

Economic Outlook for the State of Utah

May Lin, *Economic Analyst*

Julia Wacker, *Associate I*

Julian Brubaker, *Associate I*

Welcome and Introductions

- REMI models
- Big Picture: REMI Regional Growth Matrix
- Economic outlook
 - Short-term forecast
 - Long-term forecast
- Model demonstration

Model



Regional Economic Models, Inc. (REMI) was founded in 1980 on a transformative idea: *government decision-makers should test the economic effects of their policies before they're implemented.* We are the nation's leader in dynamic local, state and national policy modeling. Our clients use REMI models to perform rigorous economic analysis that critically influences local, state and national policies.

OUR CLIENTS:

Business Roundtable • Sandia National Laboratories • Ernst & Young • Texas Comptroller
University of Michigan • Tennessee Valley Authority • National Education Association
South Coast Air Quality Management District • Florida Legislature
North Carolina Department of Commerce • Wyoming Department of Administration & Information
California Environmental Protection Agency • U.S. Army Corps of Engineers

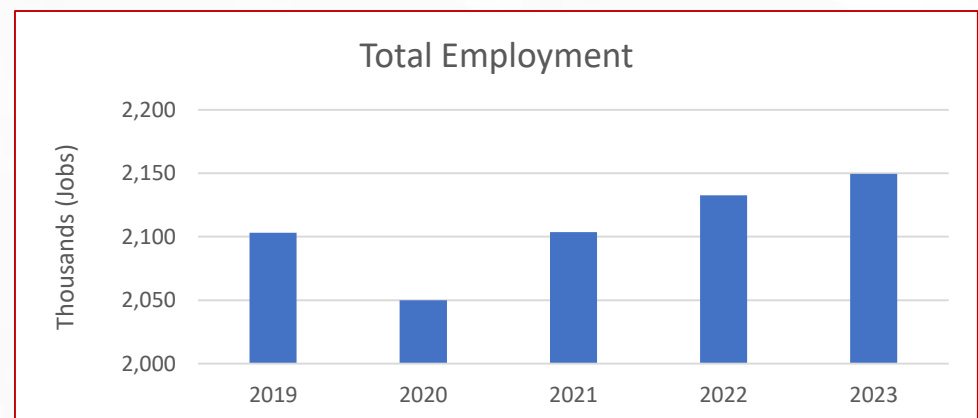
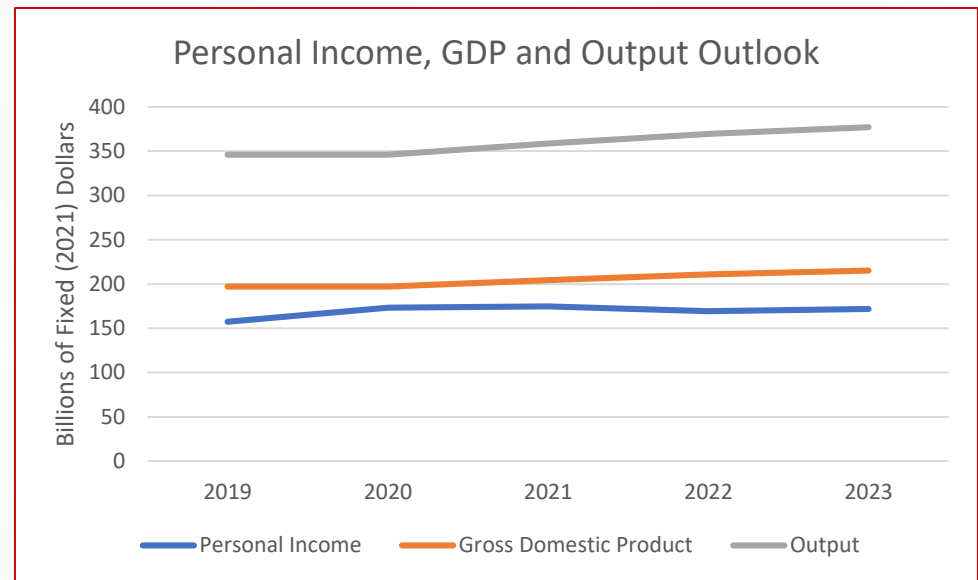
Utah State Economy

- Of Utah's farm output, **livestock** makes up 75% of it. **Manufacturing** is not as central to Utah's economy as it is to most surrounding states. **Tech** is a rapidly growing sector in Utah.
- The **tourism** industry in UT is growing, due in part to the state's five **national parks** (and **ski resorts**).
- Though early Mormon settlers initially opposed mining, it is now a major source of revenue for the state: top minerals are **beryllium**, **copper**, & **gilsonite**, plus the **salt** of Salt Lake.
- **Low corporate tax rate**, large **tax exemptions** for goods stored/processed in-state. Pre-COVID, the Utah economy was one of the fastest growing in the U.S.

Short-Term Outlook: Utah



- Years 2019-2023
- Growth 2020-2021
 - Personal income : 0.8%
 - GDP: 3.6%
 - Output: 3.6%
 - Employment: 54 thousand jobs
- Uncertainty



