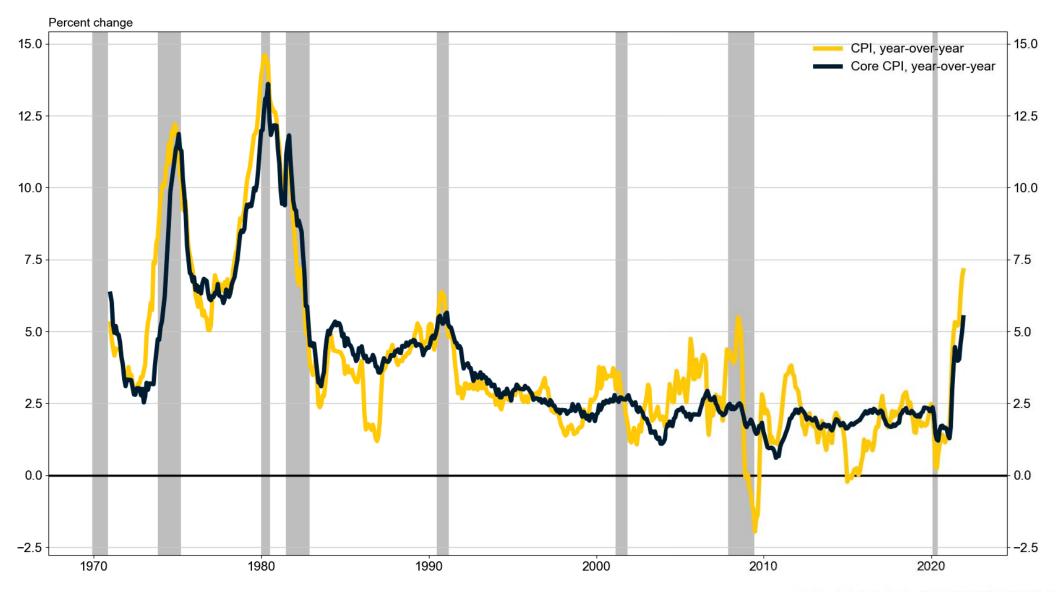
The U.S. and Michigan Outlook for 2022–2024 Consensus Revenue Estimating Conference Lansing, Michigan



