

Kayla Stan, Nina Kallaus &  
Elizabeth LaBeaud

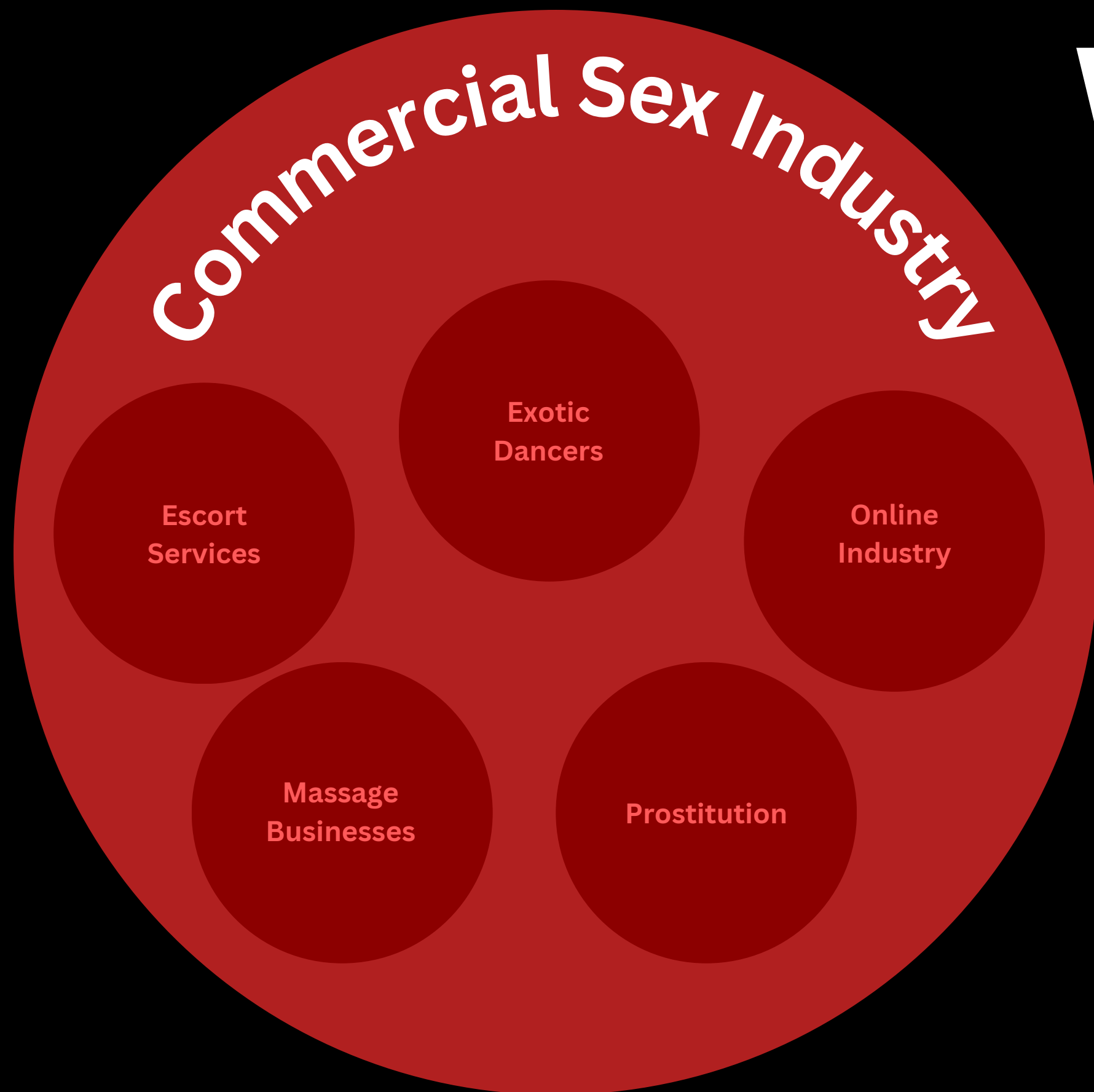
# Web Scraping & the Wayback Machine

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Using Internet Archives and Geoanalytics to Assess National Industry Change



# What is the CS Industry?



- **\$14 billion** in revenue in 2013
- Only legal in parts of Nevada
- Was the **LARGEST** black market industry in cities like Atlanta and Miami

*You may have noticed that I'm not all there myself...*

*Sawicki et al 2019; Dank et al. 2014*



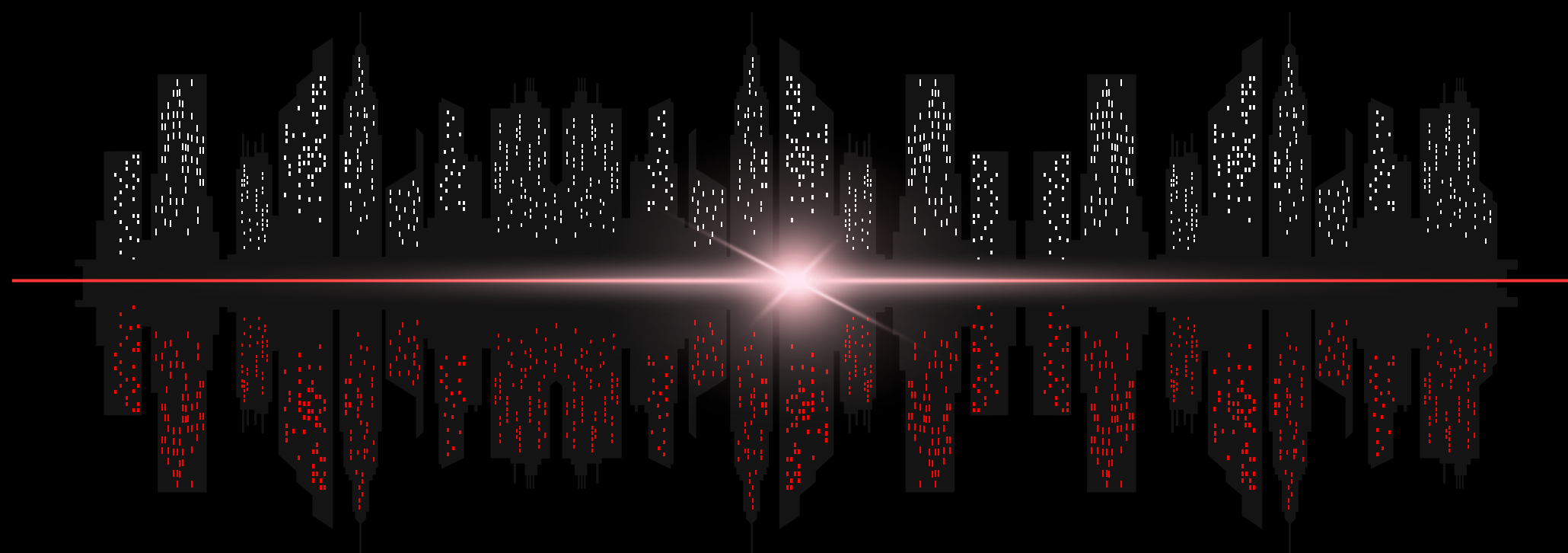


# Why the IMB Industry?

- **Most visible** retail industry in the grey/black market economy
- Part of the commercial sex industry
- Hosts both voluntary & forced labor



*I fancied that kind of thing never happened...*





How can we  
find **data** for  
an illegal  
industry?

