

REMI TaxPI Model Training: How Rising Housing Prices Impact State Economies

Regional Economic Models, Inc.

what does REMI say? sm



Introduction

Overview of REMI

Economic Impacts of Rising Housing Prices

Overview of TaxPI and SEI

TaxPI Model Demonstration

Q&A



REMI's 39-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 interindustry relationships General Equilibrium Estimate of long-run stability of the economy allows for analysis of policy decisions

Econometrics Advanced statistical analyses underpinning the model Economic Geography Effects of geographic concentration of labor and industry Integrated REMI economic modelling approach



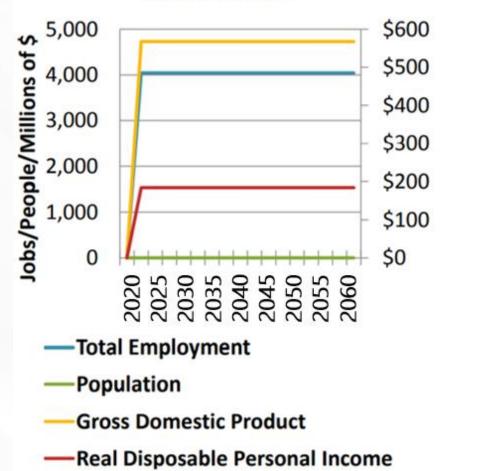
- A county (or equivalent statistical unit) or...
- A collection of counties
 - e.g. an MSA or a state
 - Can cross state borders
- Multiple regions
- Customized by needs



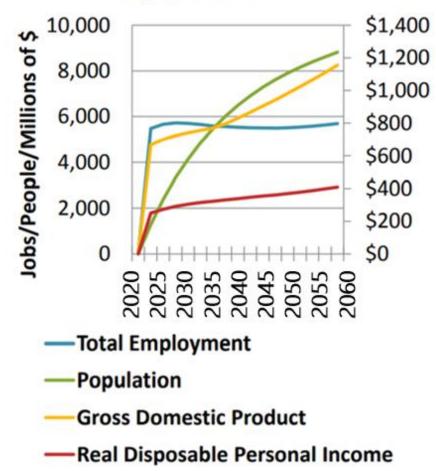
Map of Oregon Counties Source: GIS Geography

How Dynamic vs. Static





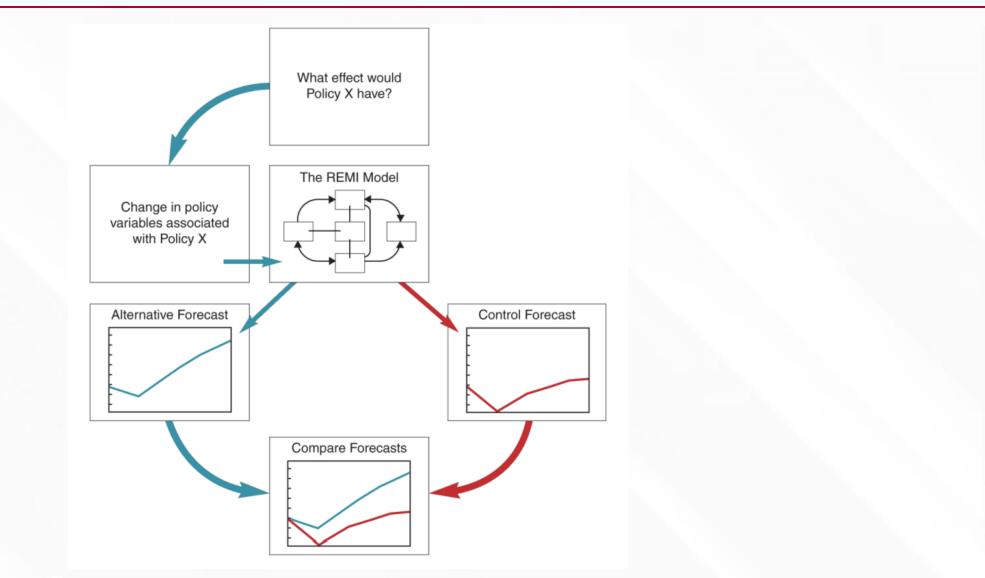
Static Model



Dynamic Model

How does a REMI model work?







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Economic impacts of Housing Price Increases



Employment

Job creation increases housing prices. Housing construction provides widespread employment for various income groups.

Direct Investment

Low interest rates encourage residential investments by investors and traditional homeowners to enter the housing market.

Housing inputs increased substantially, example: lumber up to 114% and iron/ steel up to 73%.

Economic Growth

The housing market plays a significant role in the U.S. economy. Rising housing prices promote a robust economy, which is seen in GDP, output, and employment.





Housing Underproduction	Affordability	Oregon's Economy
 Lack of sustained supply response by 111,000 units in the past 20 years 	 The pandemic boosted homeownership demand and disrupted supply chains. 	 Longest economic expansions in modern history Oregon's amenities are attractive to new residents and high-paying jobs
 Supply and demand imbalances due to financing for land acquisition, development, and construction 	 Rapid appreciate in annual rent and home prices Homeownership unattainable for lower to middle class residents 	
		 One of the fastest growing states in the U.S.



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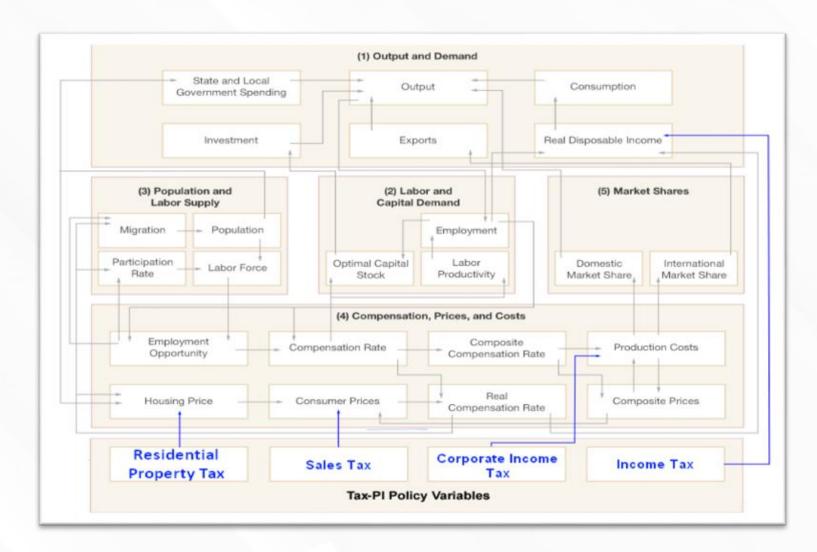
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What is TaxPI?





Tax-PI

REMI Tax-PI is the only commercially available dynamic macroeconomic and fiscal impact analysis tool.

Tax-PI allows users to understand the deep linkages and relationship between a budget and its economic foundation







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- Impact Study
 - State: Oregon
 - Policy Variable: Consumer Spending
 - **Detail**: % Increase from 2020 2022
 - Data Source: Zillow Home Values
- Analytical Tools
 - TaxPI Model
 - Socioeconomic Indicators (SEI) Module



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Thank you for attending!

For more information, please contact us info@remi.com