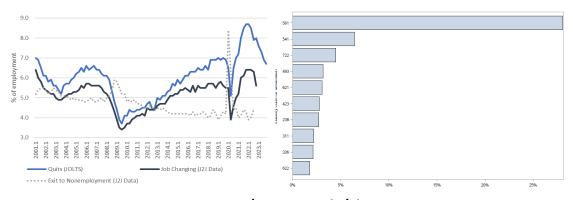
# Job-to-Job Flows (J2J) Training

#### A Primer on Using New NAICS3 Tabulations



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Longitudinal Employer-Household Dynamics
U.S. Census Bureau
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Any opinions and conclusions expressed herein are those of the author and do not represent the views of the U.S. Census Bureau. All tables and figures use data that is publicly available



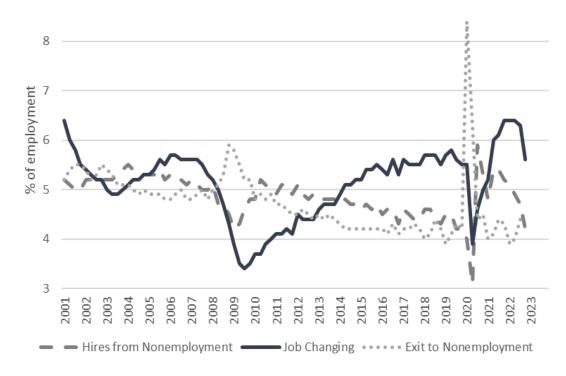
### **Training Outline**

- J2J Data Overview
- Important Concepts and Data Structure
- Overview of J2J NAICS3 release
- Application of J2J data to measuring effect of COVID on labor market

Please ask questions and provide comments anytime!

### **J2J Data Product**

- Job-to-Job Flows (J2J) are national statistics on job mobility in the U.S.
- With these data, users can learn more about workers entering and exiting nonemployment as well as those moving from one job to another.



Note: J2J National Data. All data are seasonally adjusted.

### **J2J Data Product**

- Better understand worker turnover
  - Are separations mostly coming from workers changing jobs or from workers transitioning into nonemployment?
  - When workers change jobs, are they switching to new industries or moving to new locations?
- See the impact of job ladders
  - Are job moves leading to workers moving 'up the job ladder' to better paying industries and employers?
- Look at economic migration across labor markets
  - What labor markets are we losing workers to? Which workers? What industries in my state/metro are importing workers from other states/metros?

## **Important Concepts**

- Workers can hold more than one job
- The highest paying job is identified as the main job
- If a worker does not have a main job, that worker is defined as non-employed
- To identify worker movements, we compare employment status and main job between the beginning and end of a quarter
- NAICS assignment is at business characteristic at the establishment-level

