

OLDER ADULTS, NEW MOBILITY, AND AUTOMATED VEHICLES

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FIGURE 1: A FRAMEWORK FOR OLDER ADULT MOBILITY FACTORS

INDIVIDUAL LEVEL



**SAFETY FACTORS
(ORGANIZATIONAL)**

CRASH PREVENTION

Increases or decreases in the likelihood of a crash

VEHICLE OCCUPANT OR PEDESTRIAN SAFETY

Protecting (or failing to protect) individuals from harm in the event of a crash

**SUPPLY-SIDE
ACCESS FACTORS**

ACCOMMODATION OF GOODS OR AIDS

Accommodation of travelers' paraphernalia, including goods, groceries, suitcase, walkers, or wheelchairs for the mobility-impaired

TRAVEL OPTIONS FIT WITH USER NEEDS

Alignment of transportation options with the diverse trip needs (traveling long distances, for a medical emergency, to a rural destination, etc.)

TRAVEL OPTIONS FIT WITH ENVIRONMENTAL CONDITIONS

Alignment of transportation options with current environmental factors (e.g., weather, extreme traffic patterns, natural disasters, etc.)

AVAILABILITY OF TRANSPORTATION SERVICES IN YOUR AREA

Availability (or lack of availability) associated with urban/suburban/rural location and/or economics of service deployment

CONSISTENT TRANSPORTATION SERVICE AVAILABILITY

Regularity, frequency, and reliability of access to transportation options/services

BIAS IN AVAILABILITY

Racial, economic, ability, or other biases shaping what kinds of transportation are available, where, when, and at what price

**LAND USE &
TRANSPORTATION
PLANNING FACTORS**

CURB AND SIDEWALK MANAGEMENT POLICY

Proximity and accessibility of the pickup/drop off location for older adults

STREET CROSS-SECTION DESIGN

Support (or lack of support) for older adult mobility needs (pick up/drop off areas, safe pedestrian crossing, etc.) through design and use of the street and sidewalk space

**TRANSPORTATION
SYSTEM FACTORS**

AVAILABILITY OF PUBLIC TRANSPORTATION OPTIONS

Increase or reduction in availability of affordable or accessible public transit services that older adults rely on

AVAILABILITY OF LAST-MILE OPTIONS

Increase or reduction in availability of affordable or accessible last/mile or door-to-door services that older adults rely on

**SECONDARY
RESPONSE FACTORS**

OTHER IMPACTS OF NEW MOBILITY/AVS ON TRANSPORTATION SYSTEM

Changes in the transportation system that affect older adult mobility beyond availability, affordability, and accessibility