Research Seminar in Quantitative Economics

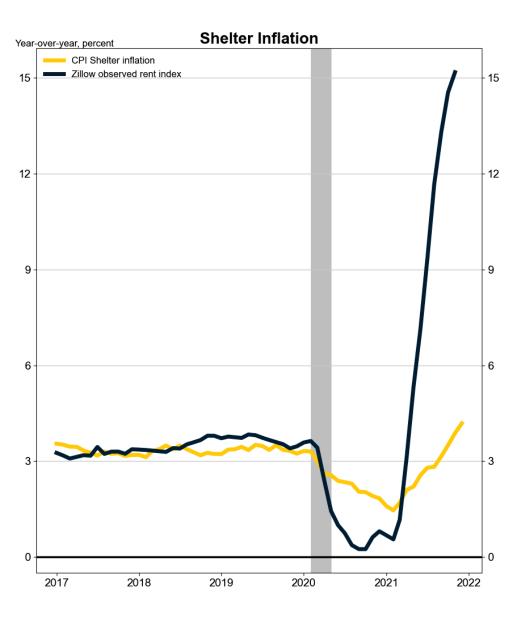


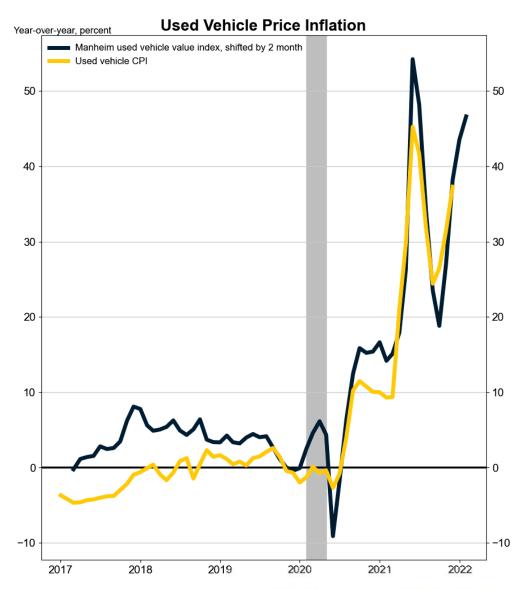
#### **Consumer Price Index**





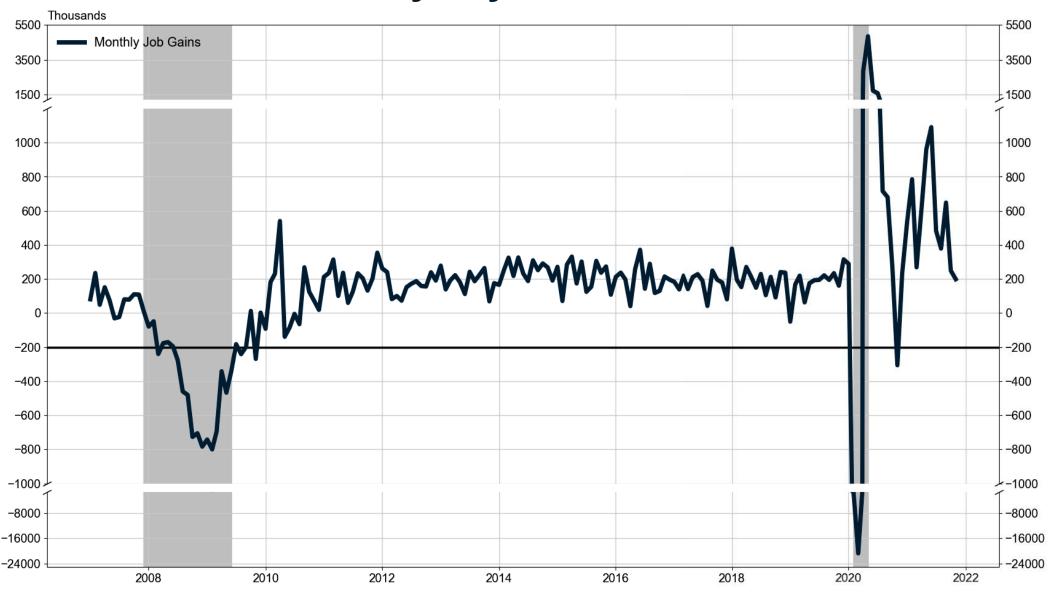
#### **Inflation Pressures**







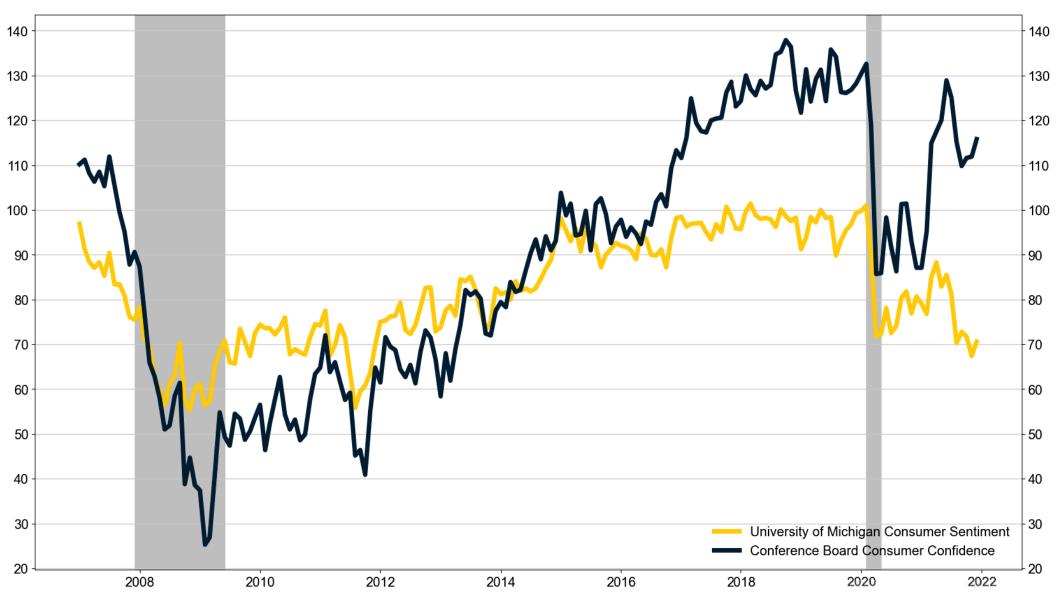
#### **Monthly Payroll Job Gains**





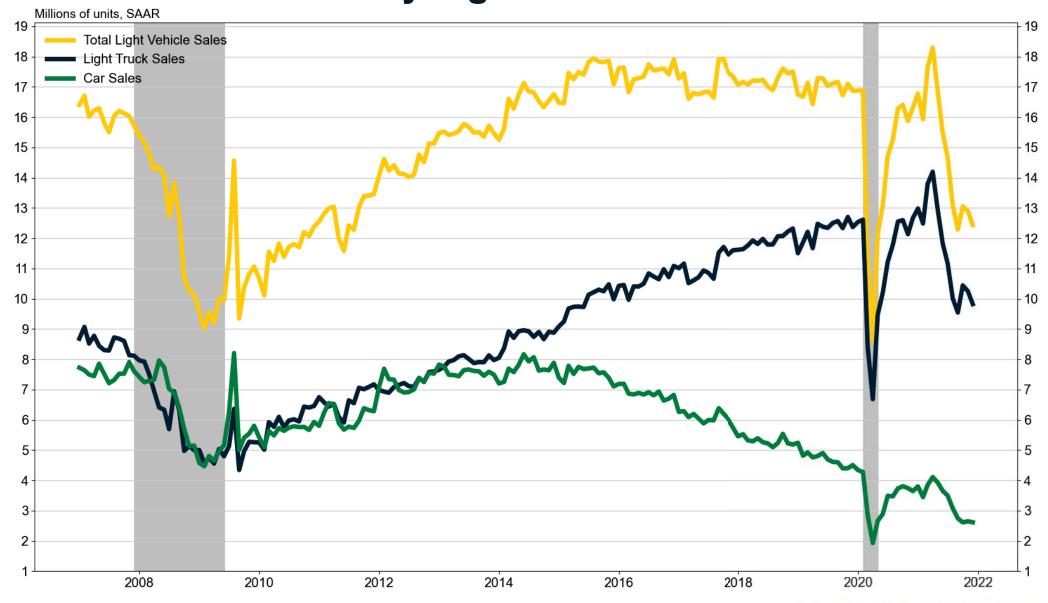


#### **Consumer Sentiment**

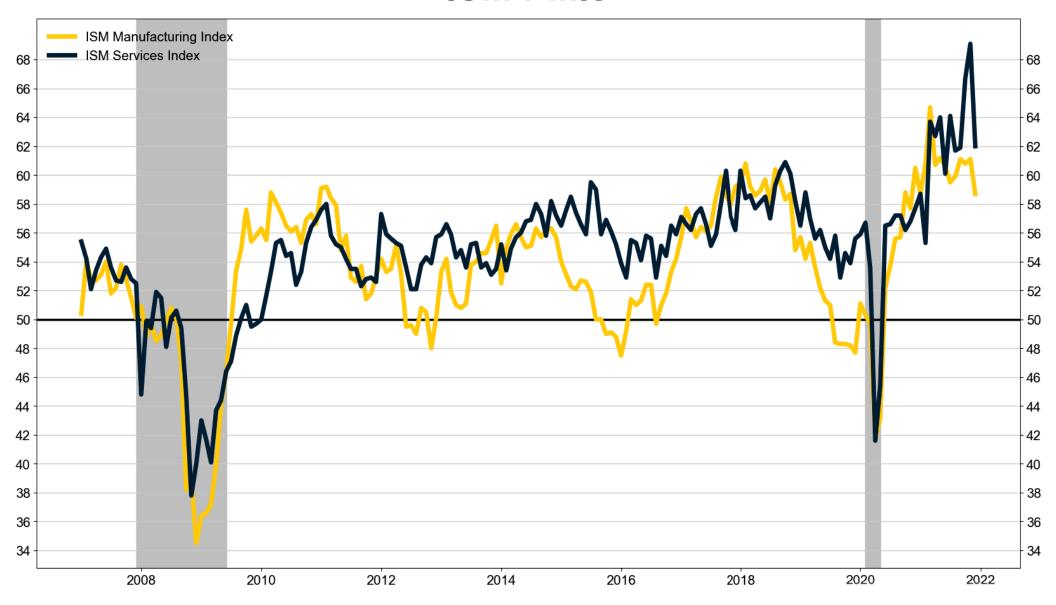




### **Monthly Light Vehicle Sales**



#### **ISM PMIs**





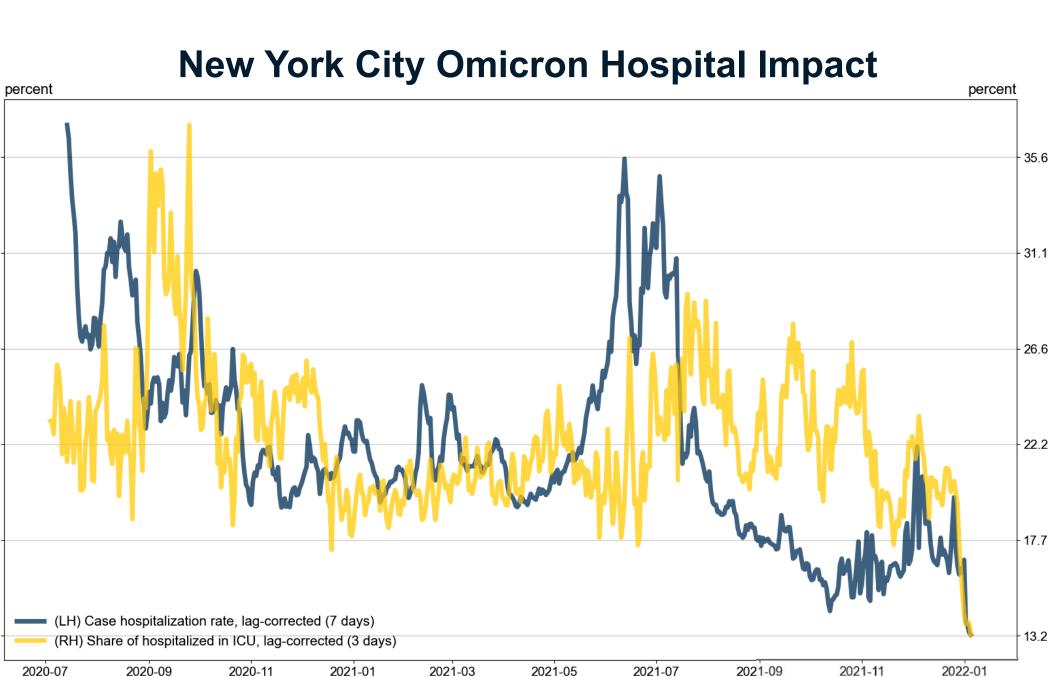
## Inputs

#### **Pandemic Dynamics Assumptions**

Omicron spreads quickly, infects vaccinated more easily, but seems considerably nilder than previous strains

- Just-released Kaiser Permanente comparison of Omicron to Delta shows:
  - ~60% lower case hospitalization rate, ~70% shorter hospital stays (by 3.4 days)
  - ~75% lower case ICU admission rate, ~90% lower mortality rate
  - Note: early estimates, with wide confidence bands.
- New York City data tells similar story. Omicron dominant since mid-December
- With no harsh mitigation Omicron will spread widely and quickly
- Moderate impact on 2022Q1 GDP and job growth due to labor supply disruption
- We assume no future strains of significantly higher severity
