

Economic Outlook for the State of Oregon

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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.

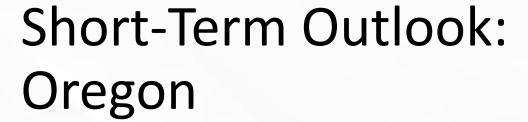
OUR CLIENTS:

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



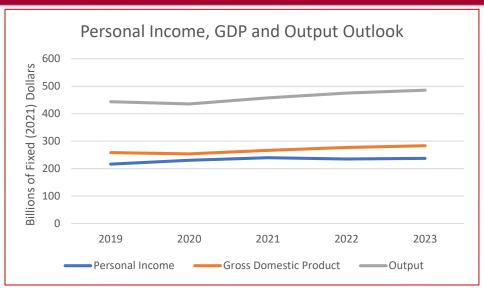
Oregon State Economy

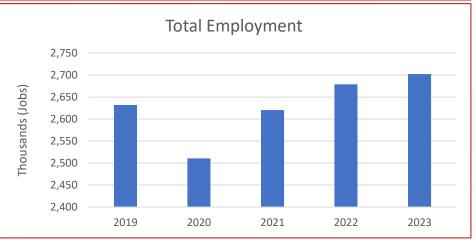
- Oregon is the 39th most populous and the 9th most expansive of the 50 United States.¹
- Population of 4.19 million; median age of 39.6; and a median household income of \$63,426.²
- Largest contributors to GSP by sector include real estate, rental and leasing, manufacturing, health care and social assistance, and professional, scientific, and technical services.³
- Oregon's vast forests are a leading source for lumber in the U.S. harvesting more timber than any other state.





- Years 2019-2023
- Growth 2020-2021
 - Personal income: 4.1%
 - GDP: 5.0%
 - Output: 5.0%
 - Employment: 110 thousand jobs
- Uncertainty





REMI Regional Growth Matrix: Economic & Demographic Factors



Economic Factors

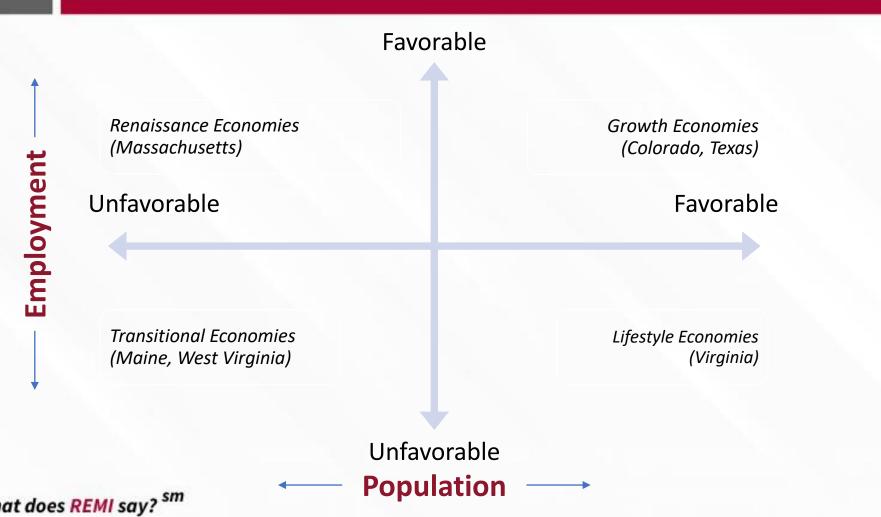
	Industry Growth	Industry Clusters	Pay	Productivity	Business Cost
Favorable	Growing	Strong	High-paid industries	High	Low
Unfavorable	Declining	Weak	Low-paid industries	Low	High

