

# Economic Outlook for the State of Kansas

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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.

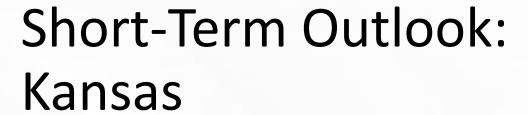
#### **OUR CLIENTS:**

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



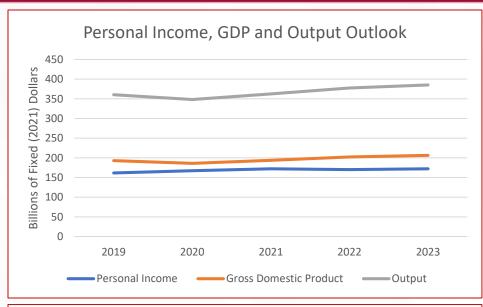
### Kansas State Economy

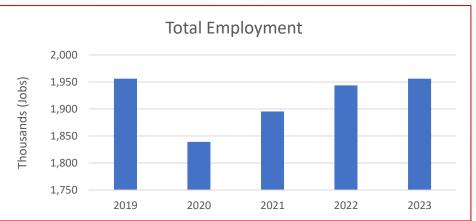
- Kansas is the 35<sup>th</sup> most populous and the 15<sup>th</sup> most expansive of the 50 United States.<sup>1</sup>
- Population of 2.917 million; median age of 36.7; and a median household income of \$59,597.<sup>1</sup>
- Largest contributors to GSP by sector include manufacturing, real estate, rental and leasing, health care and social assistance, and wholesale trade.<sup>2</sup>
- Kansas is the leading state for the agricultural industry.<sup>3</sup>
- Ranked 7<sup>th</sup> for best infrastructure, ranked 8<sup>th</sup> for best natural environment, and ranked 15<sup>th</sup> among the 50 United States for its education system.<sup>3</sup>





- Years 2019-2023
- Growth 2020-2021
  - Personal income: 2.9%
  - GDP: 4.2%
  - Output: 4.1%
  - Employment: 56 thousand jobs
- Uncertainty





## REMI Regional Growth Matrix: Economic & Demographic Factors



#### **Economic Factors**

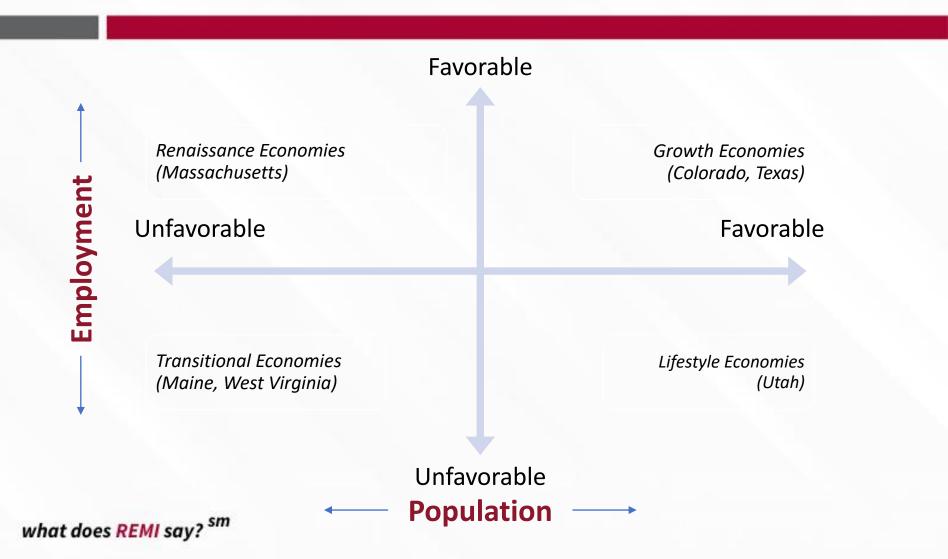
	Industry Growth	Industry Clusters	Pay	Productivity	Business Cost
Favorable	Growing	Strong	High-paid industries	High	Low
Unfavorable	Declining	Weak	Low-paid industries	Low	High

