

Economic Outlook for the State of Wisconsin

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
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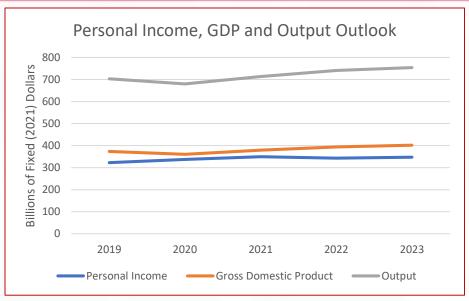
Wisconsin State Economy

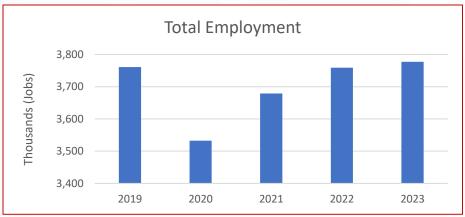
- Agriculture in WI is vital to the state (& the nation),
 & is mostly family-owned. Main products include dairy, livestock, & also some fishing in farms.
 - Turning milk into cheese is a lucrative process in WI!
- A decently large timber industry, for pulp & fuel.
- WI is powered by coal, with small slivers of nuclear, hydroelectric, & biodiesel as power (in that order).
- The state has both huge brewing companies & microbreweries. WI's beer (along with cranberries & cheese) are the state's biggest tourist draws.





- Years 2019-2023
- Growth 2020-2021
 - Personal income: 3.5%
 - GDP: 5.1%
 - Output: 5.0%
 - Employment: 146 thousand jobs
- Uncertainty







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

REMI Regional Growth Matrix: Economic & Demographic Factors



Economic Factors

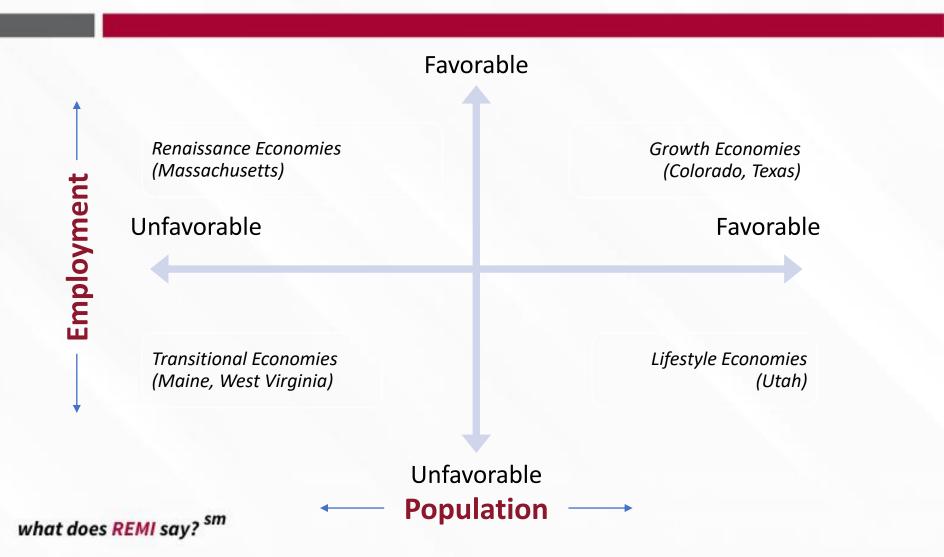
	Industry Growth	Industry Clusters	Pay	Productivity	Business Cost
Favorable	Growing	Strong	High-paid industries	High	Low
Unfavorable	Declining	Weak	Low-paid industries	Low	High

