Content Overview

Introduction to MOD Planning and Implementation

- Key MOD Characteristics of MOD
- Mobility as a Service (MaaS)
- The MOD Ecosystem: Marketplace, Stakeholders, and Enablers
  - Demand
  - Supply
- How to Use the Document
  - Uses by Different Stakeholders

Source: USDOT

MOD Stakeholders and Partnerships

- MOD Stakeholders
  - Public Sector (Federal, state, regional, local, public transit)
  - Mobility Service Providers
  - Consumers
  - Non-governmental organizations
  - Academia
- MOD Partnerships
  - First- and Last-Mile Connections
  - Low density and off-peak service
  - Paratransit
  - Data Sharing and app integration
  - Rights-of-way
  - Risk Sharing

Source: USDOT

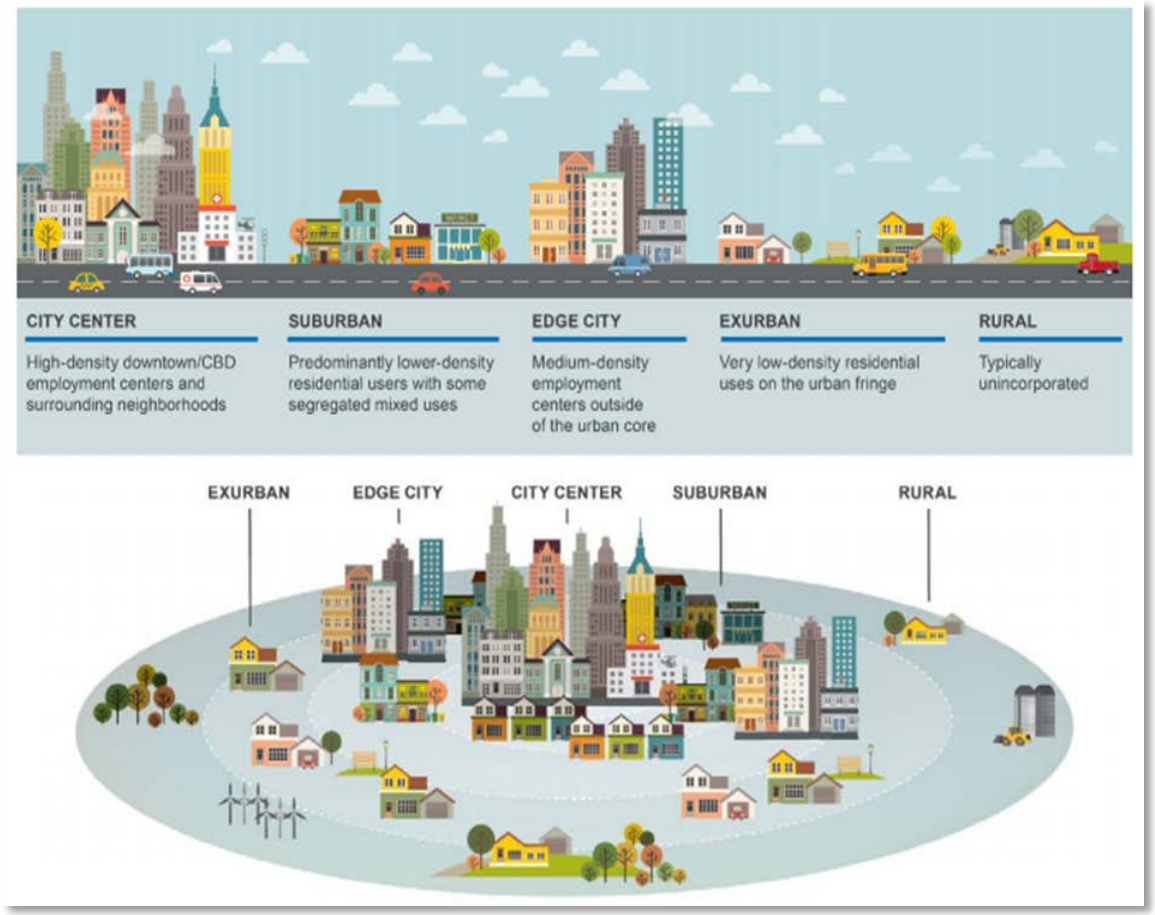
Integrating MOD into Transportation Planning, Modeling, and Operations

- MOD and the Planning Process
  - Local, Regional, and State Processes
  - Different Time Horizons
- MOD in Modeling
  - Data Sets
  - Mode Chaining
  - Modeling Methods
- Transportation Systems Management and Operations
  - Manage Supply and Demand

Source: City of Minneapolis.

