



Michael Reilly, Ph.D.

Technical Manager

Dr. Michael Reilly joined ECONorthwest as a Technical Manager in 2023. He works with a range of public and private sector clients to analyze and model urban economic conditions and policy impacts. Mike's projects cover economic and demographic forecasting, regional and urban modeling, transportation and land use planning, economic impact and benefit-cost analyses, and sustainable cities.

Previously, Mike led the Urban & Regional Analytics team at the Metropolitan Transportation Commission. He built the agency's microeconomic forecasting tools and applied them to regional plans, GHG reduction strategies, and transportation project evaluation. Mike has also led research projects in urban sustainability and taught spatial analysis and urban economics at Stanford University.

EDUCATION

Earth Institute Fellow
Columbia University

Ph.D. City and Regional Planning
University of California Berkeley

M.C.P. City and Regional Planning
University of California Berkeley

A.B. Anthropology
University of California Berkeley

CERTIFICATION

Graduate Certificate in
Applied Data Science, MIT

AREAS OF EXPERTISE

- Urban Economics
- Sustainable Transportation
- Land Use Modeling
- Urban Development Policy
- Regional Forecasting
- Economic Evaluation
- Land Use Planning

Southern Nevada Strong | Buildable Land Inventory | NV | Ongoing
Building and analyzing a Las Vegas regional land use database for the Regional Transportation Commission of Southern Nevada. Designing an analytical foundation for use in land use scenario development, testing housing production policies, and crafting economic development strategies.

BEAM Circular | North San Joaquin Valley Industrial Land Analysis | CA | Ongoing

Assessing the region's industrial economy and land supply. Designing an approach to evaluating potential sites for bioindustrial manufacturing. Rating ten potential sites as to their suitability for the bioindustrial manufacturing industry as well as for a potential ecoindustrial campus.

Colorado Energy Office | Forecasting Land Use Scenarios and GHG Emissions | CO | Ongoing

Forecasting statewide residential development through 2050 under three policy-driven scenarios. Estimating greenhouse gas reductions related to more efficient transportation and building operations outcomes. Evaluating TOD real estate development feasibility.

Oregon DOT | Update to the Oregon Integrated Transportation and Land Use Model | OR | Ongoing

Forecasting Oregon's economic growth and demographic change. Updating the regional economic and land use components of the state's transportation modeling system. Applying the model system to evaluate proposed projects and policies.

El Paso MPO | Transportation & Land Use Modeling | TX | Ongoing

Supporting socioeconomic and land use analysis and forecasting for integrated regional land and transportation planning. Refining El Paso's UrbanSim land use model and related outreach and documentation.

Oregon Metro | On-Call Economic Analysis | OR | Ongoing

Providing technical support and evaluation for projects in land use modeling, economic analysis and forecasting, real estate development feasibility, and housing supply and demand.

GGBHTD | On-Call Grants Management and Professional Services | CA | Ongoing

Performing on-call benefit-cost analysis in support of the Golden Gate Bridge Highway & Transportation District's grant application and capital planning process.

Oregon Metro | Transportation Planning & Modeling | OR | Ongoing

Providing socioeconomic and land use analysis and forecasting support for Metro's transportation modeling. Collecting data, performing analysis, building models, and analyzing policy outcomes by proving regional and local economic and demographic forecasts for use as inputs into Metro's agent-based travel model.

BART | Link21 Land Use Scenarios | CA | 2023

Aiding in the construction of various economic and land use scenarios for evaluating system design options for Bay Area Rapid Transit's Link21 regional rail project.

University of Tulsa | Economic Impact Analysis | OK | 2023

Modeled the regional economic and fiscal impacts of the University of Tulsa current and planned future research activities and spending.

Auckland City | TOD Value Capture | New Zealand | 2023

Providing strategic modeling advice for a transit-oriented development value capture study supporting the proposed Auckland light rail system.

REPRESENTATIVE PROJECTS PRIOR TO ECONORTHWEST**Southern California Association of Governments | Socioeconomic Projections for Demographic Characteristics at the Small Area Level | CA | Ongoing**

Reviewing and suggesting improvements for the economic and demographic forecasting models used by SCAG. Formulating improvements to the current approach's structure, methods, implementation, and data sources to improve the system's capabilities, accuracy, and usability during the regional planning process.

Metropolitan Transportation Commission | Plan Bay Area 2050 Socioeconomic Forecast | CA | 2022

Led team building land use forecast for the Bay Area's regional plan. Created and implemented growth scenarios by representing potential policies in the model during the planning process. Assessed outputs and selected scenarios to serve as the plan's baseline forecast, preferred alternative, and EIR comparison alternatives. Described and spoke on behalf of the plan during the community and political processes.

Association of Bay Area Governments | Housing Element Site Selection Tool | CA | 2022

Built analytical backend for assessing likely residential development intensity in the Association of Bay Area Government's online housing element planning support tool.

Metropolitan Transportation Commission | Development & Application of Bay Area UrbanSim | CA | 2022

Developed a custom version of the UrbanSim land use model and applied (along with transport and environmental models) to various projects at MTC. Designed and built new tools simulating natural hazard impacts, representing innovative housing policies, and linking constraints on residential development to slower regional growth and lower housing affordability.

AMPO | Socioeconomic Forecasting Working Group | DC | 2022

Founding co-leader of the Association of Metropolitan Planning Organizations' Socioeconomic Forecasting Working Group. Formalized ad hoc national MPO group and designed first year work program for the new organization.

Transportation Research Board | Integrated Transportation and Land Use Models Synthesis | DC | 2018

Served on the expert panel for the U.S. National Academies' National Cooperative Highway Research Program Synthesis 520 to assess the state-of-the-art and state-of-the-practice for urban forecasting tools that combine land use and transportation microsimulation models.