what does REMI say?
At REMI, we are inspired by a single goal; to inform and improve the quality of public policy decisions. That's why we are dedicated to understanding how government actions and other changes affect the world around us. Our belief is that improved knowledge and information will lead to better decisions. We work to develop and support the use of economic models that inform government and corporate decisions.

REMI was founded in 1980 on the transformative idea that government decision makers should test the economic effects of their policies before they are implemented. Our commitment to a better understanding of the economy drives our unceasing process of innovation in economic theory and practice, software development and application, and the use of quantitative economic analysis to guide policy decisions.

We are proud of the pioneering work of our clients have done and their ongoing contributions to informing and guiding the policy-making process. In environmental agencies, economists use REMI models to develop policies that maintain economic growth while improving air quality. With REMI's TranSight®, analysts have demonstrated the economic viability of numerous highway, port, and rail projects. When states reform their tax systems, they turn to REMI to understand how business activity can be encouraged while continuing to fund public services. Economic development organizations use REMI models to guide job creation and prioritize the allocation of tax incentives.

Our dedication as an organization maintains our position as the provider of the world's leading regional policy analysis models. We invite you to find out more about our products and services. Please join us in a common goal of improving policy decisions.

Frederick Treyz, Ph.D.
President and CEO
1977–1984 Origins and Getting Started

In the 1970’s, Dr. George Treyz, the founder of Regional Economic Models, Inc. (REMI), works with the Nobel Prize-winner Laurence Klein, and other pioneers in the field of econometric modeling. Treyz, along with Ann Friedlander and Benjamin Stevens, develops the Massachusetts Economic Policy Analysis (MEPA) model, one of the first regional macroeconomic models. The Treyz, Friedlander, Stevens methodology is expanded and generalized under a National Cooperative Highway Research Program grant, becoming the basis for REMI’s future models.

REMI is founded in 1980 for the purpose of developing regional forecasting and policy analysis models to inform and improve the quality of public policy decisions. The Port Authority of New York and New Jersey, the University of Colorado, and the State of Minnesota are among the first clients.

1985–1993 Working Out the Details

A series of major economic research projects expand the core REMI model into a more comprehensive representation of the regional economy. REMI publishes seminal papers on its model in the *American Economic Review*, the *Review of Economics and Statistics*, and the *Journal of Regional Science*. Regional Economics Models, Inc. experiences a major expansion of its client base and the REMI model becomes the *de facto* standard for economic policy analysis modeling.
1994–1999 Policy Insight®
and New Developments

Frederick Treyz joins REMI after studying under international leaders in regional economics and modeling at Princeton University and the University of Pennsylvania. In 1994, REMI develops the first multi-regional United States model consisting of the fifty states and District of Columbia. New data suppression procedures, consumption equations, and participation rate equations are implemented during this time. In 1997, REMI releases Policy Insight, advancing regional modeling with an intuitive graphical user interface.

2000–present
Geographical Expansion

Wei Fan, Frederick Treyz and George Treyz publish “An Evolutionary New Economic Geography Model” in the Journal of Regional Science. This theory is implemented in the REMI model, the first use of New Economic Geography theory in a regional policy analysis model. REMI begins to develop models internationally. Early models are built for British Columbia, Tuscany, and the Netherlands. REMI introduces TranSight®, the first widely available model that integrates travel demand models with a regional macroeconomic model.
When regions, states, and cities want to foster economic development, they turn to REMI for answers. Our products help to answer such questions as: Which projects warrant tax incentives? How can key clusters be encouraged? What can we expect by attracting a new firm?

REMI’s BizDev® application allows users to develop sophisticated economic development scenarios that reflect the specific nature of an industry or projects, while facilitating adjustments to employee compensation, firm productivity, and the composition of the supply chain.
**Environment**

Environmental policies are designed for purposes such as reducing emissions, controlling water pollution, and limiting greenhouse gasses. Although the primary purpose of these regulations is generally non-economic, they often have a significant influence on economic activity. Keeping that in mind, government agencies and private businesses use REMI models to understand the economic impact of environmental policies, and to design rules that improve the environment while maintaining a healthy economy.

**Energy**

Energy powers our economy. Electricity keeps our machines humming; gas and oil drive our vehicles and fly our airplanes; and many sources of BTU’s heat and cool our homes, schools, offices, and factories.

Energy-generating industries are an important input to other industries as well as a sector in their own right. Energy analyses therefore often focus on the total economic impact of changing electric rates, introducing new power sources, and investing in the production of energy.
Transportation

Location is as critical in economics as in Real Estate. Vast differences in economic activity can occur from one place to another, whether it’s five thousand miles away or the next block over.