- SARS-CoV-2 mutation patterns so far are quite unusual





#### **Monetary Policy**

- Chair Powell reconfirmation imminent
- December 2021 unemployment rate below 4 percent
  - Payroll job count still 3.5 million shy of pre-pandemic peak
- Inflation very high, supply chain stress lingers
- Near-term inflation expectations rising, but long-term expectations still anchored
- We expect the first fed funds rate hike in May 2022.
  - March is likely to soon to assess the damage due to the Omicron wave
- Rate range will reach 0.75–1.00 percent by the end of 2022
- 1.75–2.00 percent by the end of 2024



#### **Fiscal Policy**

#### Biden Agenda currently on life support

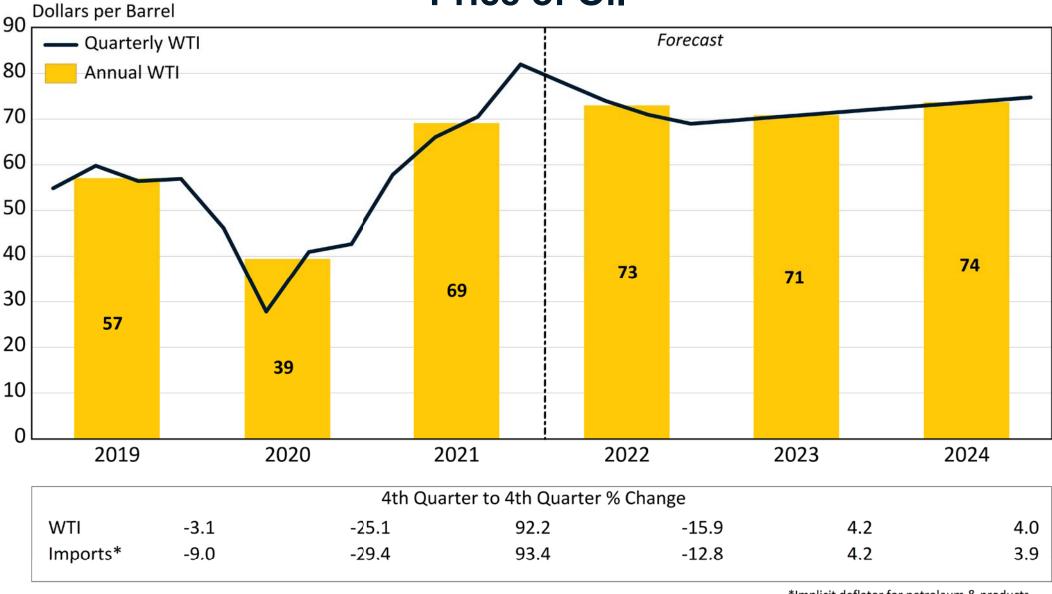
 Child Tax Credit, ACA credits, EITC credits lapsed. Will lower growth in 2022Q1

We still expect a trimmed-down reconciliation bill to pass this spring

- Scaled-down climate agenda
- Lapsed tax credits partially reinstated, funded for 10 years
- Limited personal and corporate tax increases/tweaks
- SALT deduction cap repeal targeted at the middle class
- About \$1.8 trillion total, fully paid-for



#### **Price of Oil**



\*Implicit deflator for petroleum & products



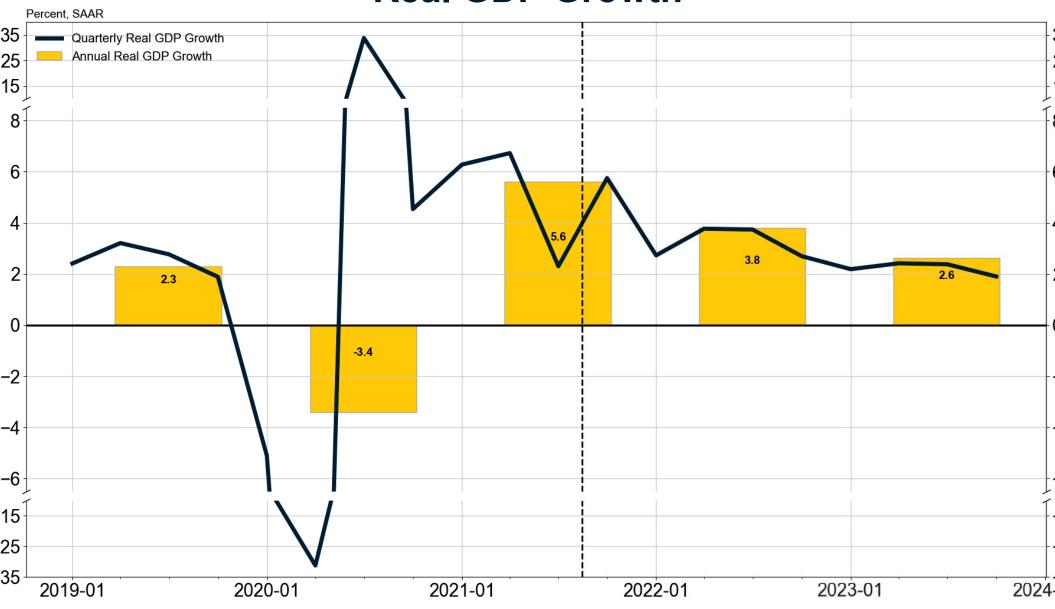
### **Single-Family Home Price Appreciation**





