

UNDERSTANDING “WHAT IF?” POLICY QUESTIONS WITH PI⁺

Agenda



- Introduction
- Overview of PI+
- Model Structure
- Major Economic Data Sources
- Model Demonstration
- Q & A

About REMI



Regional Economic Models, Inc. (REMI) is a World Leader in Economic Policy Modeling

Software

- REMI PI+ is the **state of the art** for policy analysis.
- Other Customized Models
 - **TranSight**
 - **Tax-PI**
 - **E3+**

Support

- REMI licenses include **unlimited** telephone and email technical support.
- REMI users have access to vast resources to enhance their understanding and skill in the model.

Services

- Macroeconomic impact consulting
- Analysis of prominent state and federal legislation
- Led by REMI's team of highly experienced and qualified research economists

About REMI



Answers to “what-if...?” questions about the economic and demographic effects of events and policies

□ Economic Results:

- Employment by Industry and/or by Occupation
- Output by Industry
- Gross Regional or State Product
- Personal Income
- Total wages, compensation, earnings

□ Demographic Results:

- Population, by 808 age-ethnicity-gender cohorts
- Migration, by 808 age-ethnicity-gender cohorts

About REMI



REMI's 40-year history of rigorous academic research and software development has led to the development of the state of the art model 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



what does **REMI** say? sm



Sandia National Laboratories



Prior Policy Analyses



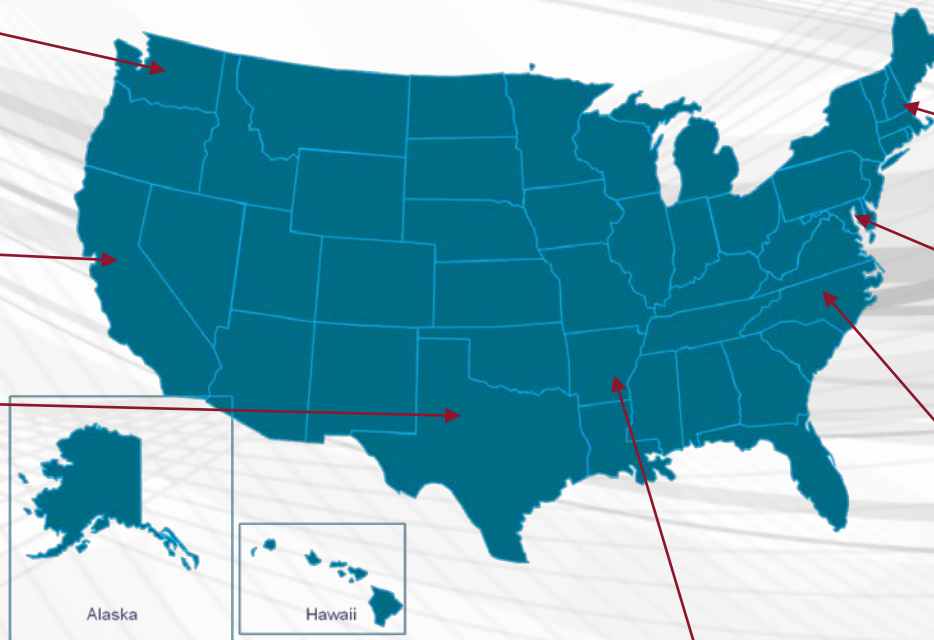
REMI's PI+ is a versatile tool for public policy and economic development projects across topic areas and regions.

Washington:

Aerospace tax credit analysis

California: Impact of CalRecycle program

Texas: Statutory impact analysis requirement for appropriations legislation



New England:

Regional Greenhouse Gas Initiative

Maryland:

Corporate tax rate reduction analysis

North Carolina:

Medicaid expansion analysis

Arkansas: Big River Steel manufacturing facility analysis

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Topics/Studies



1. Economic Development, Planning, and Forecasting
2. Tax and Fiscal
3. Energy, Environment, and Economy
4. Transportation

What is PI+?



- PI+ is a structural economic forecasting and policy analysis model.
- It integrates input-output, computable general equilibrium, econometric, and economic geography methodologies.

What is PI+?



- The model consists of thousands of simultaneous equations with a structure that is relatively straightforward.

- The overall structure of the model can be summarized in five major blocks:
 - (1) Output and Demand
 - (2) Labor and Capital Demand
 - (3) Population and Labor Supply
 - (4) Compensation, Prices, and Costs
 - (5) Market Shares.

What is PI+?