REMI Regional Growth Matrix: Economic & Demographic Factors



Economic Factors

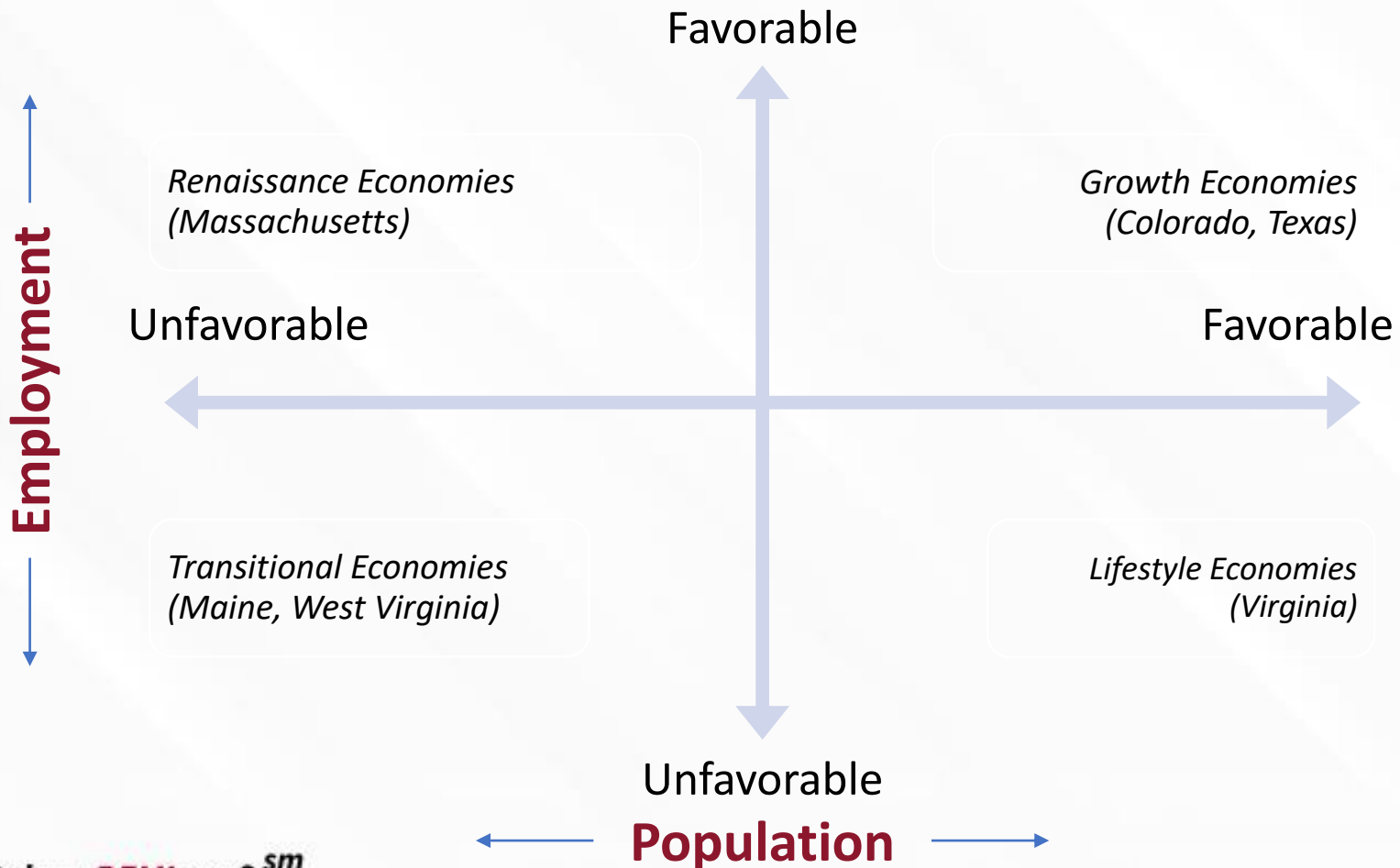
	Industry Growth	Industry Clusters	Pay	Productivity	Business Cost
Favorable	Growing	Strong	High-paid industries	High	Low
Unfavorable	Declining	Weak	Low-paid industries	Low	High

Demographic Factors

	Population Age	Retirees	Immigration	Amenities	Housing Cost
Favorable	Younger	Gains retirees	Immigration gateway	High	Low
Unfavorable	Older	Loses retirees	Low internat'l immigration	Low	High

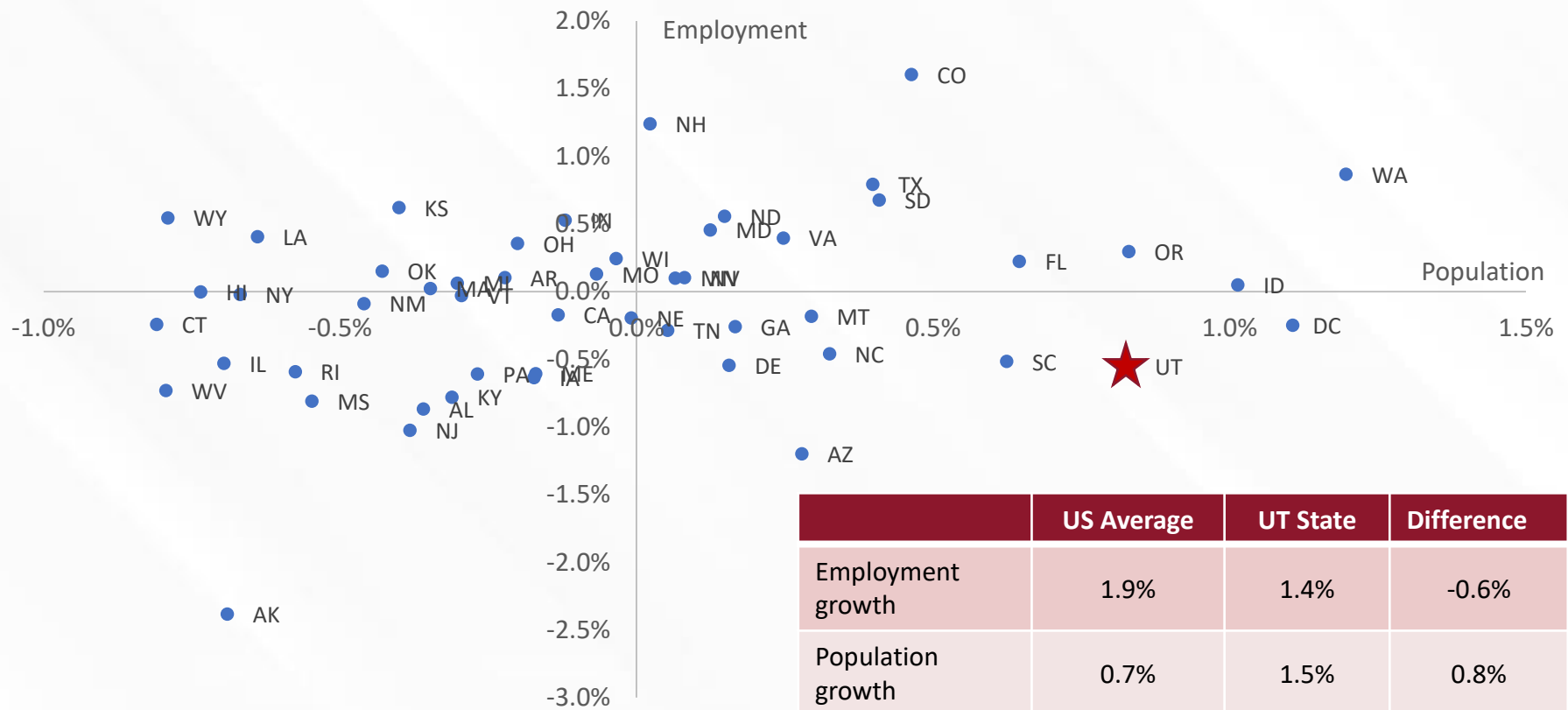
what does **REMI** say? sm

Regional Growth Matrix



Growth Matrix

Difference in Growth from US Average (2021-2022)