## **U.S. Forecast**

#### **Real GDP Growth**

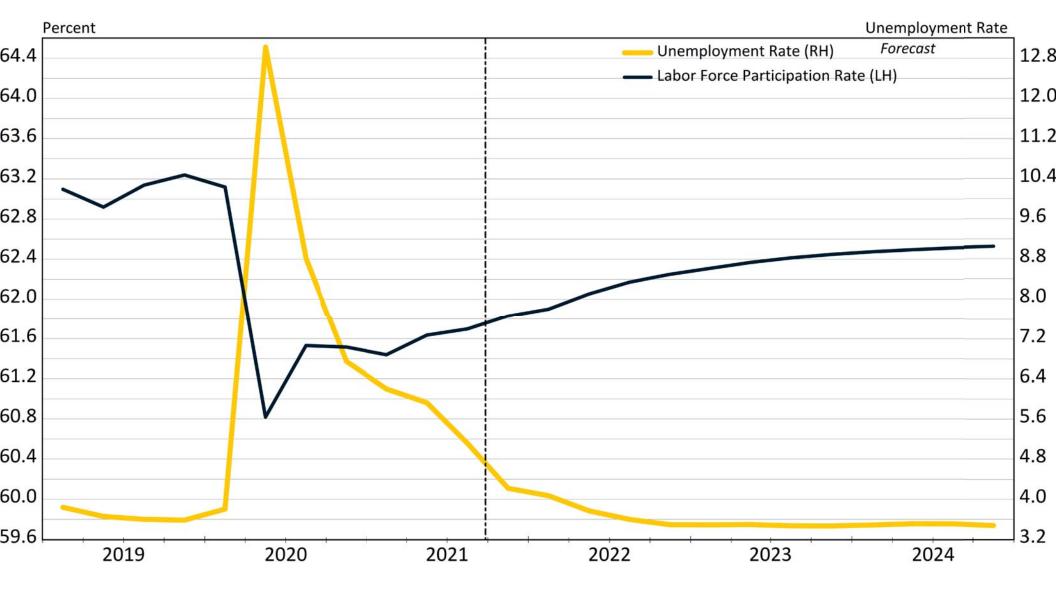




## **Payroll Employment Growth**

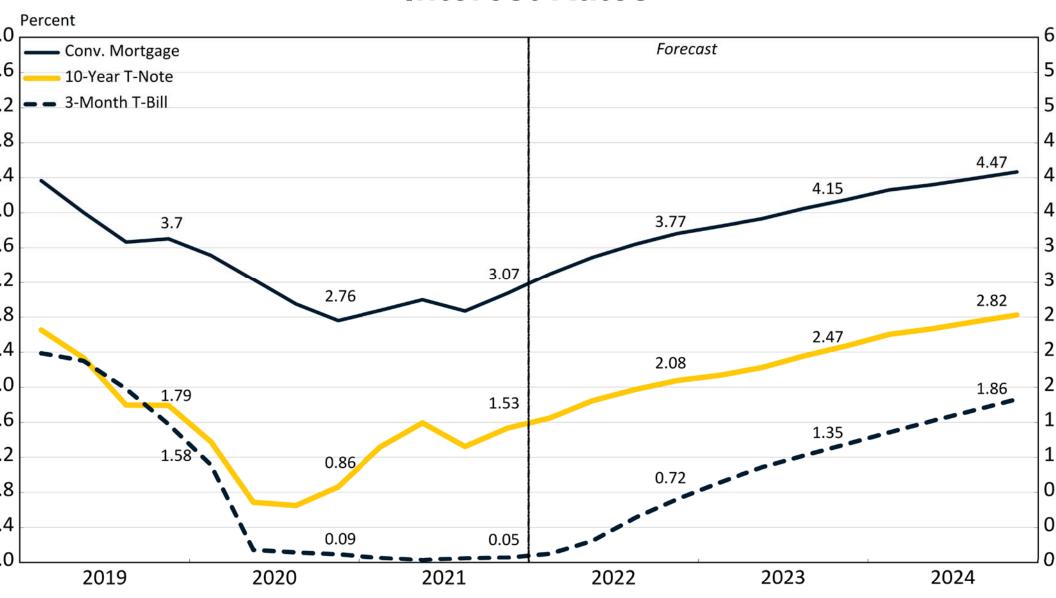


#### **Unemployment Rate and Participation Rate**



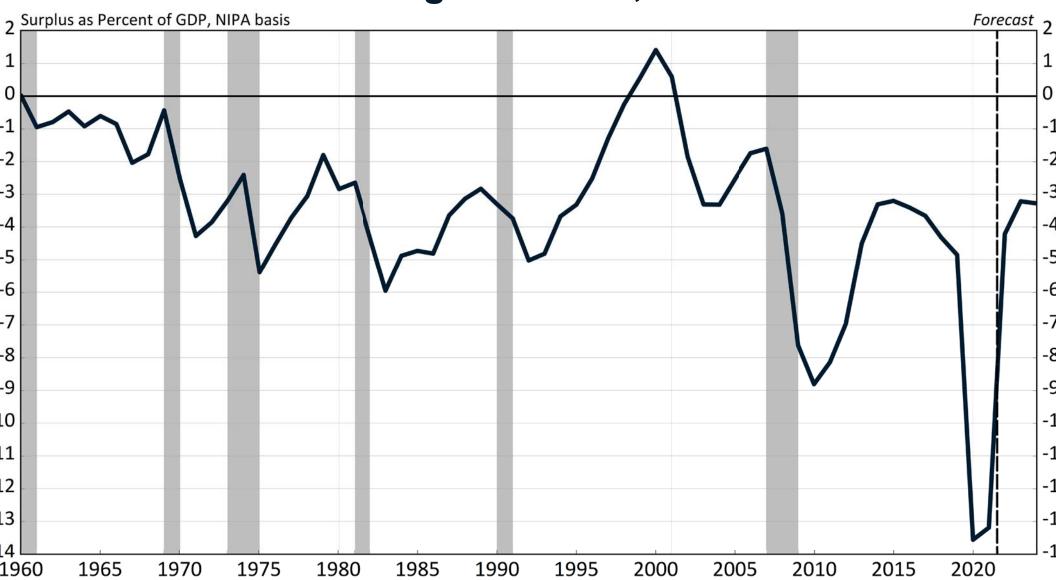


#### **Interest Rates**



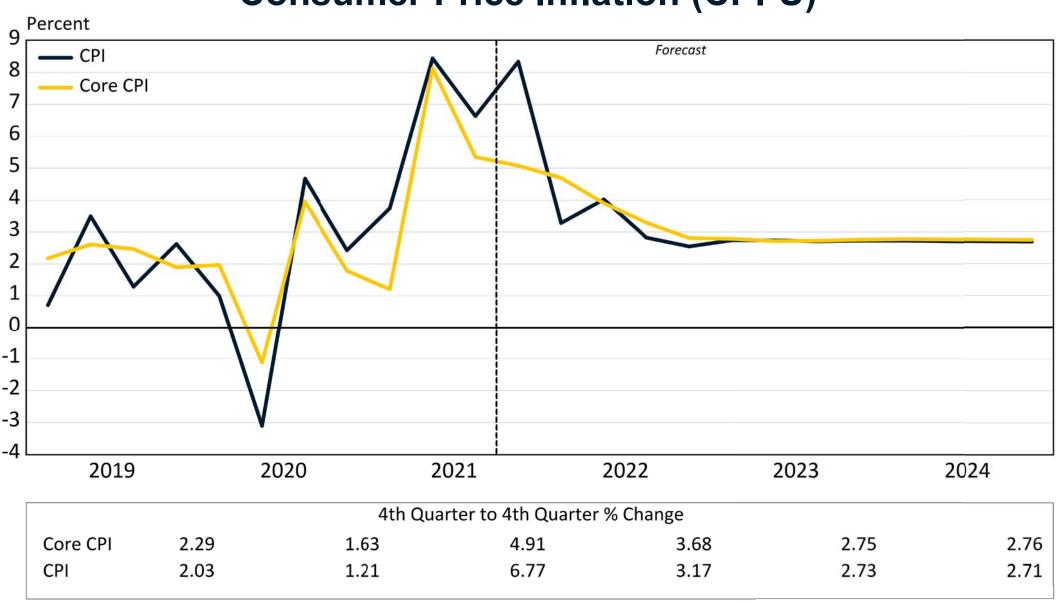


#### Federal Budget Balance, Fiscal Year



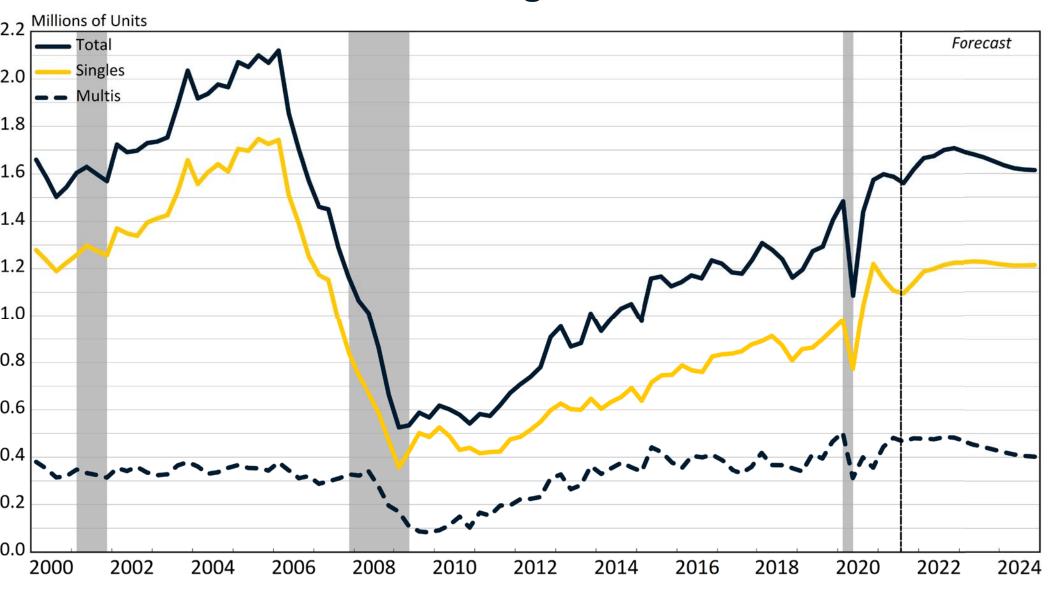


