

# Economic Outlook for the District of Columbia

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

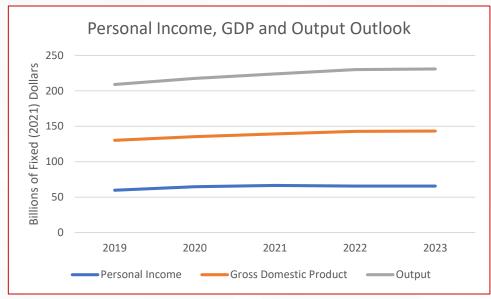
# District of Columbia Economy REMI

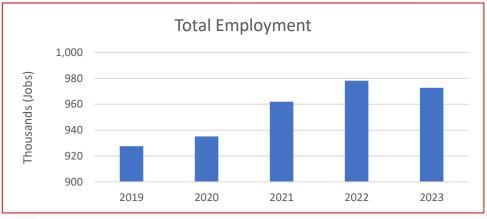
- Population of .70 million; median age of 33.9; and a median household income of \$85,203.<sup>1</sup>
- Key industries include professional, scientific and technical services, public administration, health care and social assistance.
- Top domestic production in dollars include Furniture (\$757M), Alcoholic beverages (\$742M), and waste/scrap (\$690M).





- Years 2019-2023
- Growth 2020-2021
  - Personal income: 2.8%
  - GDP: 2.8%
  - Output: 3.0%
  - Employment: 27 thousand jobs
- Uncertainty





# REMI Regional Growth Matrix: Economic & Demographic Factors



#### **Economic Factors**

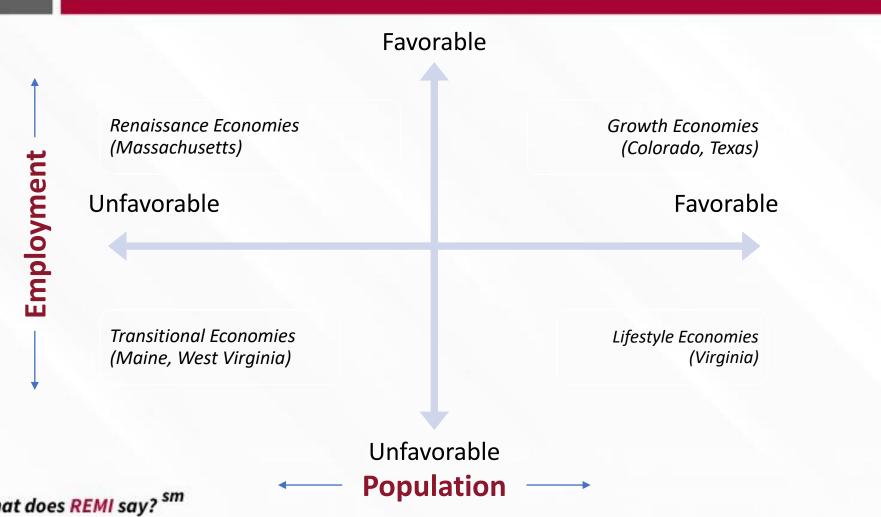
	Industry Growth	Industry Clusters	Pay	Productivity	Business Cost
Favorable	Growing	Strong	High-paid industries	High	Low
Unfavorable	Declining	Weak	Low-paid industries	Low	High