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



Regional Growth Matrix

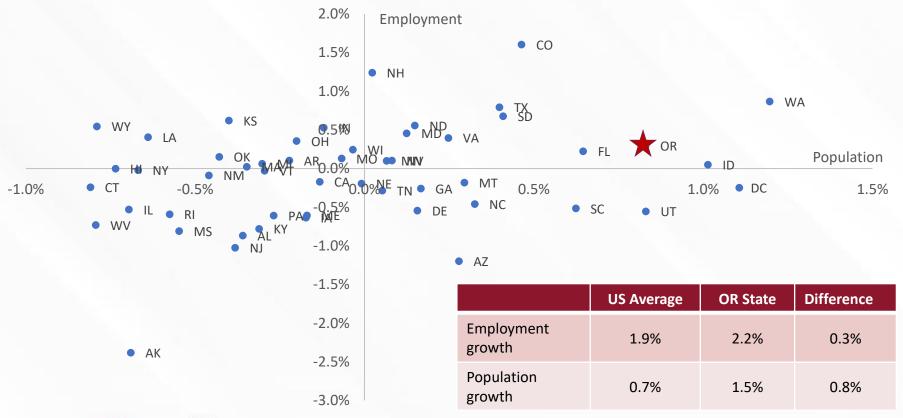


what does REMI say?



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

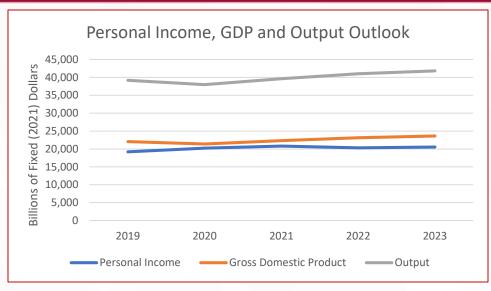


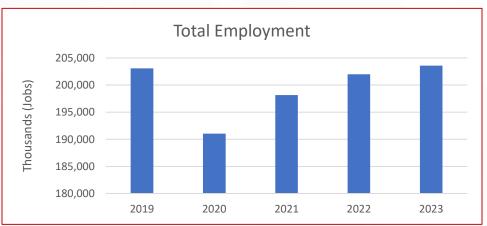
National Outlook



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

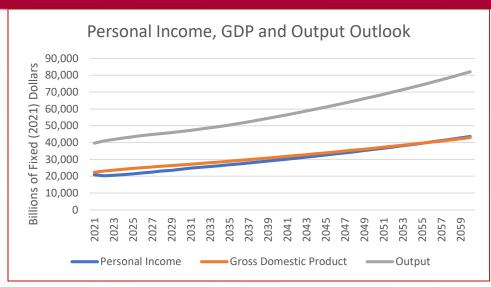


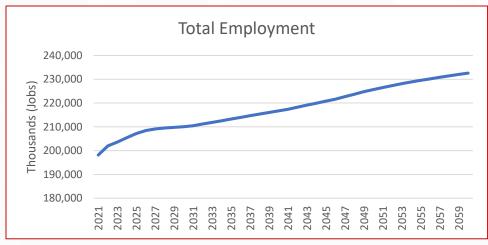




Long-Term Outlook: The U.S.