Data Sources

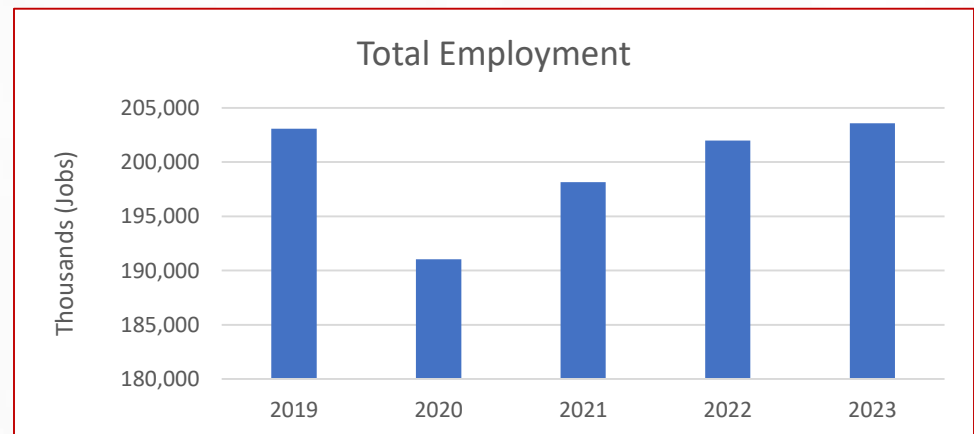
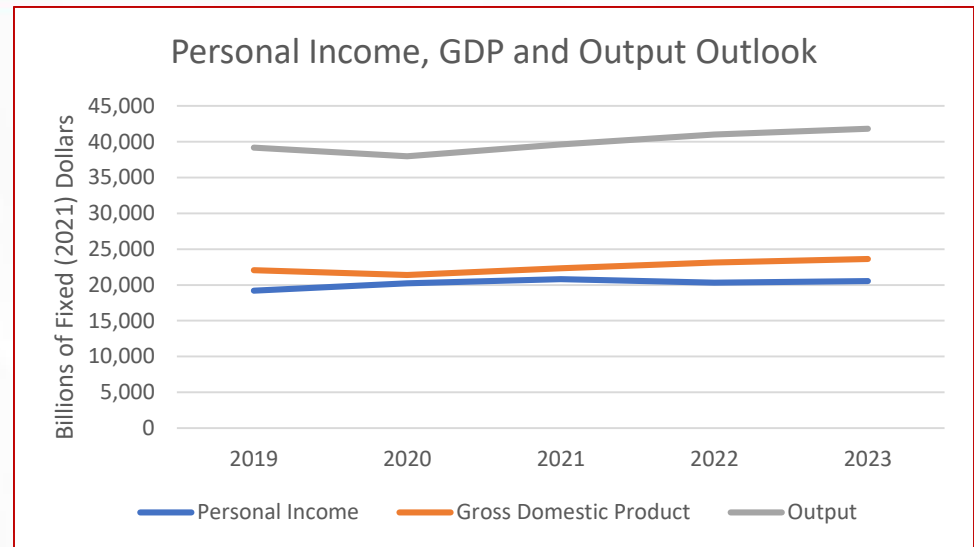
- Baseline (Standard National Control)
 - BLS Forecast Data
- Economic Forecast Update March 2021
 - 2019-2020 historical data from BEA
 - The U.S. Economic Outlook for 2020-2022 from the University of Michigan's Research Seminar in Quantitative Economics (RSQE)
 - An update to the Economics Outlook from CBO
 - Includes \$1.6 trillion stimulus, additional vaccination, and additional consumer spending¹

National Outlook

Short-Term Outlook: the U.S.

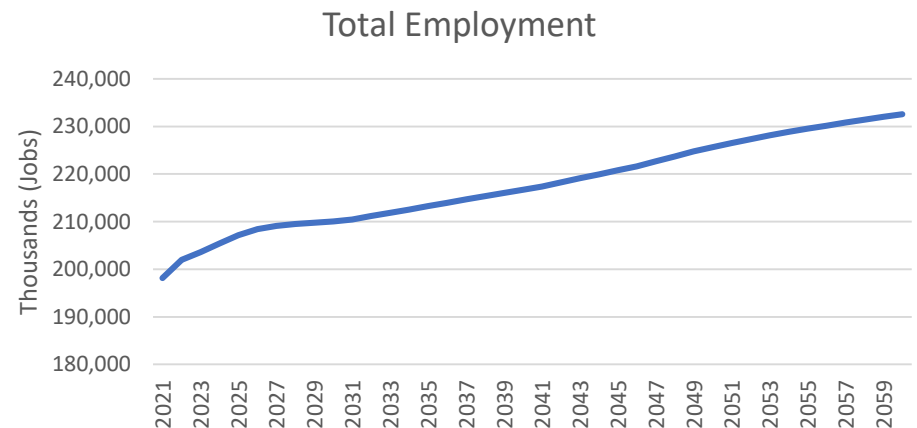
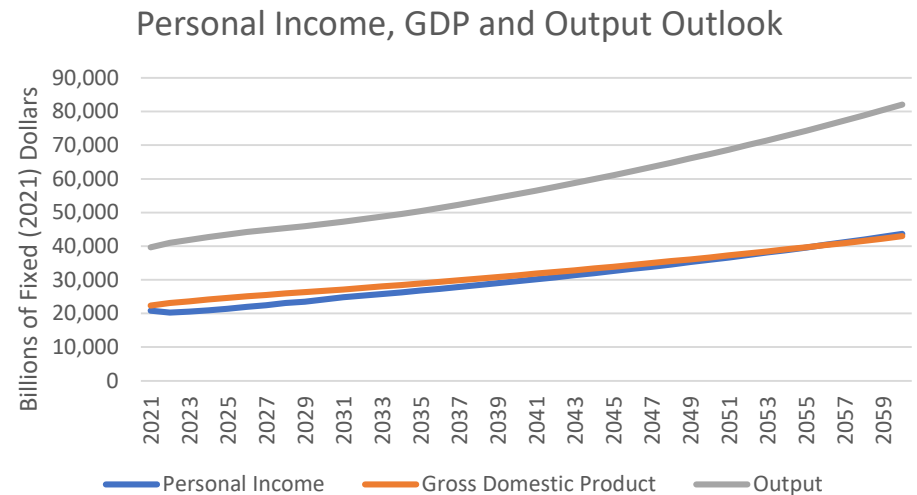


- Years 2019-2023
- Growth 2020-2021
 - Personal income: 2.9%
 - GDP: 4.4%
 - Output: 4.4%
 - Employment: +7 million jobs



Long-Term Outlook: The U.S.