#### **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

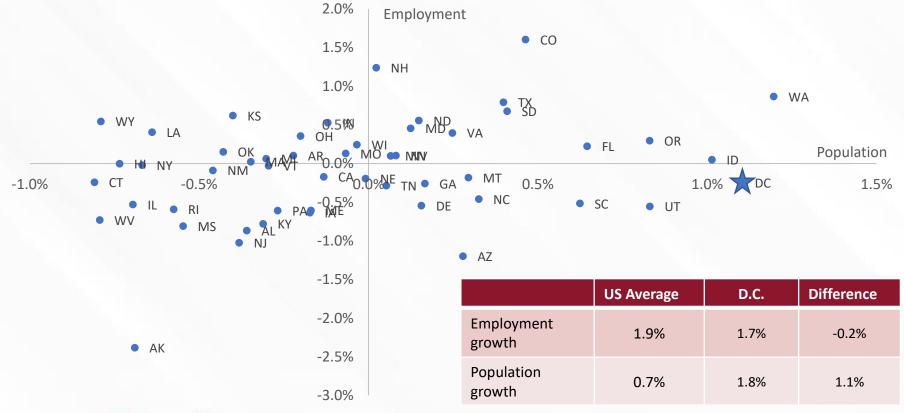


what does REMI say?



#### **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>

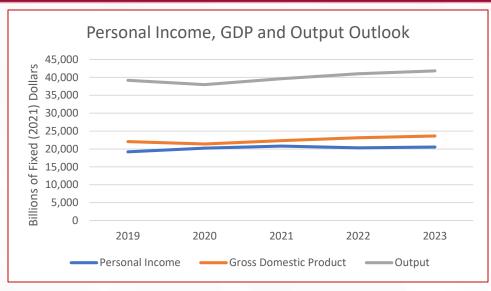


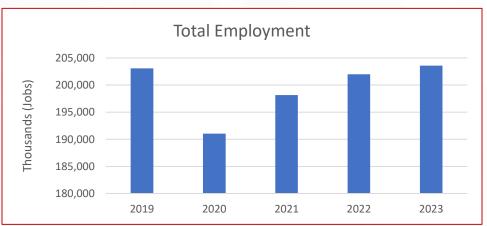
## National Outlook



#### 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

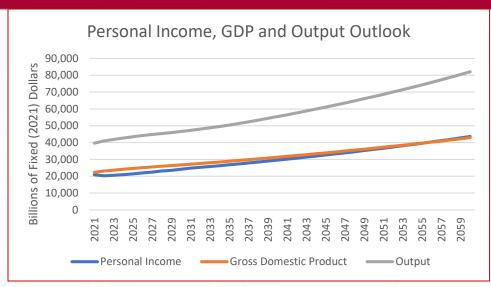


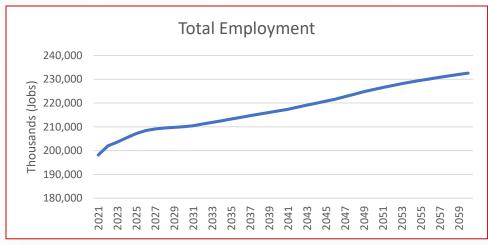




## Long-Term Outlook: The U.S.

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





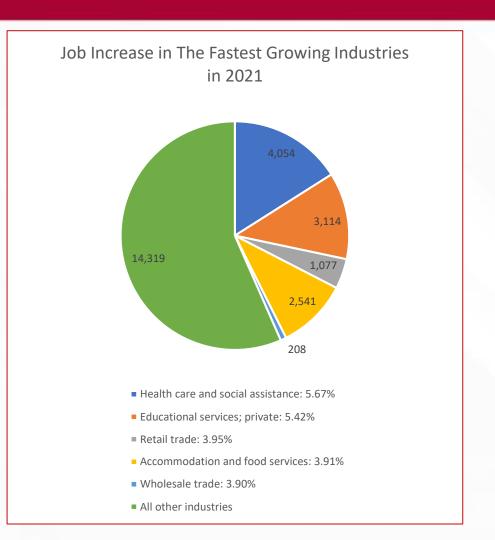


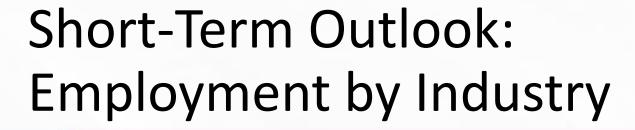
# Regional Outlook: District of Columbia

