

I-TED 2011

Session B-1:

Modeling Techniques and Economic Performance

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Overall Session Theme

- Advances in Modeling to Improve Efficiency
- Examining the Types of Models
- Issues to be Considered in Measurement and Modeling
- Missing, Unmeasured or Undiscovered Components
- Application of Models to the Real World

Three Presentations

1. Scan of Models to Measure Impacts
2. Undiscovered Components in Transport Economic Analysis
3. Economic Impacts of a West Virginia Toll Road

Questions to Consider?

- What are the Strengths and Weakness in Current Models?
- What are the Measurement Issues?
- How Can Improved Methods Help Decision-Making?
- What Can we learn from Case Studies?
- Other Questions?

Scan of Models

Dr. Karen White

- Ph.D. in Economics from the University of Houston
- Undergraduate degrees in Finance and Economics, Texas-Austin
- Economist for 15 years - FHWA Office of Transportation Policy Studies
- At FHWA, led a number of research initiatives including:
 - Measurement of the returns to the macro-economy
 - Construction employment resulting from Federal-aid investment in highways
 - Initiation of the new national highway construction cost index
 - Truck size and weight analysis
 - Analysis of mileage based user fee technologies
 - Exploratory and advanced research into the role of risk preferences in route selection and evolution of real-time ride sharing technologies
- Previously at Nathan Associates (economic impacts of monopoly pricing)

Undiscovered Components

Martin Weiss

- Attended the Universities of Wisconsin and Nevada
- Served in the US DOT for 35 years
 - Worked in a dozen different offices
 - Managed some of the larger discretionary grant programs
 - Managed the interstate designation program
 - Managed transportation economic development studies and research programs
From 1995 to 2008
- Pioneering before/after studies that led to the creation of the Delta Region Authority and were given prominence by the OECD
- TRB Committee on Transportation and Economic Development
- Co-chair of the 2006 ITED

West Virginia Toll Road

Dr. Junwook Chi

- Nick J. Rahall Appalachian Transportation Institute and Center for Business and Economic Research
- Ph.D. in Transportation & Logistics at North Dakota State University
- Dissertation was an econometric analysis of demand for air-passenger service and carrier's pricing strategies
- His research interests include strategic freight analysis, truck regulation, tolling, intermodal transportation, demand forecast, regional economic impacts, pricing behavior, and price discrimination
- Inland waterway commodity flow research projects for Army Corps
- WV DOT Studies (toll traffic/revenue, high speed rail, multi-modal transportation and King Coal Highway)