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





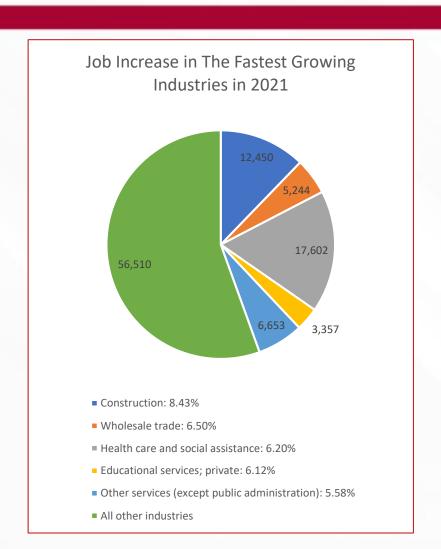


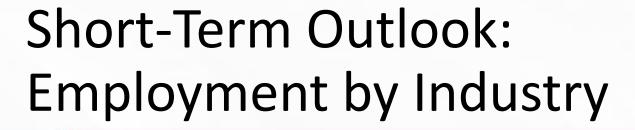
Regional Outlook: Oregon

Short-Term Outlook: Employment by Industry



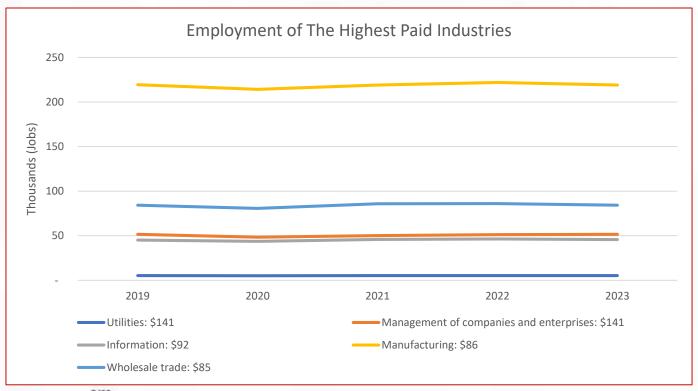
- Industries with largest employment growth rates in 2021
- 2020 2021: 45,306
 jobs increasing in the
 top 5 fast growing
 industries







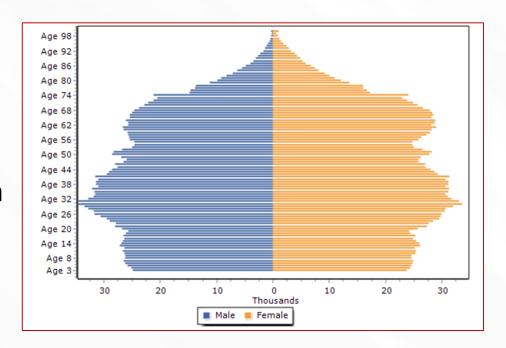
 Industries with highest average annual compensation rates in 2021





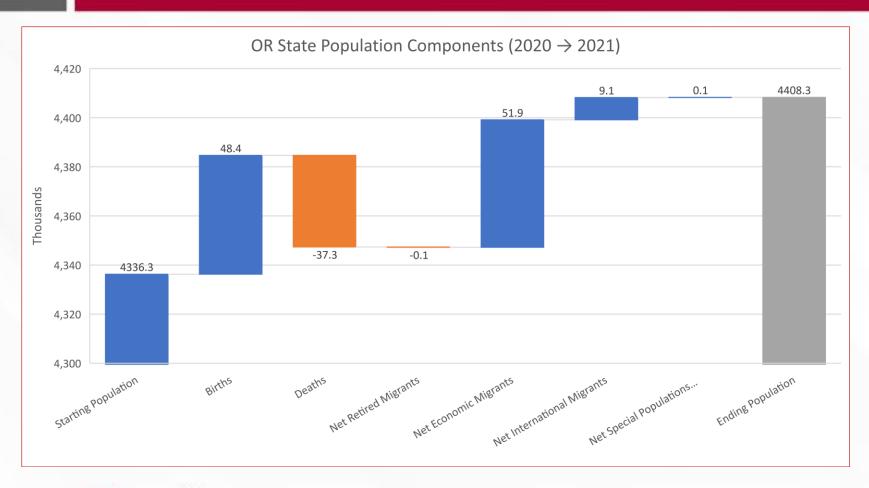


- Year 2021
- Constrictive
 - Shrinking population





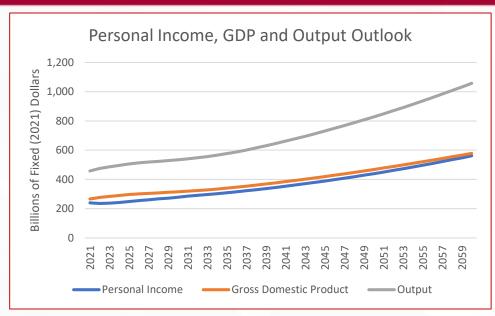


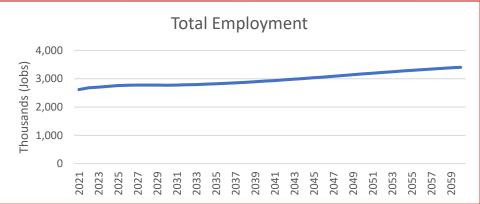




Long-Term Outlook: Oregon

- Years 2021-2060
- Average growth / year
 - Personal income: 2.3%
 - GDP: 2.1%
 - Output: 2.2%
 - Total employment: 22 thousand jobs