#### **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



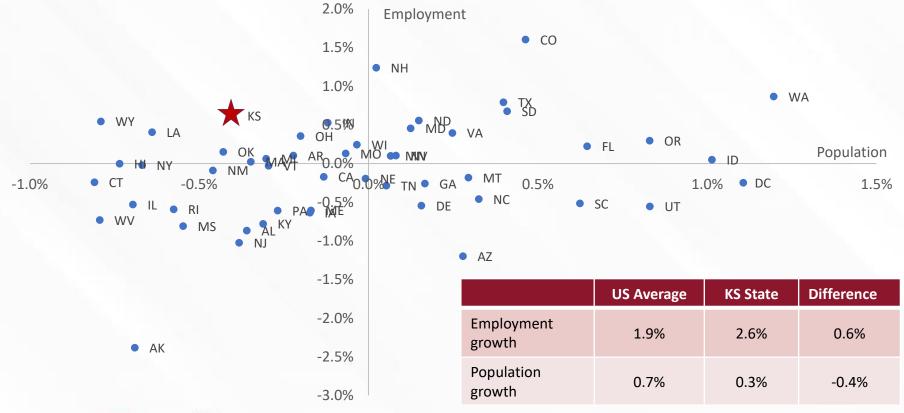
### Regional Growth Matrix





#### **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>

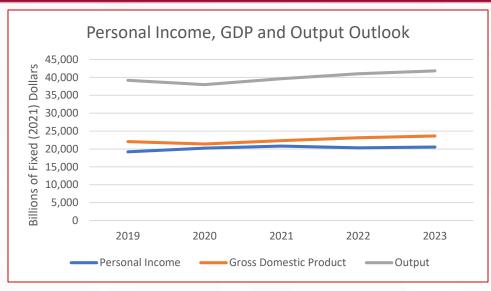


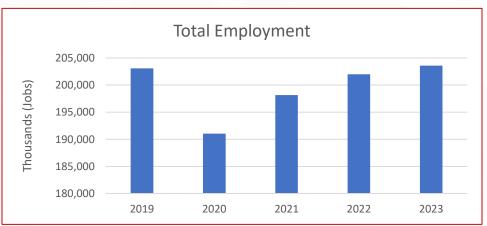
### National Outlook



#### 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

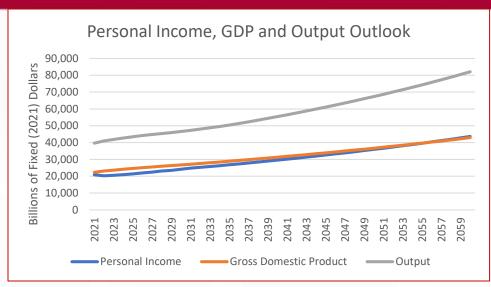


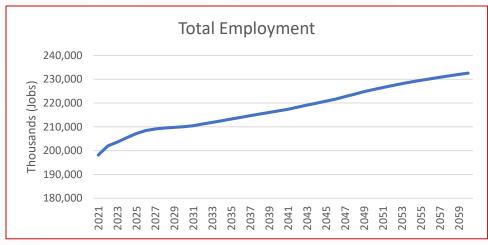




### Long-Term Outlook: The U.S.

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





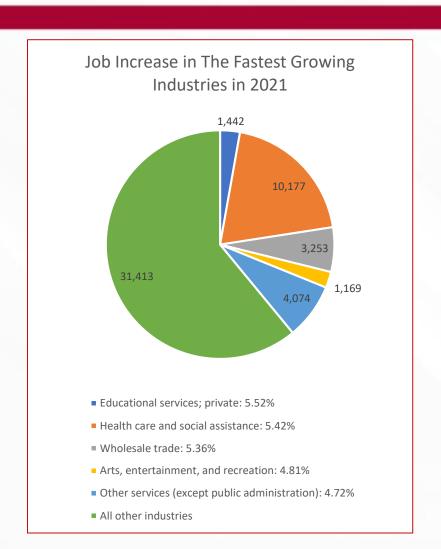


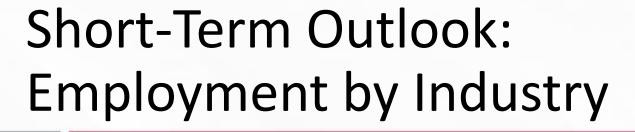
### Regional Outlook: Kansas

### Short-Term Outlook: Employment by Industry



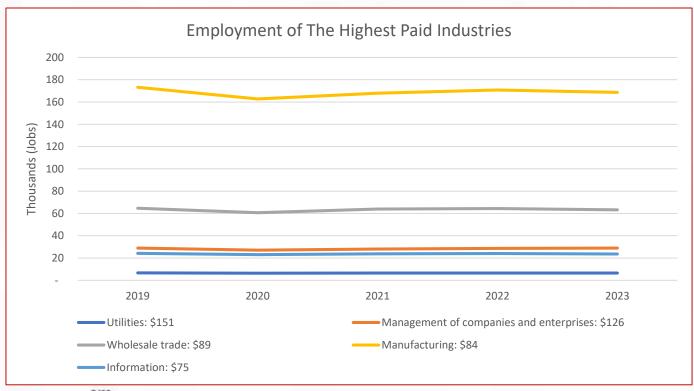
- Industries with largest employment growth rates in 2021
- 2020 2021: 20,115
   jobs increasing in the
   top 5 fast growing
   industries







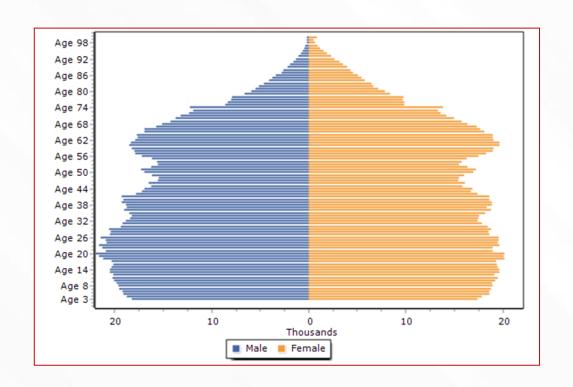
 Industries with highest average annual compensation rates in 2021