## **Consumer Price Inflation (CPI-U)**



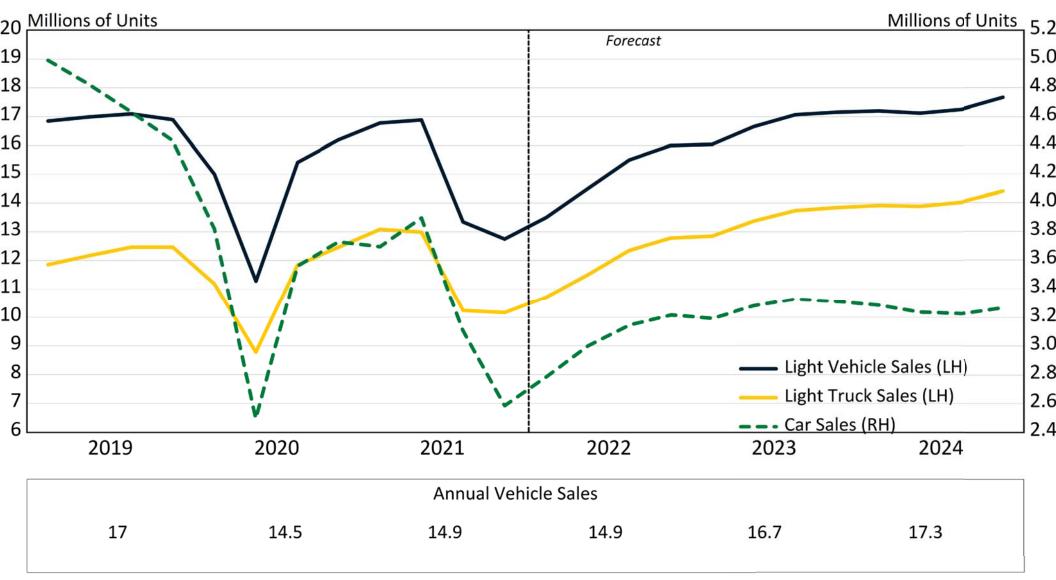


## **Housing Starts**





### **Light Vehicle Sales**





#### **Risks**

- >The Pandemic
  - Domestic
  - International
- Supply Chain Stress
- > Inflation
  - Monetary policy
  - Fiscal path
  - Elections
- Housing Sector



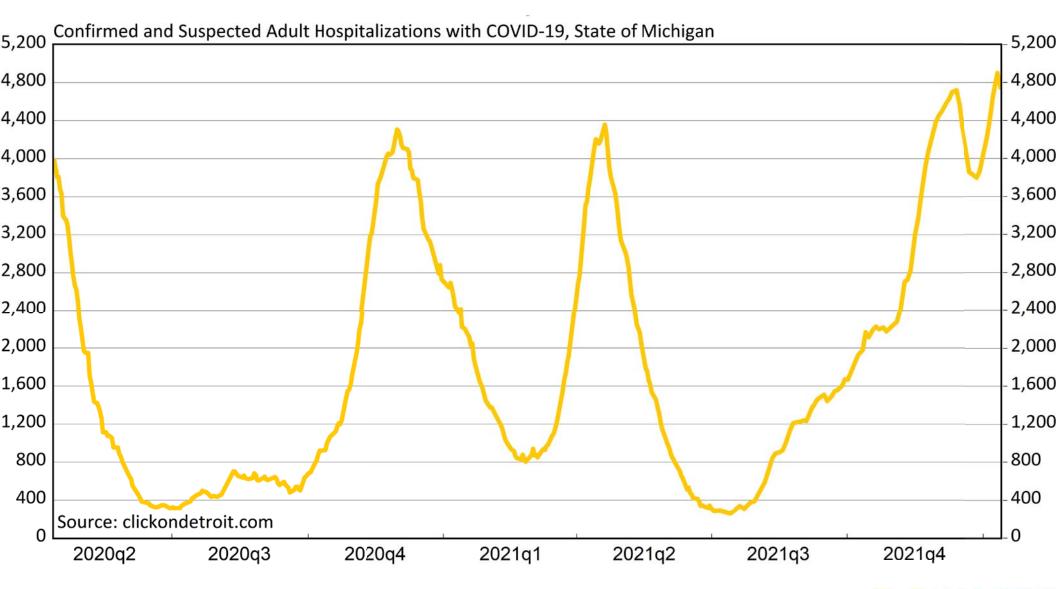
# The Economic Outlook for Michigan for 2022–2024



