

# Economic Outlook for the State of Rhode Island

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### Welcome and Outline

- 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



## Rhode Island State Economy

- Population: 1.06 million. Rhode Island is the second-most densely populated state, after NJ.
- Until the Great Depression, a prominent **textile** exporter. Presently, the state builds **submarines**.
  - Overall, generally considered a deindustrialized / deindustrializing economy
- Religious freedom is "absolute" and central to RI history, dating back to King Charles II & colonial times.
- State bird is the red chicken





Years 2019-2023

Growth 2020-2021

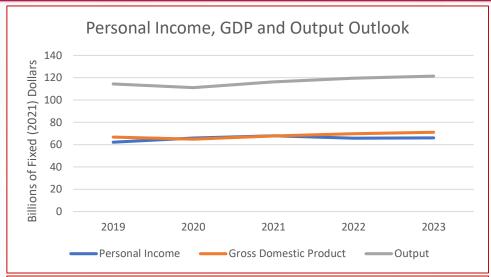
• Personal income: 3.0%

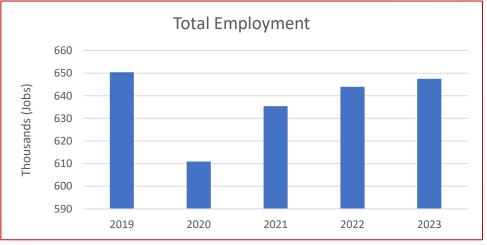
• GDP: 4.6%

• Output: 4.6%

• Employment: 24 thousand jobs

Uncertainty





# REMI Regional Growth Matrix: Economic & Demographic Factors



#### **Economic Factors**

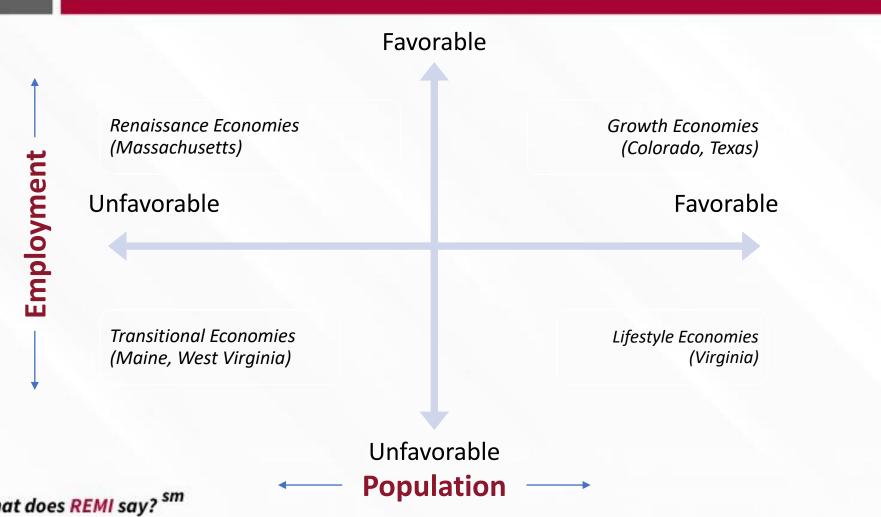
	Industry Growth	Industry Clusters	Pay	Productivity	Business Cost
Favorable	Growing	Strong	High-paid industries	High	Low
Unfavorable	Declining	Weak	Low-paid industries	Low	High