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



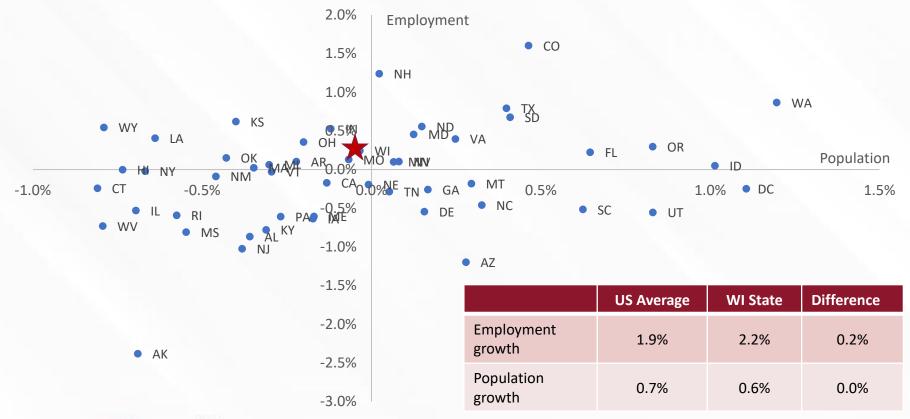
Regional Growth Matrix





Growth Matrix

Difference in Growth from US Average (2021-2022)



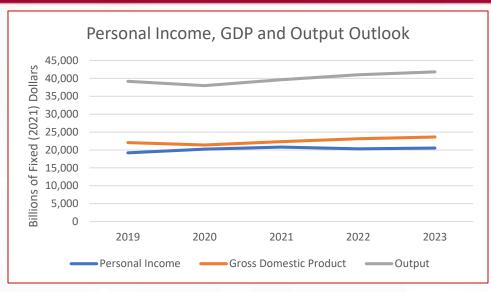


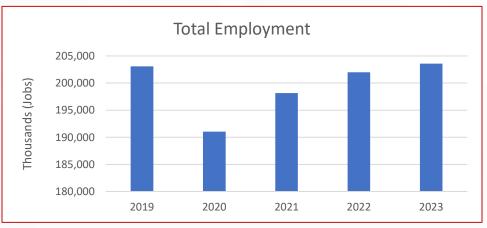
National Outlook



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

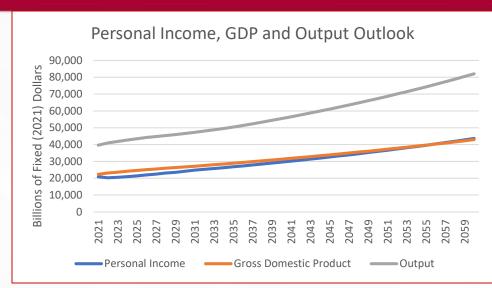






Long-Term Outlook: The U.S.

