused on county-level coverage**
  - based on the headquarters for outlets, not necessarily their stated coverage area
  - in addition, stated coverage area often differs from actual coverage area
- **coverage most important to communities is inherently local — whether to local sports stadiums, city halls or fire stations**



**what if we could see the  
coverage communities  
are receiving in realtime?**

# **ok, so i built a tool that**

- **maps the locations mentioned in local news**
- **in NYC**  
(just to start)
- **in realtime**
- **on a public-facing website**
- **and i have about seven months of data :)**

4.

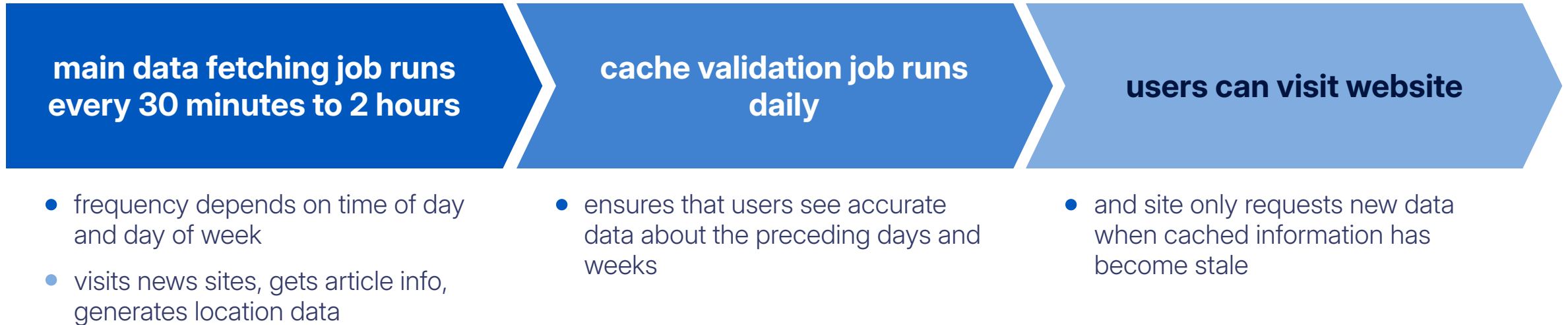
**live demo!**



5.

**methodology**

# process for getting and serving data



# data collection



# what is a location?

## too broad

- counties, states, regions or countries
  - this would definitely be possible to do later, but
- places with multiple meanings
  - e.g., NYC has 2 subway stops called 36th Street on the same subway line

## too specific

- locations of any individuals or their places of residence
- time-restricted locations (e.g. a temporary festival)
- locations that require context-specific information
- effectively, anything that can't be reasonably inferred from the text of any given news article

## just right

- addresses
- "points of interest"
- someone familiar with the area could get there without further directions (e.g., the corner of W 34th St. and 6th Avenue)
- institutions with multiple buildings that often don't have more specific info (e.g., hospitals, universities)

# why realtime?



## **"virality"** 🤖

this map responds to what's going on in realtime. it maintains relevance and can gain repeated visitors, while also providing a look up to 3 weeks back.



## **quick response**

allows communities to see new news or identify known gaps more quickly and communicate with community peers or journo contacts, respectively.



## **modifiable**

i don't have to wait to recollect a full dataset to display a new bit of information or filtering. any changes can go up as quickly as the news does.



## **fun**

i really liked building this project with live data and quick feedback loops.



6.

**early results & areas for growth**

# early results!

- **mostly anecdotal at this point since i haven't had a chance to crunch the data** 🙄
- **visible difference between those with hyper-local outlets and those without**
  - with: Canarsie and Bushwick
  - without: Brownsville and Kew Gardens
- **dots become *huge* with crime coverage**

particularly high-profile violence, whose coverage is driven by the Post reporting on the same location for several days

# areas for growth



## filtering

- based on time period
- based on news outlet
- etc.



## topic analysis

- which articles about what topics (e.g. crime, business, sports, etc.)?



## outlet analysis

- which outlets are covering which areas?
- which outlets have beat reporters for areas, vs. only occasional coverage?



## population analysis

- associate article locations with population information, and identify communities with less coverage



## better LLM validation

and running on custom hardware :)



## crowdsource corrections

# concerns

## this shouldn't be another Citizen

Citizen is a video-driven crime-reporting app that shares data with the NYPD. realtime info is important, but this meta-analysis isn't designed to be used in law enforcement activity.

## not necessarily transferable to other areas

the success of this proof-of-concept has relied on NYC's rich, hyper-online media environment.

however, the analysis methods and data pipelines could probably be expanded more broadly with low-moderate effort.

## cost

this is surprisingly expensive to run (with the decisions i made thus far)! economies of scale are great, but there will likely need to be technical tradeoffs or increased maintenance to scale to the country and other areas.

7.

**similar work & stakes**

# Tow Center for Digital Journalism

- **Tow Center is analyzing the crossover between 3 regional outlets in North Carolina with similar methods**

- however, they're not doing it in realtime :)

- **they're also doing a broader inventory of the journalism environment with county-level data**

- but drilling in with a lot more interesting info that required a lot of original work on their part

# **understanding where coverage occurs can allow for:**

- **better understanding of the journalism landscape**
- **allow outlets to divert resources to less-served areas**
- **communities to advocate for themselves, and build momentum for local coverage**

**thank you!**

[nickdemarchis.com](http://nickdemarchis.com)



# References

- Darr, Joshua P, Matthew P Hitt, and Johanna L Dunaway. "Newspaper Closures Polarize Voting Behavior." *Journal of Communication* 68, no. 6 (2018): 1007–28. <https://doi.org/10.1093/joc/jqy051>.
- Gao, Pengjie, Chang Lee, and Dermot Murphy. "Financing Dies in Darkness? The Impact of Newspaper Closures on Public Finance." *Journal of Financial Economics* 135, no. 2 (2020): 445–67. <https://doi.org/10.1016/j.jfineco.2019.06.003>.
- Hayes, Danny, and Jennifer L. Lawless. "As Local News Goes, So Goes Citizen Engagement: Media, Knowledge, and Participation in US House Elections." *The Journal of Politics* 77, no. 2 (2015): 447–62. <https://doi.org/10.1086/679749>.