

PRESENTATION TO BEGIN SHORTLY AFTER 2:00 PM EST

REMI 2.0 LAUNCH SERIES SOLUTIONS-BASED ANALYSIS: MODELING POLICY USING REMI

Presented by Marley Buchman, Senior Economic Associate

Launch Series Schedule and Outline



Session 3: Economic and Demographic
Dimensions of Regional Growth

□ Jan. 31st and Feb. 2nd, 2:00 PM EST

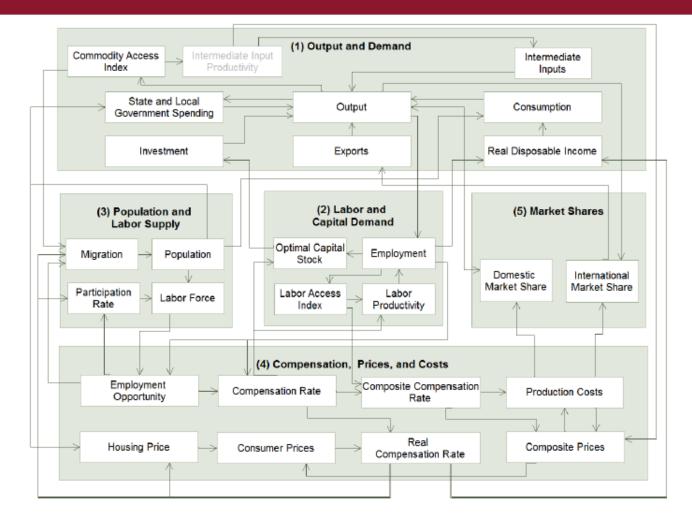
 Session 4: From Start to Finish: Completing a REMI Analysis

Feb. 7th and Feb. 9th, 2:00 PM EST

Register at www.remi.com/events-2/online-seminars

Model Structure





Minimum Wage



- Changes to the minimum wage are contentious
 - Seen by proponents as a matter of fairness
 - Critics say a higher minimum wage harms business, costs jobs
- Economists disagree on the cost-benefits
 - Basic neoclassical theory points to fewer jobs
 - Empirical studies provide mixed evidence

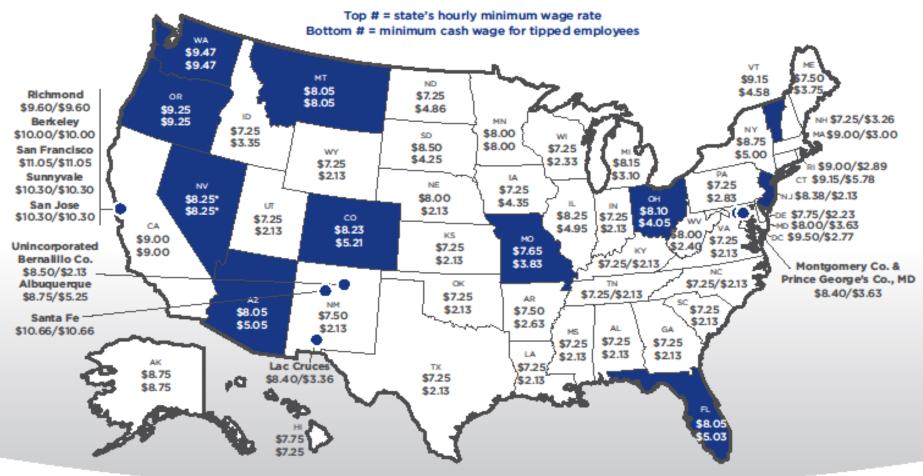
Historical Changes





U.S. Federal Minimum Wage

State and Local Minimum Wage Rates: 2015



States that index their wage rates yearly * Nevada: If a Nevada employer offers a qualified health plan, the minimum wage is \$7.25 an hour.

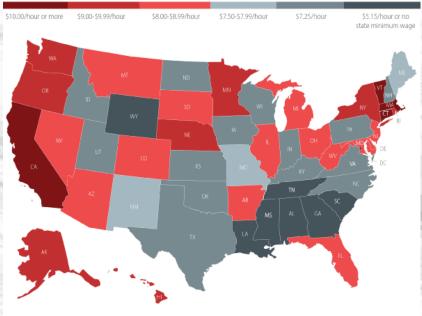


Restaurant.org/Advocacy



How High Will Your State's Minimum Wage Be on January 1, 2017?

Relative to Federal Minimum Wage (\$7.25/hour)



Highest Minimum Wages

- 1. Washington, D.C. (\$11.50/hour)
- 2. Massachusetts (\$11.00/hour)
- 3. California (\$10.50/hour)
- 4. Connecticut (\$10.10/hour)
- 5. Vermont (\$10.00/hour)

Lowest Minimum Wages

Wyoming and Georgia have a state minimum wage of \$5.15/hour, and five states— Alabama, Louisiana, Mississippi, South Carolina and Tennessee—have no state minimum wage. Employees covered under the Falr Labor Standards Act are guaranteed at least the federal minimum wage, while those not covered may be paid a lower rate. 14 states follow the federal minimum wage of \$7.25/hour.