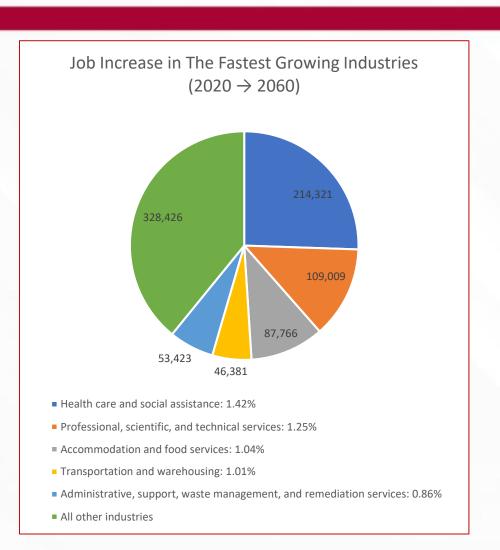


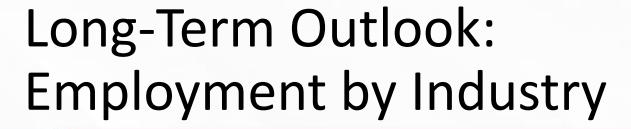


Long-Term Outlook: Employment by Industry



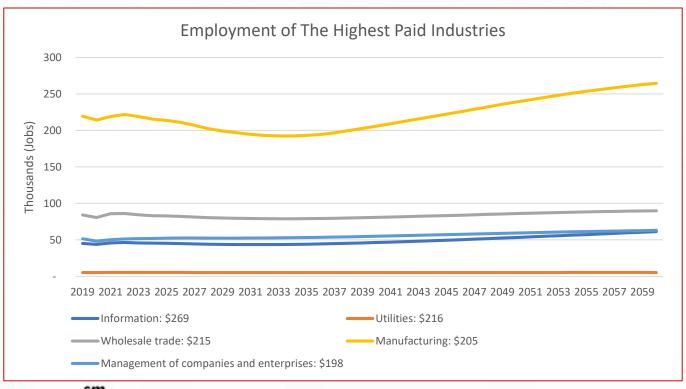
- Industries with fastest employment increasing
- 2020 2060: 510,900 jobs increasing in the top 5 fast growing industries







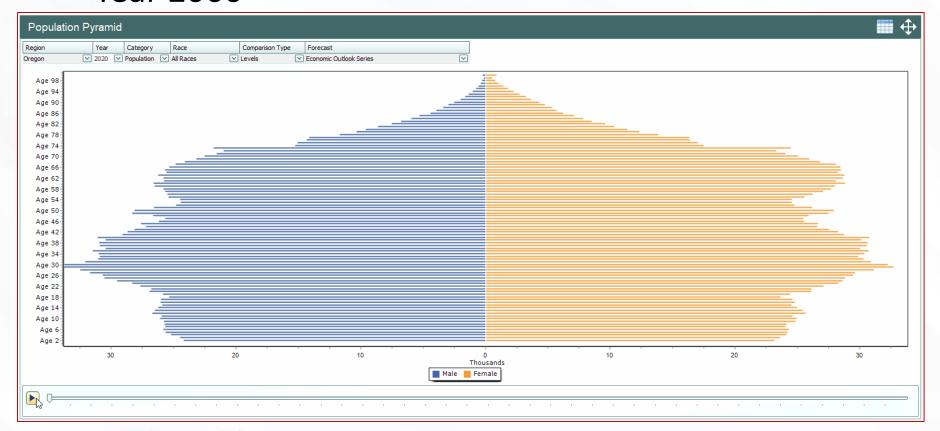
Employment of industries with highest average annual compensation rates in 2060