## Short-Term Outlook: Employment by Industry



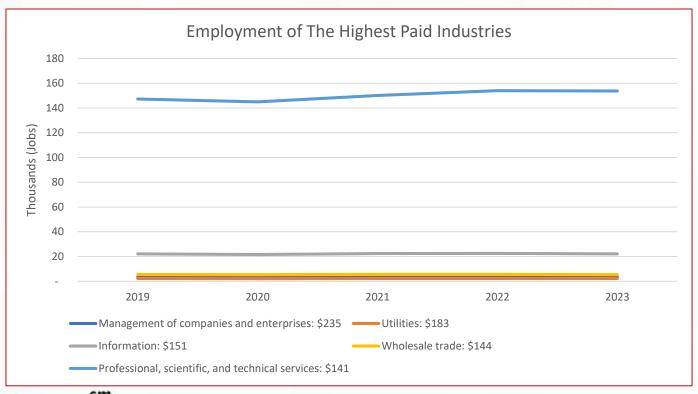
- Industries with largest employment growth rates in 2021
- 2020 2021: 10,994
   jobs increasing in the
   top 5 fast growing
   industries







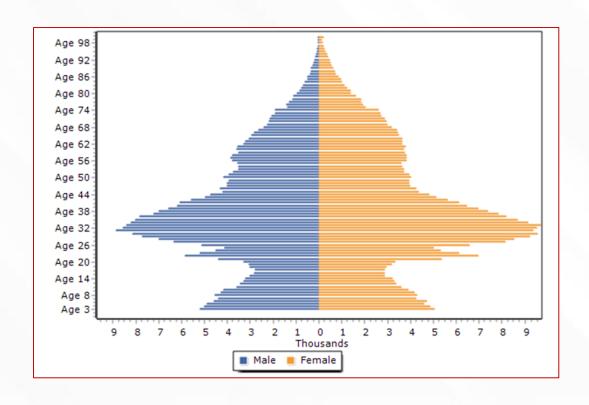
 Industries with highest average annual compensation rates in 2021