Infrastructure



U.S. has long-term need for infrastructure investments

- American Society for Civil Engineers: U.S. should spend <u>\$3.6 trillion</u> by 2020 on critical infrastructure
- Target investments can provide both a short-term and long-term boost to the economy
 - Short-term: direct and indirect inducement for job creation
 - Improved highways, electrical grids, and air transportation networks increase efficiency, leading to productivity gains
- Prioritizing infrastructure projects
 - Dynamic economic modeling can capture both the direct effects but also potential productivity gains

Investing in Productivity



More technologically advanced systems can increase efficiency and boost economy

- Next Generation Air Transportation System (NextGen)
 - Modernize air traffic control by utilizing satellite-based communication
 - Potentially reduce delays
- Soo Locks reconfiguration
 - Long-stalled \$580 million project could help shipping
 - Aging infrastructure risks flow of goods

Transportation Studies Using REMI



- U.S. Department of Homeland Security, The Perils of Efficiency: An Analysis of an Unexpected Closure of Poe Lock and Its Impact, 2015. Assesses potential impact of unexpected 6-month closure of Poe Lock at the Soo Locks connecting Lakes Huron and Superior.
- Southern California Association of Governments, 2012–2035 Regional Transportation Plan/Sustainable Communities Strategy, 2012. Planning long term for increasing mobility of residents and visitors in region while reducing emissions
- Economics Research Associates, Economic and Fiscal Impacts of the Port of San Diego, prepared for San Diego Unified Port District, 2007. Analyzed the Port's economic and fiscal impact to the region using REMI model to estimate indirect and induced impacts.
- Minnesota Department of Employment and Economic Development & Minnesota Department of Transportation, Economic Impacts of the I-35W Bridge Collapse, 2009. Evaluated impact of detours following the I-35W Mississippi River bridge collapse; showed an \$113,000 reduction in the state's economic output.

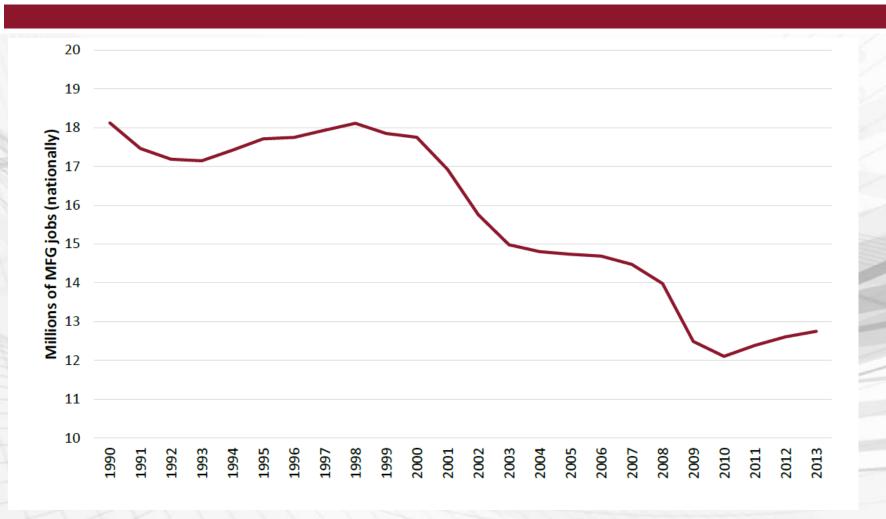


Trade



- Fueled by concern over income inequality, criticism of international free trade agreements has become louder
 - Trade opens up markets for U.S. businesses, and provides consumers with less expensive goods
 - However, trade creates winners and losers, producing negative impacts for some regions
- Evaluating the effects in different regions
 - Dynamic modeling on the county and state levels detect differing effects from international competition







Energy/Environmental Policy



- Carbon taxes impose a price on emissions
 - A market-based alternative to regulations
 - Encourage businesses and consumers to use less fossil fuels
- Revenue-neutral carbon taxes shift spending
 - Ease burden of higher energy costs through offsetting tax cuts or rebates
 - Can stimulate growth through tax cuts
 - Higher energy costs still affect certain industries and regions

State Carbon Studies



Massachusetts

- Simulated the effects of three rates, each per metric ton of CO₂ \$15, \$30, and \$45 with reductions in corporate, income, and sales taxes
- By 2035, MA would gain 2,000 and 11,000 jobs and between \$2 billion and \$10 billion in output compared to baseline
- Washington
 - Simulated effects of phasing in three possible rates, each per metric ton of CO₂
 \$30, \$50, and \$100 offset by tax cuts
 - By 2035, state could add between 5,000 and 40,000 jobs and \$250 million to \$2.75 billion in output compared to baseline

Vermont

- Simulated the effects of three rates, each per metric ton of CO₂ \$50, \$100, and \$150
- By 2030s, VT would have an additional 1,000 to 3,000 jobs and increased economic output between 0.25% and 0.5% above baseline

