

# **Request for Proposal**

## **COMMUTING IN AMERICA 2020 Brief**

### Evolution of Households

#### **INTRODUCTION**

The Census Transportation Planning Products Program seeks to expand the body of research known as Commuting in America (CIA). This Request for Proposals is for single brief on the topic stated below. The brief should follow the format of the 16 CIA briefs found at <https://traveltrends.transportation.org>. These briefs followed the seminal work done in the CIA series:

- Commuting In America: A National Report on Commuting Patterns and Trends
- Commuting in America II: The Second National Report on Commuting Patterns and Trends
- Commuting in America III: The Third National Report on Commuting Patterns and Trends

#### **PROJECT BACKGROUND**

The CIA series has focused on data and information from a wide variety of data sets including:

- American Community Survey (ACS)
- CTPP Data based on ACS
- National Household Travel Survey
- Decennial Census
- American Housing Survey
- Consumer Expenditure Survey
- Longitudinal Employment Household Dynamics
- National Population Projections
- National Intercensal Estimates
- Current Population Survey
- Transportation Energy Data Book
- National Transit Database

Centered on the release of decennial census data, the CIA publications have been produced approximately every ten years since 1987. The release of a new CTPP data set in early 2019 creates new challenges and opportunities to improve the understanding of national commuting patterns.

The CTPP program seeks to develop Commuting in America 2020 as a new vital product seeded from previous CIA efforts.

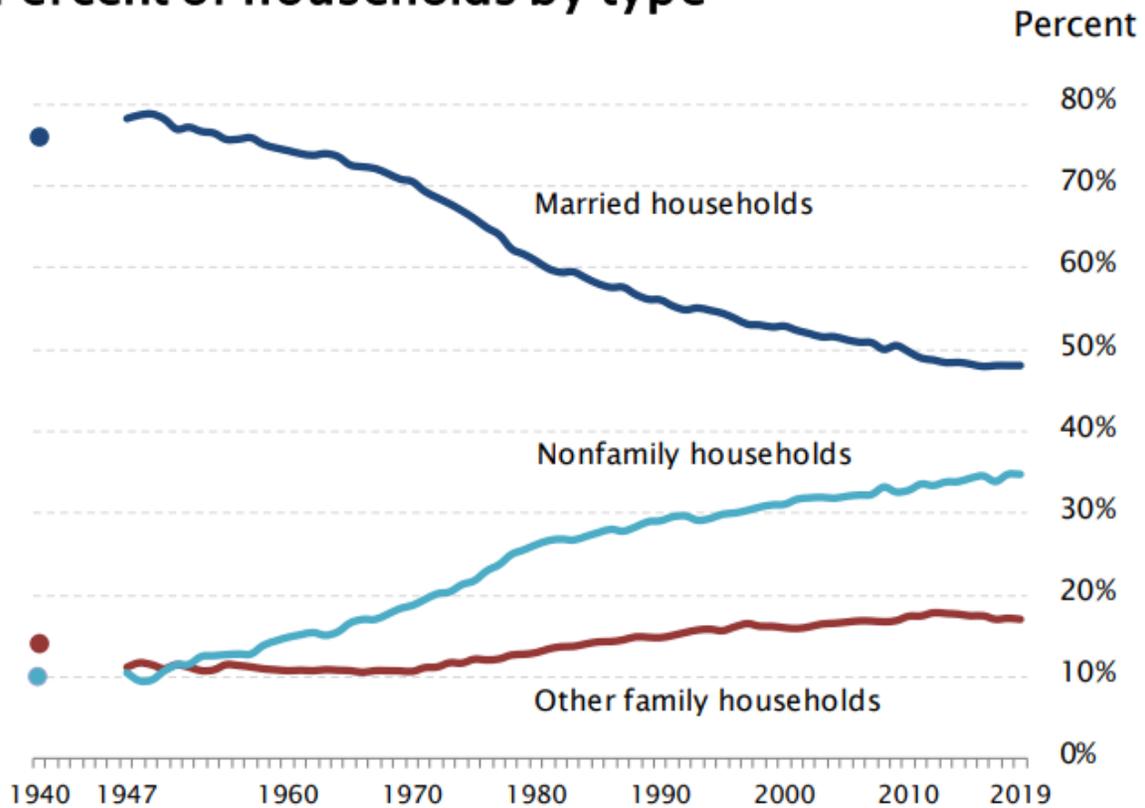
#### **BRIEF TOPIC AND PROBLEM DESCRIPTION**

##### **Evolution of Households – Structure and Size**

Households have evolved from the traditional family structure to new household and family formations (see Figure 1). Changes in the family and household structure and size (married, nonfamily, other households) have implications in the ways people interact with

each other, participate in activities, and consequently travel for these activities. Therefore, measuring travel for all households, regardless of structure, is vital so that transportation policies can be developed and enacted in an equitable manner.