274 562 posts

**rub  
maps**

**AMPReviews**

THE PLACE TO REVIEW & DISCUSS AMPS

1 446 374 posts

166 153 members



**USASexGuide**

6 610 789 posts

766 682 members

*I'm afraid I can't explain myself, sir. Because I'm not myself, you know...*



MP reviews (28)		Comments (7)		Member photos (6)		Reveal All	Order: Review Date
	declanvk	Rating	★★★★★				Read Review
	Isabella	#3220314		10.24.2024			
	jeepsterman	Rating	★★★★★				Read Review
	Angela	#3202754		10.18.2024			
	brysonbk	Rating	★★★★★				Read Review
	Isabella	#3200062		10.17.2024	3		
	clithunters	Rating	★★★★★				Read Review
	Lucy	#3063478		08.25.2024	2		
	systemsgo	Rating	★★★★★				Read Review
	Michelle	#2989274		07.29.2024			
	rolandolouise15	Rating	★★★★★				Read Review
	Michelle	#2842942		05.17.2024			
	robopeasgrower	Rating	★★★★★				Read Review
	Nana	#2852646		05.10.2024	4		
	convtripower	Rating	★★★★★				Read Review
	Michelle	#2651753		01.30.2024	6		
	keyman3838	Rating	★★★★★				Read Review
	Chloe	#2618493		01.13.2024	4		
	trident_driver	Rating	★★★★★				Read Review
	Isabella	#2576685		12.22.2023	4		
	sert223388	Rating	★★★★★				Read Review
	Tina	#2570804		12.19.2023	4		
	memster	Rating	★★★★★				Read Review
	Lucy/Sarina	#2555640		12.11.2023	7		
	hottamale	Rating	★★★★★				Read Review
	Sarina	#2503365		11.17.2023	2		

MP Review

Visit date	October 2024	Private location	X	Time of visit	Afternoon
Recommend	✓	Parlor type	Store Front	Paid to house	\$60

Massage Parlor Details:

Parking here can be a bit of a puzzle, but once you step inside, you can't miss how clean and pro these folks are. Isabella, the new girl on the block, left me totally satisfied.

Provider's name: Isabella

Provider details:

Recommend?	✓	Eye color	Brown	Build	Petite
Provider rating	★★★★★	Hair color	Black	Rate ass	Nice & Round
Ethnicity	Asian	Hair length	?	Kitty	Trimmed
Age	25-30	Breast size	C	Tattoos	X
Height	5'0"-5'5"	Implants	X		

Tips:

Tipping issue?	X	Extra tip	\$160
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More Details:

Went in first thing in the morning and was greeted by Isabella. She spoke some English, which made the entire session go smoothly.

I shall elucidate...



Member since: 01-18-2018

Follow

Send a message

### comments:



kidsplendid:

02.26 2024

When did you visit? Recently? I am trying to ascertain if they have reopened since being shut down recently by the dept of labor. Thanks in advance for the Intel.



fromundadeeznutz:

02.26 2024

You guys know all the rizz department of labor hahaha you killing me



Doc423:

02.26 2024

Reads like a fake inside job write-up.

Message parlor reviews

Send message to jeepsterman



UNEE Spa

Review added : 10.18 2024



Sister Spa Massage

Review added : 07.01 2024



Warm Spring Massage San Ramon

Review added : 06.24 2024



Warm Spring Massage San Ramon

Review added : 05.20 2024



GH thai massage

Review added : 05.17 2024



Warm Spring Massage San Ramon

Review added : 03.25 2024



Origin Bodyworks & Spa

Review added : 02.12 2024



Origin Bodyworks & Spa

Review added : 02.08 2024



Origin Bodyworks & Spa

Review added : 02.01 2024



SUNSHINE HEALTH

Review added : 01.29 2024



Luminous Pearl spa

Review added : 01.29 2024



Angel Relax Center

Review added : 09.29 2021



Asian Foot Massage

Review added : 09.26 2021



Retreat Massage

Review added : 06.21 2019



Retreat Massage

Review added : 06.11 2019



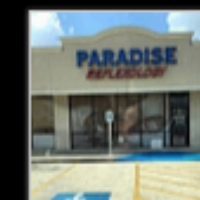
Cozy Hair Salon

Review added : 06.08 2019



Cozy Hair Salon

Review added : 05.31 2019



Paradise Reflexology

Review added : 05.27 2019



Cozy Hair Salon

Review added : 04.22 2019



A B Spa

Review added : 04.22 2019



Golden Tree Spa

Review added : 02.11 2018



Moon Massage

Review added : 02.04 2018



Golden Tree Spa

Review added : 01.29 2018



Elite Foot And Back Center

Review added : 01.20 2018



You must have meant some mischief, or else you'd have signed your name like an honest man...



# Webscraping 101

```
<div class="rows">
  <div class="main-row">
    <a class="th-img"
      href="/message-dy-foot-spa-athens-al-163295"></a>
    <div>
      <a href="/message-dy-foot-spa-athens-al-163295"
        class="th-a">Dy Foot Spa</a>
      <i class="phonenumberrow">256-262-4236</i><br/>
      229 French Farms Blvd.B-2<br/>
      Athens, AL, 35611<br/>
      <a href="/message-dy-foot-spa-athens-al-163295">5 reviews</a><br/>
      <span class="rating_blurred"></span>
    </div>
```