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





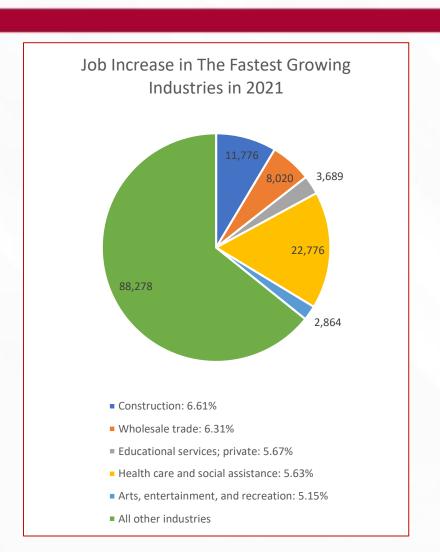


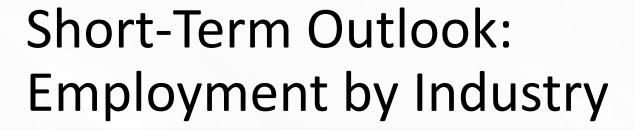
Regional Outlook: Wisconsin

Short-Term Outlook: Employment by Industry



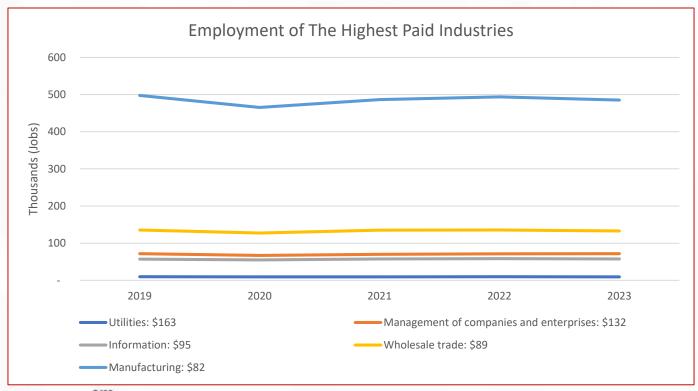
- Industries with largest employment growth rates in 2021
- 2020 2021: 49,125
 jobs increasing in the
 top 5 fast growing
 industries







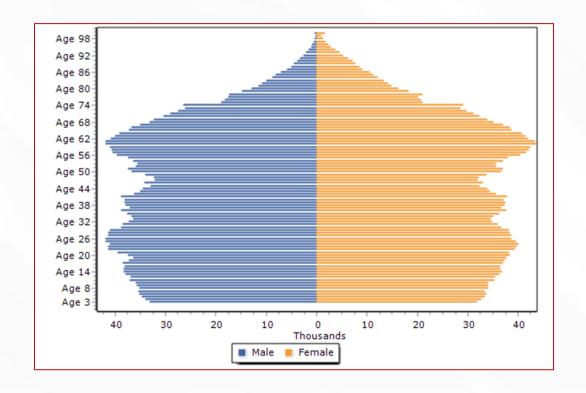
 Industries with highest average annual compensation rates in 2021





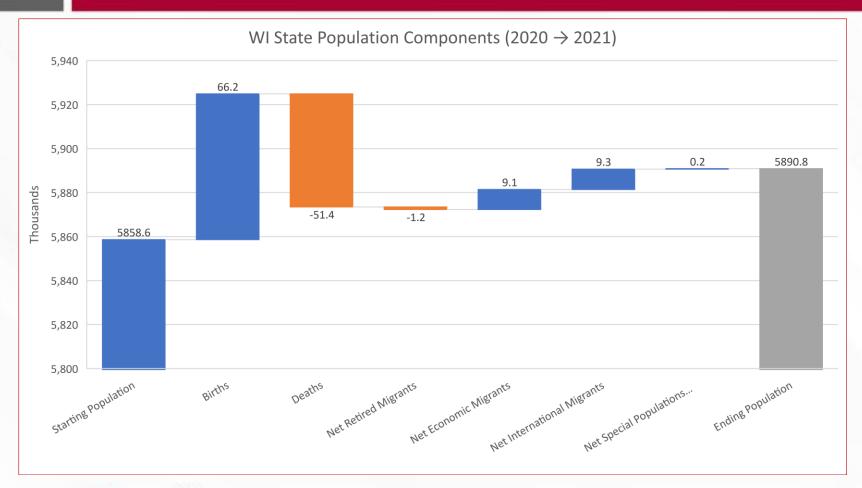


- Year 2021
- Constrictive



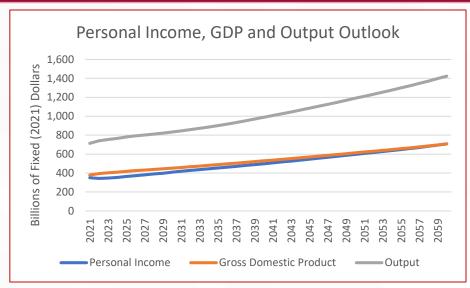


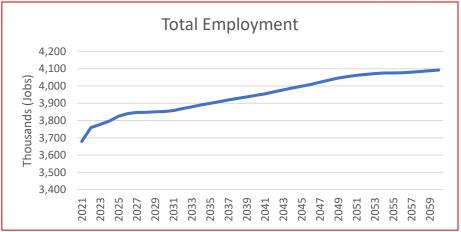




Long-Term Outlook: Wisconsin REMI

- Years 2021-2060
- Average growth / year
 - Personal income: 1.9%
 - GDP: 1.7%
 - Output: 1.9%
 - Total employment: 14 thousand jobs

