

# NHTS Update and Data Analysis Plans

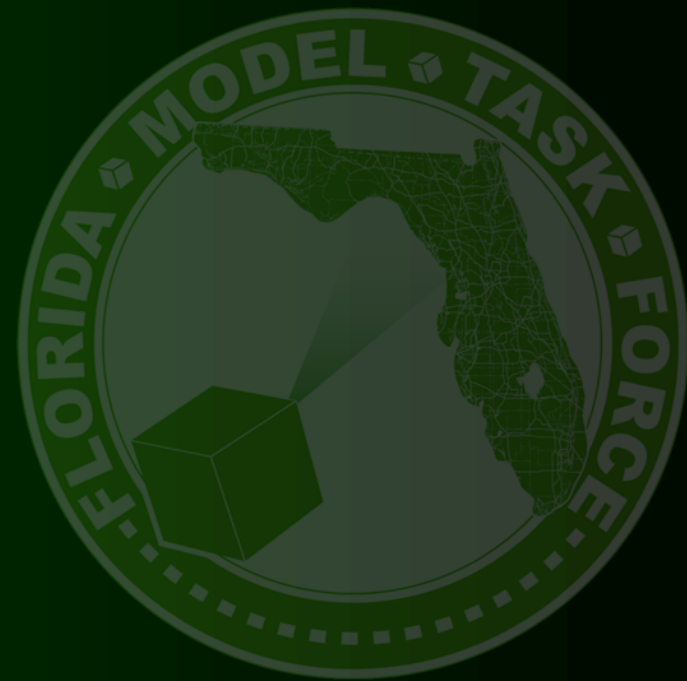
*presented to*

**Florida Model Task Force**

*presented by*

**Krishnan Viswanathan**

**November 10, 2009**





# Agenda

- Funding and NHTS background
- Sampling Plan
- Data Collection
- Final Florida Sample
- Data Deliverables
- Analysis Plans



# NHTS Update

- NHTS background
- Sampling Plan
- Data Collection
- Final Florida Sample
- Data Deliverables



# NHTS Background

- **Daily data collected includes**
  - **Purpose of the trip (work, shopping, etc.)**
  - **Means of transportation used (car, bus, subway, walk, etc.)**
  - **How long the trip took, i.e., travel time**
  - **Time of day when the trip took place**
  - **Day of week when the trip took place**
  - **Private vehicle trip details**
    - **number of people in the vehicle , i.e., vehicle occupancy;**
    - **driver characteristics (age, sex, worker status, education level, etc.); and**
    - **vehicle attributes (make, model, model year, amount of miles driven in a year).**



# NHTS Background

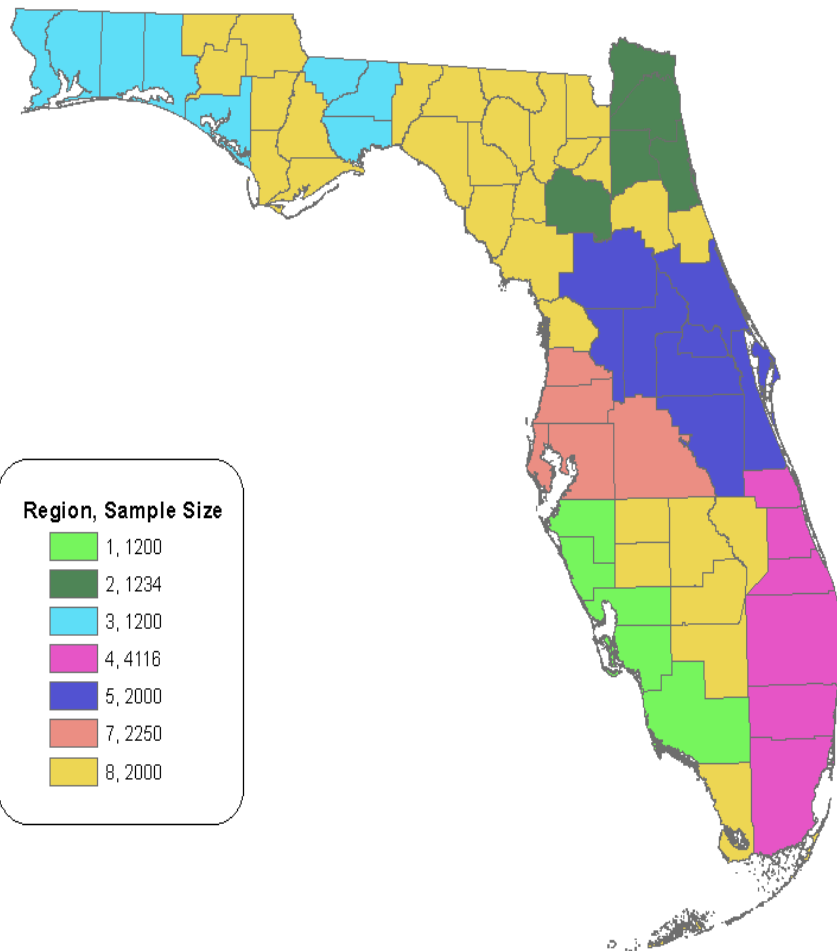
- **Data items not included**
  - **Travel costs**
  - **Information on specific routes**
  - **Longitudinal information**
  - **Reasons for specific mode**