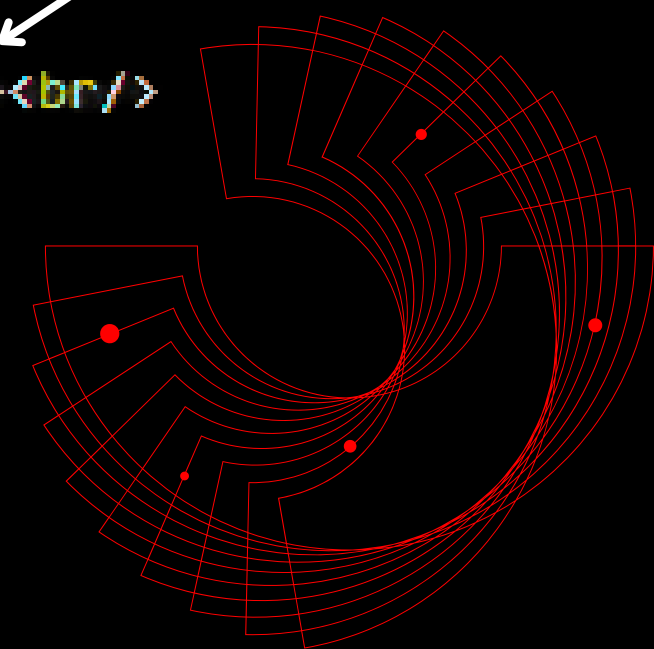
Name

Phone Number

Address

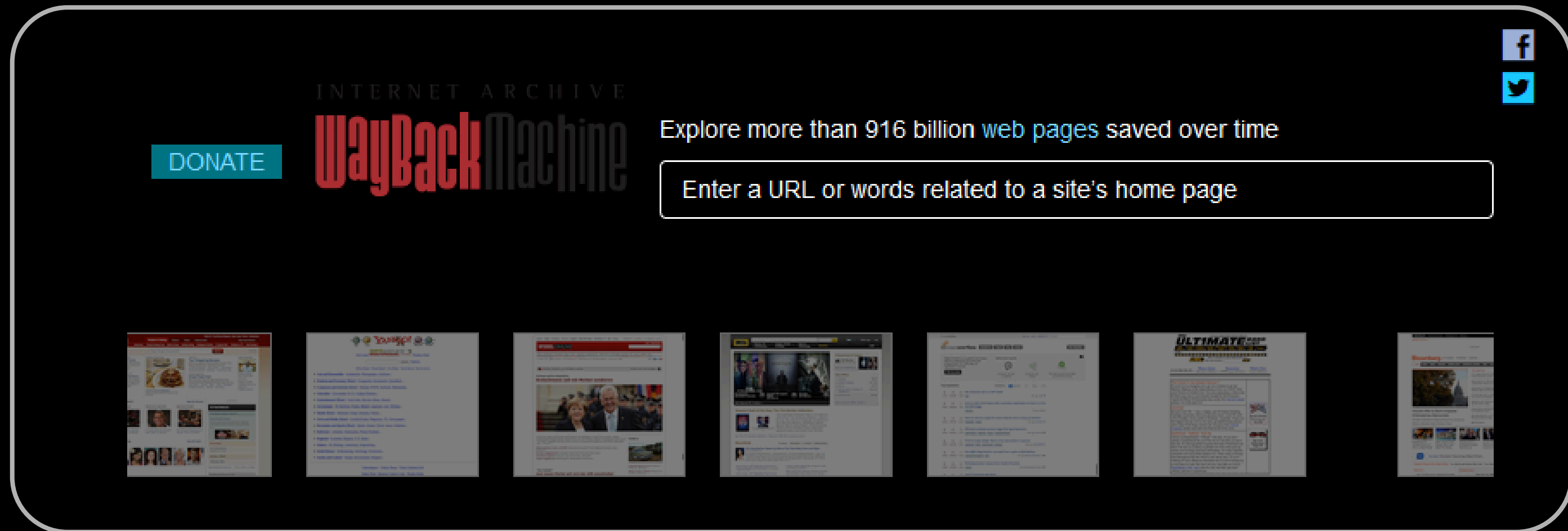
Reviews

*Ah, but it's very rude to sit down without being invited....*

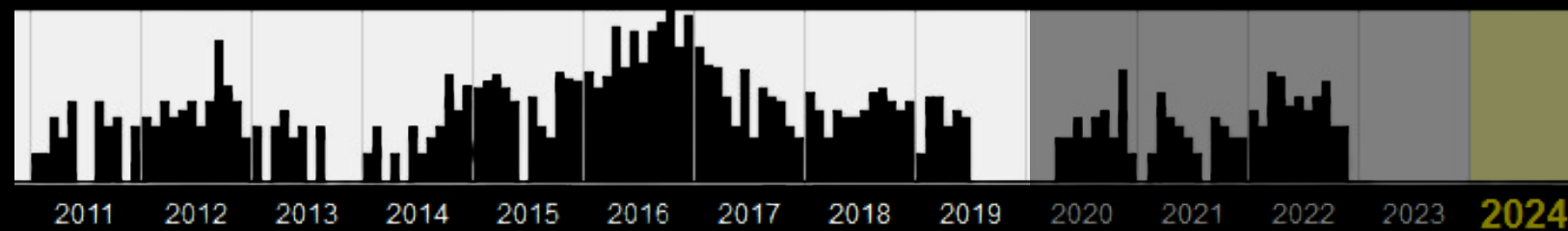


# The Wayback Machine

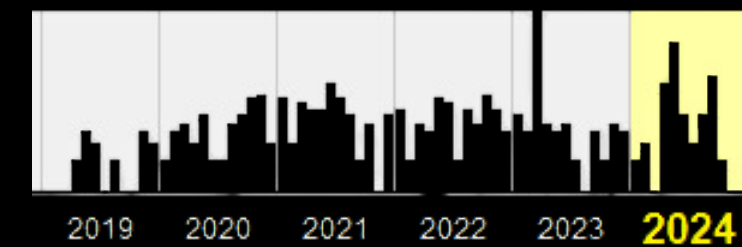
AKA The Internet Archive



RM .com version



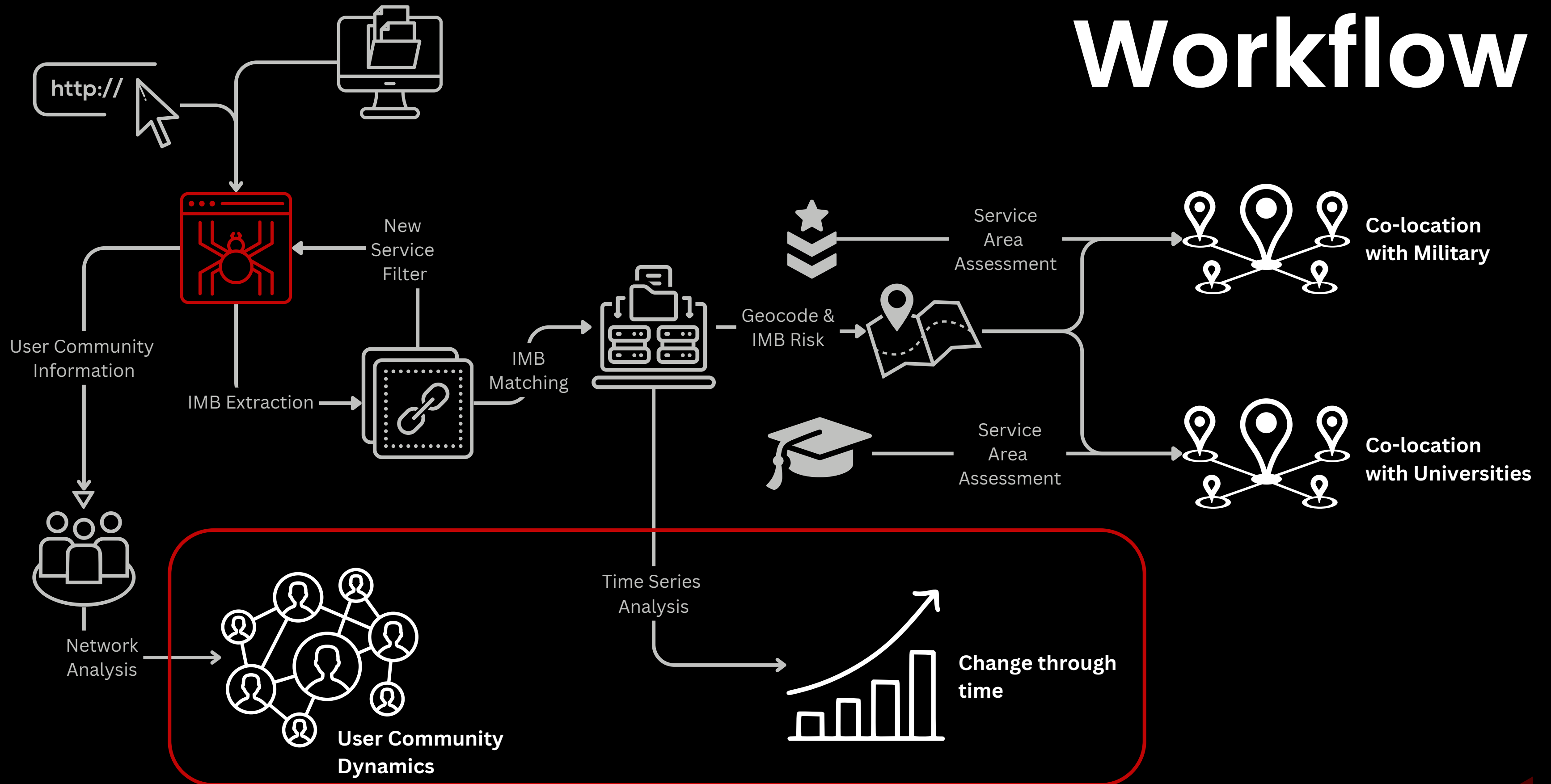