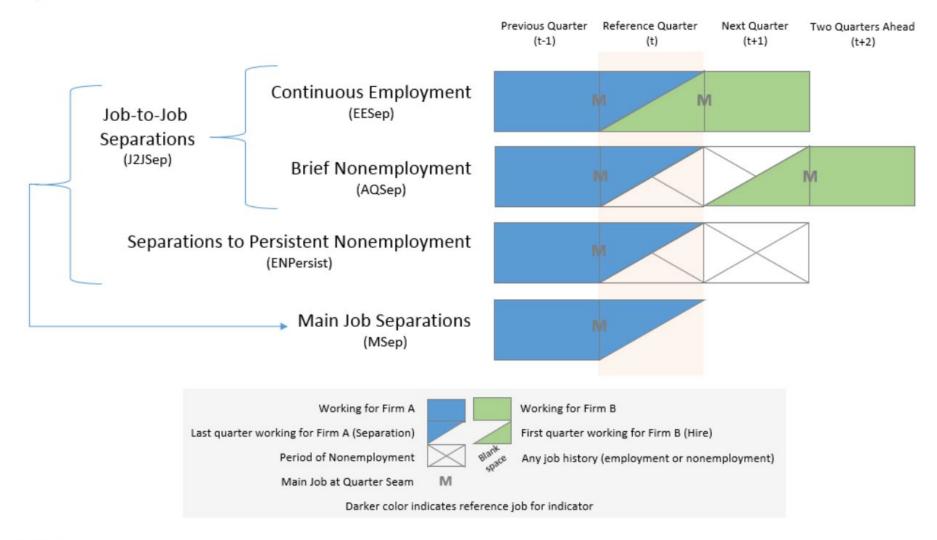
# **Important Concepts**

	Employment			
	Beginning of the quarter	End of the quarter		
Job Stayer (JobStayS)	Main Job at Firm A	Main Job at Firm A		
Job Changer (J2J)	Main Job at Firm A	Main Job at Firm B		
Flow from Nonemployment (NEPersist)	None	Main Job at Firm B		
Flow to Nonemployment (ENPersist)	Main Job at Firm A	None		



#### **Diagramming J2J Indicators**

#### Separations



### **Data Structure**

#### Core measures (J2J)

- Hires and separations resulting from job change
- Hires from and separations to nonemployment

#### Rates measures (J2JR)

 Rates calculated by dividing J2J measures by the number of main jobs

### Origin-destination measures (J2JOD)

 Subset of hires where the worker separated from their previous main job in the same or previous quarter

### **New J2J NAICS3 Release**

- New and experimental research release of job flow counts across industries from the North American Industry Classification System (NAICS) down to a more detailed subsector level (3-digit NAICS)
- Analyzing industry subsectors rather than just industry sectors captures job shifts within and across industries, painting a richer picture of how frequently workers changed jobs
- Today, I will use the new J2J NAICS3 release to tell you something about how workers changed jobs during following the COVID pandemic
- But first, I will document some basic facts about the labor market during the pandemic

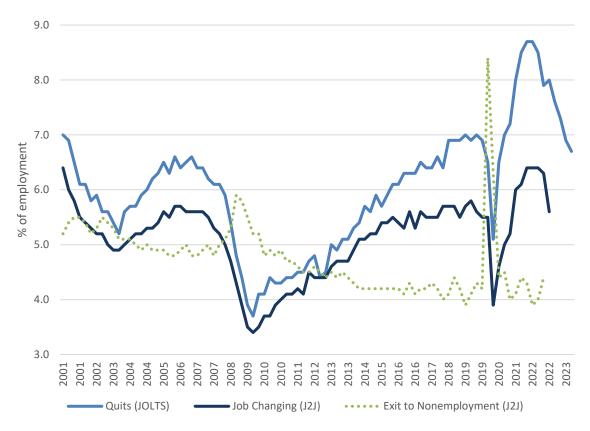
### **NAICS Sector vs subsector**

- Retail Trade (NAICS 44-45)
  - Motor Vehicle and Parts Dealers (NAICS 441)
  - Furniture and Home Furnishings Stores (NAICS 442)
  - Electronics and Appliance Stores (NAICS 443)
  - Building Material and Garden Equipment and Supplies Dealers (NAICS 444)
  - Food and Beverage Stores (NAICS 445)
  - Health and Personal Care Stores (NAICS 446)
  - Gasoline Stations (NAICS 447)
  - Clothing and Clothing Accessories Stores (NAICS 448)
  - Sporting Goods, Hobby, Book, and Music Stores (NAICS 451)
  - General Merchandise Stores (NAICS 452)
  - Miscellaneous Store Retailers (NAICS 453)
  - Nonstore Retailers (NAICS 454)

- Accommodation and Food Services (NAICS 72)
  - Accommodation (NAICS 721)
  - Food Services and Drinking Places (NAICS 722)

