### Upstate Regional Workforce & Education Advisory Board Meeting

August 30, 2022

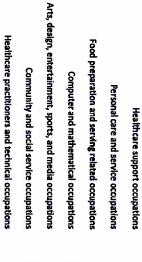
### Topics:

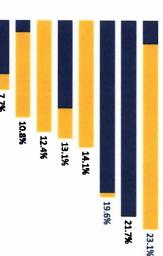
- 1. National Trends
- 2. Upstate Workforce Region Trends
- 3. Career & Technical Education Data
- 4. Labor Market Dynamics
- 5. Top Skills Gaps (data from small survey)
- 6. An Interesting Part of the Puzzle
- 7. Questions and Discussion

1. National Trends

## Projected Percent Change by Selected Occupational Groups, 2020-30

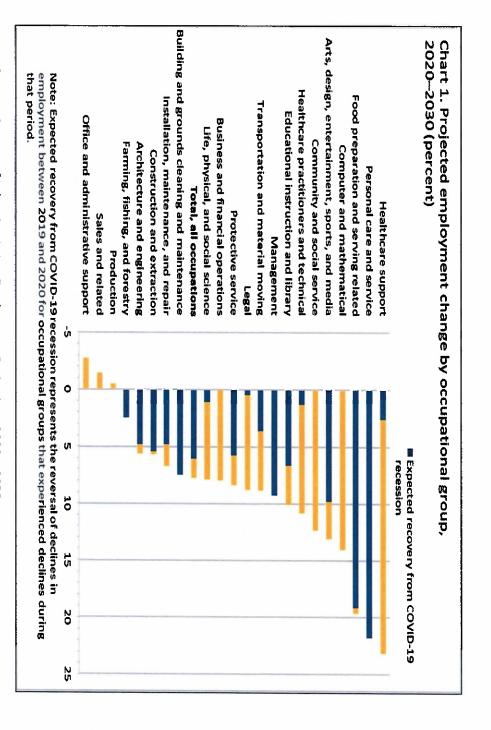
### Percent employment growth, projected 2020-30





■ Part of projected growth attributable to pandemic recovery

Total, all occupations



Source: Bureau of Labor Statistics, Employment Projections 2020 – 2030, https://www.bls.gov/news.release/pdf/ecopro.pdf

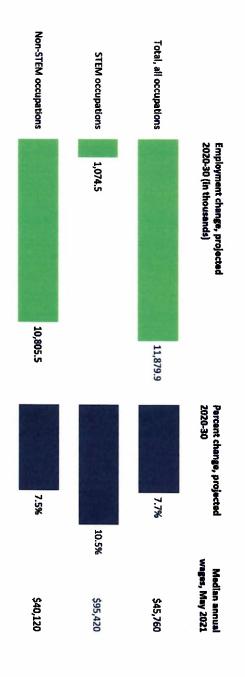
## occupations with above-average cyclical recovery Chart 6. Ten fastest growing occupations, projected 2020-30, excluding

Employment change, Median annual projected 2020–30 (in thousands) wage, May 2020
\$56,230
\$111,680
\$46,470
\$92,270
\$59,770
\$103,590
1,129.9 \$27,080
\$104,280
\$98,230
7

growth, but only cyclical recovery. Source: Bureau of Labor Statistics, Employment Projections 2020 - 2030.

https://www.bls.gov/news.release/pdf/ecopro.pdf

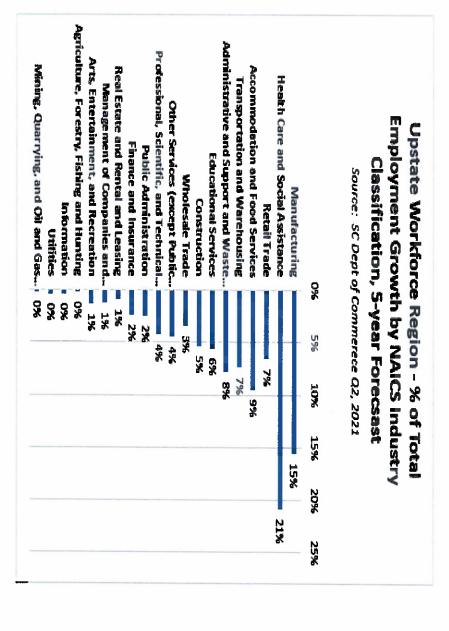
## **STEM Occupations are Projected to Grow Faster**