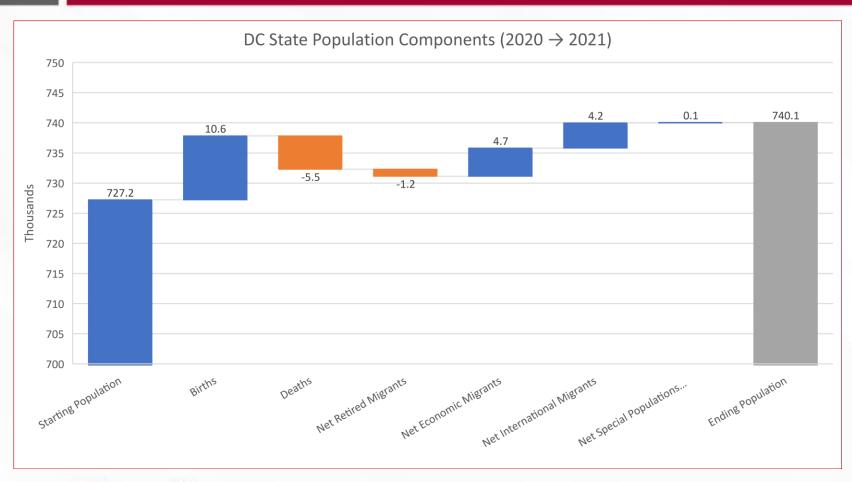


- Year 2021
- Large population of ages 25-39
- Small population of ages 10-19





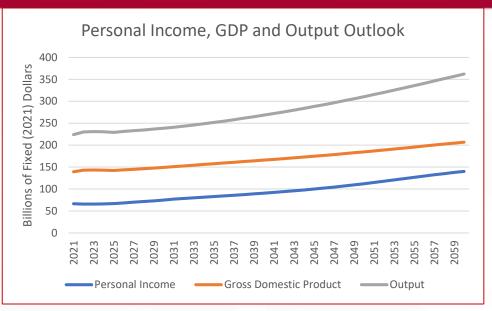


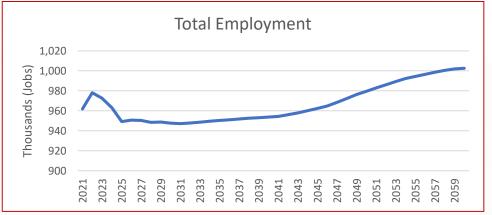






- Years 2021-2060
- Average growth / year
  - Personal income: 2.0%
  - GDP: 1.1%
  - Output: 1.3%
  - Total employment: 2 thousand jobs

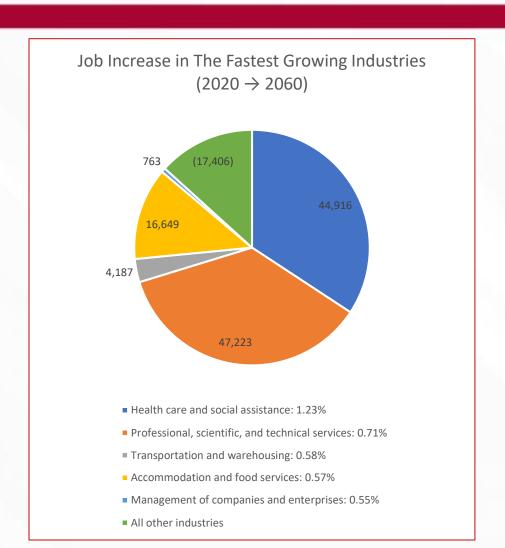


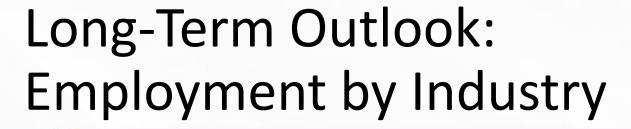






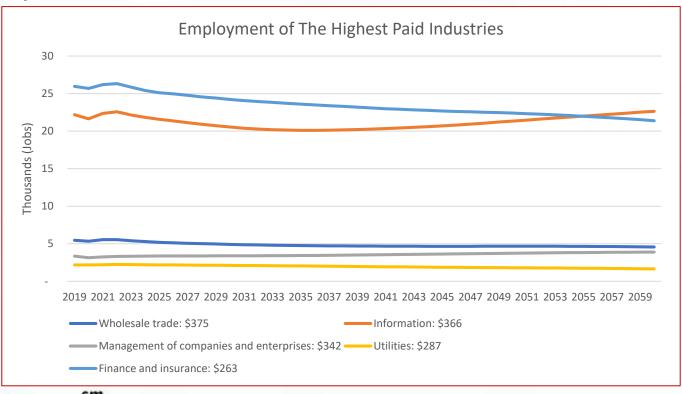
- Industries with fastest employment increasing
- 2020 2060: 113,738 jobs increasing in the top 5 fast growing industries