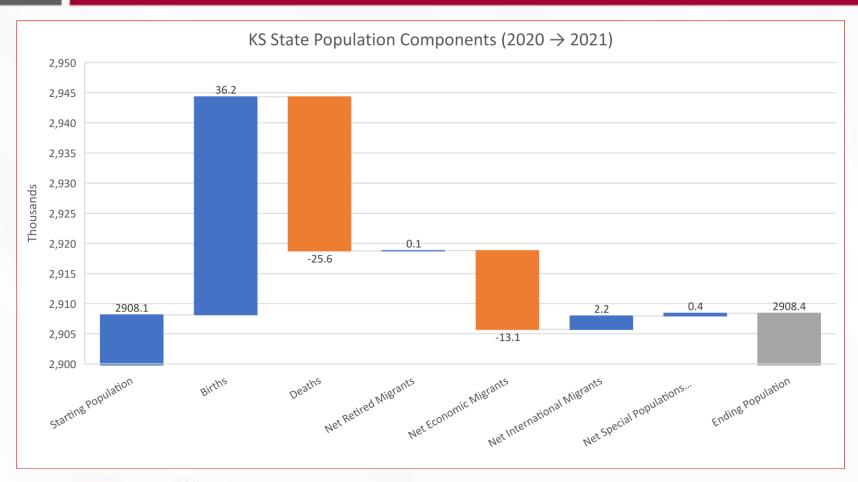


- Year 2021
- Expansive / near stationary





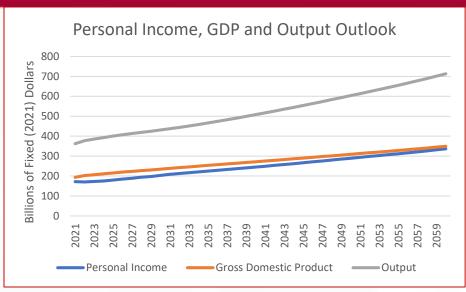


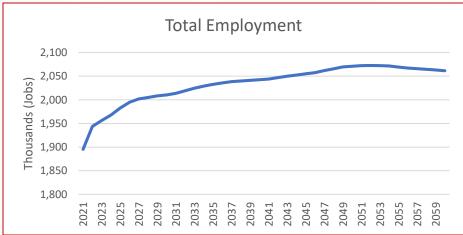




### Long-Term Outlook: Kansas

- Years 2021-2060
- Average growth / year
  - Personal income: 1.8%
  - GDP: 1.6%
  - Output: 1.8%
  - Total employment: 6 thousand jobs

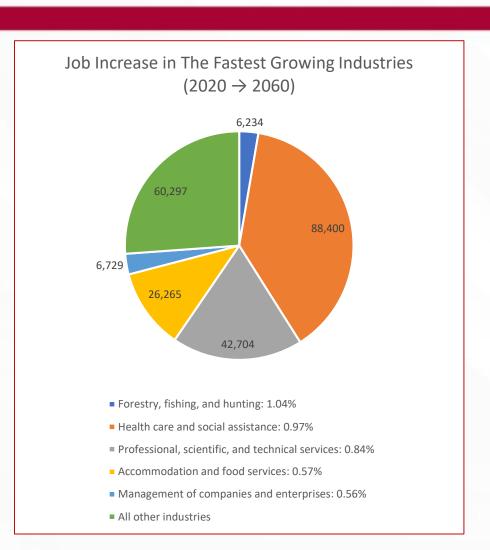


