

# Review of New Zealand's National Transport Model



Image source: unsplash, Ethan Johnson

The national transport model of New Zealand – called “Monty – was developed over a three-year project. Monty uses innovative technology, including an activity-based demand model and agent-based network simulation with MATSim. In June 2024, the project was completed, and the Ministry took full ownership of the model. At this critical juncture, MOVENTES was tasked with reviewing the model. The review includes an assessment of the model's methodology, its technical performance, and of its readiness for application.

## Services Provided by MOVENTES:

- Assessment of differences between classic macroscopic transport models and agent-based models
- Analysis of the components of transport supply and network simulation, their input data, their methodology, and the goodness of fit between model results and empirical data
- Assessment of the model's readiness for practical application in transport studies, including aspects of the organizational and technical background at the Ministry
- Recommendations of development priorities

## Contracting Entity

The New Zealand  
Ministry of Transport

## Lead Contractor

ARUP New Zealand

## Project Duration

2024

## Country

New Zealand

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## Publications

[Monty Development Report](#)