# The Great Resignation or Reshuffle

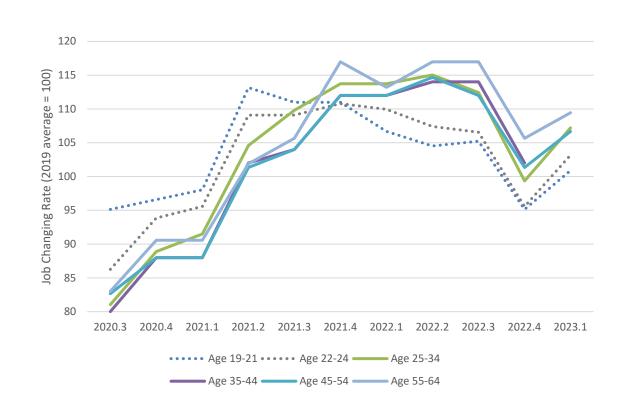
- Use BLS JOLTS quits series to document rise in job quits beginning in late 2020
- Using J2J data, we can say Job-to-job moves increased while separations to nonemployment quickly returned to pre-pandemic rates



Note: J2J National Data. All data are seasonally adjusted.

# The Great Reshuffle by Age

- Job-changing among young workers peaked early in the pandemic recovery
- Rates for prime-age and older workers continued to climb until late in 2022



Note: J2J National Data. All data are seasonally adjusted.

### **Using J2J NAICS3 Data**

- So far, I've only used one sided J2JR measures
- New J2J Job Flows detailed industry tables tell us where workers who left one industry subsector went
- Use Job-to-job (EE) counts from OD tables only
- Aggregate to a calendar year
- Analysis is done for at all-available-states level
- See "From Great Resignation to Great Reshuffling" America Counts Story
- Use ranked-NAICS3-J2JOD.pdf found here <u>https://lehd.ces.census.gov/data/experimental/j2j/j2j\_subsector/R2024Q1/ranked-NAICS3-J2JOD.pdf</u>

# Job transitions by NAICS subsector

- Consider subsectors that have large jobto-job transition rates
- Workers that undergo a job transition often change subsectors

Industries with largest exits to another job	_	% remaining in industry in 2021
Admin & Support Services (561)	28.2	28.1
Food Service and Drinking Places (722)	44.9	43.6
Professional and Technical Services (541)	39.3	40.7
Ambulatory Health Care (621)	41.4	39.8
Educational Services (611)	41.0	42.2
Speciality Trade Contractors (238)	45.5	42.4
Nursing and Residential Care Facilities (623)	36.4	31.4
General Merchandise Stores (455)	11.7	11.4
Hospitals (622)	31.4	28.2
Food and Beverage Stores (445)	13.7	11.7

Note: J2J NAICS3 Data.

### **NAICS Sector vs subsector**

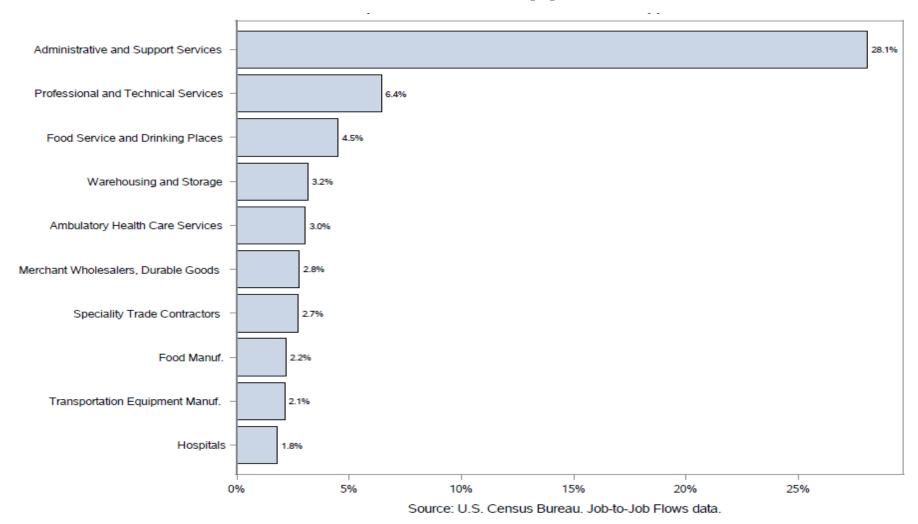
- Administrative and Support and Waste Management and Remediation Services (NAICS 56)
  - Administrative and Support Services (NAICS 561)
  - Waste Management and Remediation Services (NAICS 562)