### **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

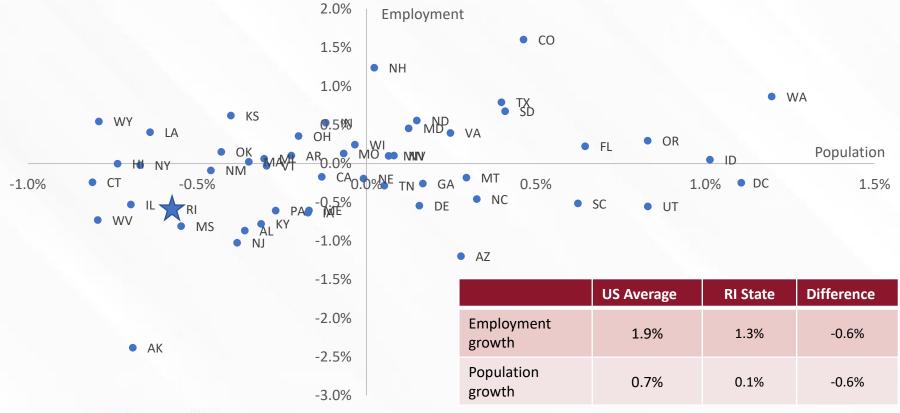


what does REMI say?



### **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 spending<sup>1</sup>

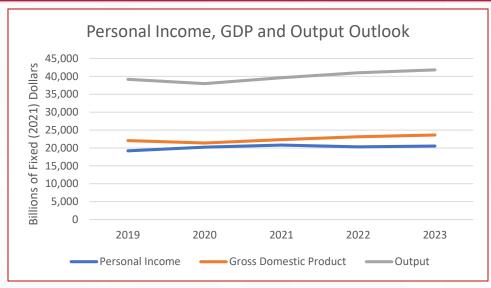


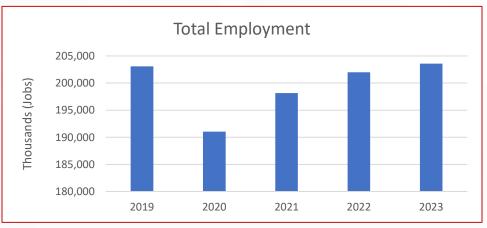
## National Outlook



### 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

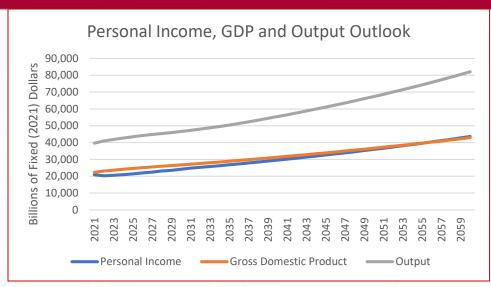


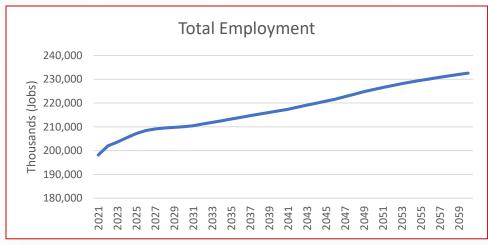




## Long-Term Outlook: The U.S.

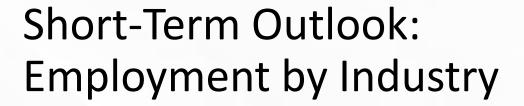
- Years 2021-2060
- Average growth / year
  - Personal income: 1.9%
  - GDP: 1.8%
  - Output: 1.9%
  - Total employment:
     +1,038 thousand jobs