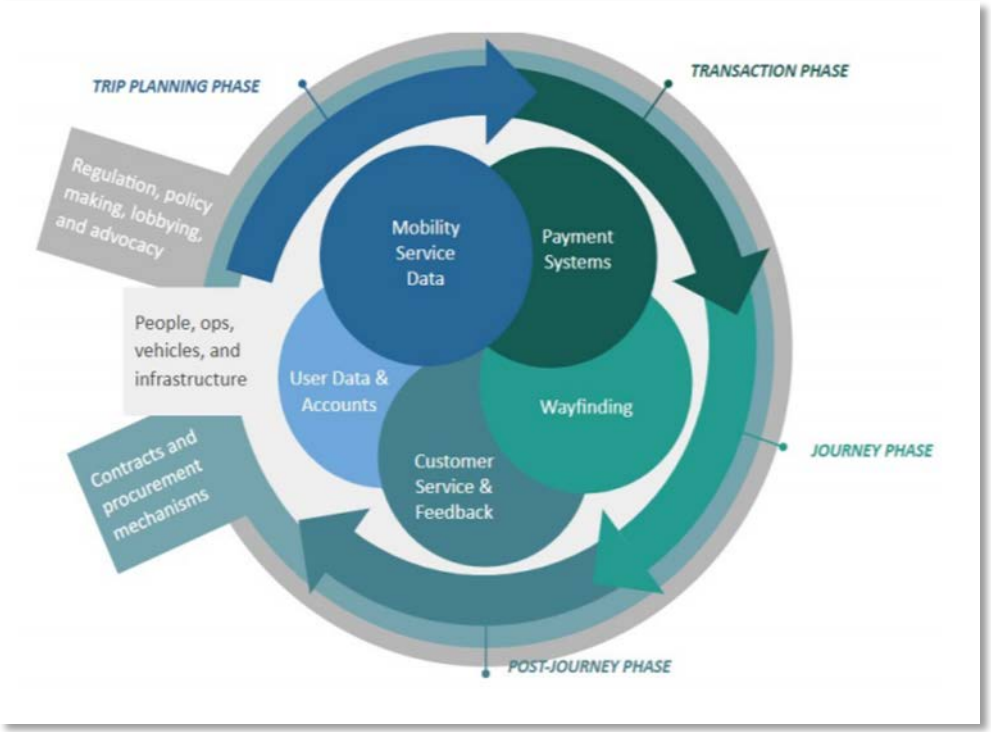
Shared Mobility Implementation and Community Integration

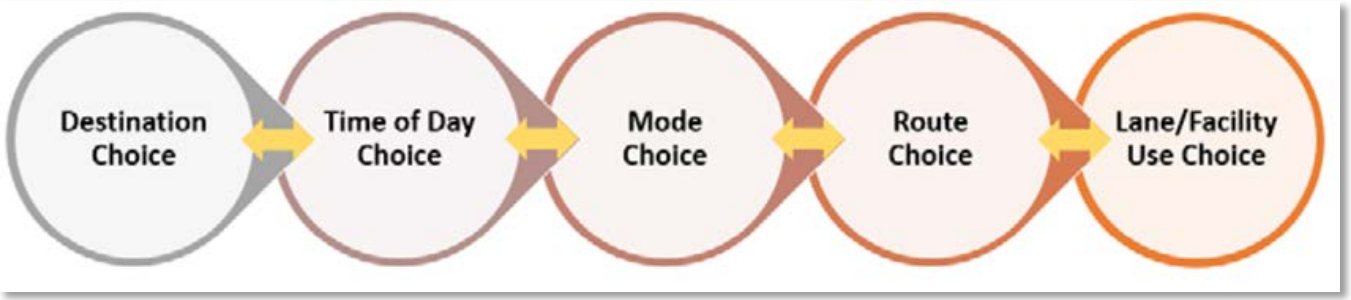
- Shared Mobility Implementation
  - Definitions and Impacts
- Role of the Built Environment
  - Common Built Environments and MOD applications
- Shared Mobility Policy Frameworks
- Rights-of-Way Management



Shared Mobility Implementation and Community Integration (cont.)