RM .ch version



*Alice had begun to think that very few things indeed were really impossible...*



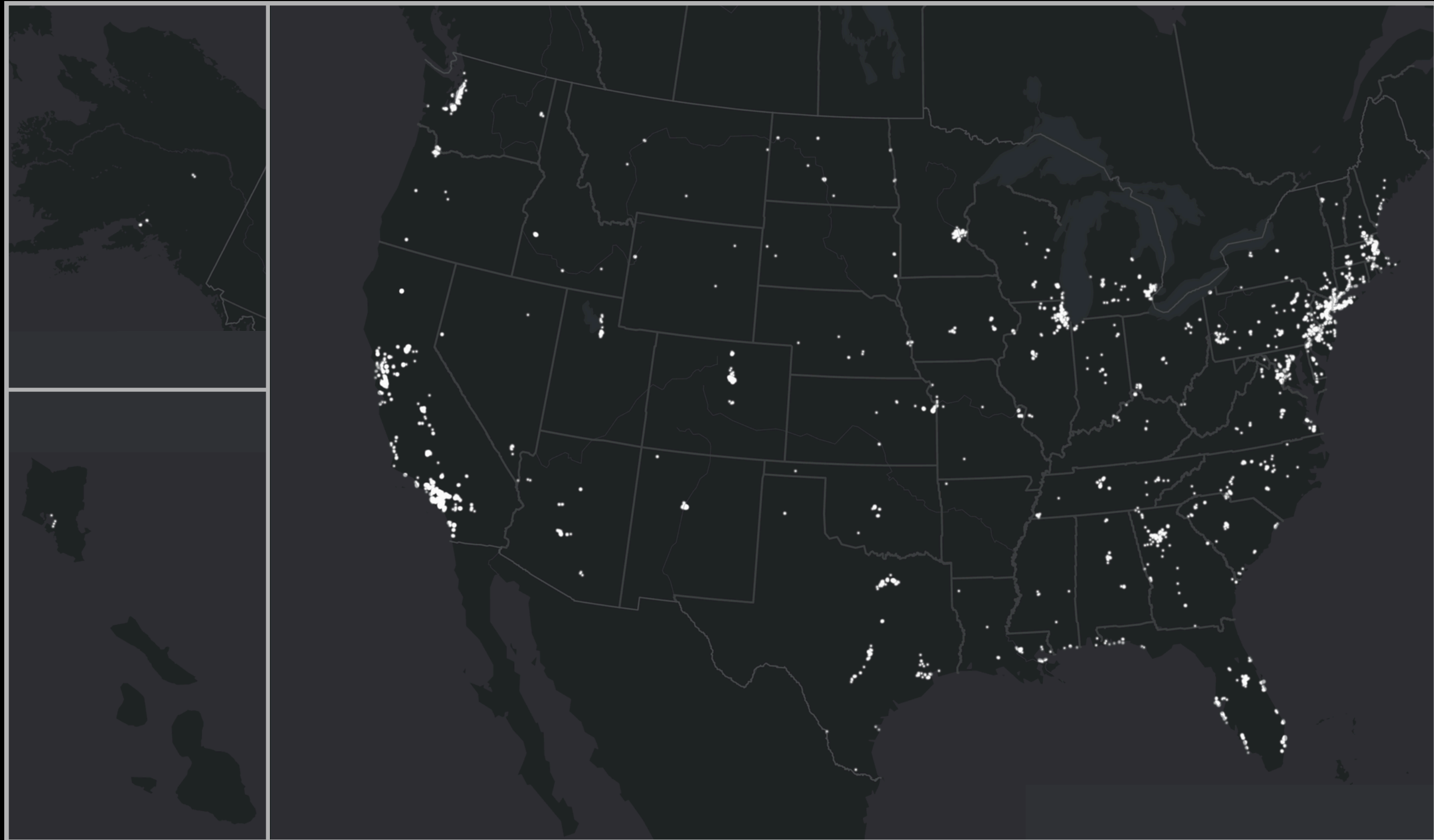
# Workflow



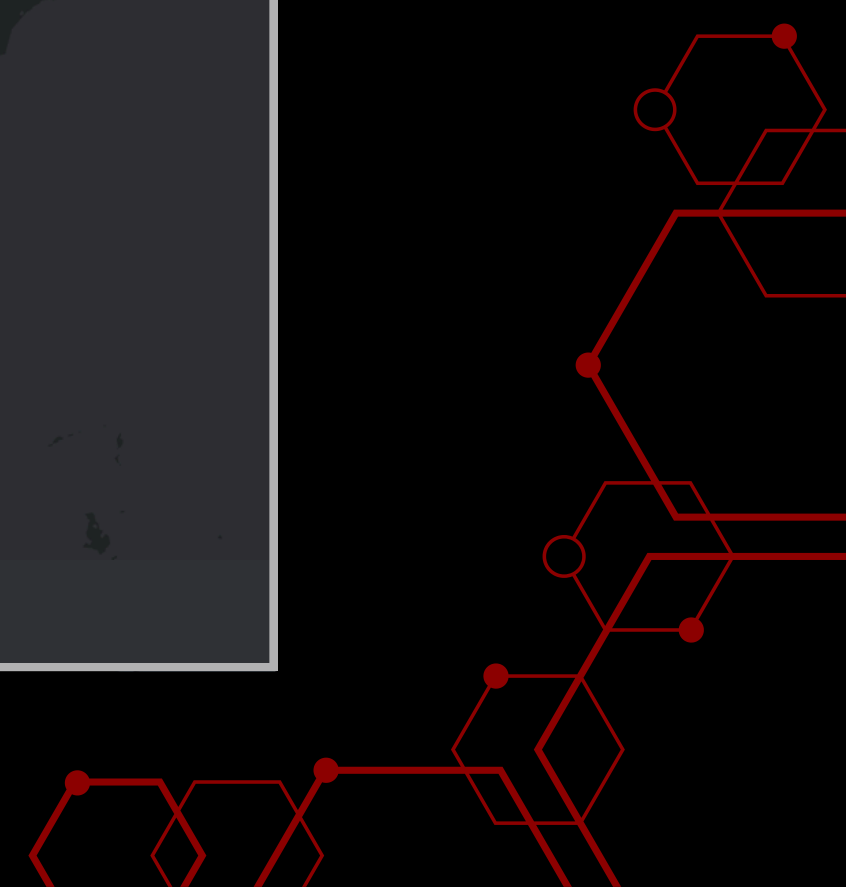
*We're all a little mad here.....*



# Where were IMBs in 2016

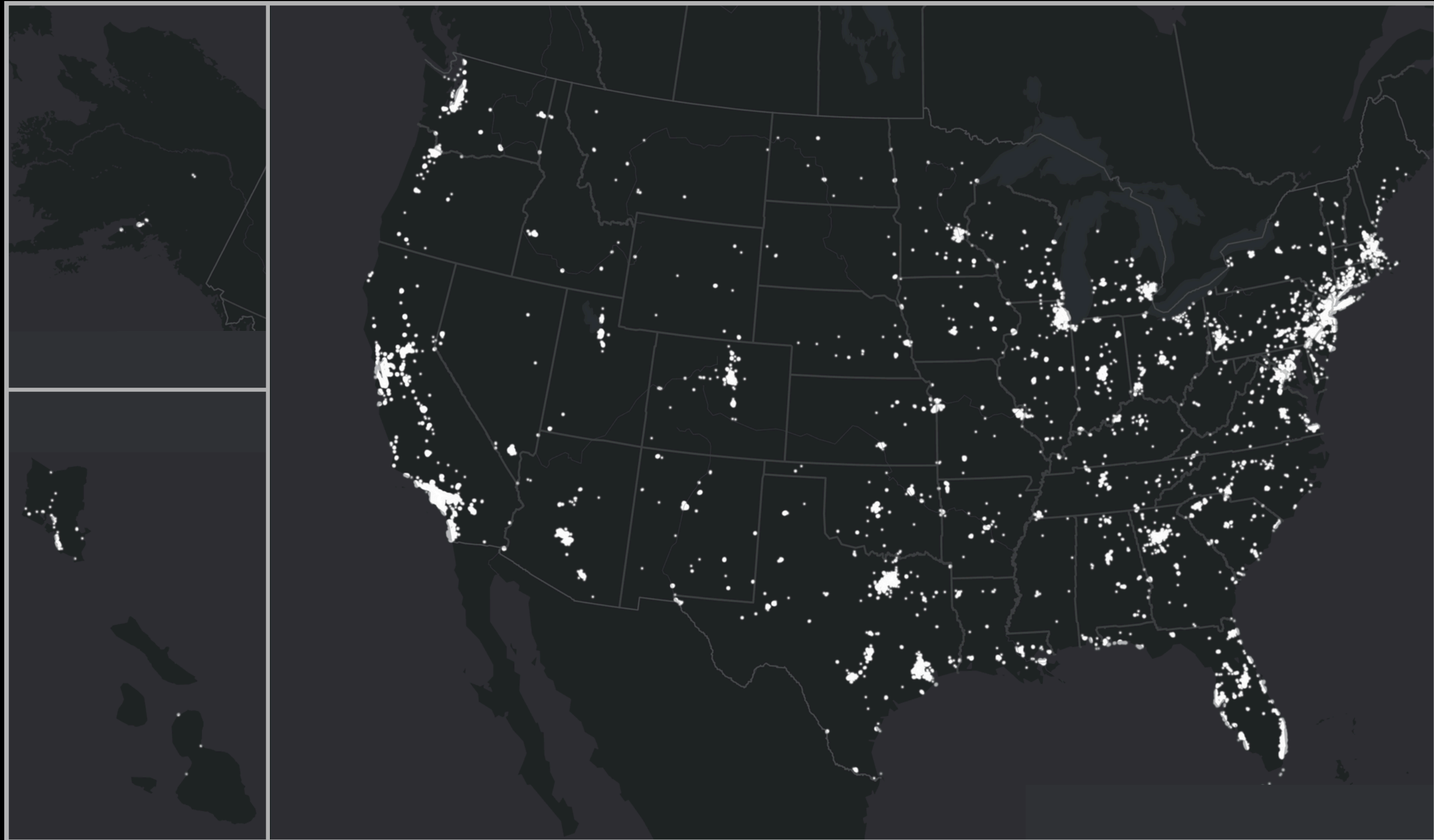


*I know who I was when I got up this morning...*

