# New and High Frequency Data Products



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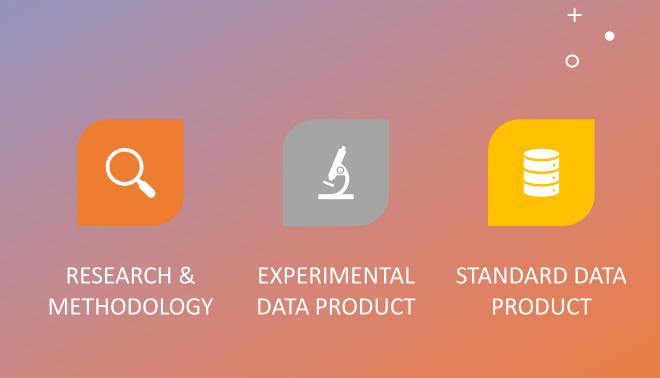
# What is High Frequency Data?

Time series data that is collected at a finer time scale

#### Examples:

- Small Business Pulse Survey
- Business Formation Statistics
- Household Pulse Survey

# Road Map to High Frequency Data



# Small Business Pulse Survey







What is the Small Business Pulse Survey?

A weekly survey that measures the effect . of changing business conditions during the Coronavirus pandemic on our nation's small businesses





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#### Data Collection

- Data is collected in 9-week phases via a questionnaire taking 5-6 minutes to complete 20 questions
- Approximately 1 million small businesses are asked to complete the survey during each phase

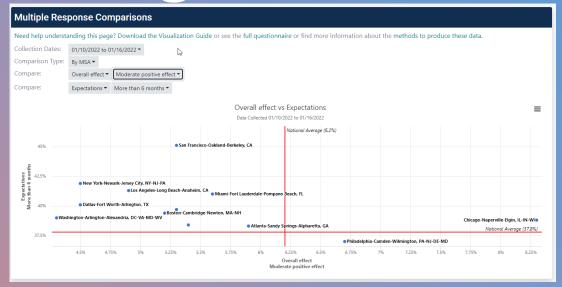
#### Topics include:

- Operational challenges
- Vaccine requirements
- Supply chain impacts
- Outlook and expectations

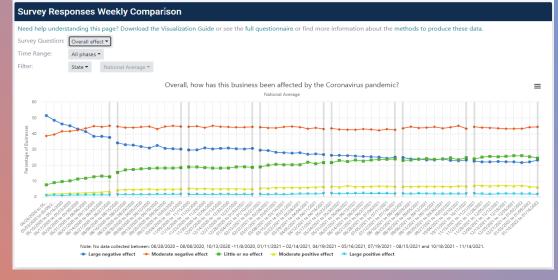


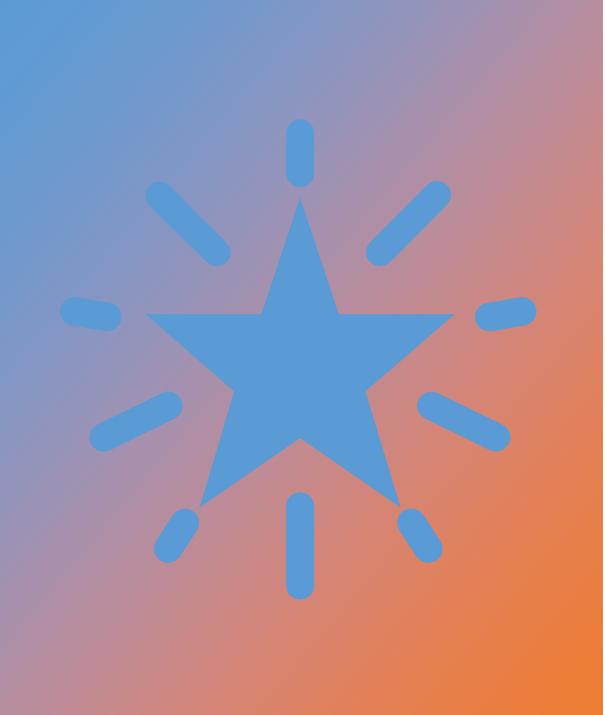
## Visualizing the Data











#### Successes

- Progressed from concept to data release in 39 days
- First economic survey conducted solely by e-mail
- Weekly data releases
- Provides national estimates as well as state, top 50 metropolitan areas, and sector detail
- Leverages existing reporting instrument