- Years 2021-2060
- Average growth / year
 - Personal income: 1.9%
 - GDP: 1.8%
 - Output: 1.9%
- Total employment: +1,038 thousand jobs



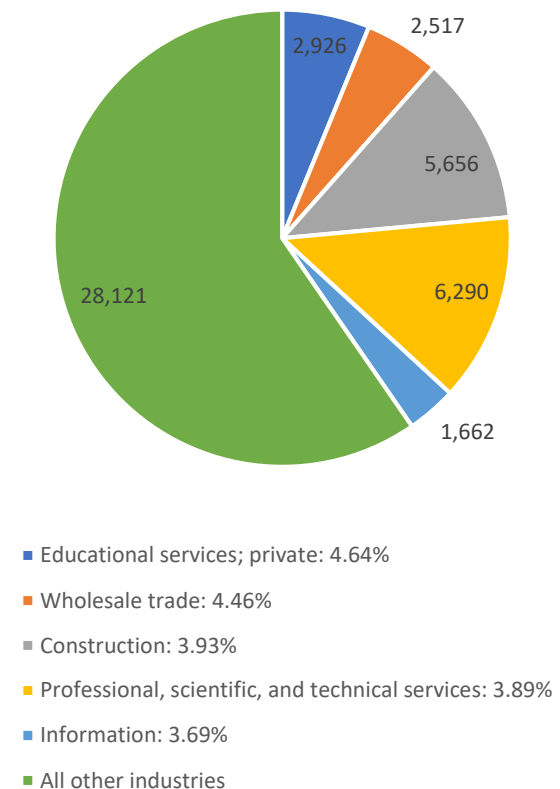
Regional Outlook: Utah

Short-Term Outlook: Employment by Industry



- Industries with largest employment growth rates in 2021
- 2020 - 2021: 19,051 jobs increasing in the top 5 fast growing industries

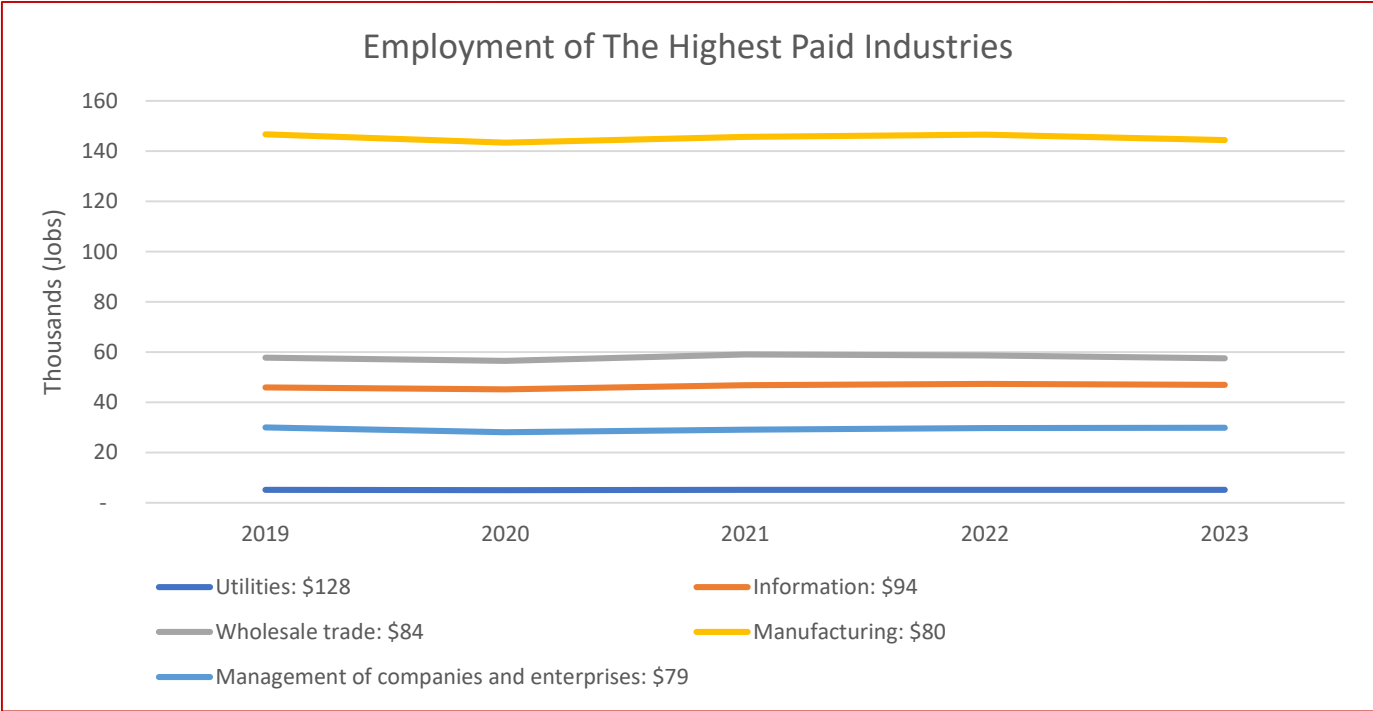
Job Increase in The Fastest Growing Industries in 2021



Short-Term Outlook: Employment by Industry



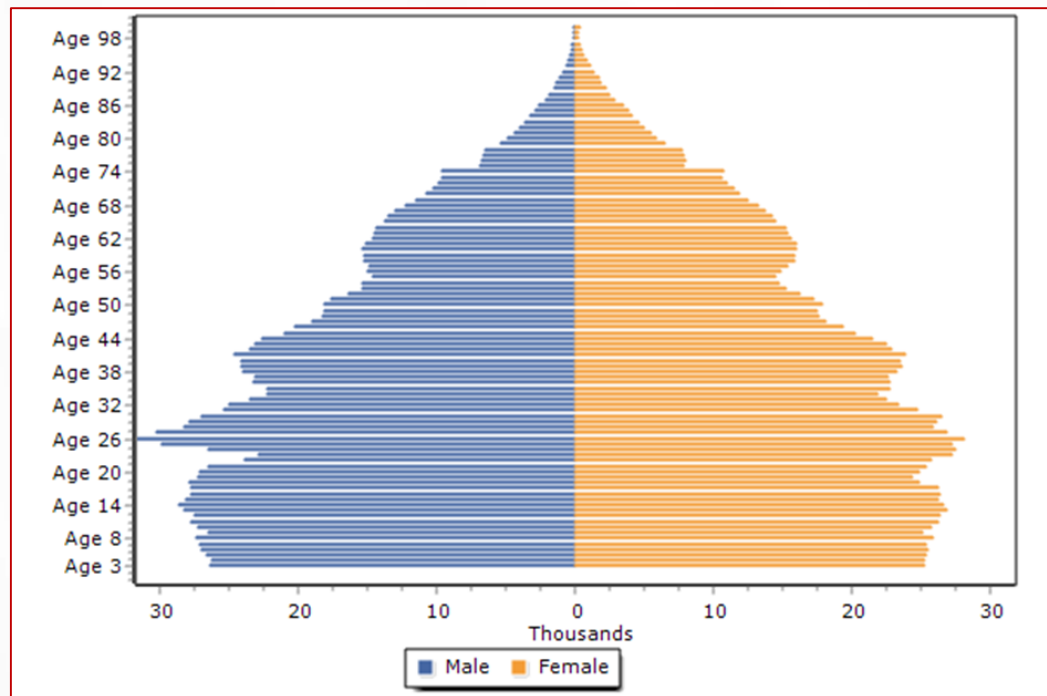
- Industries with highest average annual compensation rates in 2021