- Health Care and Social Assistance (NAICS 62)
  - Ambulatory Health Care Services (NAICS 621)
  - Hospitals (NAICS 622)
  - Nursing and Residential Care Facilities (NAICS 623)
  - Social Assistance (NAICS 624)

# **Example:** Administrative and Support Services subsector

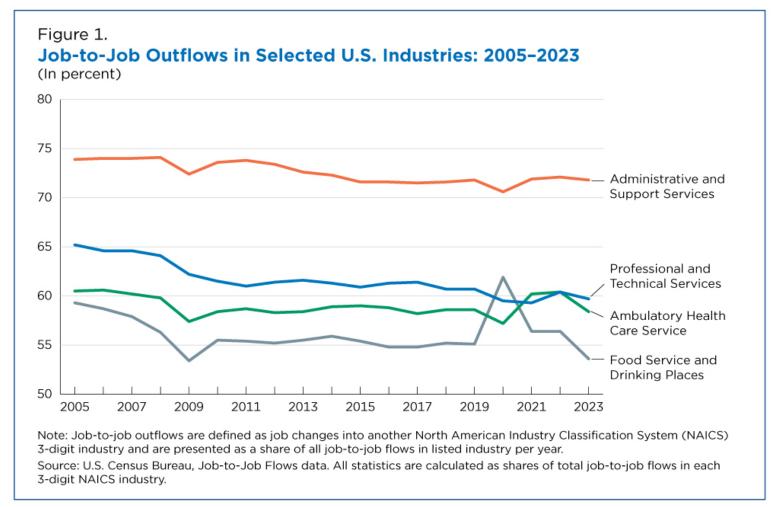
- https://www.bls.gov/iag/tgs/iag561.htm
- "Industries in the Administrative and Support Services subsector group establishments engaged in activities that support the day-to-day operations of other organizations. The processes employed in this sector (e.g., general management, personnel administration, clerical activities, cleaning activities) are often integral parts of the activities of establishments found in all sectors of the economy..."

# Top Destinations for Workers Leaving Jobs in Administrative and Support in 2021





# Job transitions by NAICS subsector





# NAICS3 Transitions during COVID

Table 1.

10 U.S. Industries With Largest Job-to-Job Flows and Associated Destination Industry:
2019 and 2021

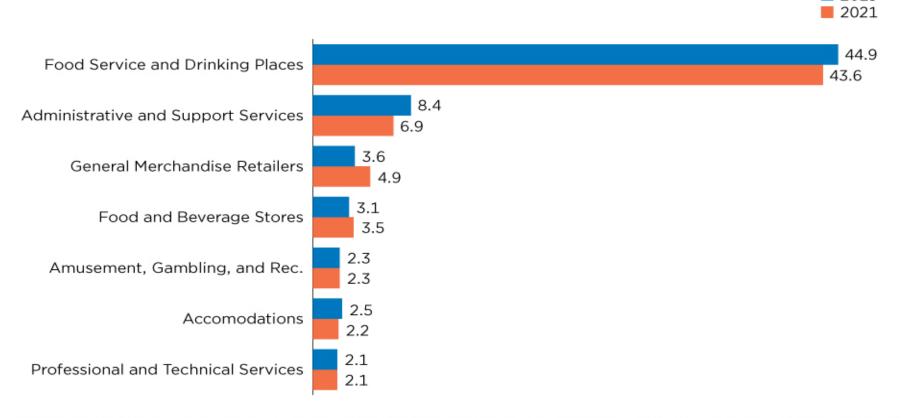
		Percent moving to this industry	
Industries with largest exits to other jobs	Most common destination		
		2019	2021
Admin & Support Services	Professional and Technical Services	6.0	6.4
Food Service and Drinking Places	Admin & Support Services	8.4	6.9
Professional and Technical Services	Admin & Support Services	10.4	9.4
Ambulatory Health Care	Hospitals	10.5	10.3
Educational Services	Professional and Technical Services	6.0	6.8
Specialty Trade Contractors	Admin & Support Services	8.9	8.6
Nursing and Residential Care Facilities	Admin & Support Services	8.8	11.1
General Merchandise Stores	Food Service and Drinking Places	12.4	13.5
Hospitals	Ambulatory Health Care	22.1	21.7
Food and Beverage Stores	Food Service and Drinking Places	16.8	17.8