# Business Formation Statistics





# What is Business Formation Statistics?

 Focuses on measuring early-stage business + activity with shorter lag o and with more frequent updates

 Derived from applications for Employer Identification Number (EIN)

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#### February 10 First Monthly BFS **BFS** Timeline Release, including monthly series by 2-digit **April 9 NAICS December 8** First release of November 11 **July 17** Remove Weekly BFS Annual release of First release of Quarterly July 1 experimental (national, regional) county level Business BFS by Economic Indicator status; make Annual county April 16 Application series Division standard data **BA** series Weekly state data through 2019 (national, regional, state) through 2020 product added **Publications by Year 2019** – 2 Quarterly Releases **Early 2022 2020** – 41 Weekly Releases, 4 Quarterly October 22 Updated release of Releases, 1 Annual Release Special release of Weekly BFS by NAICS **2021** (estimated) – 49 Weekly Releases, Weekly BFS by NAICS for 2019-2021 11 Monthly Releases, 1 Quarterly for 2019-2020 Release, 1 Annual Release **January 14** Final Quarterly BFS November 10 United States® Release Implement new **HBA NAICS** Criteria

# Types of Business Formation Series

Comprised of four Business Application Series and eight Business Formation Series

BFS Publications			
Frequency	Weekly	Monthly	Annual
Availability	Week 1, 2006-Week 3, 2022	July 2004-December 2021	2005-2020
Series	4 Application series, not seasonally adjusted	4 Application series 8 Formation series, seasonally adjusted and not seasonally adjusted	1 Application Series
Geography	National, Regional, State	National, Regional, State	County
Other	Annual release of weekly data by 2- and 3-digit NAICS from 2019 to 2020 Week 40	National industry series	

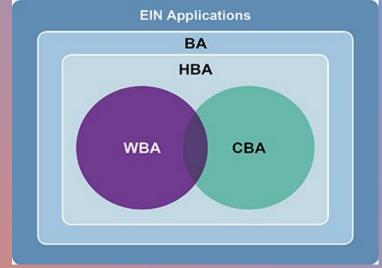
## • Business Application Series

Several criteria applied to the entire set of EIN applications to generate business application series

**Business Applications (BA)** - The core series that includes all EIN applications made in the U.S. (50 states + DC) except those filed without a business intent:

- Trusts, estates, tax-liens
- Public entities
- Some other filings with little or no business intent (e.g. personal tax/finance related filings, some household activities, etc.)

### Business Application Series



High-Propensity Business Applications (HBA): Applications that have a relatively high likelihood of becoming employer businesses

- From corporate entities
- Indicate hiring employees, purchasing a business or changing organizational type
- Provide a date for first-wages paid/planned

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Business Applications with Planned Wages (WBA) – a subset of HBA

Provide a date for first-wages paid/planned

Business Applications from Corporations (CBA) – a subset of HBA

From corporate entities



## • Business Formation Series

Use Census Bureau's Longitudinal Business Database (LBD) to identify new employer firm (EIN) births from business applications and the timing (quarter) of these births

#### Business Formations within 4 Quarters (BF4Q):

Employer businesses that originate from Business Applications (BA) within a four quarter window from the quarter of application

#### Projected Business Formations within 4 Quarters (PBF4Q):

- Projected employer businesses that originate from Business Applications (BA) within a four-quarter window from the quarter of application
- Provides estimates for the quarters for which actuals are not yet available
- Estimates based on a model of employer birth indicator as a function of application characteristics