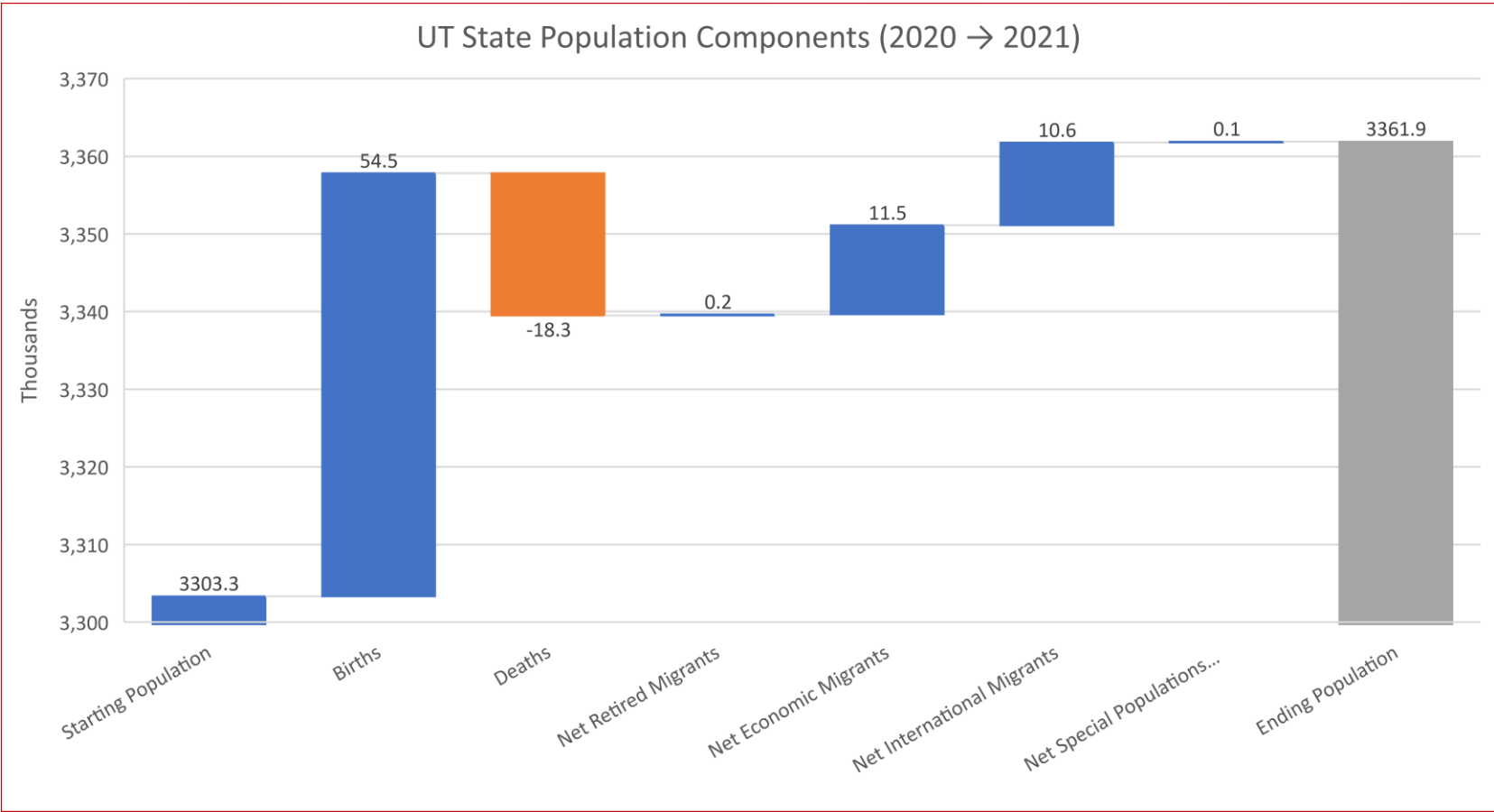
Short-Term Outlook: Population Pyramid (2021)



- Year 2021
- Expansive
 - young & growing

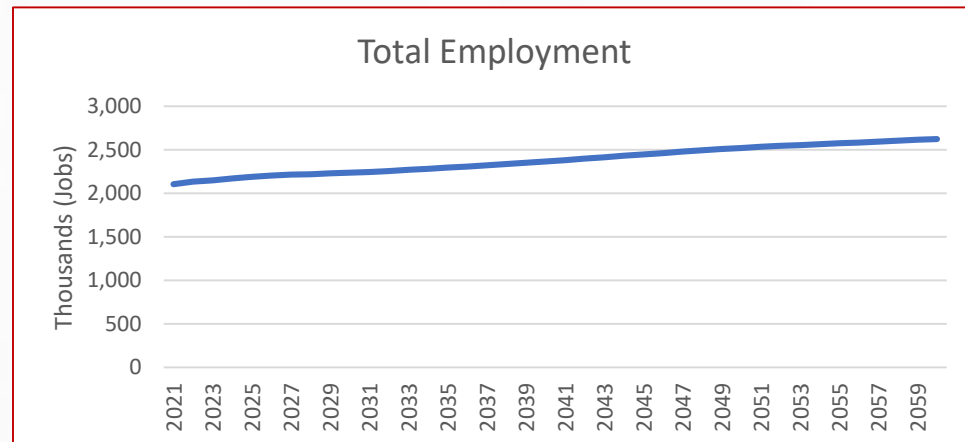
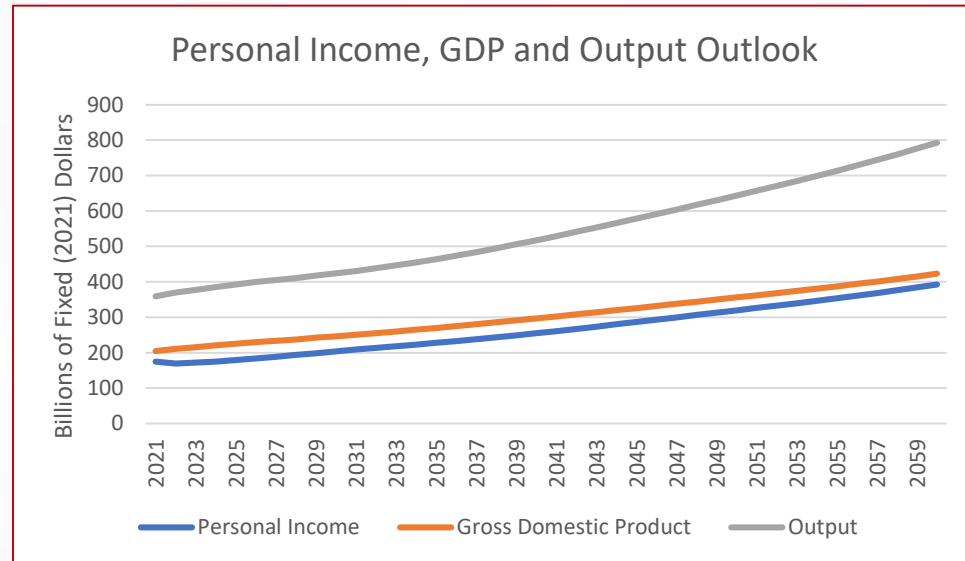