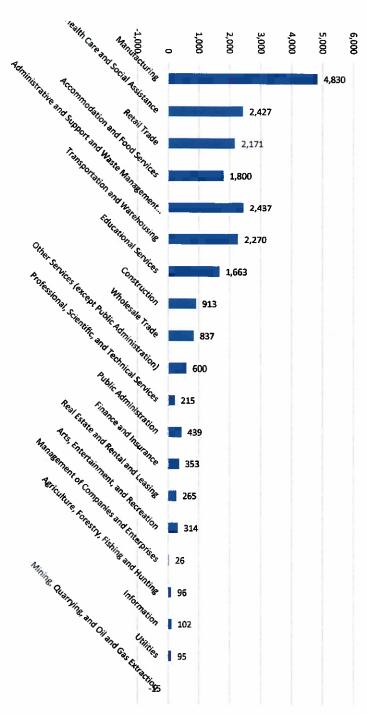


Note: Wage data are from the Occupational Employment and Wage Statistics program, U.S. Bureau of Labor Statistics.

https://www.bls.gov/emp/graphics/stem-occupations.htm

2. Upstate Workforce Region Trends





2020 - 2030 Change in Employment by NAICS Classification, Upstate Workforce Region

Source: SC Dept of Commerce, Jobs EQ\*, Data as of 2021Q4

Forecasted 2030 Employment by NAICS Classification, Upstate Workforce Region

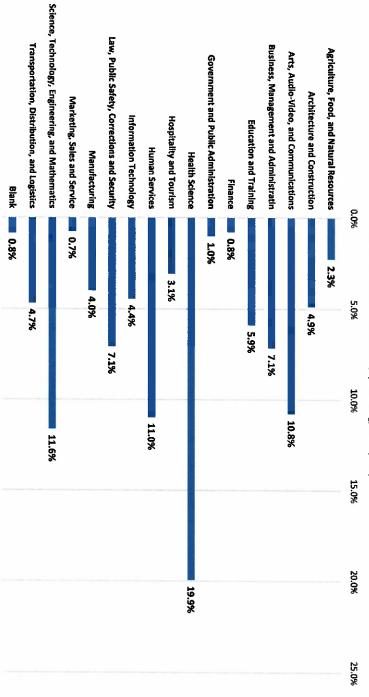
Source: SC Dept of Commerce, JobsEQ\*, Data as of 2021Q4

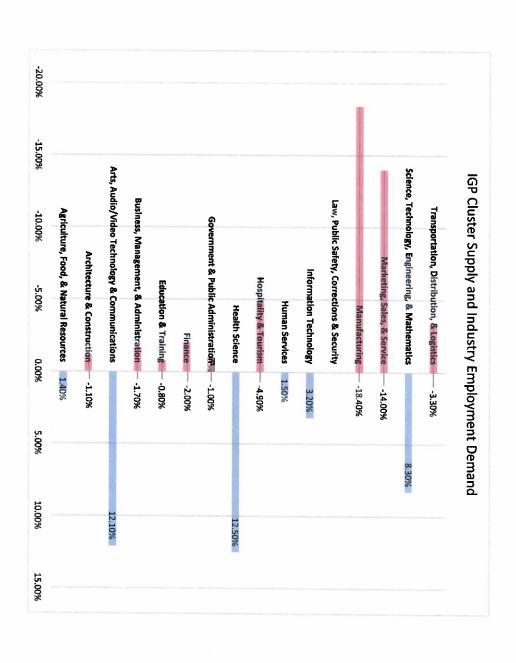
Manufacturing, 46,446 Re		E.	
Retail Trade, 21,143		Health Care and Social Assistance, 25,428	
Administrative and Support and Waste Management and Remediation Services, 15,075		Accommodation and Food Services, 15,465	
Wholesale Trade, 8,927	Construction, 10,334		Transportation and Warehousing, 15,038
Public Administra 5,487	Public Administration), 8,218	Other Consis	
Finance and Insurance, 4,074  Real Estate and Rental and Leasing, 2,245		ac (axrant	Educational Services, 14,239
Agricultu Forestry  Informati 1,126	Serv S	Professional,	res, 14,239