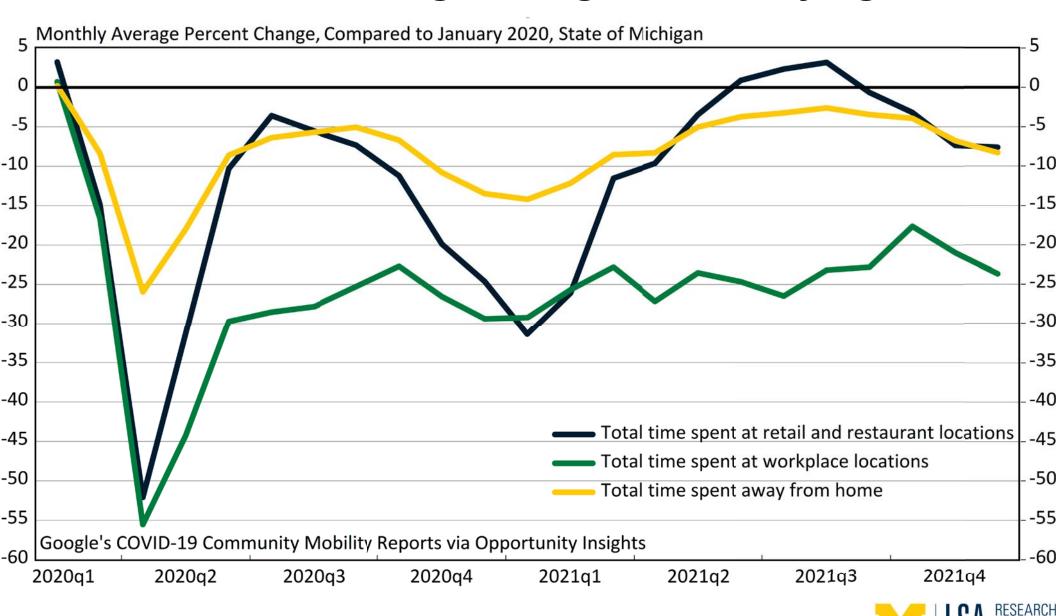
**Research Seminar in Quantitative Economics** 