Short-Term Outlook: Population Components



Long-Term Outlook: Utah

- Years 2021-2060
- Average growth / year
 - Personal income: 2.1%
 - GDP: 1.9%
 - Output: 2.1%
 - Total employment: 14 thousand jobs

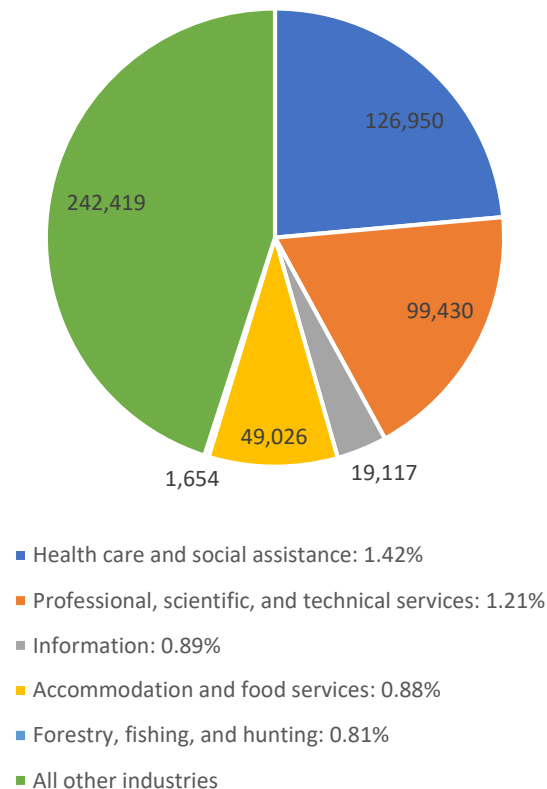


Long-Term Outlook: Employment by Industry



- Industries with fastest employment increasing
- 2020 - 2060: 296,177 jobs increasing in the top 5 fast growing industries

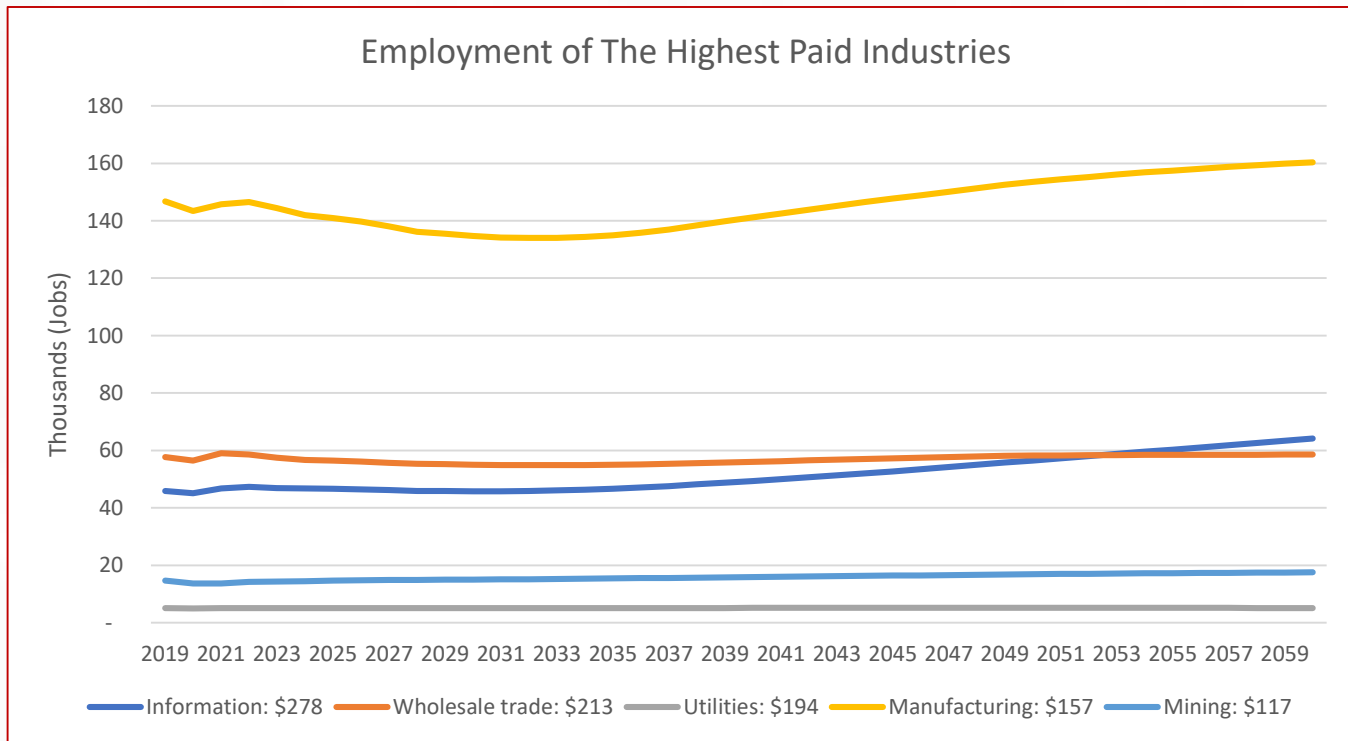
Job Increase in The Fastest Growing Industries
(2020 → 2060)