3. Career & Technical Education Data

2021 Percentages by IGP Cluster







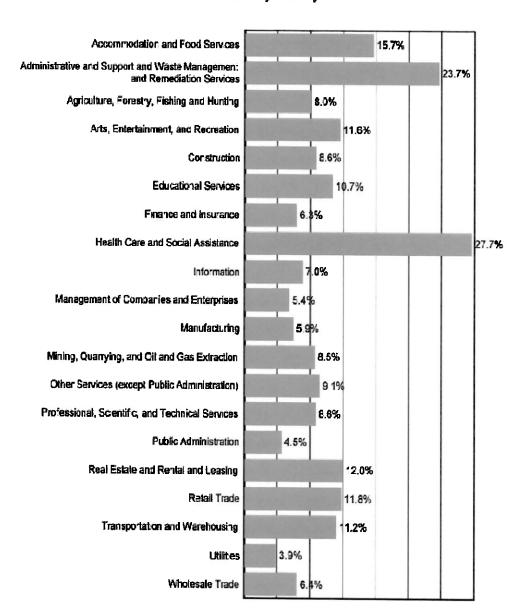
percentage.

### NOTE:

The estimated deficit or surplus metrics by IGP clusters {labor supply pipeline} are obtained by calculating the percent of employment for the UWF region using the 2030 SC Department of Commerce estimates and subtracting the 2020 IGP cluster

4. UWR Labor Market Dynamics

### Turnover by Industry



Source, U.S. Cerese Burers, Lecel Employment Dynamics - 2020 C1

A 30-day sampling of online job adds as of June 7, 2022 for the Upstate Workforce Region indicated that:

- Material movers and truck drivers were the top two demanded occupations.
- occupations, respectively. First-line supervisors of sales workers and retail salespersons were the third and fourth most demanded
- Registered nurses were the fifth most demanded occupation.
- respectively. Fast food workers and food preparation supervisors were the sixth and seventh most demanded,
- occupations, respectively. Manufacturing workers and first-line production supervisors were eleventh and twelfth most demanded
- demand and all were in the top 20 occupations. Nursing assistants, orderlies, licensed practical nurses, and other health support workers were highly

Recently announced industrial development in the Upstate Workforce Region includes:

- Logistics and supply-chain firms
- Automotive including a large EV manufacturing component
- Advanced battery systems manufacturing
- Biotechnology firms
- Datacenters including cryptocurrency mining
- Numerous large-scale construction projects

### Top 20 Occupational Openings

Upstate June-2022

Occupation Name (Soccode)	Job Openings
Registered Nurses (29-1141)	276
Heavy and Tractor-Trailer Truck Drivers (53-3032)	104
Retail Salespersons (41-2031)	100
First-Line Supervisors of Retail Sales Workers (41-1011)	95
Customer Service Representatives (43-4051)	89
Laborers and Freight, Stock, and Material Movers, Hand (53-7062)	75
Licensed Practical and Licensed Vocational Nurses (29-2061)	67
Food Service Managers (11-9051)	8
Maintenance and Repair Workers, General (49-9071)	52
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products (41-4012)	49
Medical and Health Services Managers (11-9111)	41
Managers, All Other (11-9199)	39
Industrial Engineering Technologists and Technicians (17-3026)	38
General and Operations Managers (11-1021)	37
Security Guards (33-9032)	36
Production Workers, Ali Other (51-9199)	34
Health Technologists and Technicians, All Other (29-2099)	33
Janikos and Cleaners, Except Maids and Housekeeping Cleaners (37-2011)	2
Medical Assistants (31-9092)	32
Speech-Language Pathologists (29-1127)	×

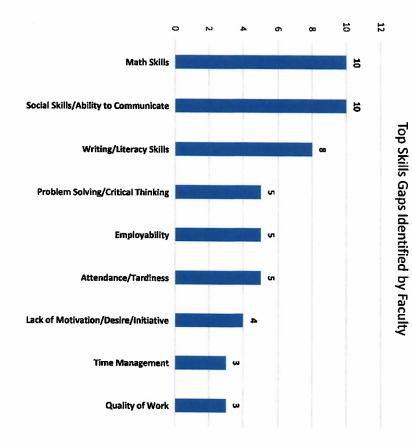
Source: S.C. Department of Employment & Workforce & The Conference Board's Help Wanted OnLine® data series