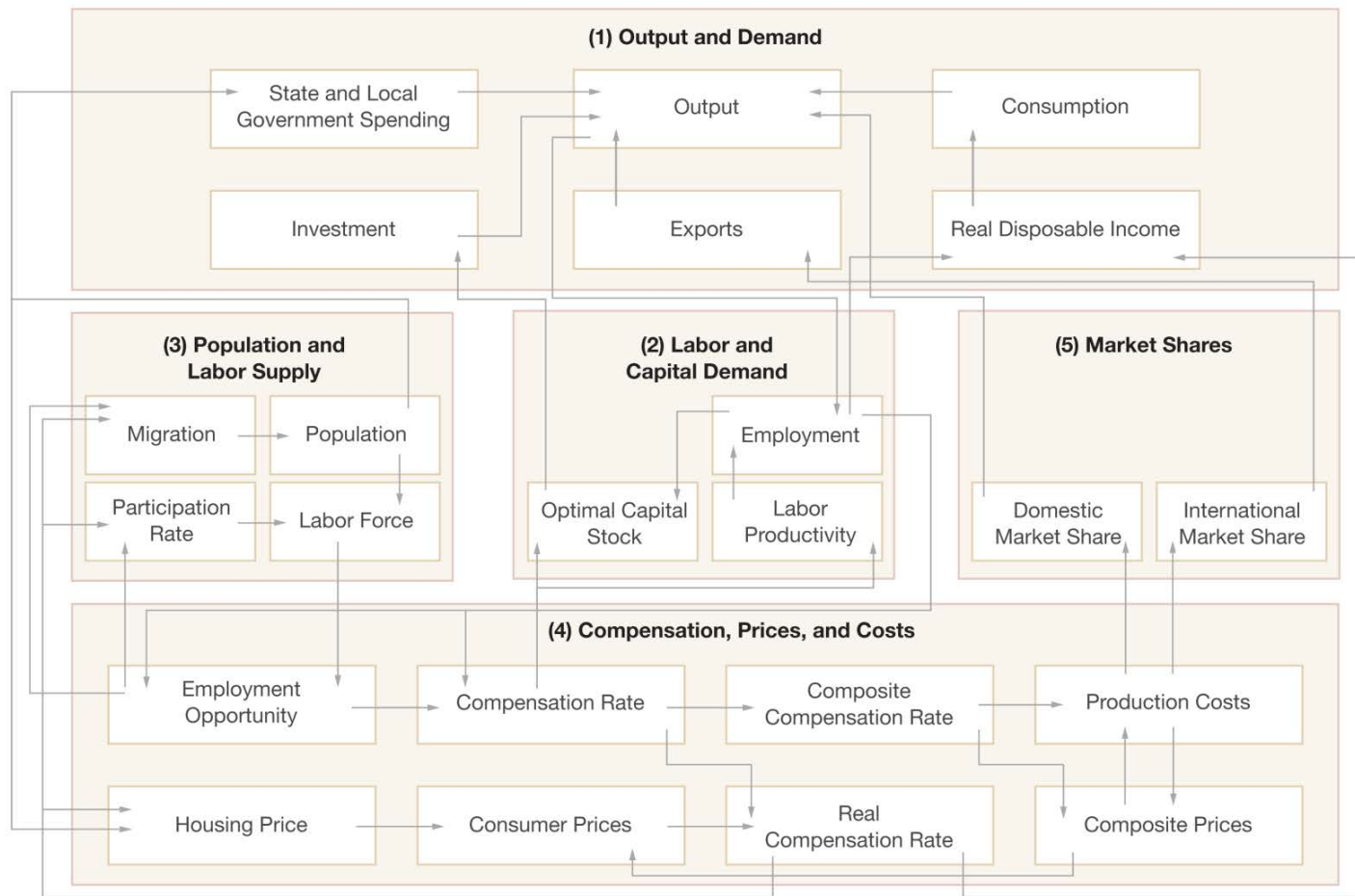
- PI+ allows users to understand the relationship between a policy and its economic foundation.
- Model users can answer “what if” questions about the economic effects of policies in areas such as economic development, energy, transportation, environment, and taxation.

What is PI+?



- Models can be built as single region, multi-region, or multi-region national models.
- Single-region models
- Multi-regional models

Model Linkages



what does **REMI** say? sm

Model Linkages



- Block 1: Output and Demand
- Block 2: Labor and Capital Demand
- Block 3: Population and Labor Supply
- Block 4: Compensation, Prices, and Costs
- Block 5: Market Shares

Major Economic Data Sources

- Employment
- Compensation
- Wages
- Personal Income and Earnings

Major Economic Data Sources

- Final Demand
- GDP by Industry
- Price Deflators

Major Demographic Data Sources

- Population
- Labor Force
- Natality Rates
- Birth Rates

Model Demonstration



- Impact Study 1: an increase in employment.
- Impact Study 2: state budget cuts in higher education.

Q & A



Thank you so much!