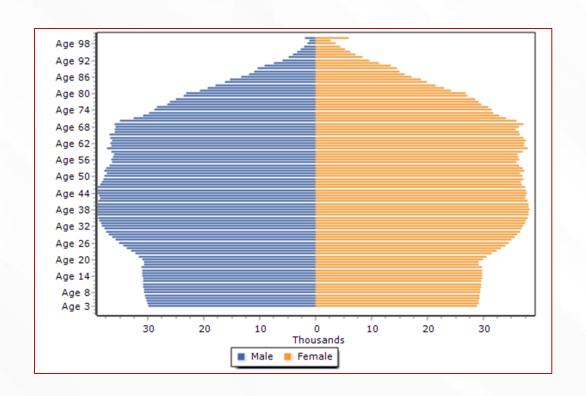
Year 2060





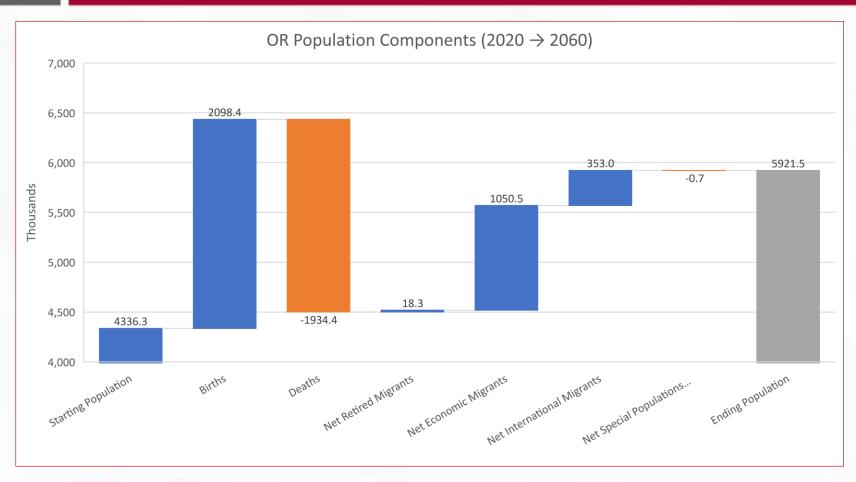


- Year 2060
- Constrictive
 - Elderly & shrinking





Population Components





Model Demonstration



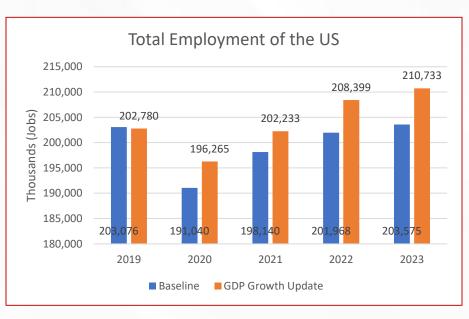
The Scenario

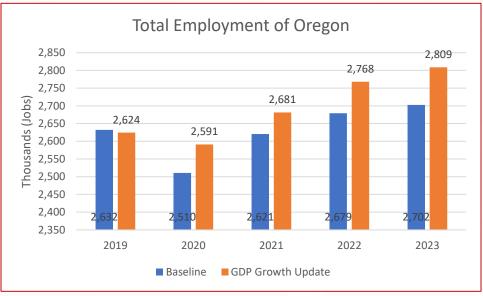
- Optimistic Outlook
 - Baseline Total employment slowly comes back accompanied by steady growth
 - Uncertainty
 - large pent-up consumer demand
 - supports of vaccine
 - stimulus checks
- Macroeconomic update
 - Increase GDP growth rate by 2%
- Total Employment
 - The US vs Oregon



Optimistic Outlook

Year 2019-2023







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



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, Isa.umich.edu/content/dam/econ-assets/Econdocs/RSQE%20PDFs/Exec Sum Feb 2021.pdf.



Q&A

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