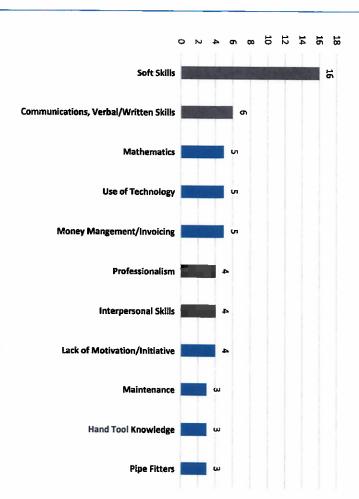
### Upstate Workforce Region Occupations that are 2X 2022 Poverty Level Income for Family of Four, Ranked by Mean Annual Wage Source: 2021 Q4 Data, SC Department of Commerce — Annual Growth Rate ≥ 2.5%

Surgeons, Except Ophthalmologists         Annual Annua	Source: 2021 Q4 Data, SC Department of Commerce — Annual Growth Rate 2 2.5%	FOWIN Rate	2.5%
Wage 294,700 222,300 185,500 165,700 1159,300 142,500 113,600 113,600 105,700 107,600 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 104,700 105,700 104,700 104,700 104,700 105,700 107,900	Occupation	Mean	Annual
294,700 222,300 185,500 185,500 165,700 1159,300 1130,600 107,600 107,600 107,600 107,600 107,600 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000 107,000		Wage	Rate
222,300 185,500 185,500 165,700 1159,300 1130,600 1130,600 107,500 107,500 107,900	Surgeons, Except Ophthalmologists	294,700	3.3%
185,500 165,700 165,700 165,700 113,600 113,600 113,600 107,600	Physicians	222,300	4.3%
165,700 : 159,300 : 159,300 : 142,500 : 142,500 : 130,600 : 107,900 : 107,600 : 105,700 : 105,700 : 104,700 : 103,700 : 102,400 : 102,400 : 102,400 : 102,20	Nurse Anesthetists	185,500	6.7%
159,300 142,500 113,600 113,600 113,600 107,900 107,900 107,900 103,700 102,900 102,200 103,000 102,20	Podiatrists	165,700	11.8%
142,500 113,600 113,600 113,600 107,900 107,900 107,900 107,900 103,700 103,700 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 102,200 103,500 104,500 105,500 107,500 107,500 107,500 107,500 107,500 107,500 107,500	Aircraft Pilots and Flight Engineers	159,300	7.9%
130,600 113,600 1107,900 107,900 107,900 107,700 103,700 102,900 102,200 102,200 102,200 102,200 102,200 99,900 91,500 91,500 91,500 91,500 88,400 88,400 88,100 88,300 88,300 88,300 88,300 88,300 88,300 78,900 78,900 78,900 78,900 77,900	Petroleum Engineers	142,500	4.4%
113,600 109,900 107,900 107,900 105,700 105,700 104,700 102,900 102,200 102,200 102,200 102,200 99,900 91,500 91,500 91,500 91,500 91,500 88,400 88,400 88,400 88,300 88,300 88,300 88,300 88,300 88,300 78,900 78,900 78,900 77,900	Architectural and Engineering Managers	130,600	3.0%
109,900 107,900 107,900 105,700 105,700 104,700 102,900 102,200 102,200 102,200 102,200 99,900 91,500 91,500 91,500 88,400 88,400 88,400 88,300 88,300 88,300 88,300 88,300 88,300 78,900 78,900 78,900 78,900 77,900	Veterinarians	113,600	5.9%
107,900 107,600 107,600 105,700 105,700 104,700 102,900 102,200 102,200 102,200 99,900 91,500 91,500 91,500 88,400 88,400 88,000 88,000 88,000 88,000 88,000 78,000 78,000 78,100 77,900	General and Operations Managers	109,900	3.0%
107,600 105,700 105,700 105,600 104,700 104,700 102,900 102,200 102,200 102,200 102,200 99,900 91,500 91,500 91,500 88,400 88,400 88,400 88,000 88,000 88,000 88,000 88,000 78,900 78,900 78,900 78,900 78,900 77,900	Industrial Production Managers	107,900	5.3%
105,700 105,600 104,700 104,700 105,90	Nuclear Engineers	107,600	5.1%
105,600 104,700 104,700 103,700 102,900 102,200 102,200 102,200 102,200 90,400 91,500 90,400 88,400 88,000 88,000 88,000 88,000 88,000 88,000 88,000 78,900 78,000 78,000 78,000 78,000	Medical and Health Services Managers	105,700	3.3%
