

The Business of Regional Dynamics, Inc.
Economic Modeling Redefined

Regional Dynamics is an economic modeling company. We offer the REDYN advanced economic model by web subscription or batch services to consultants, agencies, firms, planners, and analysts (users). REDYN runs on the Internet. Subscriptions include advice to apply and interpret the model. Our model estimates the multi-regional impacts and year-by-year (dynamic) nonlinear effects on industries, consumers, and governments from changes in company sales, jobs, wages, or investments; changes in taxes or personal or government spending; or public policy changes such as energy, environment, school, health, or security measures. The results are called simulation forecasts, or simulations.

Our model is a fundamental re-envisioning of economic theory applied to estimating multi-regional, dynamic effects. It reflects advances in New Economic Geography, especially gravity theory (regional attraction) and trade flow (regional imports/exports), based on a new distance impedance database from Oak Ridge National Laboratories that enables calculating trade flow by commodity by road, rail, water, air, and proxy transport. The breakthrough in design is the commodity production linkage between the trade flow process and an entity-based data structure for the economy. Entities include industries, workers, governments, investors, etc., and commodities are the goods they use and make.

The upshot—users can build and run multiple online custom models on the fly for solid project analysis. These features make REDYN more flexible, complete, and accessible than any other modeling process—in a nutshell: *No sticker shock; better solutions.*

Because our model runs on the Internet for all 3,100+ US counties, it meets the need for multi-regional tools usable by state, regional, Federal, and consulting organizations who share policy or forecasting interests or economic impact interests in the same geographic areas. The model's fresh, efficient design and its Internet accessibility make it ideal for supporting long-term collaborative efforts as well as for doing individual studies.

The model also is ideal for studying effects of sequential regional inputs, or generating a schedule of responses from a large set of alternative inputs, across a very large number of counties. Repetitive changes across many regions may be better handled as an offline batch job following an analytic script rather than as an Internet project. However, the batch approach has an engagement element as follows: After a user calls us, we accept and review the user's study information, set up and run the script, then produce and deliver agreed brief script reports in hard copy or electronic format from the simulation results. Alternatively, users can subscribe online to their simulation results so they can create their own simulation-based script reports at will for open-ended multiple studies.

We offer model subscriptions to consultants, but we're not in the consulting business. We're happy to initiate or partner with consultants if an agency, company, or other group issues a request for proposals (RFP) to do a study involving economic modeling and consulting. However, we'd prefer that the consultants do the modeling and produce the study defined in the RFP, and mention our name and modeling process in the study.