Note: All statistics are calculated as shares of total job-to-job flows in each 3-digit NAICS industry.

Source: U.S. Census Bureau, Job-to-Job Flows data and Survey of Income and Program Participation, 2021 public-use data.

Figure 2.

Top Destination Industries of Workers Leaving Jobs in Food and Drinking Places: 2019 and 2021
(In percent)

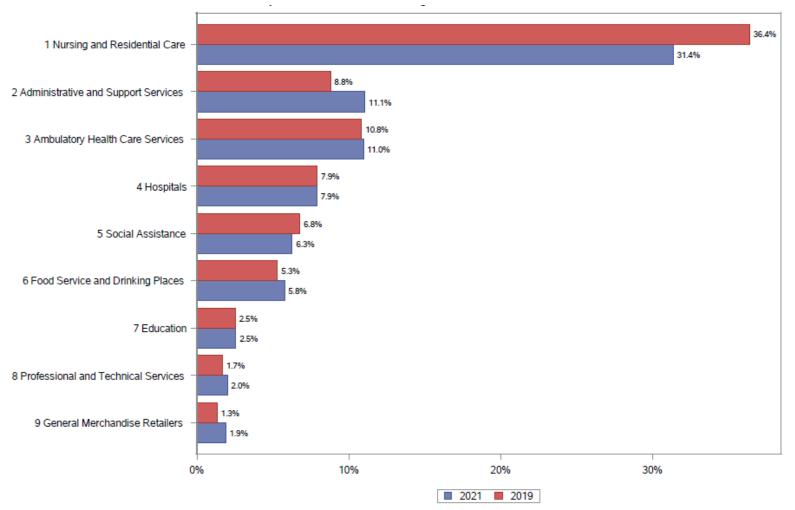


Source: U.S. Census Bureau, Job-to-Job Flows data. All statistics are calculated as shares of total job-to-job flows into each 3-digit NAICS industry.



2019

# Top Destinations for Workers Leaving Jobs in Nursing and Residential Care Facilities: 2019 and 2021





# **Key Findings**

- Generally, Admin & Support Services NAICS subsector plays a large role accounting for jobto-job mobility in U.S
  - Subsector with largest number of job-to-job flows
  - Frequent top destination for workers leaving jobs in other subsectors

# **Key Findings**

- Food Service workers quickly returned to work—but were less likely to remain in Food Service sector jobs
- Health Care workers more likely to transition to jobs in other sectors

### Where to Get the Data

- Job-to-Job Flows NAICS 3-digit industry tabulations research release
- Summary PDF of top origin and destination subsectors is <u>available</u> (used to create today's slides)
- American Counts story provides an example of how to use data

## Thank you!

- If you have any questions about J2J NAICS3, email <u>ces.j2j.feedback@census.gov</u>
- Past training sessions covered use of J2J
   Explorer and LED extraction tools. These are still available as a resource. For example:
   <a href="https://lehd.ces.census.gov/doc/workshop/20">https://lehd.ces.census.gov/doc/workshop/20</a>
   23/Trainings/J2J Training 2023 workshop.pdf