104,700 104,200 103,700 102,900 102,200 102,200 102,200 102,200 90,400 91,500 90,400 88,000 88,000 88,000 88,000 88,000 88,000 88,000 88,000 78,900 78,000 78,000 78,000	Atmospheric and Space Scientists	105,600	4.2%
104,200 103,700 102,900 102,200 102,200 101,200 99,400 91,500 99,400 88,400 88,000 88,000 88,000 86,300 86,300 86,300 87,900 78,900 78,900 78,000 78,000	Training and Development Managers	104,700	2.8%
103,700 102,900 102,200 101,200 99,900 91,500 99,400 88,400 88,000 88,000 88,000 88,000 88,000 88,000 88,000 88,000 78,900 78,900 78,000 78,000 78,000	Nurse Practitioners	104,200	%B.6
102,900 102,400 102,200 201,200 99,900 91,500 99,400 88,400 88,000 88,000 88,300 88,300 88,900 88,900 78,900 78,900 78,000 78,000 78,000 78,000	Miscellaneous Computer Occupations	103,700	3.9%
102,400 102,200 101,200 99,900 91,500 91,500 99,400 88,400 88,000 88,000 88,300 86,300 86,300 86,300 87,900 78,900 78,900 78,900 78,700 78,000 78,000	Human Resources Managers	102,900	6.4%
102,200 101,200 99,900 91,500 99,400 88,400 88,000 88,000 86,300 86,300 86,300 87,900 78,900 78,900 78,700 78,700 78,700 77,900	Nurse Midwives	102,400	7.5%
101,200 99,900 91,500 90,400 88,400 88,000 88,000 86,300 86,300 86,300 86,300 87,900 78,900 78,900 78,700 78,700 78,700 78,000	Natural Sciences Managers	102,200	4.8%
99,900 91,500 90,400 88,400 88,000 88,000 86,300 84,900 83,600 80,900 78,900 78,700 78,700 78,700 78,700 78,700	Computer and Information Systems Managers	101,200	3.3%
91,500 90,400 88,400 88,100 88,000 88,000 86,300 84,900 83,600 83,600 78,900 78,700 78,700 78,700 78,000 77,900	Physician Assistants	99,900	6.1%
99,400  88,400  88,100  88,000  86,300  84,900  83,600  83,600  78,900  78,700  78,700  78,100  77,900  77,000	Industrial Engineers, Including Health and Safety	91,500	8.2%
88,400 88,100 88,000 86,300 84,900 83,600 83,600 78,900 78,900 78,700 78,600 78,100 77,900	Electrical and Electronics Engineers	90,400	2.7%
88,100 88,000 88,000 86,300 84,900 83,600 80,900 78,900 78,700 78,600 78,100 77,900 77,900	Financial Analysts and Advisors	88,400	3.7%
88,000 88,000 86,300 84,990 83,600 80,900 78,900 78,000 78,100 77,900 77,900	Mathematicians	88,100	2.7%
88,000 86,300 84,990 83,600 80,900 78,900 78,700 78,100 77,900 77,900	Mechanical Engineers	88,000	6.5%
86,300 84,900 83,600 80,900 78,900 78,700 78,100 77,900 77,900	Chemists and Materials Scientists	88,000	4.9%
84,900 83,600 80,900 78,900 78,700 78,600 78,100 77,900	Software and Web Developers, Programmers, and Testers	86,300	4.9%
83,600 80,900 78,900 78,700 78,600 78,100 77,900	Transportation, Storage, and Distribution Managers	84,900	5.7%
73,900 73,900 73,700 73,600 73,100 77,900	Materials Engineers	83,600	4.5%
78,900 78,700 78,600 78,100 77,900 77,900	Public Relations and Fundraising Managers	80,900	2.5%
78,700 78,600 78,100 77,900 77,000	Transportation inspectors	78,900	2.5%
78,600 78,100 77,900	Chemical Engineers	78,700	2.7%
78,100 77,900 77,000	Operations Research Analysts	78,600	4.5%
stsecondary 77,900 77,000	Securities, Commodities, and Financial Services Sales Agents	78,100	4.4%
77,000	Health Teachers, Postsecondary	77,900	2.5%
	Nuclear Technicians	77,000	6.2%