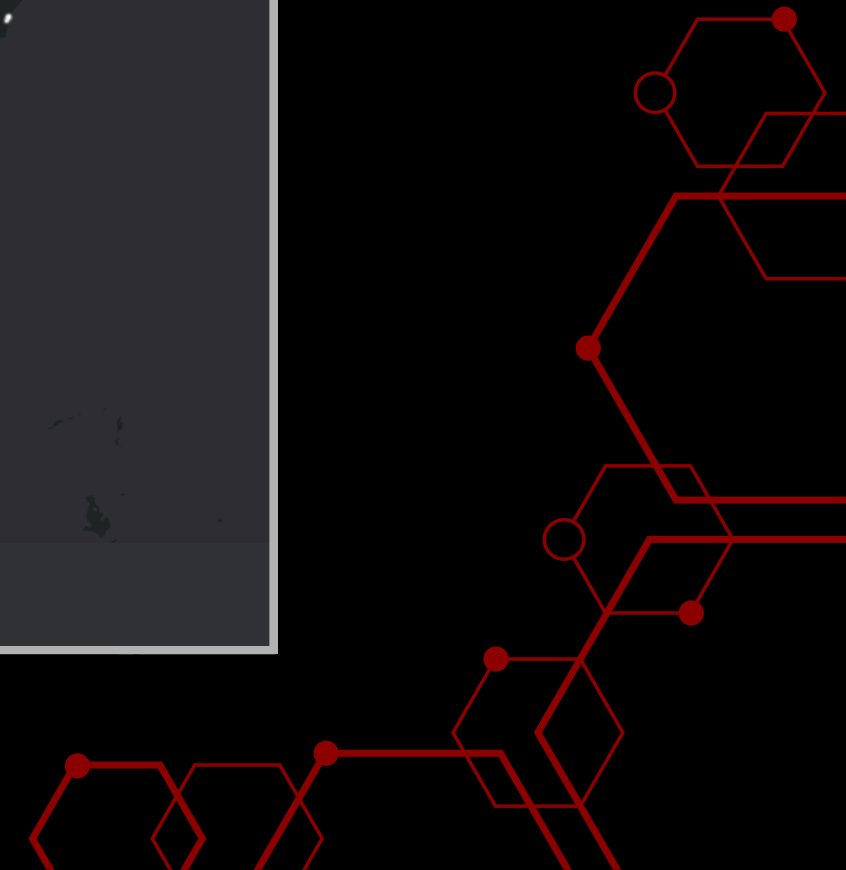




# Where are IMBs in 2024



*...but I think I must have been changed several times since then...*



# How much has the industry grown?

As of April 2025

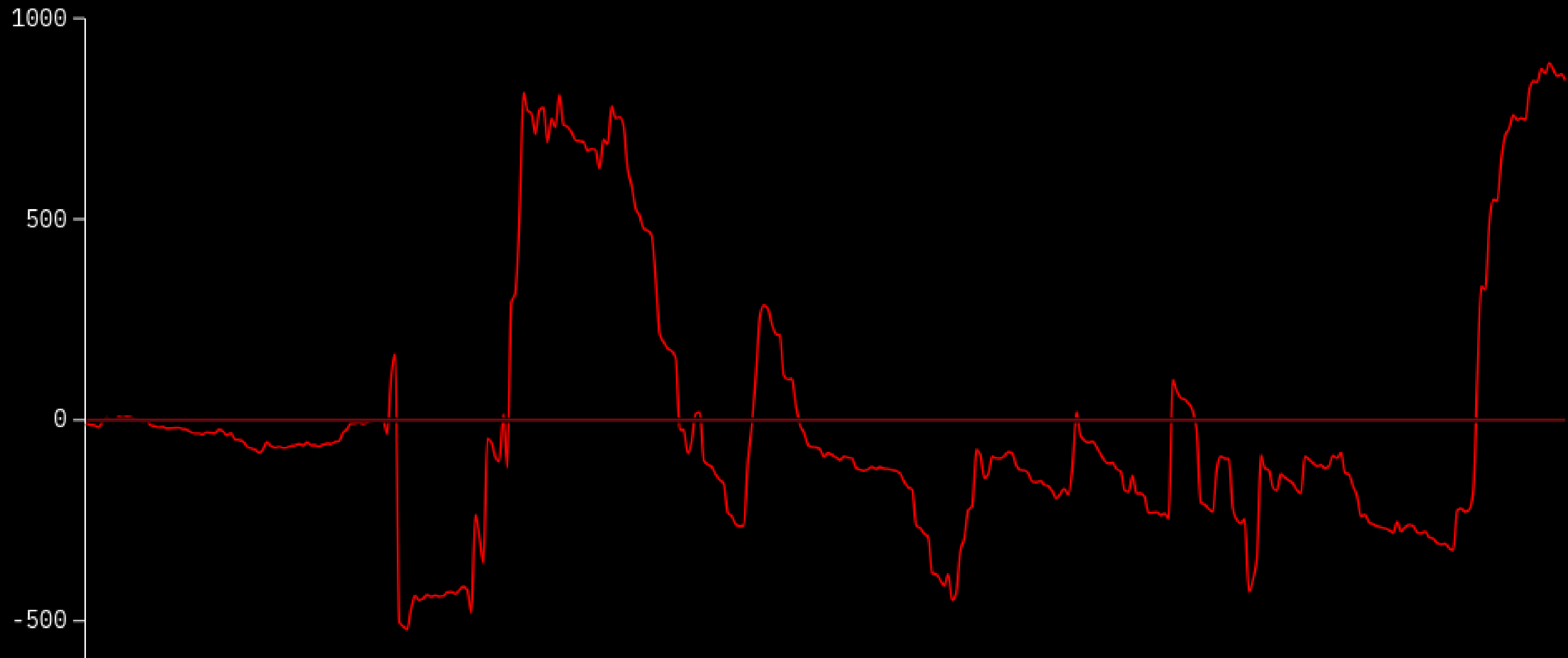
IMBs continue to expand and multiply across the US, with a **110% increase** in the industry over the 9 years



