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Looking Ahead Transportation Policy in a Post-COVID World & Beyond

Presented by: Ryan Saul, Economic Associate



Presentation Structure

- Brief REMI overview
- TranSight Conspectus
- Public Transportation Infrastructure
- Safe School Busing
- Vaccine Distribution



About Us

Regional Economic Models, Inc. (REMI) was founded in 1980 on a transformative idea: *government decision-makers should test the economic effects of their policies before they're implemented*. We are the nation's leader in dynamic local, state and national policy modeling.

Our clients use REMI models to perform rigorous economic analysis that critically influences local, state and national policies.

Our team of research economists and software developers are dedicated to continued model innovation.

Our success is measured by the success of our clients. We provide unlimited expert and professional technical support to our users.



What is TranSight?

TranSight is the premier software solution for comprehensive evaluations of the total economic effects of transportation policy. Decision makers depend on TranSight to demonstrate the economic contributions of transportation investments.

TranSight is also constructed with extensive data on:

 \rightarrow Income \rightarrow Employment \rightarrow Demographics \rightarrow Output



Understanding Your Needs

TranSight depicts the effects of transportation improvements on employment and economic development.

Our users rely on TranSight to validate their:

- Long-range Planning
- Project Prioritization
- Economic Impact Analysis
- Transportation Financing
- TIP and STIP Planning



Model Methodology

REMI's 35-year history of rigorous academic research and software development has led to the development of the industry standard in macroeconomic research methodology:

General Equilibrium Input-Output Econometrics Economic Geography

Integrated REMI economic modelling approach Our clients include:

- AECOM
- Michigan Department of Transportation
- Cambridge Systematics, Inc.
- Illinois Department of Transportation
- Atlanta Regional Commission (ARC)
- Southern California Association of Governments (SCAG)
- New York State Department of Transportation
- United States Army Corps of Engineers Great Lakes District
- Houston-Galveston Area Council (H-GAC)



Dynamic Analysis





Static vs. Dynamic Analysis

Static Analysis Dynamic Analysis Construction spending **Construction spending** ٠ **O&M** spending ٠ **O&M** spending **Travel time savings** • **Emissions savings** ٠ Safety improvements • **Population changes** • **Fuel expenditures** ٠ **Non-fuel VOCs** ٠ Network speed improvements ٠ Access to labor • Access to intermediate inputs ٠

FHWA: TranSight is among the "best equipped to estimate productivity impacts"*



*https://ops.fhwa.dot.gov/publications/fhwahop15034/ch5.htm

Model Structure



Inoculation Logisitics

AMERICAN RESCUE PLAN

VACCINE DISTRIBUTION

States Struggle To Get Vaccines Deployed

Logistical snags plague local officials after government sent doses, little guidance

Getting shots into the arms of the right people has become one of the biggest challenges for the U.S.'s Covid-19 vaccination effort, leaving local health officials racing to fix logistical foul-ups as the nation closes in on 400,000 deaths.



Vaccine Logistics

 Lack of supplies of vaccine causing delays in vaccination effort

Transportation networks' roles in addressing this

- Capablity to transport increased supplies

- Efficiency and reliability



Carbon Neutral Transportation

- "General Motors, the Largest U.S. Automaker, Plans to be Carbon Neutral by 2040"
- Following broader trend in the industry
- Enjoys support from the new administration
- Impact on emissions, changes in fuel consumption, EV infrastructure, etc.



Remote Work Impacts

- Uncertainty around commuting patterns, residency changes, and travel
- Working from home: temporary, permanent, or something in between?
 What does it mean for commuting?
- "Zoom boom towns"
 - Infrastructure to accommodate influx of population?



E-Commerce Logistics

E-Commerce growth accelerated during the pandemic

- Transportation logistics is key to that growth
- Increase in trucks transporting goods and services
- Increase in workers commuting to work
- What does this do to the transportation network?



Model Demonstration

1. Commuting/Residency Scenario

2. EV Adoption Scenario





Thank you for your Interest in REMI

Email Us RyanS@REMI.com SamuelZ@REMI.com **Call Us** (413) 230-0465 (413) 549-1169 Visit our Website REMI.com tinyurl.com/REMI-YT