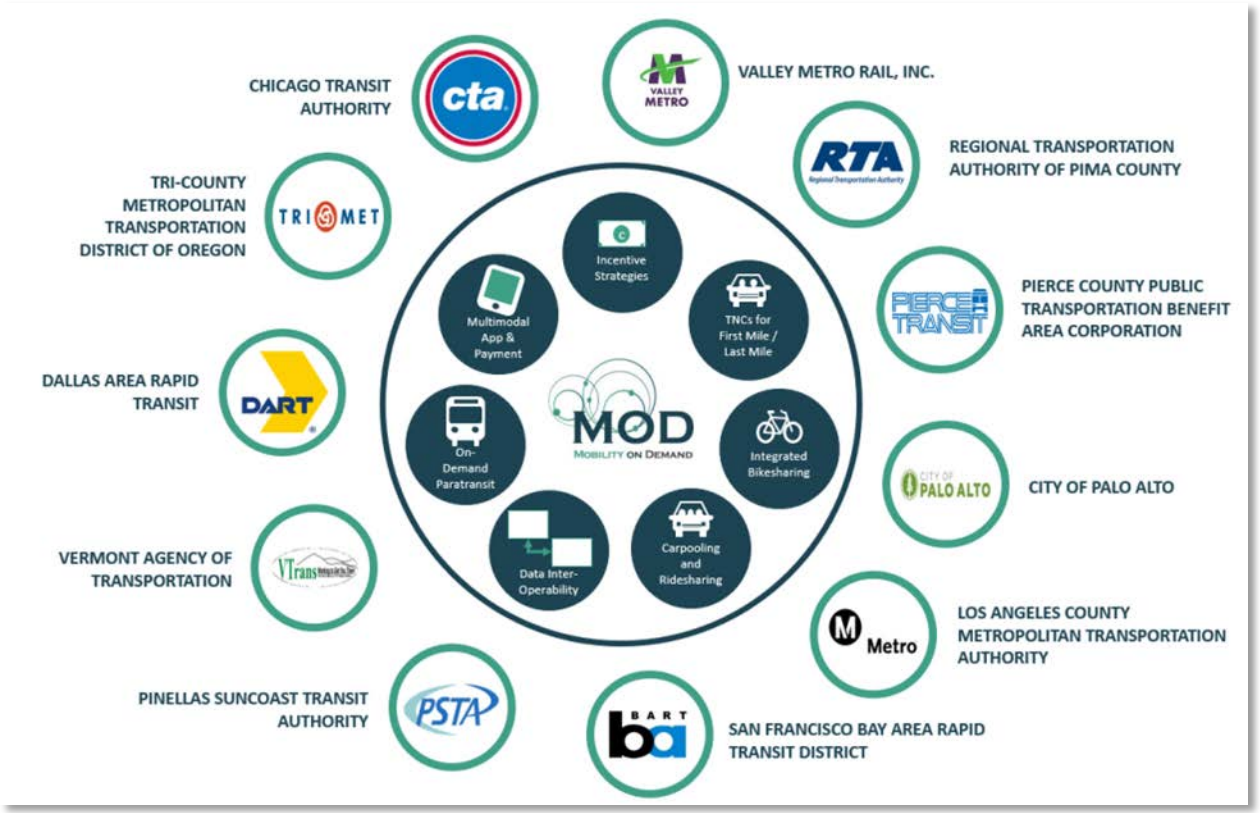
- Incentive Zoning
  - Increasing Density
  - Reducing Parking
- Multimodal Integration
  - Physical
  - Information
  - Fare Payment
- Last-Mile Delivery
  - Innovations





MOD Implementation Considerations

- MOD Data Sharing and Management
  - Common Uses
  - Common Concerns
- MOD Pilots
  - Measuring and Evaluating Impacts
- MOD and Labor
  - Key Stakeholders
  - Labor Issues and Policy Considerations
- MOD and Transportation Equity
  - Spatial, Temporal, Economic, Physiological, Social (STEPS) Framework
  - Common Challenges and Potential Actions