*It's no use going back to yesterday, because I was a different person then...*

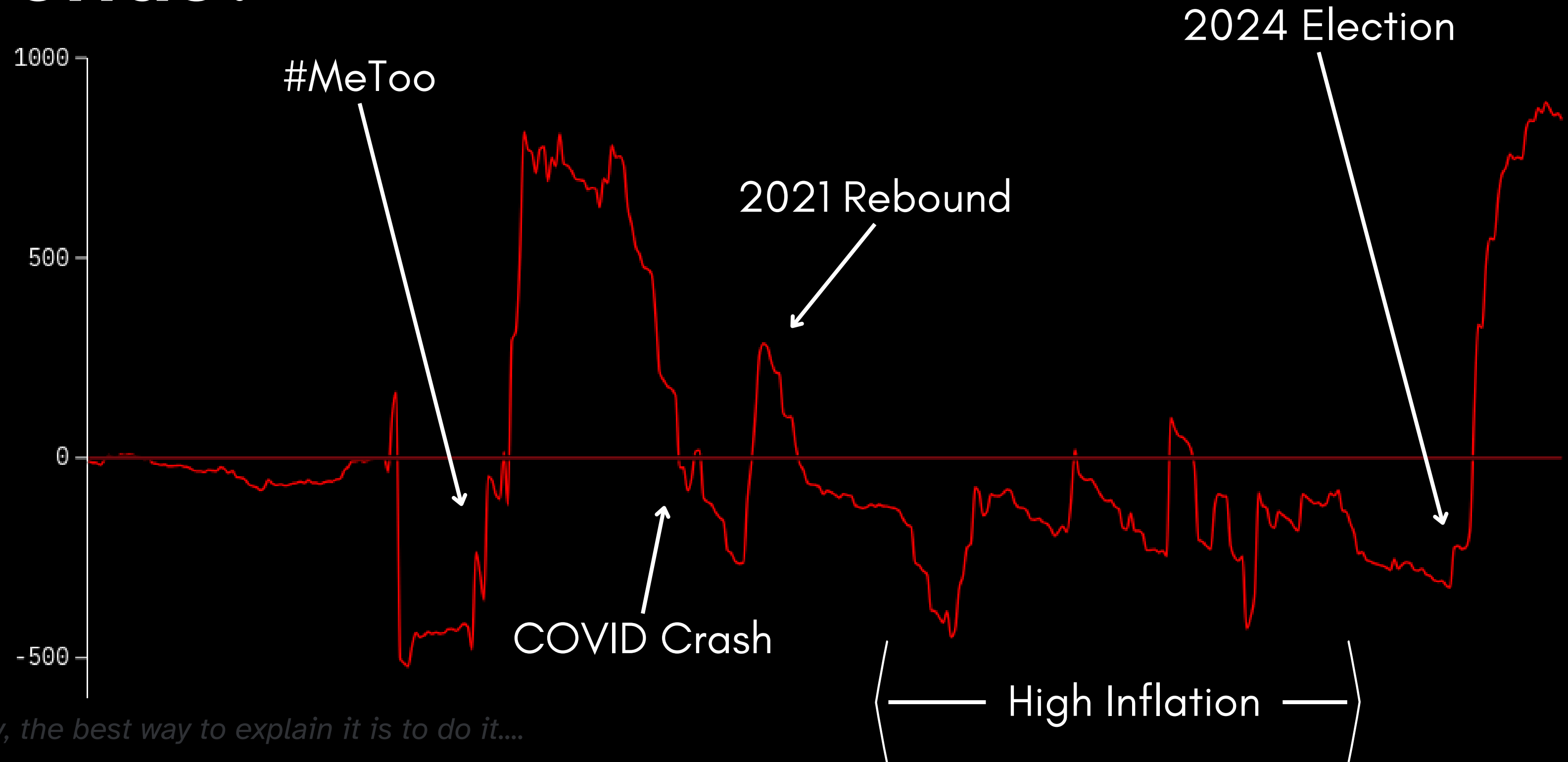


# What about **smaller** trends?



*Why, the best way to explain it is to do it....*

# What about **smaller** trends?



# Where has the **industry** changed?

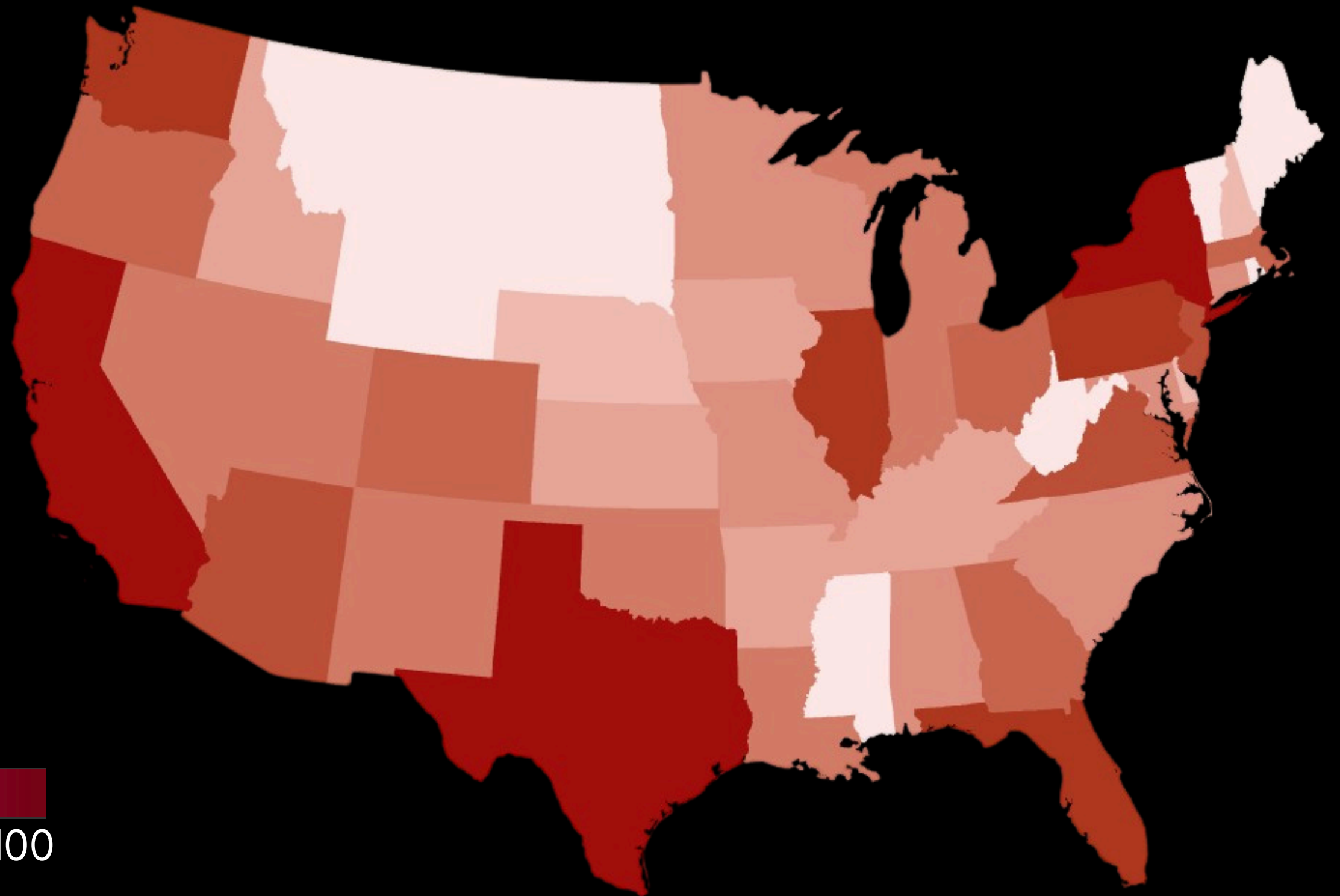
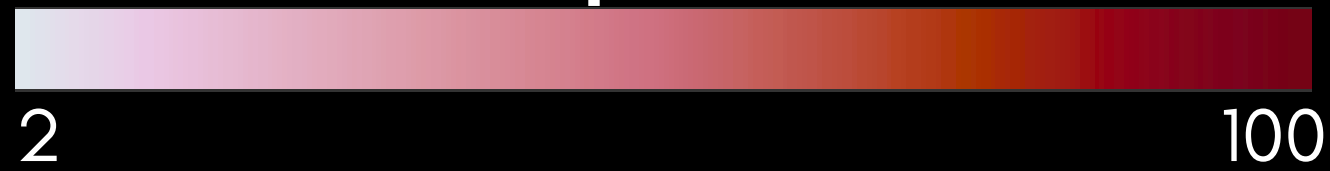
Average number of services offered:

