

Plans for the Future of the National Household Travel Survey

Adella Santos, FHWA NHTS Program Manager
Using NHTS Data for Transportation Decision Making:
A Workshop
June 6, 2011 Washington DC

To Survey or Not?

 "a key attribute of a democracy is an informed citizenry" Robert Groves, Director of Census Bureau

WHY? CONTINUE TO SET STANDARDS

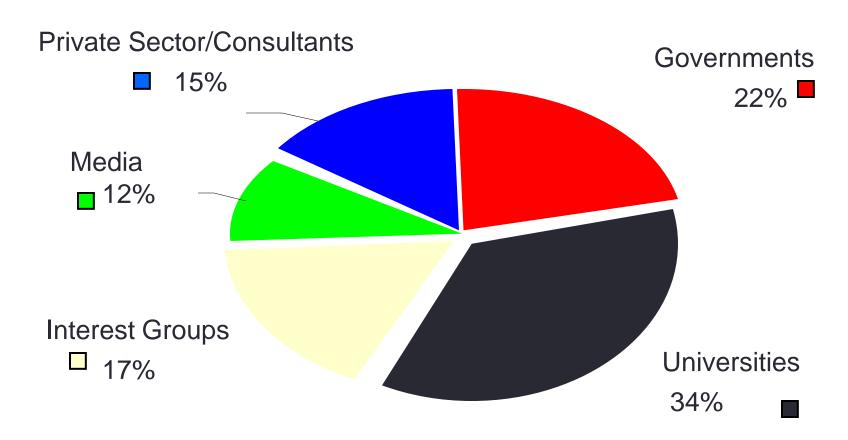
Surveys:

- Resource of Objectivity
- Produce Evidence
- Being Responsive

Program Goals

- Institutionalize the Study
- Maintain Add-On Program
- Serve the User Community
- Annualize Reports
- Disseminate the Data to a larger Audience

The NHTS Community of Users



Source: "National Household Travel Survey Data Use: An Overview " Prepared by: MacroSys Research and Technology for the Bureau of Transportation Statistics, 2005

Several Challenges

- Scientific Rigor
- Statistical Precision
- Growth of Technology
- Demographic Changes
 - Resources: COST

SCIENTIFIC RIGOR

All data are not equal

- Need rigorous scientific designs
- Data should produce statistically valid estimates
- Data should be relevant to policy makers

SCIENTIFIC RIGOR

Understand how to enhance the design with multiple collection modes

- Telephone vs. Cell phone
- Web-based
- Panels
- New technology: GPS units, Smart phone

Increase Data Quality

- Lessen Respondent Burden
 - Which survey questions are most important?
 - Which can be cut?
 - Can question wording be simplified and/or shortened?
- Testing to reduce measurement error
 - Level of Comprehension
 - Effectiveness of Instructions
 - Response categories: Hidden ones
- Increase Coverage: use multi-mode to capture entire population

Challenge: Statistical Precision

- Increase state sample sizes in national sample
- Pursue hard-to-reach populations

Technology Growth

- Explore utility and feasibility of collecting travel data with newer technologies (Smart Phone, IPads, GPS)
 - Testing needed
- Impact on travel
 - Telecommuting
 - Internet purchases and deliveries
 - Webinars replacing business trips

Challenge of Demographic Changes

- Aging population
- Hispanic growth (50.5 million)
- Rapid regional changes
 - Metro areas
 - Some losing population
 - Others gaining
 - Abutting metro areas
 - Rural

Challenge: Resources

Cost

Program size

Add-On Program (Pool Funding)

Initial Plan: Talk to Groups

- Household Travel Survey
- Survey Methods
- Statistical Sampling Experts
- National Survey Panels

Wish List Results

A design:

- ✓ Increases data quality (coverage, R burden, timeliness of data, response rates and measurement error)
- ✓ Integrates with other data
- ✓ Incorporates new technology
- ✓ Transparent
- Open to new ideas

User Community

Panel of Experts to Review

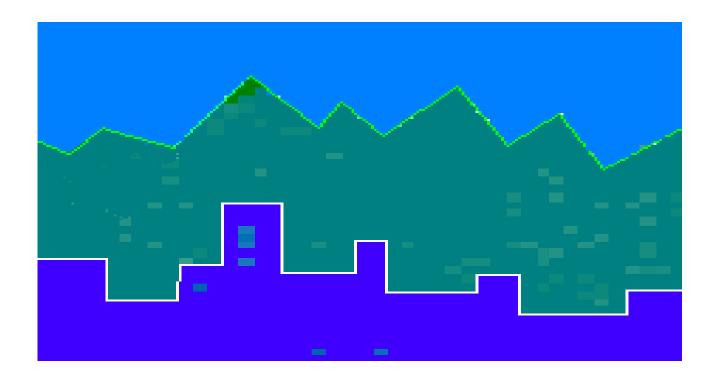
Other National studies

Increase wider audience of data users

Wish List -- Design Elements

- 2013/14 NHTS
- Larger National HH component to allow some statewide estimates
- Inclusion of cell phone population
- Consideration of Address Based Sampling (ABS)
- Experimental subsample for testing new technologies
- Outreach to federal statistical agencies to explore quid pro quo scenarios

2013-2014 NHTS



Visit: http://nhts.ornl.gov