Innovative and Emerging Mobility Futures

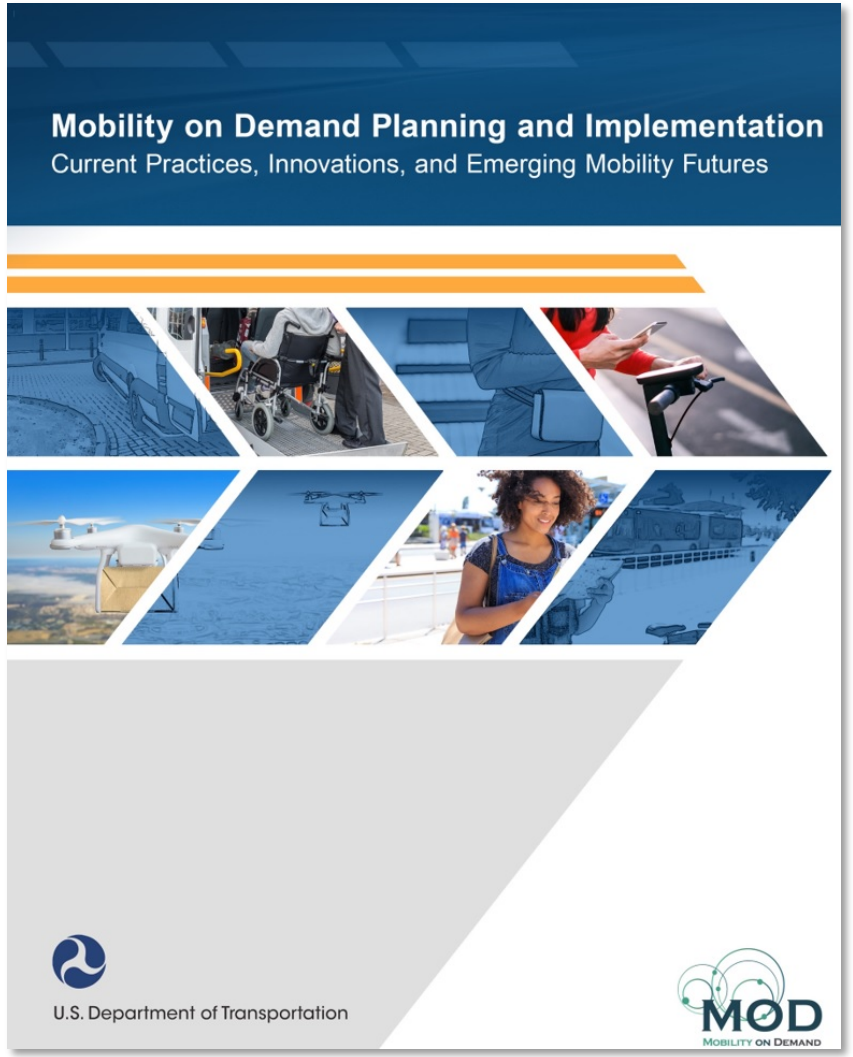
- Shared Automated Vehicles
  - Potential Impacts and Concerns
- Urban Air Mobility
  - Potential Concerns
  - Skyports and Infrastructure
- Innovative and Emerging Last-Mile Delivery Technologies
  - Unmanned Aircraft Systems
  - Delivery Robots
  - Automated Delivery Vehicles
  - Potential Concerns

Source: Pickard Chilton

Source: OstapenkoOlena/iStockphoto.com, n.d.

Summary and Key Takeaways

- Changing consumer preferences are contributing to transportation innovation and the growth of MOD
- Partnerships, policies, and deployment characteristics are almost always tailored to local context
- Communities are leveraging a number of common partnerships, to help bridge spatial and temporal gaps in the transportation network
- The impacts of MOD on data privacy, equity, and labor are common concerns associated with on-demand mobility
- Policies integrating shared mobility into the public rights-of-way, zoning for new and existing developments, and multimodal integration can create a network effect multiplying the effectiveness of MOD



Questions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Thank You

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