**Figure HH-1**  
**Percent of households by type**



*Source:* U.S. Census Bureau, Decennial Census, 1940, and Current Population Survey, Annual Social and Economic Supplements, 1947 to 2019.



## Objective

Explore and explain the changes in travel behavior as they relate to the changes in types and sizes of American households.

## GENERAL DESCRIPTION

- Total brief length: 15-34 pages

- Color tables and figures are encouraged. Tables and figures should have sufficient description to allow readers to understand the general ideas of the tables/figures without needing to go back to manuscripts. All graphs require title, axis names, axis units, and legend. Maps require title, scale, and legend.
- Any external sources should be clearly cited and linked.
- Documentation of the analytical procedure should be transparent and the results completely replicable.

## **SECTION REQUIREMENTS**

### **SECTION 1. Problem Identification and Objective Statement**

- Problem statement and the objective(s) of the brief.
- Defining analysis scope
- If the brief is a continuation/extension of a previous brief, the previous brief's method and key findings should be clearly stated.
- 1 to 3 paragraphs

### **SECTION 2. Key Terminology Definition and Concept Elaboration**

- Clearly define and discuss key terminologies and concepts in the brief. Examples include the definition of workers, metropolitan area delineation, trip chaining, growth and development patterns, etc.
- Identify the Census products to be used to answer the question.
- Provide 1-page (maximum) write up on each terminology and / or concept. Each brief shall have at least one key terminology and / or concept.

### **SECTION 3. Transparent and Replicable Data Analysis**

- If any, what existing literature or past CIA and other relevant studies tell us?
- Data sources should be clearly described and linked
- The results from the data analysis should be replicable based on the given data sources and methodology.
- Describe what data can tell us for the given topic in different market segmentations. Below are some examples:
  - By geographic scale (e.g., nation-wide, by state, by county, etc.)
  - By mode (e.g., by driving-alone, by ridesharing, by transit, by scooter, by bike, etc.)
  - By time period (e.g., time-of-day, day-of-week, holiday vs regular days, trend analysis, etc.)
- Data should be analyzed by user attributes such as age, gender, race, income, employment type, and trend. If a key user attribute is not explored, the reason should be stated (e.g., no available data).
- It is recommended to produce data visualizations to reach a wider audience.

### **SECTION 4. Advanced Discussion**

- Space permitting, the discussion can include data that is out of scope with regard to the Census but must be directly relevant to the study.
- Space permitting, the finding/conclusion from Section 3 might be sensitive to broader economic condition, land use patterns, disruptive technologies, etc. Therefore, this section can specify the assumptions on which the conclusion is based. For example, Home-based work trips and activities in certain regions might be influenced by governmental policies and regulations. To be more specific, recent US foreign policy might contribute to more manufacturing and oil-production related jobs in certain regions, which, in turn, might influence computing trip percentage, trip length, and departure time distribution, etc. As other examples, future commuting pattern might be influenced by policies on interstate migration, local business investment attraction, and immigration.

### **SECTION 5. Summary and Conclusion**

- Clearly state the key findings
- Include all deficiencies of the methodology and
- Identify and justify the need for further study and / or research
- Limit to 1-page

### **SECTION 6. Executive Summary**

- Provide 1-2 page executive summary per 15 pages of brief.

### **REQUEST FOR PROPOSAL – MECHANICS**

Proposers should submit a proposal 5-page maximum describing the proposed treatment of the subject matter (an abstract) including approach to analysis (expected sources) and discussion of the problem. Additional space may be used for qualifications, references, and information on other relevant work.

Final briefs should be suitable for further distillation into an infographic.

All completed briefs will be housed on internet; therefore, web-enabled product is required.

The winning proposal will be awarded \$20,000 to produce the individual brief. Proposers may propose on more than one brief.

The schedule for completion of this brief is 12 months from the Notice to Proceed.

Proposals are due by October 23, 2020 to Penelope Weinberger [pweinberger@aaashto.org](mailto:pweinberger@aaashto.org) by email including word or pdf attachment