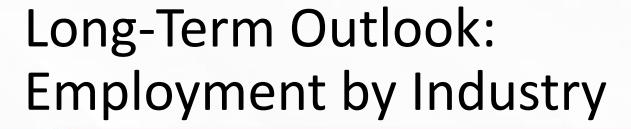


### Long-Term Outlook: Employment by Industry



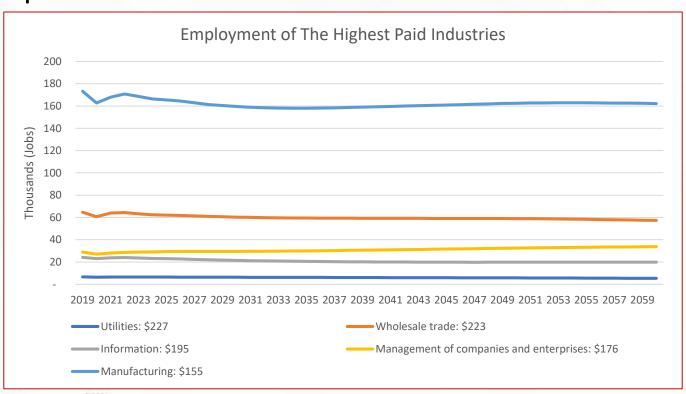
- Industries with fastest employment increasing
- 2020 2060: 170,332 jobs increasing in the top 5 fast growing industries







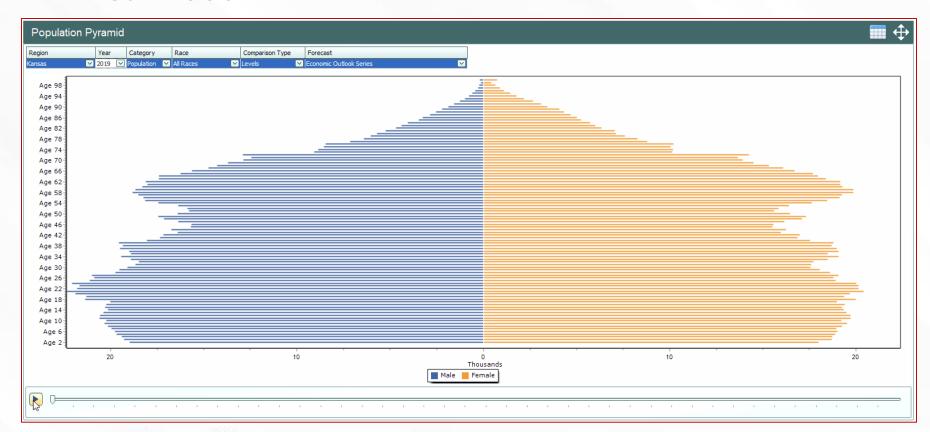
Employment of industries with highest average annual compensation rates in 2060