# NHTS Background

- **Important demographic variables collected by the NHTS**
  - **Age**
  - **Education**
  - **Type of Vehicles Available**
  - **Employment Status**
  - **Occupation**
  - **Internet usage**
  - **Temporary or permanent handicap**
  - **Born in the United States**
  - **Household Income**

# Sampling Plan



Region	Sample Size
Region 1	1,200
Region 2	1,224
Region 3	1,200
Region 4	4,116
Region 5	2,000
Region 7	2,250
Region 8	2,000



## Data Collection

- Data Collection from April 2008 to May 2009
- List assisted Random Digit Dialing (RDD) sample
- Computer aided telephone interviews (CATI)
- Data collection consists of :
  - Advance letter with \$5 incentive
  - Household recruitment
  - Mail out diary packets
  - Reminder calls
  - Person level retrieval

# Data Collection

- **Collected interviews from HH people ages 5 & older within 7 days of Travel Date**
- **Collected Proxy interviews**
  - 5 – 13 year olds (always)
  - 14 – 15 year olds (unless parent requests in-person)
  - 16+ years old (only after day 3)
- **Recruit—10 minutes/Retrieval – 18 minutes per interview**
- **A complete HH interview required 50% of all adult household members**

# Data Coverage

- Weighted to represent one calendar year for annual estimates
- Every sampled HH was assigned a travel day

The screenshot shows a browser window displaying the NHTS website. The address bar contains the URL <http://nhts.ornl.gov>, which is also highlighted in a red box on the page content. The website header includes the NHTS logo and the Federal Highway Administration logo. The main content area features a navigation menu, a 'About the NHTS' section, and a '2008 Survey' section. The '2008 Survey' section lists key details: 155,000 US households will participate, the survey was conducted from April 2008 through May 2009, and the public use dataset will be released in January 2010. A sidebar on the right contains an 'NHTS Brief' with a photo of a man looking at a document and a caption: 'Household travel accounts for three-quarters of the CO2 emissions from 'on-road' sources. The 'Carbon Footprint' of Daily Travel, March, 2009 [PDF]'. The footer includes a 'Tools' section with links to reports, users, analysis tools, support, data profiles, and transferability.