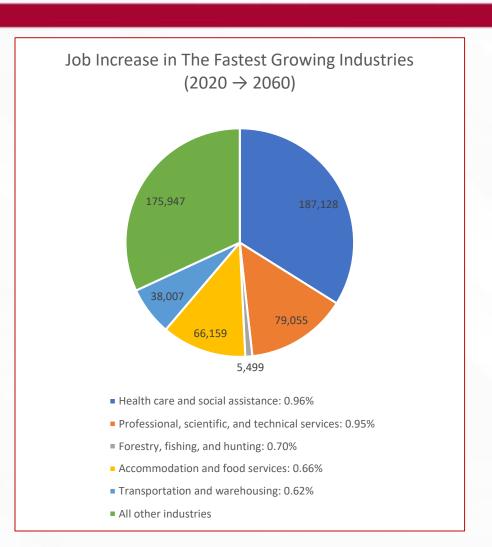


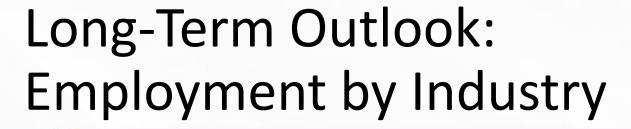


Long-Term Outlook: Employment by Industry



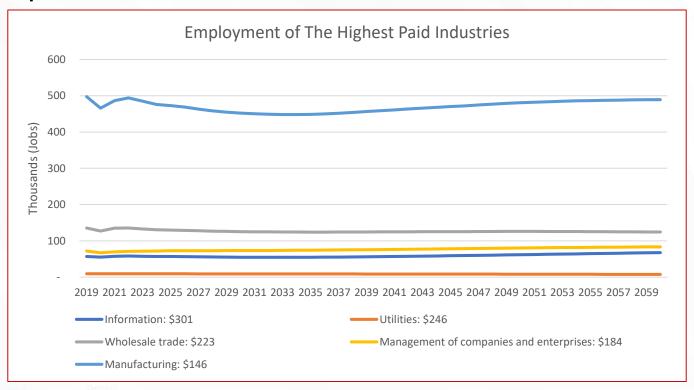
- Industries with fastest employment increasing
- 2020 2060: 375,848 jobs increasing in the top 5 fast growing industries

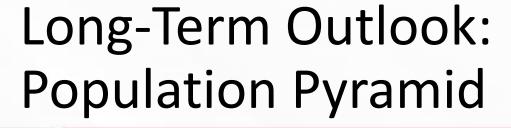






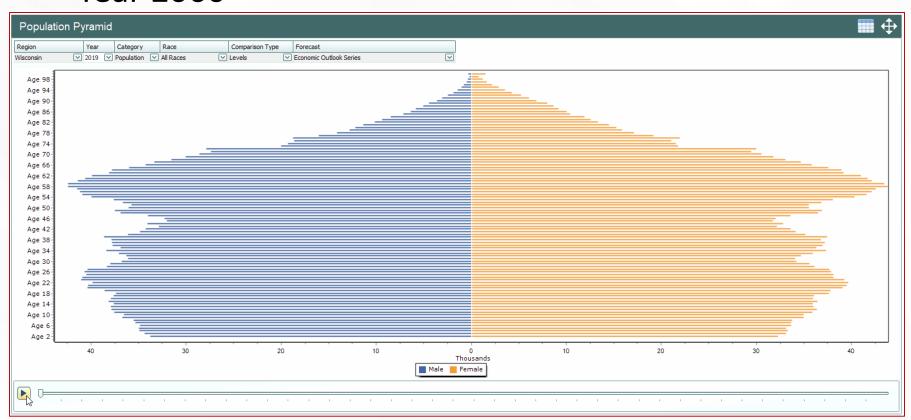
Employment of industries with highest average annual compensation rates in 2060