Long-Term Outlook: Employment by Industry



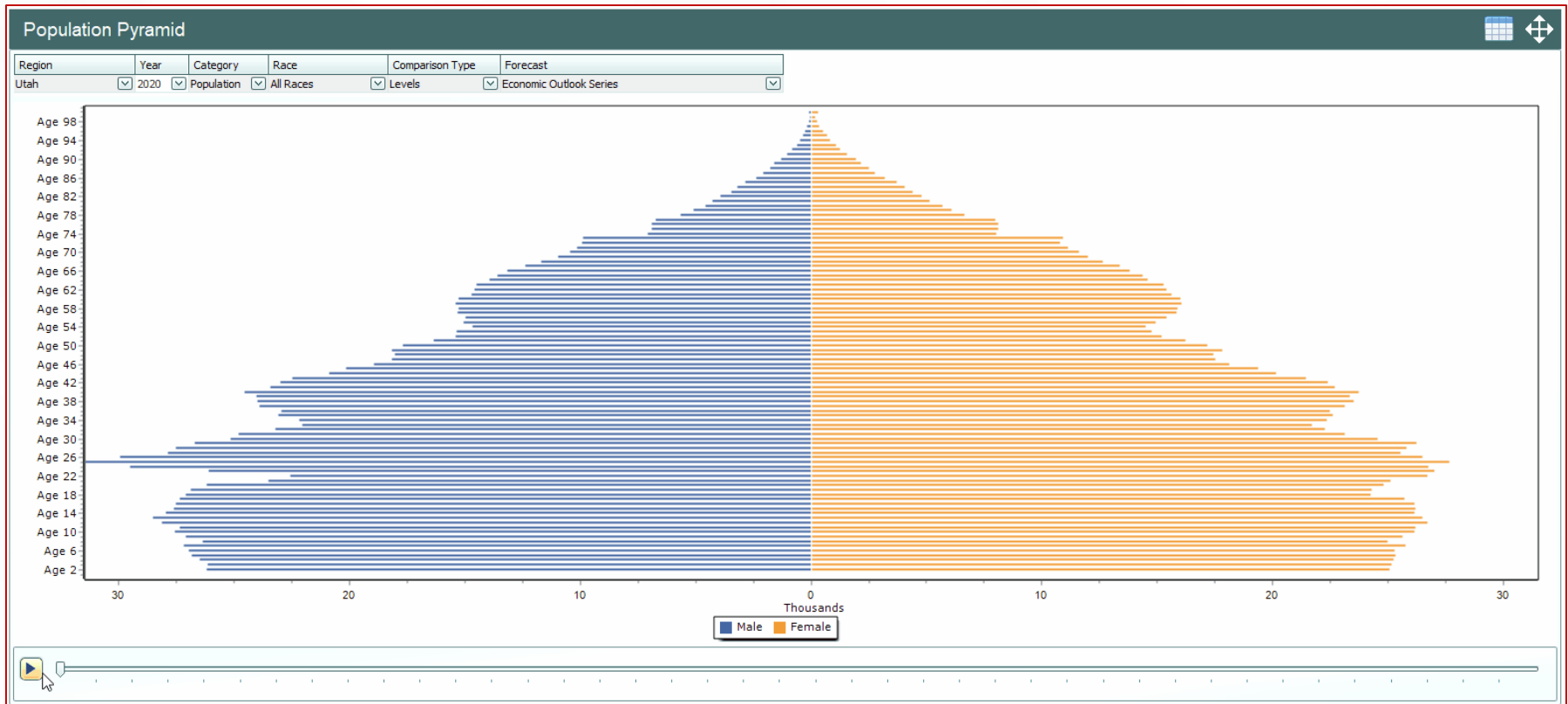
- Employment of industries with highest average annual compensation rates in 2060