Miscellaneous Life, Physical, and Social Science Technicians Diagnostic Related Technologists and Technicians Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics First-Line Supervisors of Transportation and Material Moving Workers Filight Attendants	Miscellaneous Life, Physical, and Social Science Technicians Diagnostic Related Technologists and Technicians Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics First-Line Supervisors of Transportation and Material Moving Workers	Miscellaneous Life, Physical, and Social Science Technicians Diagnostic Related Technologists and Technicians Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics	Miscellaneous Life, Physical, and Social Science Technicians  Miscellaneous Life, Physical, and Social Science Technicians  Diagnostic Related Technologists and Technicians	Miscellane uns de ecoperismo operanismo Miscellane un de la Colonia Science Technicians Dismostis Polassife, Physical, and Technicians	Miscellaneous Life, Physical, and Social Science Technicians	training and our colonic in observations	Training and Development Specialists	Hoist and Winch Operators	Miscellaneous Media and Communication Equipment Workers	Subway and Streetcar Operators	Engineering Technologists and Technicians, Except Drafters	Air Traffic Controllers and Airfield Operations Specialists	Miscellaneous Mathematical Science Occupations	Logisticians and Project Management Specialists	Statisticians	Occupational Health and Safety Specialists and Technicians	Bioengineers and Biomedical Engineers	Registered Nurses	Market Research Analysts and Marketing Specialists	Compliance Officers	Social and Community Service Managers	Human Resources Workers	Financial Examiners	Miscellaneous Business Operations Specialists	Property, Real Estate, and Community Association Managers	Therapists	Elevator and Escalator Installers and Repairers	Computer and Information Analysts	First-Line Supervisors of Production and Operating Workers	
56,600 56,600	56,600		57,300	20,000	1000	58,300	58,500	59,300	60,900	61,900	61,900	62,600	65,000	65,000	65,200	66,400	66,600	68,200	68,500	58,800	69,400	70,100	71,800	71,800	71,900	72,300	72,400	72,600	72,700	
11.0%		5.4%	2.6%	4.9%		3.0%	4.2%	6.2%	3,3%	4.1%	3.2%	6.0%	9.0%	8.1%	4.9%	7.3%	6.6%	3.7%	5.6%	4.4%	4.0%	5.2%	7.3%	7.4%	3.0%	2.6%	7.8%	3.2%	3.2%	

5. Top Skills Gap (data from small local survey)



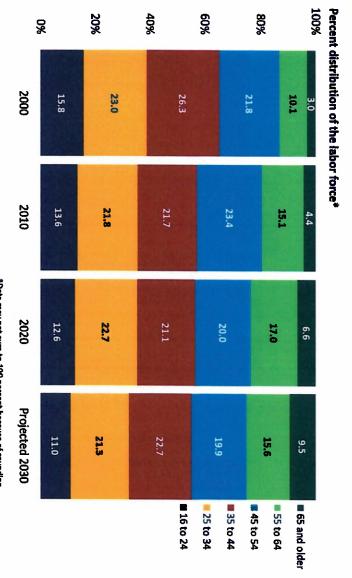


Top Skills Gap Identified by Employers Note: All gray bars are categories of softskills

6. An Interesting Part of the Puzzle

# Labor Force Share, by Age Group, 2000, 2010, 2020 and Projected 2030





\*Data may not sum to 100 percent because of rounding

Source: https://www.bls.gov/emp/images/lf\_aging.png

7. Questions and Discussion