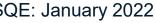


### **COVID-19 Hospitalizations at Record Highs**

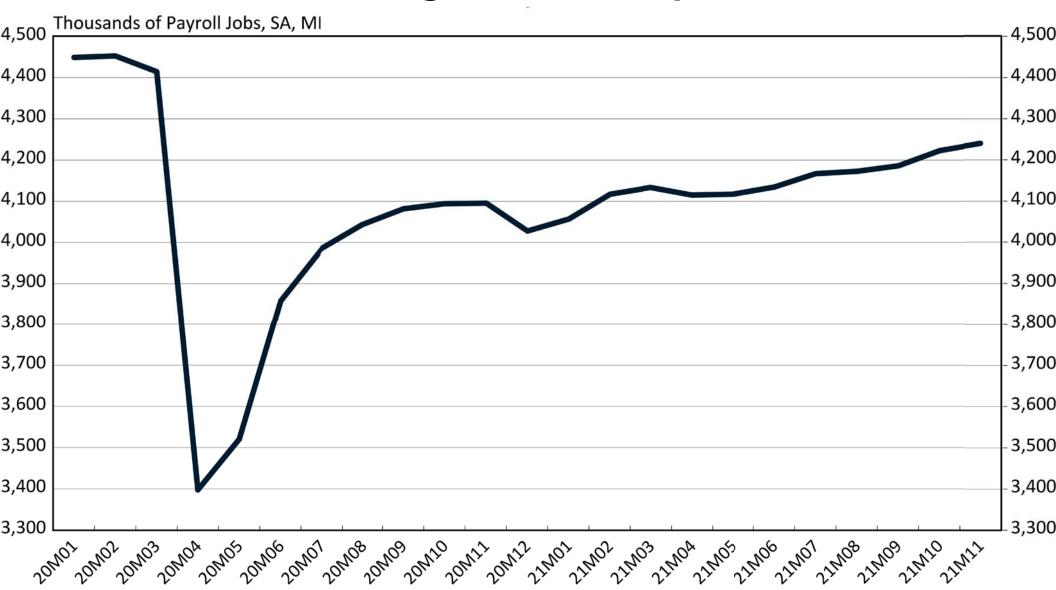


#### Pandemic Starting to Weigh on Activity Again



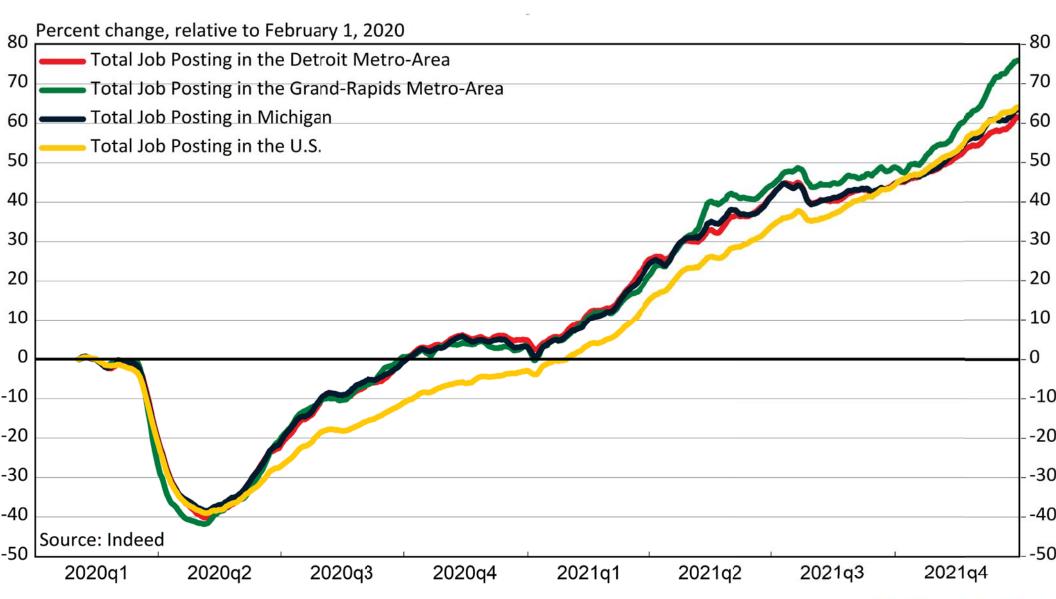


#### Still Climbing Out of a Deep Jobs Hole





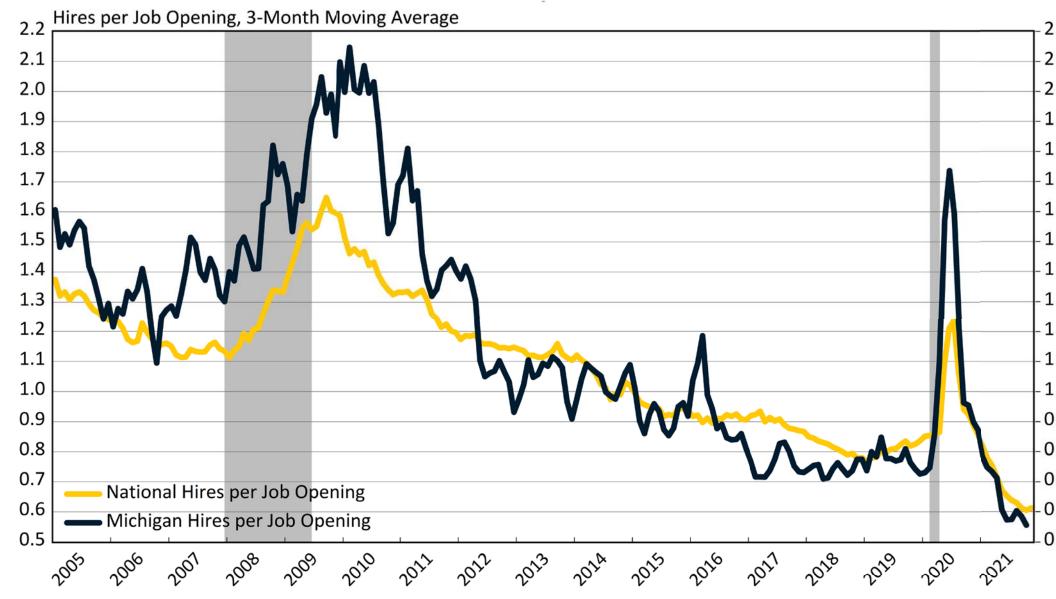
### Job Openings Still Sky High





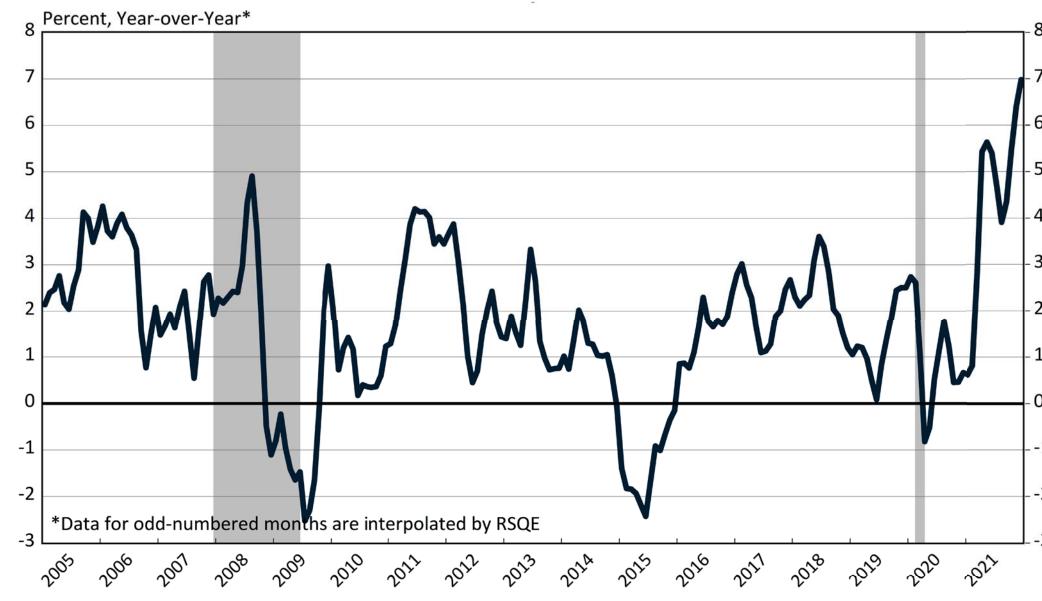


### Filling Jobs Is Getting Harder





#### **Local Inflation: Fastest Since 1981**



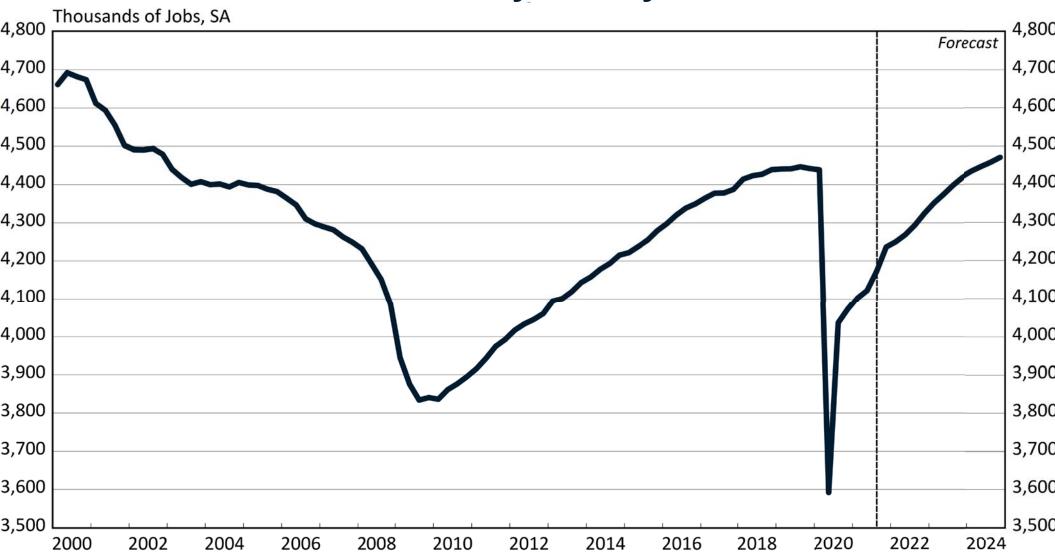


## Michigan Economic Outlook

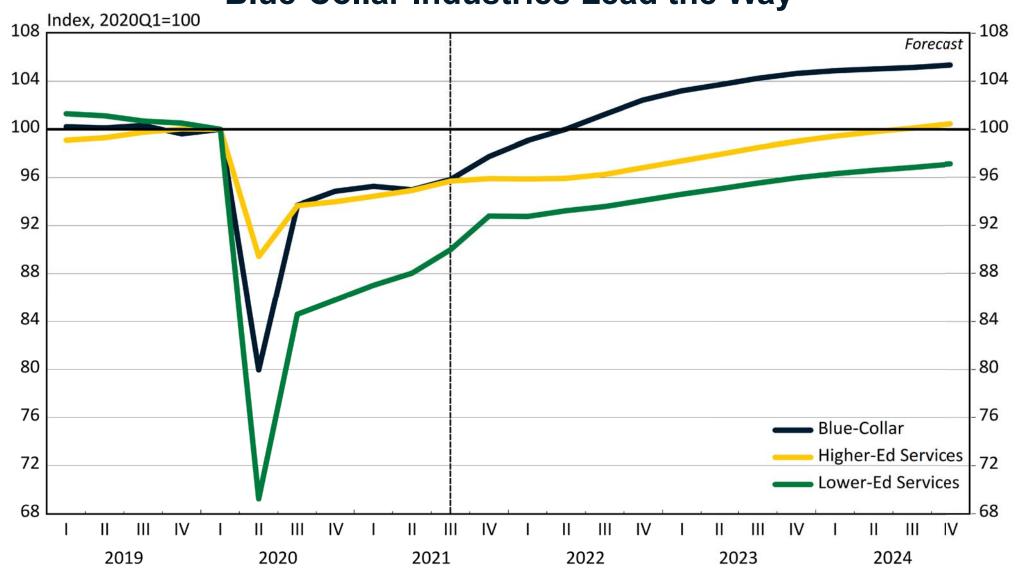
#### **Annual Light Vehicle Sales: Recovery with a Lag**