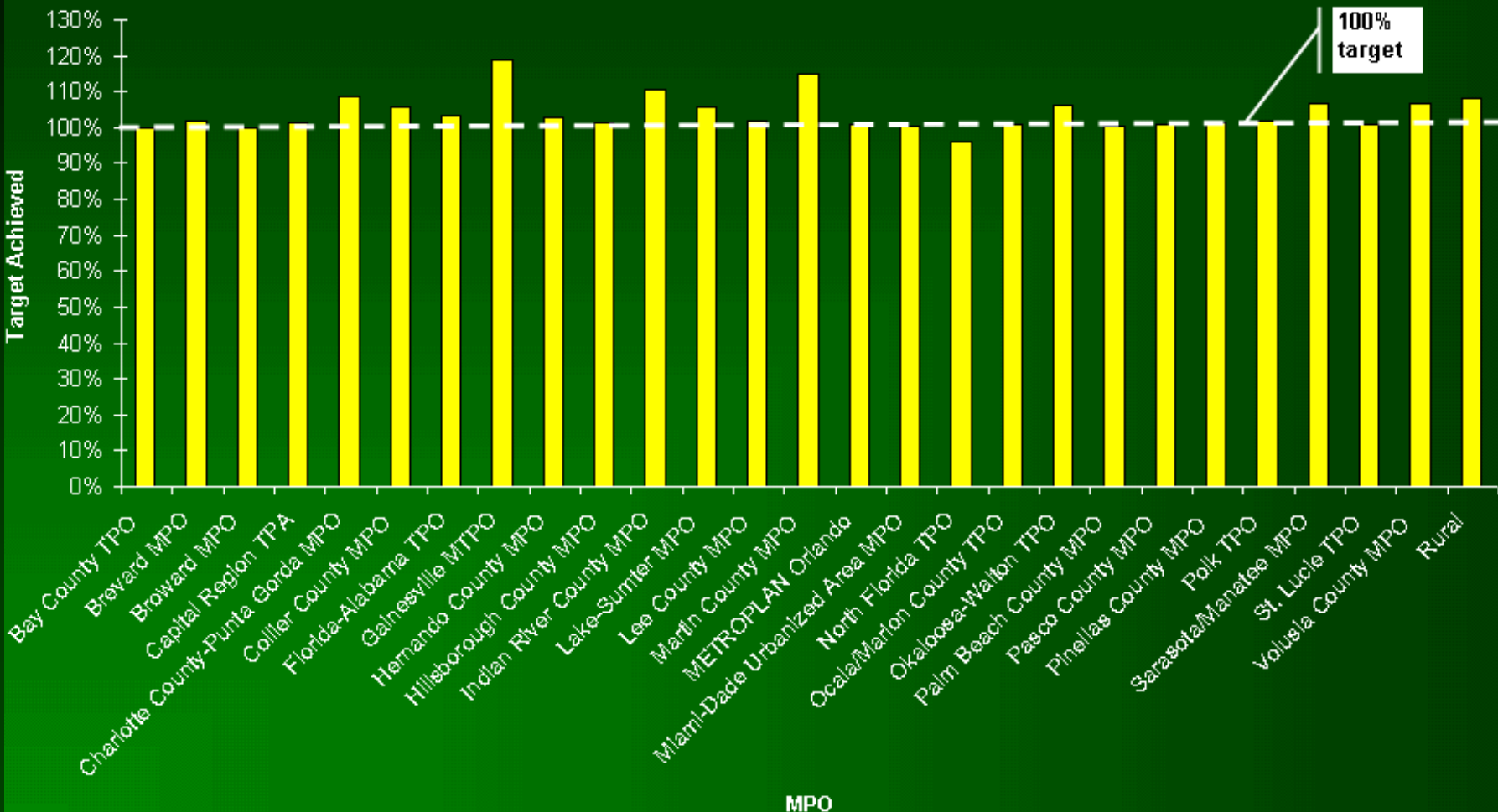


# Final Florida Sample

Region	Number of Households	Sample Size		
		Target	Completed	Percent Complete
1	545,158	1,200	1,261	105.1%
2	613,890	1,234	1,223	99.1%
3	424,149	1,200	1,234	102.8%
4	2,150,666	4,116	4,154	100.9%
5	1,040,095	2,000	2,053	102.7%
7	1,196,954	2,250	2,280	101.3%
8	370,209	2,000	2,160	108.0%
<b>Total</b>	<b>6,341,121</b>	<b>14,000</b>	<b>14,365</b>	<b>102.6%</b>



# Final Florida Sample





# Data Deliverables

- **Florida Add on Data Available : October 5, 2009**
- **Deliverables include :**
  - Questionnaire
  - Code Book
  - Data Dictionary
  - Copies of Field documents
  - User's Guide ( Spring 2010)
  - Examples of Data Uses
  - Location file (Geo-coded)
  - Structure and Use of the Main data files (4)



# Analysis Plans

- **Travel behavior at the individual and household level**
- **Characteristics of travel, such as trip chaining, use of different transportation modes, amount and purpose of travel by time of day and day of week, and other attributes**
- **Relationship between demographics and travel**
- **Characteristics of rural travel**



# Analysis Plans

- **Develop Time of Day factors**
- **Analysis of residential location choices**
- **Prototype dataset for Activity based models**



## Next Steps

- **Awaiting data from FHWA**
- **As soon as data is available, it will be immediately released to all MPOs and Districts**
- **In coordination with MPOs and Florida DOT districts Central Office will proceed with the various analysis plans detailed earlier**
- **Please coordinate with Central Office to prevent duplication of analysis efforts**



# Contact Information

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