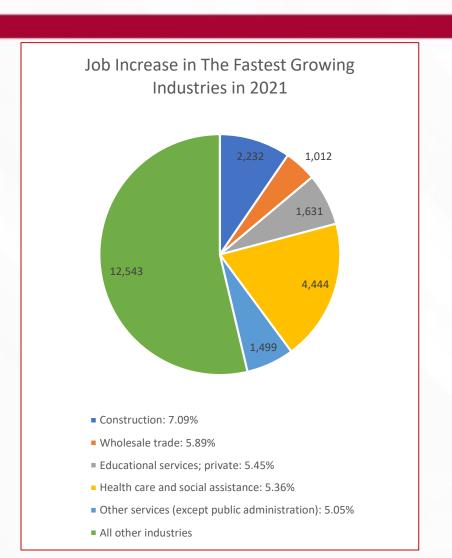


# Regional Outlook: Rhode Island





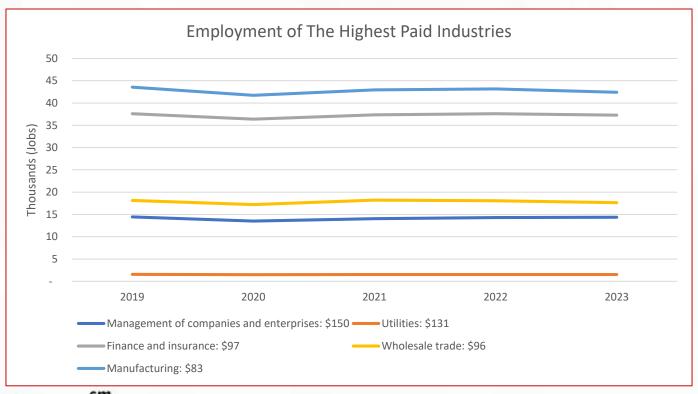
- Industries with largest employment growth rates in 2021
- 2020 2021: 10,818
   jobs increasing in the
   top 5 fast growing
   industries





# Short-Term Outlook: Employment by Industry

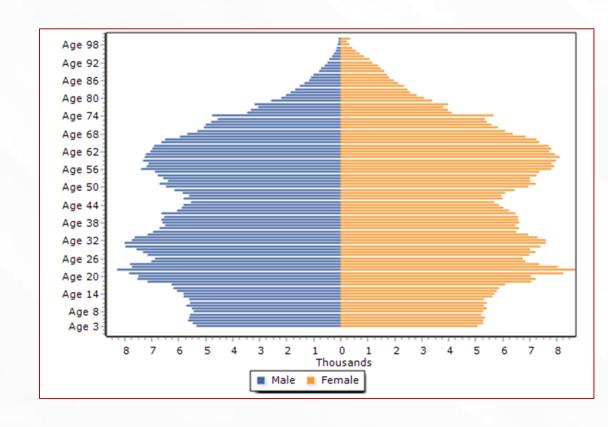
 Industries with highest average annual compensation rates in 2021





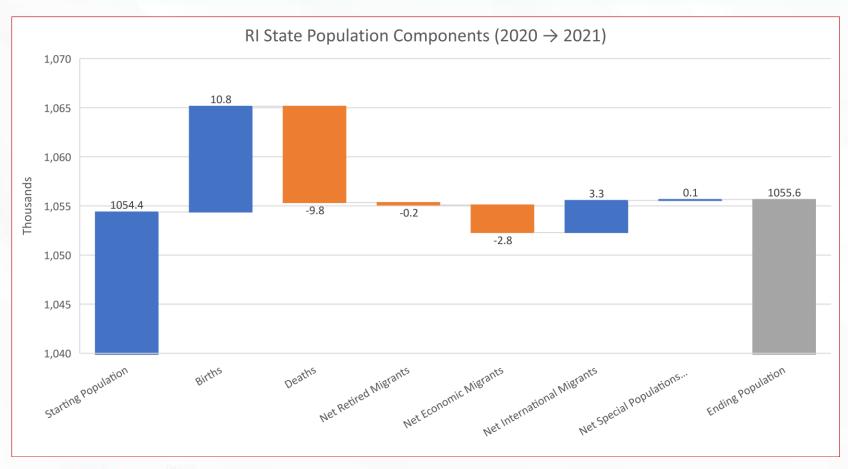
# Short-Term Outlook: Population Pyramid (2021)