Transportation connects locations, allowing movement of people and shipments of freight. Since transportation and commuter costs are distinct types of cost, they require a methodology specifically designed for this purpose.

REMI’s models have been used for over 25 years to evaluate the economic implications of transportation projects. Transportation analysts use TranSight to evaluate state transportation plans, new and expanded highway corridors, toll roads, airports, seaports, rail, freight and multi-modal developments.

Taxation, Forecasting, and Planning

Analysts use REMI’s models to evaluate the effect of any policy change or event to the economy, including Immigration, Homeland Security, Base Realignment, and Casino Development, among others.

Tax analysts value the dynamic behavioral responses built into the REMI model. Incorporating variables representing the entire range of potential taxes, REMI models demonstrate how firms, individuals, and the economy at large respond to changes in taxes.

Forecasters and planners use the economic forecasts to predict economic and demographic changes far into the future. Users develop alternative forecasts within the models, providing different potential projections for the regional economy.
The REMI model is a dynamic forecasting and policy analysis tool that can be variously referred to as an econometric model, an input-output model, or even a computable general equilibrium model. In fact, REMI integrates several modeling approaches, incorporating the strengths of each methodology while overcoming its limitations. The result is a comprehensive model that answers “what if…?” questions about your economy.

**Overview of the REMI Model Methodology**

<table>
<thead>
<tr>
<th>Detailed industry sectors</th>
<th>REMI models contain detailed industries. At its core, the REMI model incorporates the complete inter-industry relationships found in input-output models.</th>
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</thead>
<tbody>
<tr>
<td>Dynamic Responses</td>
<td>REMI models are dynamic; they demonstrate economic changes over time, allowing firms and individuals to change their behavior in response to changing economic conditions. These responses are based in part on general equilibrium economic theory.</td>
</tr>
<tr>
<td>Econometrics</td>
<td>REMI models are sometimes referred to as “econometric models,” due to the underlying equations and response estimations using advanced statistical techniques.</td>
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<tr>
<td>Industry Clusters and Agglomeration Economies</td>
<td>The spatial dimension of the economy is represented by the underlying “New Economic Geography” structure of the REMI model. This incorporates the productivity and competitiveness benefits due to the concentration, or agglomeration, of economic activity in cities and metropolitan areas, and to the clustering of industries.</td>
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How the REMI Model is Used to Answer a Policy Question

A model run accomplishes two things: it forecasts the future of a regional economy, and it predicts the effects on that same economy when the user implements a change. The first forecast is called a control forecast. The second, which incorporates the policy changes, is called the alternative forecast or the simulation. The difference between the two represents the effect of the policy as illustrated below.
How Policy Variables Enter the REMI Model

After formulating a policy question—for example, “What would be the effects of decreasing electric rates for businesses by 50 percent?”—the user enters the policy change by adjusting any one of the thousands of policy variables in the model. Each policy variable category may be implemented at various levels of detail.

Policy variables can be changed to represent almost any direct change that may occur due to an external event or policy change. In economic studies, the user might typically change a number of variables. Policy variables range from changes in immigration to changes in housing prices.
Designed to inspire your passion for policy, PI+ is the next generation of the Policy Insight® model.

The design is simple and elegant, giving the user absolute control over the most comprehensive computerized representation of the economy.

Our team of software engineers is single-mindedly focused on quality. Every aspect of PI+ is created for the purpose of improving economic analysis. By incorporating sophisticated modeling capabilities into a streamlined system, PI+ allows you to fully concentrate your attention on evaluating key economic considerations.

The model provides you with serious number-crunching capabilities. Users can simulate the effects of any aspects of the economy, calculating changes to thousands of output variables in seconds.

The elegance of the economics and the intelligence of the design enables a prediction of the effects of policy changes...before they happen.
Analysts need high performance in the virtual world of simulation modeling to spur on high performance in your highway network.

TranSight is the dynamic economic engine in best practices transportation modeling systems.

Integrating economics with travel demand modeling, TranSight dynamically demonstrates how transportation makes economies competitive. With TranSight, users test alternative transportation changes and are able to observe the short, and long-term impact on jobs, income, population, and other economic variables.

TranSight drives home a single message: transportation is the locomotive of economic growth. By showing the effects of transportation improvement on jobs and economic development, TranSight gives you a voice in setting legislative priorities.

TranSight is a highly complex modeling tool that integrates travel demand models with the REMI model, and is constructed with extensive data on emissions, safety valuation factors, and other data.