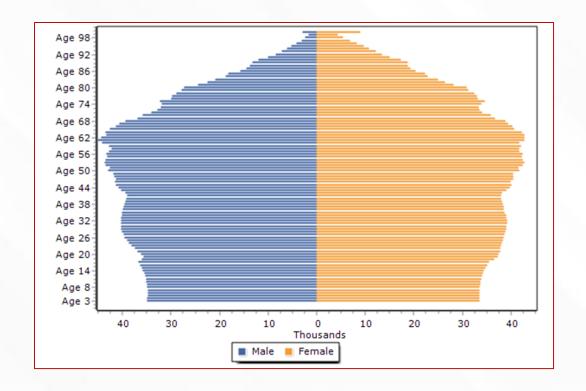
Year 2060





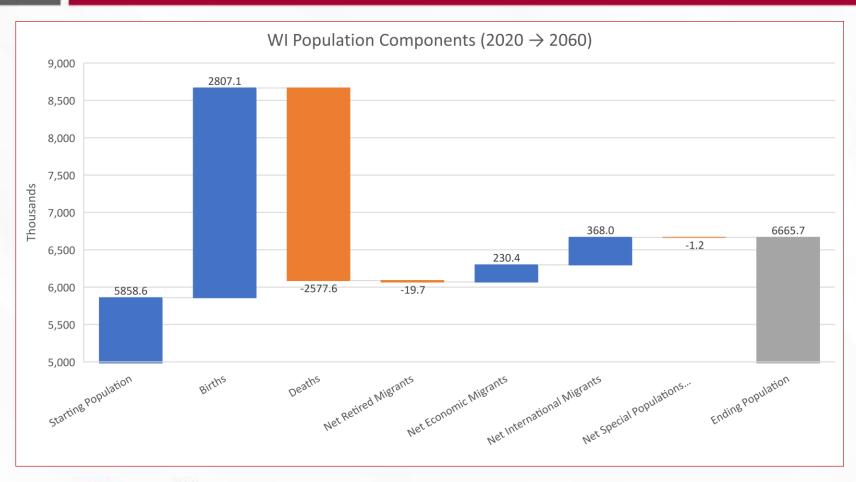


- Year 2060
- Constrictive





Population Components





Model Demonstration



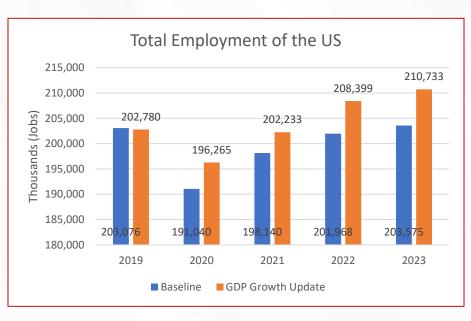
The Scenario

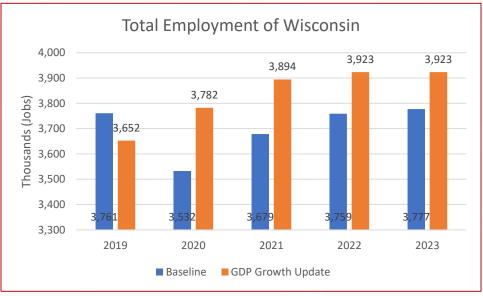
- Optimistic Outlook
 - Baseline Total employment slowly comes back accompanied by steady growth
 - Uncertainty
 - large pent-up consumer demand
 - supports of vaccine
 - stimulus checks
- Macroeconomic update
 - Increase GDP growth rate by 2%
- Total Employment
 - The US vs Wisconsin



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



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