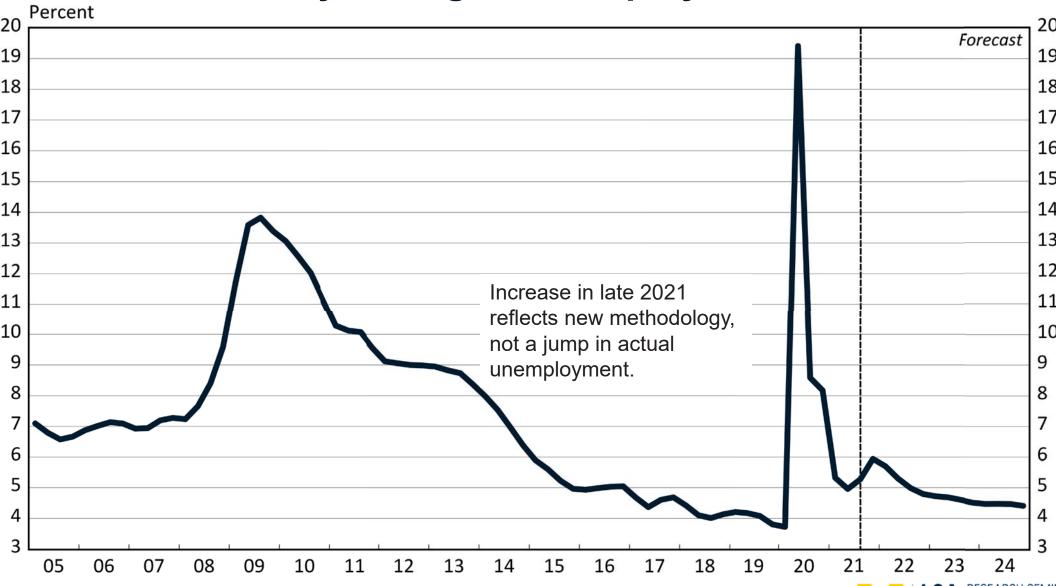
# Quarterly Michigan Payroll Employment: Full Recovery in Early 2024



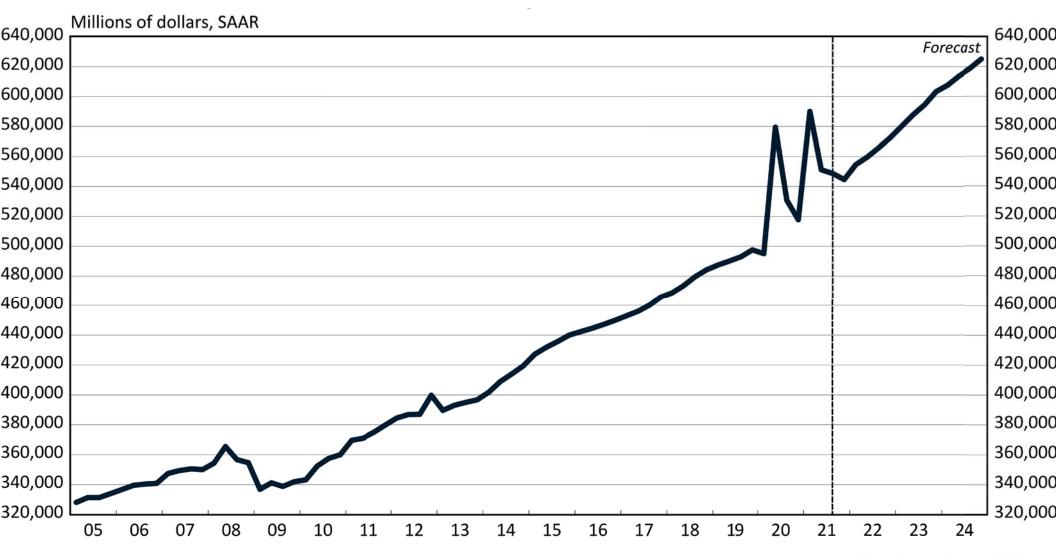
## **Employment Outlook by Industry Group: Blue-Collar Industries Lead the Way**



#### **Quarterly Michigan Unemployment Rate**



## **Quarterly Michigan Personal Income: Stimulus Offset Income Losses**

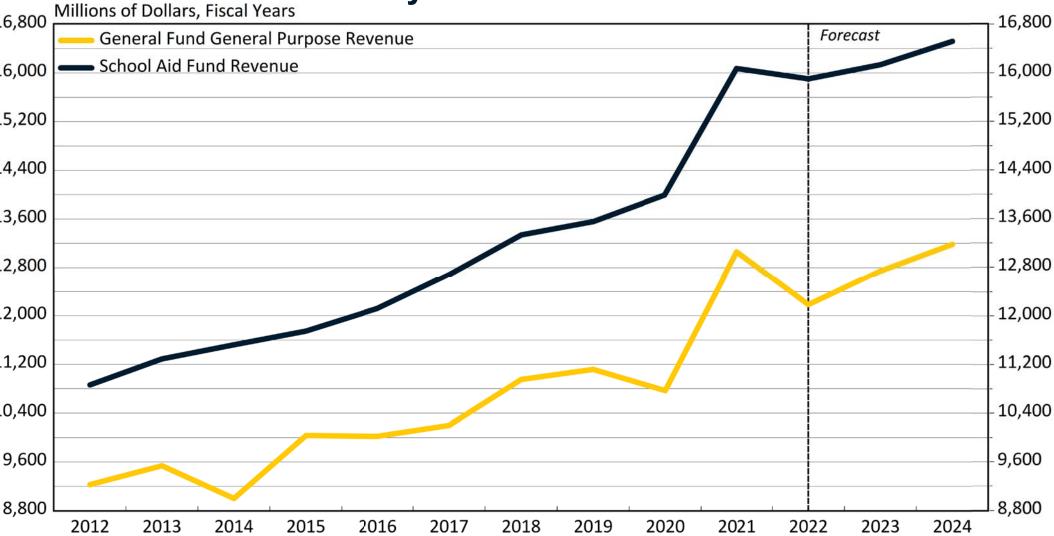




National and Local Inflation: Prices Will Cool Down...Eventually



# State Tax Revenues: Will They Come Back to Trend?







## Isa.umich.edu/econ/rsqe