TranSight is grounded in the “New Economic Geography” theory as put forth by Fan, Treyz, and Treyz (Journal of Regional Science, Vol. 40, No. 4). The proprietary REMI transportation cost matrix translates changes in vehicle miles travelled to changes in labor access, intermediate input access, and delivered prices. These factors change economic competitiveness and drive economic growth.
Consulting Areas

The REMI name is recognized for quality, accuracy, and integrity. When you need economic impact studies of the highest caliber, turn to REMI’s Consulting Services. Answering “what if…?” questions about regional policy changes is our core competency. With over a quarter century of responding to thousands of policy scenario questions, REMI is uniquely qualified to support clients undertaking studies or to undertake complete economic impact studies.

Energy and Utilities
Since the utility and broader energy sector are highly regulated, accurate economic analysis is vital in informing public policy. Utility and other regulators trust the credibility of REMI studies, and private companies know that REMI provides the answers they need.

REMI projects range from studies on the effects of rate changes to economic development impacts of utilities and energy-related industries.

Economic Development
REMI is known for the integrity of its analysis. As policy makers and the public are often skeptical about economic impact claims, you need credible analysis to demonstrate the effects of your project. State and local stakeholders need to understand how a new development may add to income, output, and employment in their economy.

REMI has conducted numerous economic development analyses for public and private clients. Studies include impacts of military base realignments and closures, the bio-diesel industry in New York, life sciences plants in California, a major mixed-use entertainment and housing project in Pennsylvania, and others.

Transportation
The public expects that the tax dollars spent on transportation projects leads to more jobs, better jobs, and improved industry competitiveness. Transportation agencies turn to REMI for its proven expertise in developing accurate, rigorous studies showing the economic development impacts of transportation. REMI studies range from toll roads to major highway improvements, from airport impacts to transit-oriented development.

Environment
Efforts to protect the environment may have wide-reaching economic consequences. REMI is known for expertise in demonstrating the total macroeconomic effects of environmental policies. Studies include analysis of feebates, renewable portfolio standards, and cap-and-trade policies.

Taxation
Tax changes may have a significant effect on economic activity. REMI is recognized for unbiased analysis of the economic implications of tax changes. Studies include work for both the private and public sectors, in evaluating single tax changes or an overall tax reform package.
Clients

Universities
Universities value REMI models for their academic rigor and capability to perform analysis to cover a wide range of issues of concern to regional economies. Our models are widely used by public and private institutions, including major research universities, state colleges, and locally focused schools to conduct studies on the schools behalf, as well as on the behalf of others.

Consulting Firms
Consulting firms depend on REMI to deliver models that represent the highest standard of performance and quality. With the additional assistance of our unlimited client technical support, consultants can ensure that projects are completed in a timely fashion, incorporating the best understanding of how the economy works.

Federal Government
Federal agencies require the best tools to understand the implications of wide-ranging homeland security, environmental, energy, and other policies. In particular, the REMI multi-regional U.S. models, which encompass all states summing to the U.S. total, demonstrates policy effects on both the state and national economy.

State Government
State agencies lead in the implementation of policies that have a sub-national focus. As such, states rely on REMI for its widely-recognized reputation and accurate, unbiased representation of the economy. States use REMI models for all application areas, including economic development, transportation, taxation, planning, energy and the environment. In many cases, a number of agencies in a single state government use the same REMI model as a common platform for economic policy analysis.

Regional Government
Regional governments and organizations include regional planning commissions, metropolitan planning organizations, air quality management districts, water districts, and other entities. They use REMI models for purposes relating to their mission, including long-range planning, transportation analysis, environmental quality, and other issues.

City Government
City Governments use REMI’s models to focus on bringing in emerging industries into a specified region. Policy Insight is a highly recognized name among city agencies that use the model to study infrastructure improvement and building, economic development, energy efficiency, taxation, and public policy. TranSight is used to forecast data on transportation concerns such as fuel efficiency, safety, and fuel demand, and can forecast transportation costs for future years.
Key Articles


Service Options

Depending upon your individual needs, users may purchase or rent a model to be customized for specific regions. If you prefer, REMI's consultants can carry out policy studies for you.

Temporary license (rental)
Unlimited model use for a specific time period.

Perpetual license (purchase)
Unlimited model use in perpetuity. Programs and complete documentation are provided for operating the model on your own Windows-based computer.

Maintenance
Ongoing development, updating, support, and shared research are available to those who purchase models. This includes unlimited model support as well as model improvements and updates.

Conferences and Seminars
REMI offers an annual Users' Conference and periodic On-Site Seminars and On-line Seminars for all on the theoretical and applied aspects of PI+ and TranSights' unique regional modeling approach.

Consulting
Economic analysis, reports, and expert testimony.

Contact us
We invite you to evaluate our research and models. For further information about REMI models and services, please contact our office or visit our web-site at www.remi.com. We are able to send you a bibliography of our publications with complete citations, model documentation, or any other information that you may need.