**3**

**26 %**

are Full Service

**Additional Open IMB Per Year**



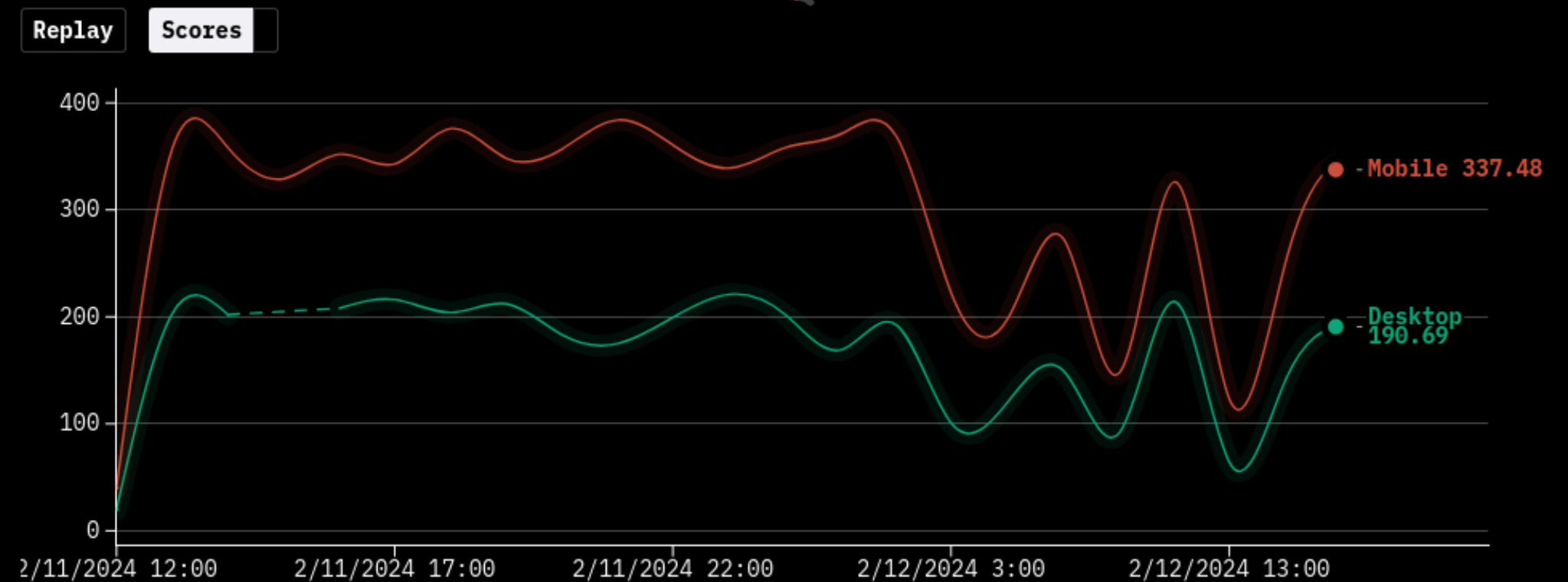
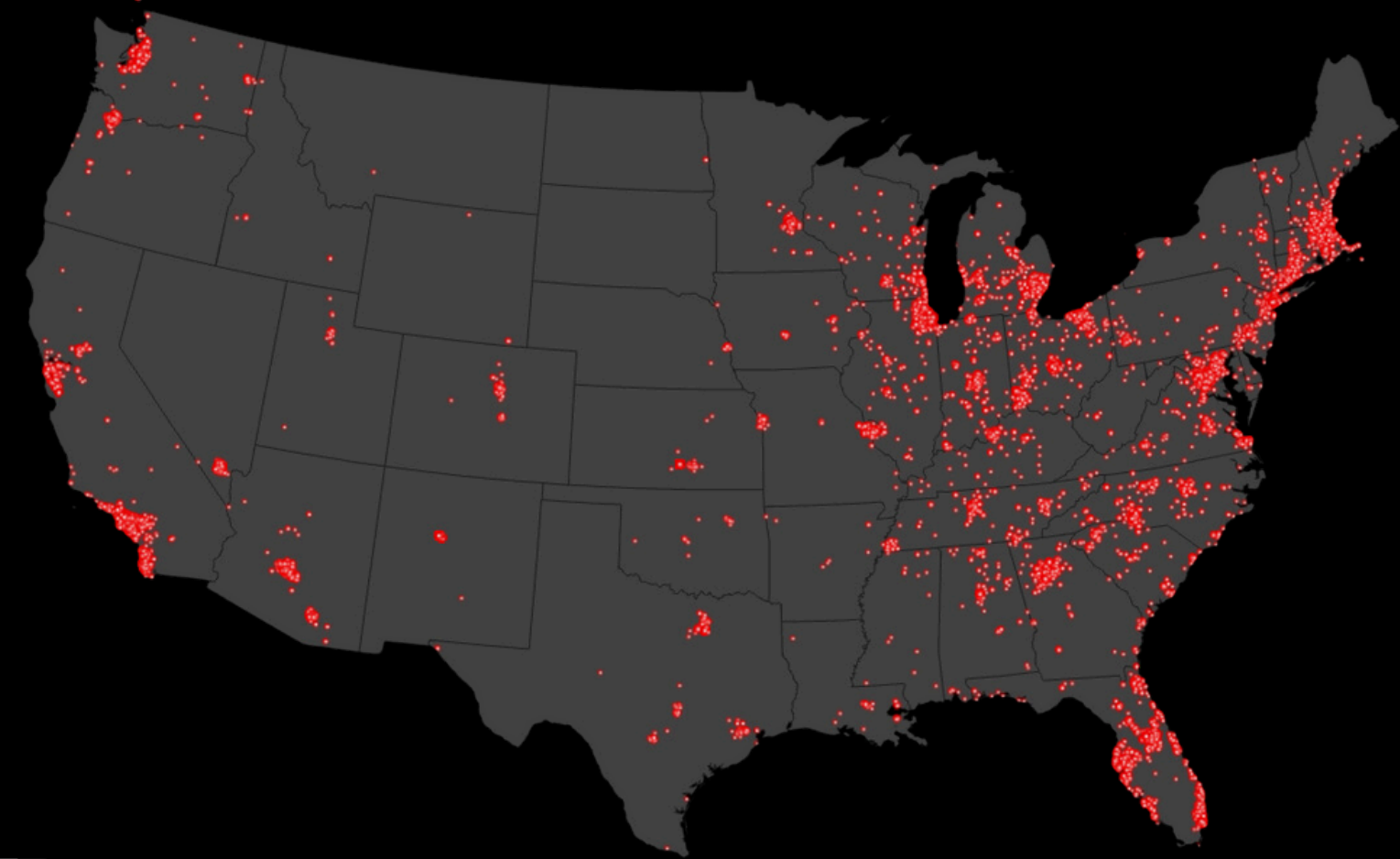
*It takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast as that!*