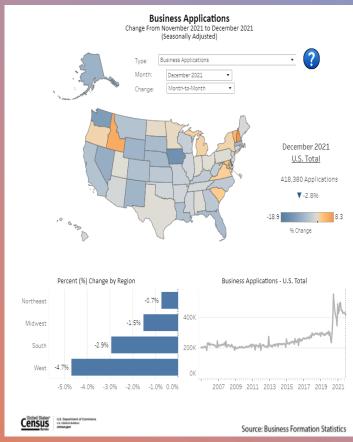
Series that piece together actual and projected formations, and series that measure average duration from application to formation (SBF4Q,DUR4Q)

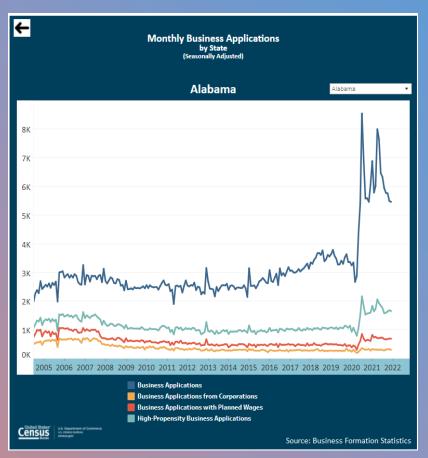
All series also provided for an 8-quarter window (BF8Q, PBF8Q, SBF8Q, DUR8Q)

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## Visualizing the Data









### + . Data Featured Widely During Pandemic

For New Congress And

Forbes, 2/4/21

**Administration: State Of Small Business And Entrepreneurship** 

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**Business Startups Surged Amid Covid-19** 

**Pandemic** 

Insurance Journal, 1/19/2021

Americans' Shift to Be Their Own Bosses Is Lasting in Pandemic

Bloomberg, 7/13/21

U.S. applications to start a business rise steadily in May

Reuters, 6/10/21

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People are quitting their jobs at record business rise steadily in May rates. That's a good thing for the economy. CBS News, 6/21/21

Entrepreneurship during economic uncertainty: Why millions of people started a business during the pandemic NBC News, 9/14/21

With small businesses suffering, women turning to entrepreneurship

Greater Baton Rouge Business Report, 1/26/21

New Business Formation Tells
Of A Brighter Immediate
Economic Outlook
Forbes, 9/7/21

What America's Startup Boom Could Mean For The Economy

NPR, 6/29/21

Shopify's Secret Weapon Is Thousands of New Business Owners Wall Street Journal, 2/16/21

Start-Up Boom in the Pandemic
Is Growing Stronger
The New York Times,
8/19/21

# Household Pulse Survey

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# What is the Household Pulse Survey?

Measures the effect of the pandemic on people's lives



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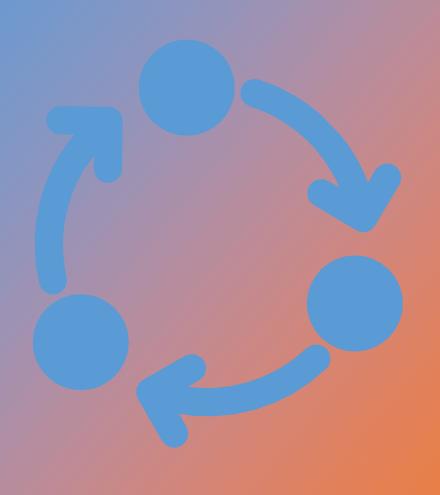








U.S. Department of Defense +



#### Household Pulse Data

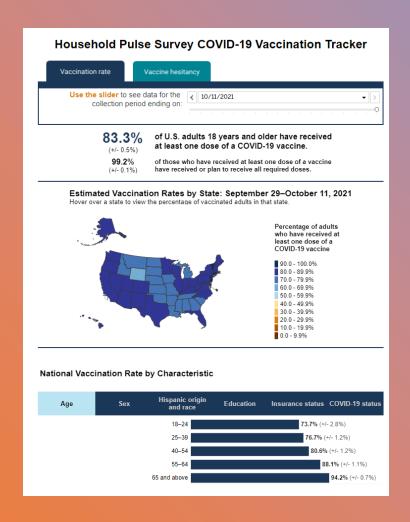
Data is collected and disseminated in a twoweeks on and two-weeks off approach via a 20 minutes online survey