Long-Term Outlook: Population Pyramid



- Year 2060

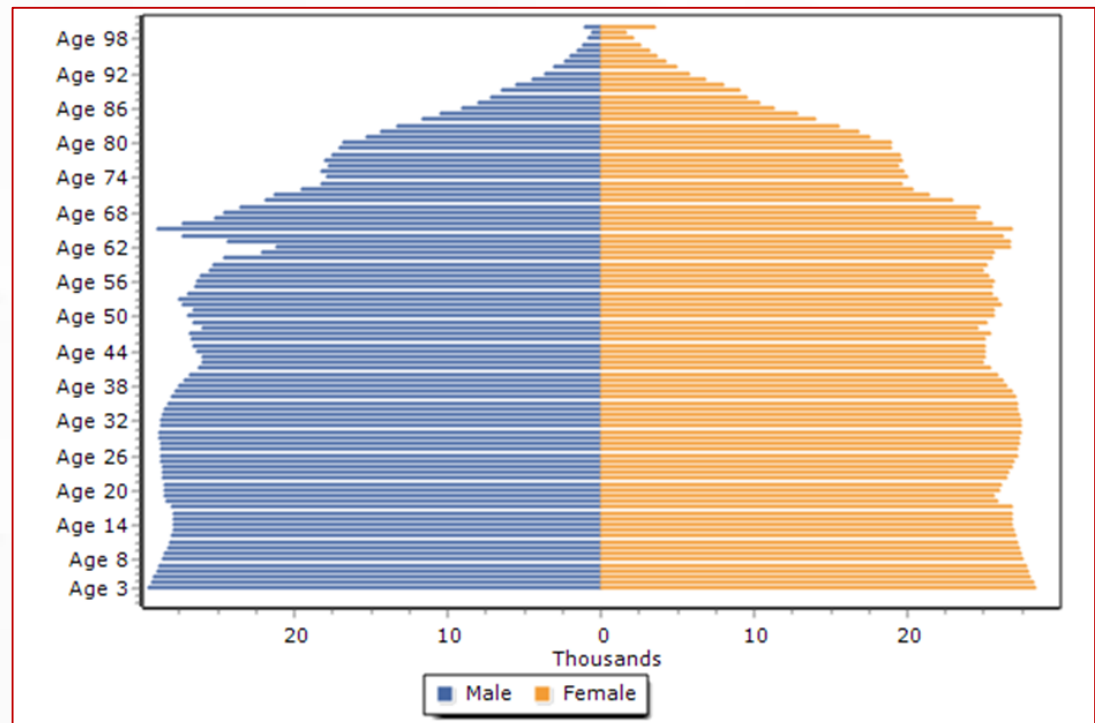


what does **REMI** say? sm

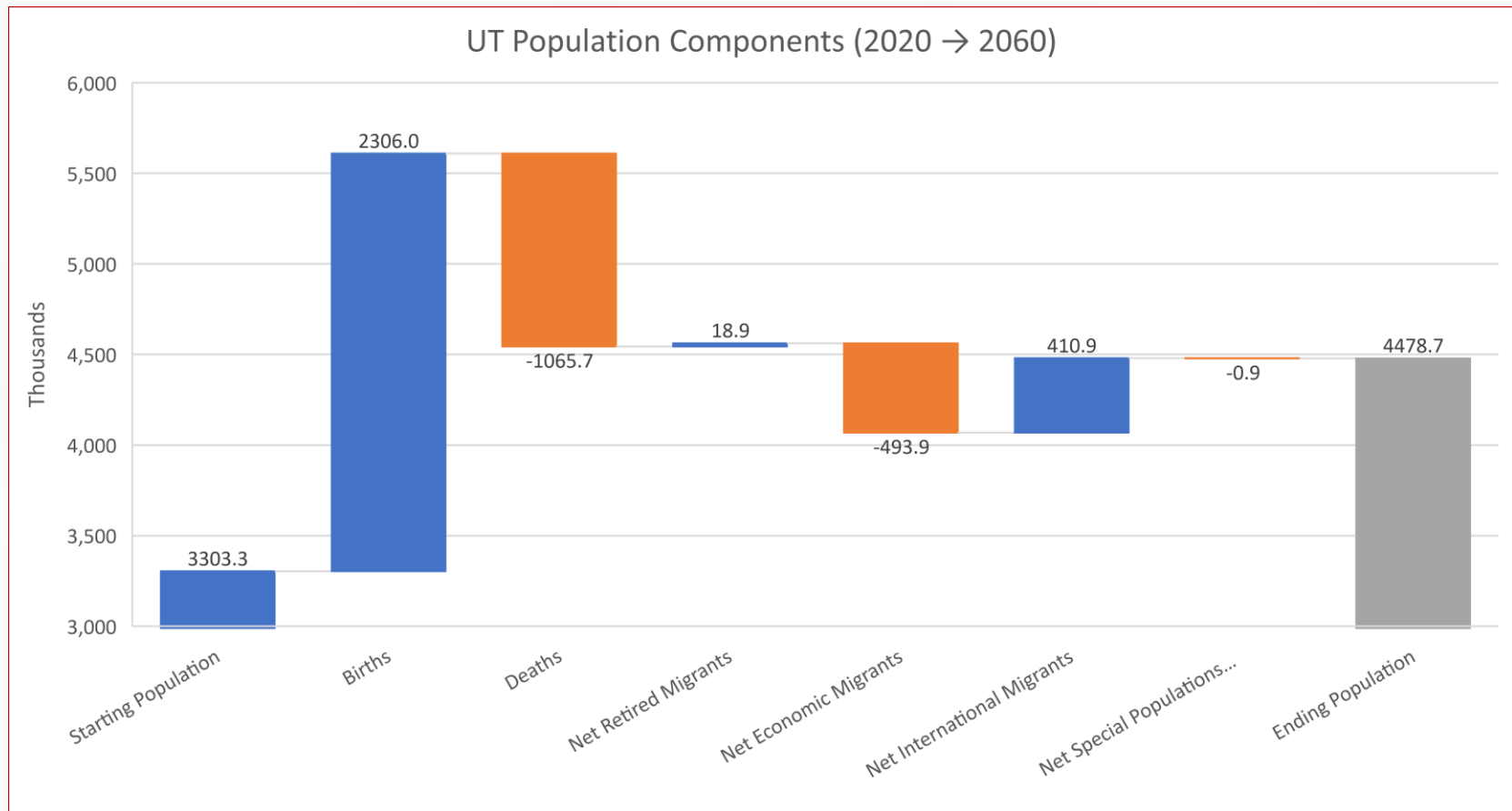
Long-Term Outlook: Population Pyramid



- Year 2060
- Constrictive / near stationary



Population Components



Model Demonstration

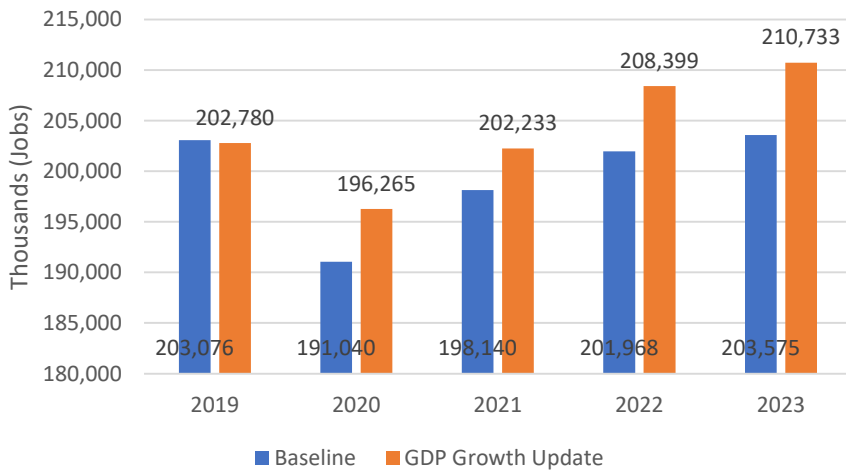
The Scenario

- Optimistic Outlook
 - Baseline – Total employment slowly comes back accompanied by steady growth
 - Uncertainty
 - large pent-up consumer demand
 - supports of vaccine
 - stimulus checks
- Macroeconomic update
 - Increase GDP growth rate by 2%
- Total Employment
 - The US vs Utah

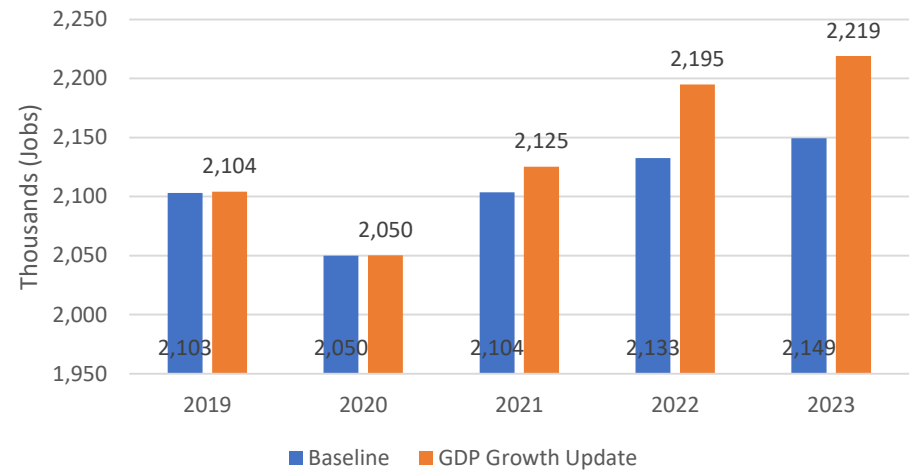
Optimistic Outlook

- Year 2019-2023

Total Employment of the US



Total Employment of Utah



Conclusion

- Economic forecasts can be difficult
 - The outbreak of COVID-19
 - The election of a new president
 - General uncertainty about the economy
- REMI can help
 - Forecasts: Macro modeling used to clarify, calculate, and communicate
 - Simulations: What-if scenarios
 - Dynamic results

Q & A

May Lin, Economic Analyst

May.Lin@remi.com

Julia Wacker, Associate I

Julia.Wacker@remi.com

Julian Brubaker, Associate I

Julian.Brubaker@remi.com

Citations

1. Ehrlich, Gabriel M. "The U.S. Economic Outlook for 2021-2022 -- Executive Summary: February 2021." *College of Literature, Science, and the Arts, University of Michigan, Research Seminar of Quantitative Economics, University of Michigan*, 19 Feb. 2021, lsa.umich.edu/content/dam/econ-assets/Econdocs/RSQE%20PDFs/Exec_Sum_Feb_2021.pdf.