

DEVELOPING ECONOMIC FORECAST SCENARIOS FOR COVID-19 USING THE REMI MODEL

Objective



- Simple, quick-to-implement new state/regional forecast based on COVID-19 repercussions
- □ Easily modified for best-case, worse-case, etc.
- Allows for "what-ifs?" either as shocks or as policy decisions that a Governor wants to look at
- For example, "what if" international college student enrollment drops by 25% in the fall; or "what if" the Governor cancels events, closes restaurants

About REMI



REMI's 40-year history of rigorous academic research and software development has led to the development of the industry standard in macroeconomic research methodology:

Input-Output

Close analysis of inter-industry relationships

Econometrics

Advanced statistical analyses underpinning the model



General Equilibrium

Estimate of long-run stability of the economy allows for analysis of policy decisions

Economic Geography

Effects of geographic concentration of labor and industry



Integrated REMI economic modelling approach











Methodology: Overview



Modify Baseline National Forecast to Reflect National COVID-19 Slowdown/Recession Scenario

Use COVID-19 National Forecast to Drive State/ Regional Forecast

3. Additional Modifications/What-Ifs for State/ Region

Methodology: Details



- User has new national GDP growth forecast from Moody's, IHS, RSQE, etc., or has exogenous growth assumptions (annual, Q2 – important for states)
- User creates "New National Control" in Tax-PI or PI+ to create a national forecast scenario
- This COVID-19 national forecast is the new driver for an updated regional forecast
- Further adjustments to "New Regional Control" to reflect relative differences from nation (e.g. Auto Manufacturing in AL, Restaurants in OH)

National Forecast Updates REMI



- □ UCLA Anderson: -0.4% (Q2 -6.5%, Q3 -1.9%)
- □ IHS Markit: -0.2%
- □ Moody's: Q1 -1.6%, Q2 -2.5%
- □ Morgan Stanley: Q2 -4%
- □ Deutsche Bank: -1% (Q2 -13%)
- □ Pantheon: Q2 -10%
- □ Note: GM, Ford, Fiat Chrysler, Honda, Toyota temporarily shutting down North American plants

COVID-19 Impacts



- Loss of Productivity/Absenteeism/Shutdowns
- Consumer spending
- Supply chain disruption
- Decline in global demand
- □ Increase mortality rate