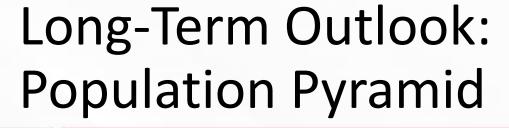






Employment of industries with highest average annual compensation rates in 2060

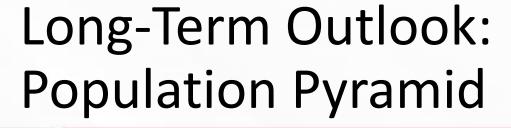






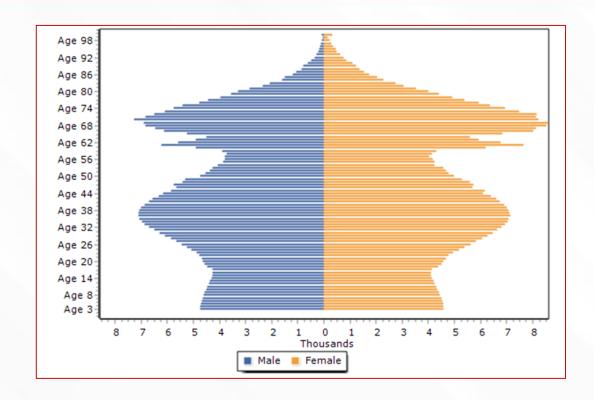
Year 2060





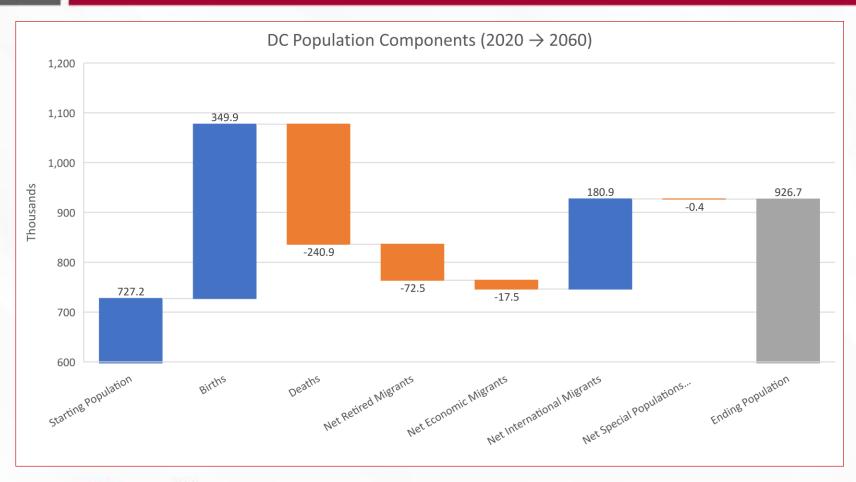


- Year 2060
- Constrictive





#### **Population Components**





### Model Demonstration



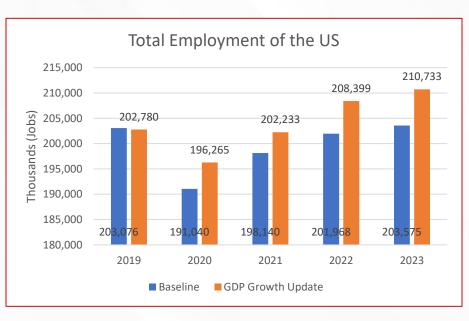
#### The Scenario

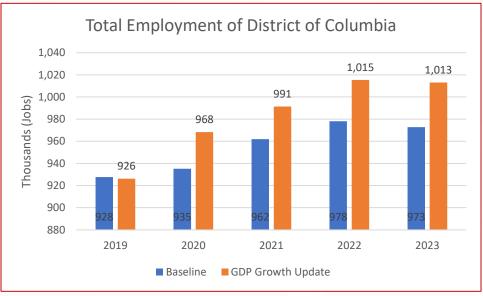
- Optimistic Outlook
  - Baseline Total employment slowly comes back accompanied by steady growth
  - Uncertainty
    - large pent-up consumer demand
    - supports of vaccine
    - stimulus checks
- Macroeconomic update
  - Increase GDP growth rate by 2%
- Total Employment
  - The US vs District of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



#### **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, lsa.umich.edu/content/dam/econ-assets/Econdocs/RSQE%20PDFs/Exec\_Sum\_Feb\_2021.pdf.



# Q&A

May Lin, Economic Analyst May.Lin@remi.com

Julia Wacker, Associate I <u>Julia.Wacker@remi.com</u>

Julian Brubaker, Associate I Julian.Brubaker@remi.com