- Year 2021
- Constrictive



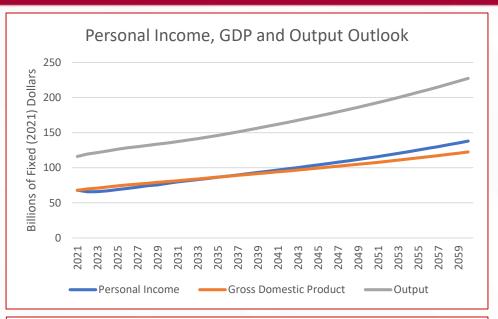


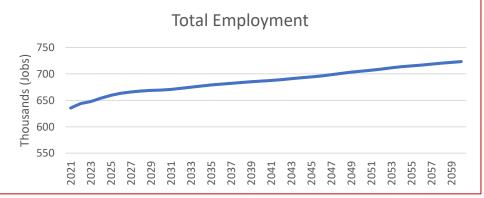


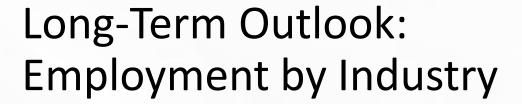


# Long-Term Outlook: Rhode Island

- Years 2021-2060
- Average growth / year
  - Personal income: 1.9%
  - GDP: 1.6%
  - Output: 1.8%
  - Total employment: 3 thousand jobs

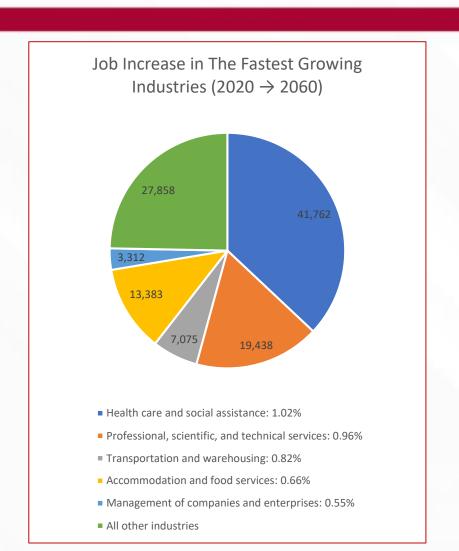








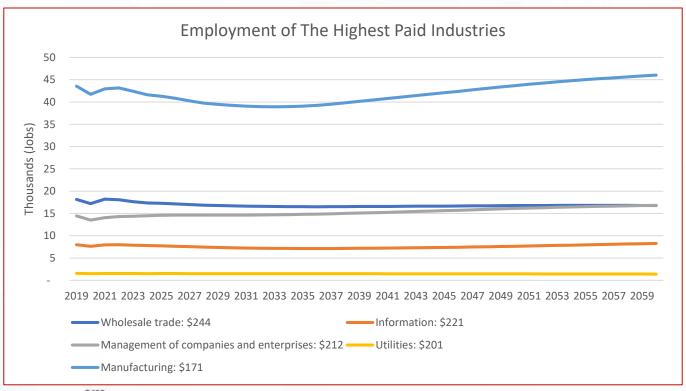
- Industries with fastest employment increasing
- 2020 2060: 84,970 jobs increasing in the top 5 fast growing industries





# Long-Term Outlook: Employment by Industry

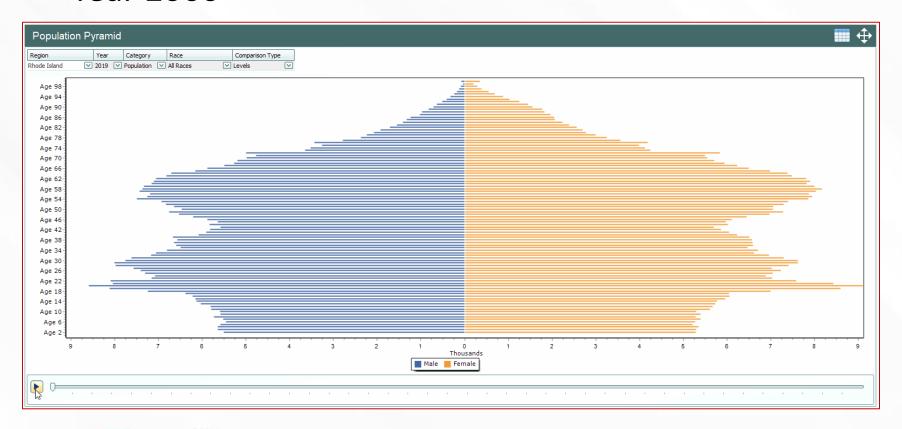
Employment of industries with highest average annual compensation rates in 2060