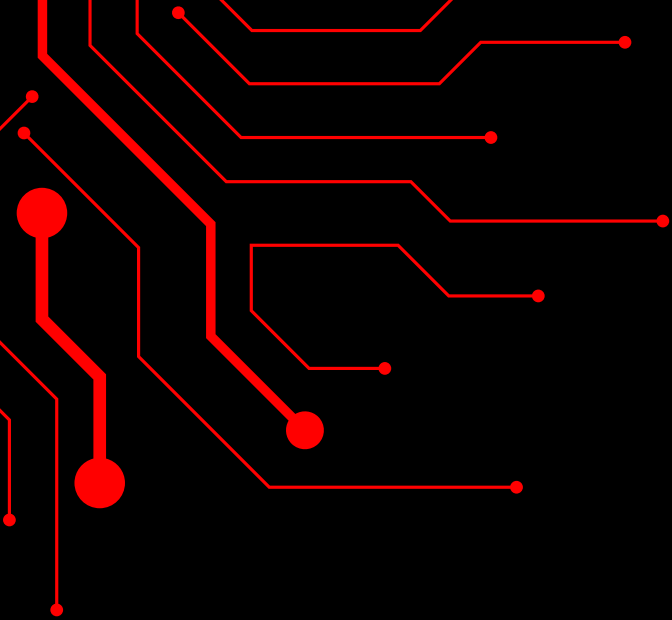
# What about online demand?

Over a **10-day** period

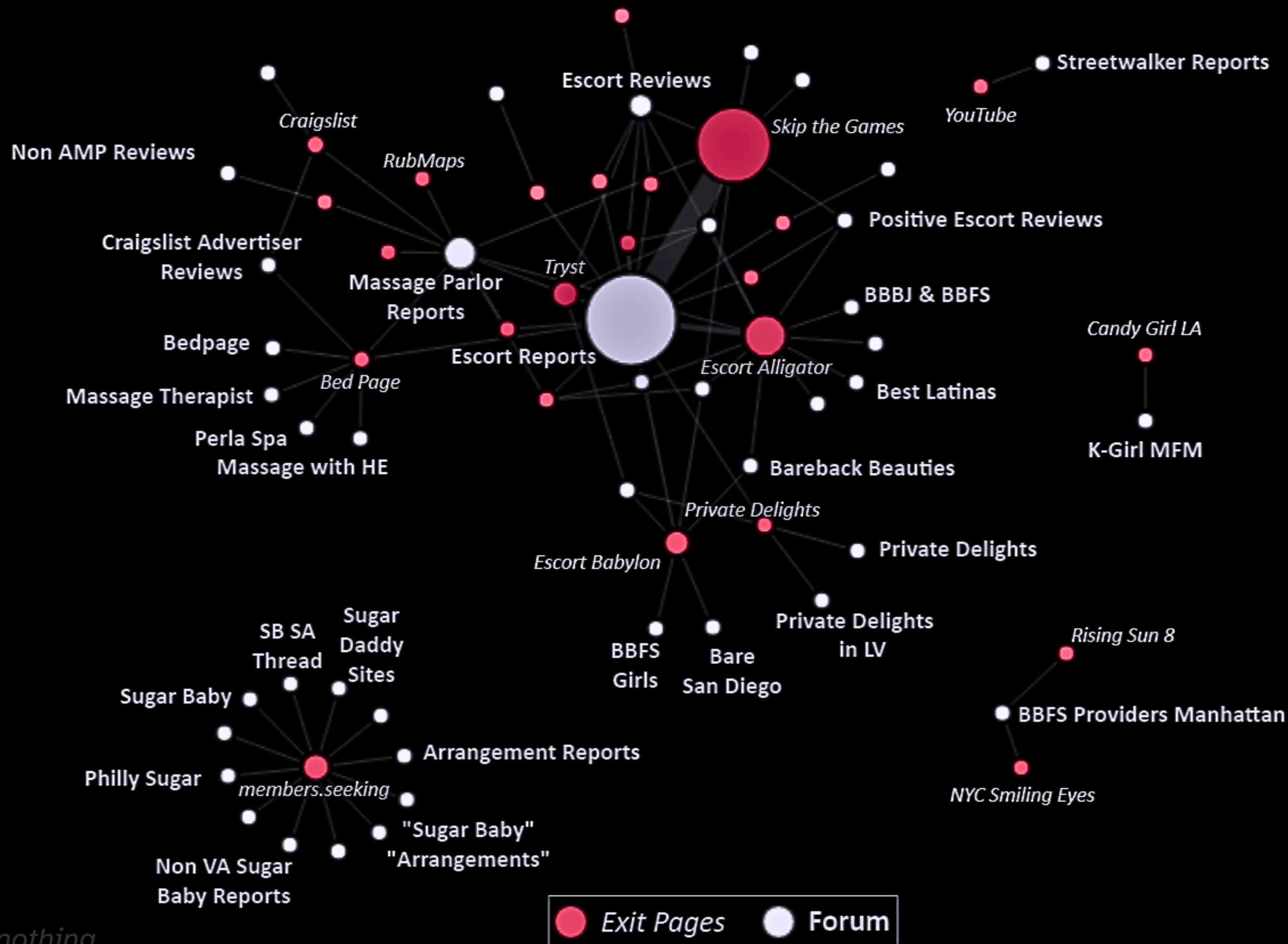
- **36,787** hits to a review forum
- **51 %** were returning users
- **65 %** of user access from phones



*Everything's got a moral, if only you can find it...*



# How do people **navigate** the online IMB space?



*You can always take more than nothing...*

# Things to consider

Privacy, Ethics, & Data Security

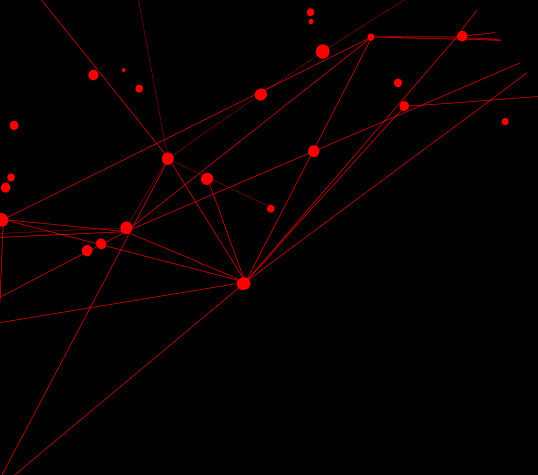


**Terms &  
Conditions**



*I give myself very good advice, but I very seldom follow it...*





*With increasing internet usage,  
advertising, and specialized forums there  
is more data to understand industry  
development and demand demographics  
when paired with GIS technology*

## CONCLUSION

*Well, I've had enough nonsense. I'm going home...*



# Questions?

*We hope you can use this in your own industry*

*I am not crazy my reality is just different than yours...*