Participants were randomly selected and the invitation to respond came from official Census correspondence via e-mail or text message

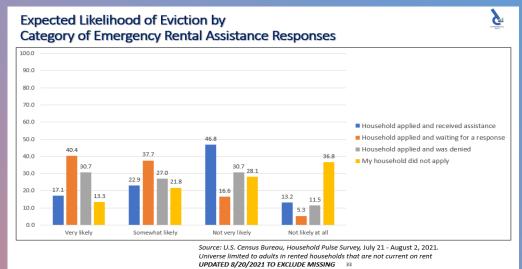
#### Topics include:

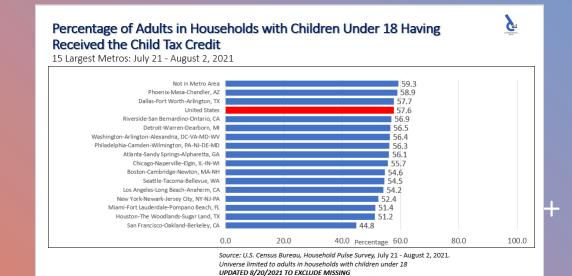
- Childcare
- Education
- Employment
- Energy Use
- Food Security
- Health
- Housing
- Household Spending
- Child Tax Credit Payments
- Transportation
- Intent to receive a COVID-19 vaccination

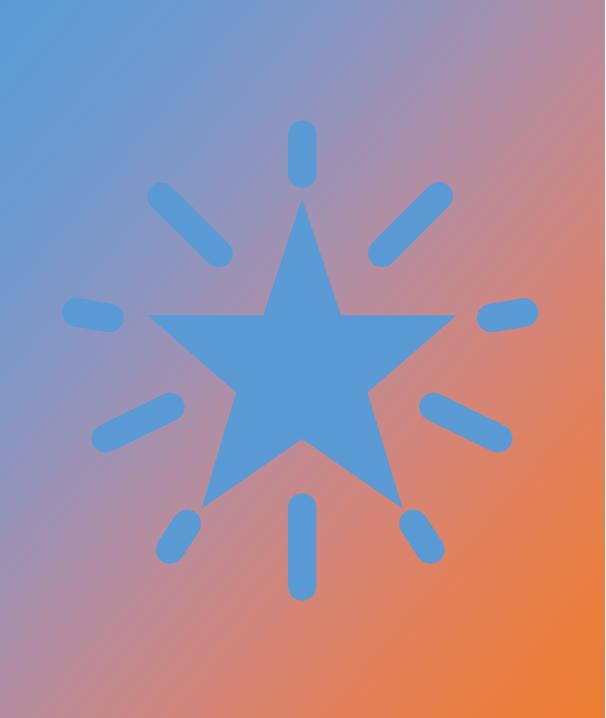
## Visualizing the Data



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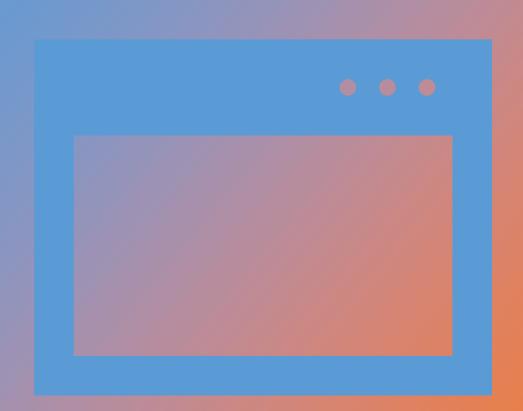






#### Successes

- Creation of a faster stripped-down version of a regular survey with a few new features
- Rapid data collection and release prioritized along with methodological transparency has a unique and separate value in the portfolio of data products
- Filled an incredible hunger and need for rapid information sources, especially during major events



#### Resources

Small Business Pulse
 Survey (census.gov)

Business Formation
 Statistics (census.gov)

 Household Pulse Survey (COVID-19) (census.gov)