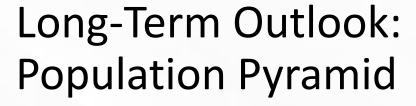




# Long-Term Outlook: Population Pyramid

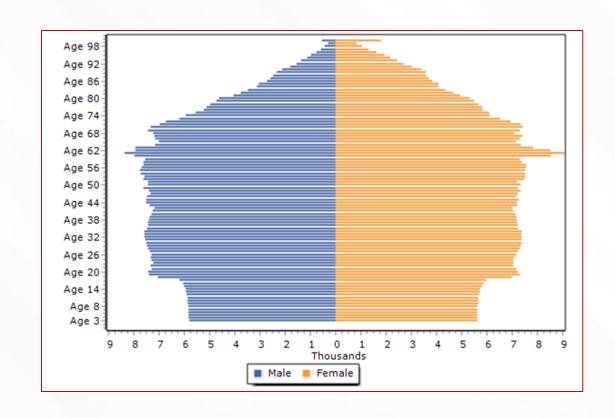
Year 2060





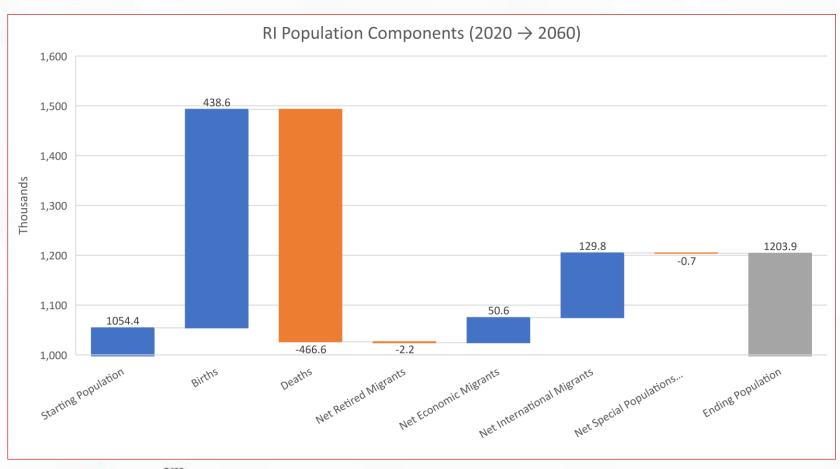


- Year 2060
- Constrictive
  - Elderly and shrinking





## **Population Components**





## Model Demonstration



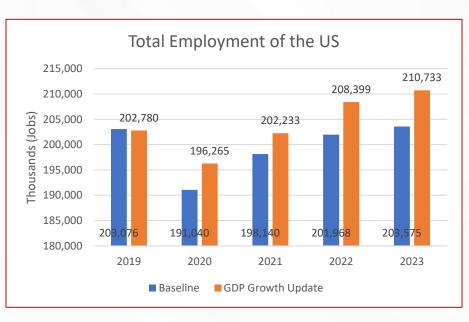
### The Scenario

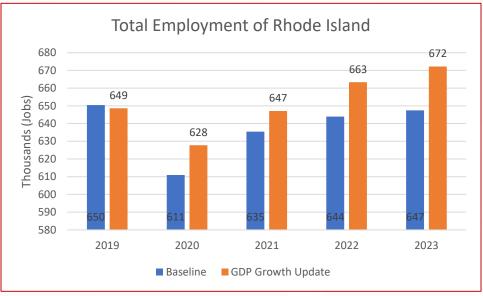
- Optimistic Outlook
  - Baseline Total employment slowly comes back accompanied by steady growth
  - Uncertainty
    - large pent-up consumer demand
    - supports of vaccine
    - stimulus checks
- Macroeconomic update
  - Increase GDP growth rate by 2%
- Total Employment
  - The US vs Rhode Island



### 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: Macroeconomic 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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