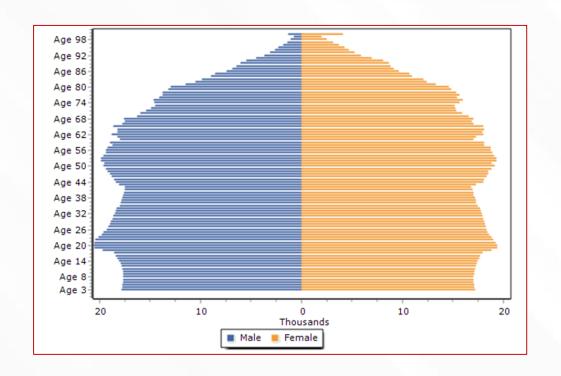
Year 2060





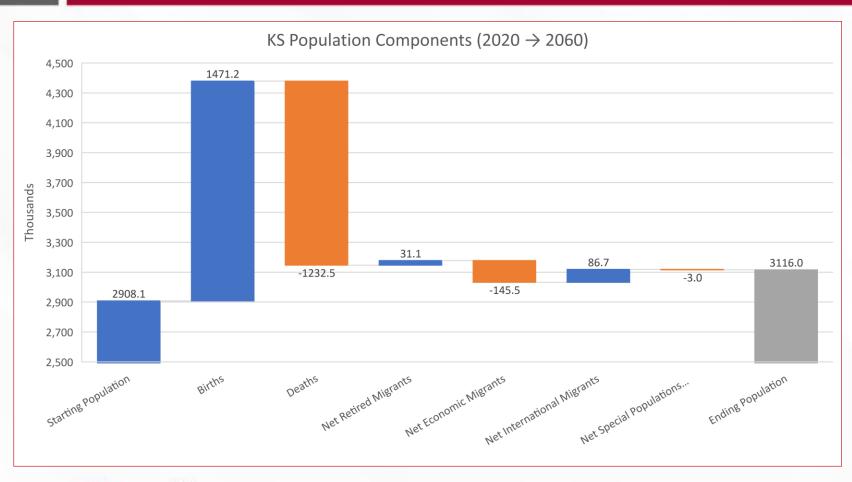


- Year 2060
- Stationary





### **Population Components**





### Model Demonstration



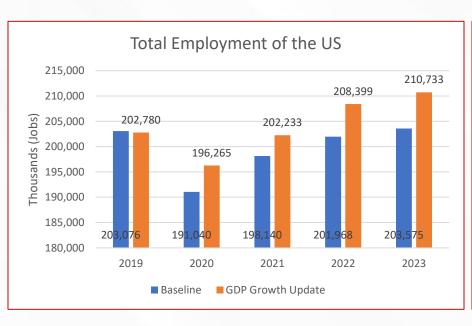
#### The Scenario

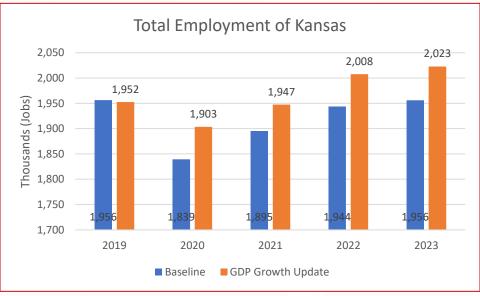
- Optimistic Outlook
  - Baseline Total employment slowly comes back accompanied by steady growth
  - Uncertainty
    - large pent-up consumer demand
    - supports of vaccine
    - stimulus checks
- Macroeconomic update
  - Increase GDP growth rate by 2%
- Total Employment
  - The US vs Kansas



### 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

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#### **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.