

TPB Assistance on Travel Demand Model Development and Application

FY 2011 Task Orders for Cambridge Systematics

TPB Travel Forecasting Subcommittee

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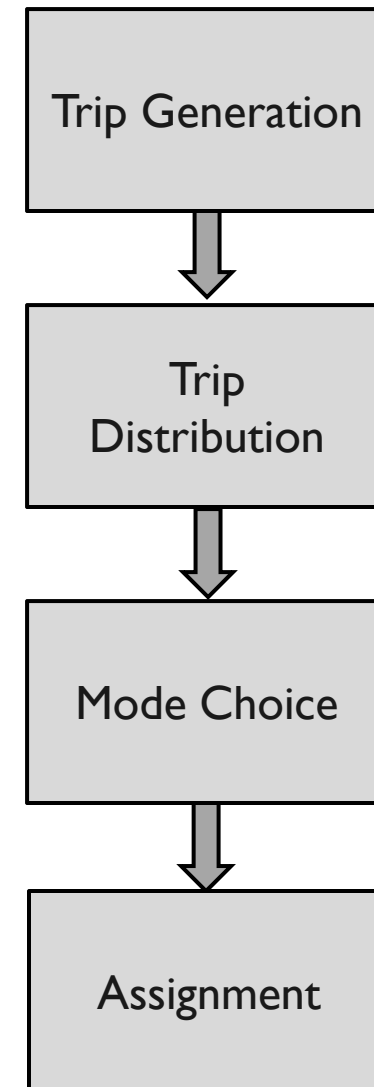
January 21, 2011

Four Tasks for FY 2011

- Task 1 (Continued) – Attend Meetings and Provide Technical Support
- Task 11 – Provide Guidance and Support Pertaining to Transit Assignment for the Version 2.3 Travel Model
- Task 12 – Perform Services to Support Consideration of Available Travel Demand Forecasting Software Packages
- Task 13 – Perform Review of Potential Model, Methods, and Script Enhancements for the Version 2.3 Travel Model

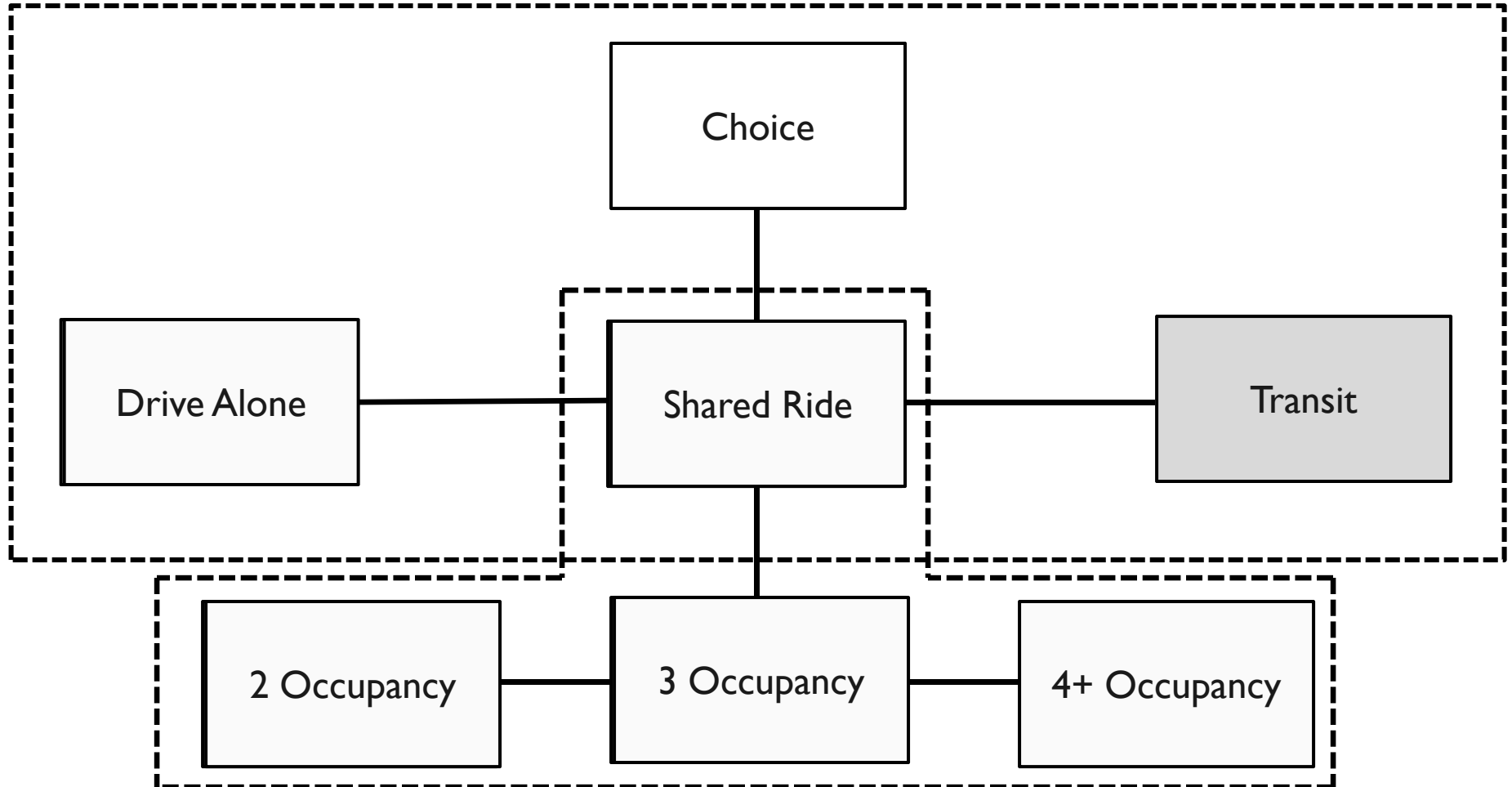
Task II – Provide Technical Guidance and Support Pertaining to Transit Assignment for the Version 2.3 Travel Model

- New Mode Choice Model
- New Features
- New Structure
- Sub-Mode Choice
- Mode of Access
- Transit Assignment



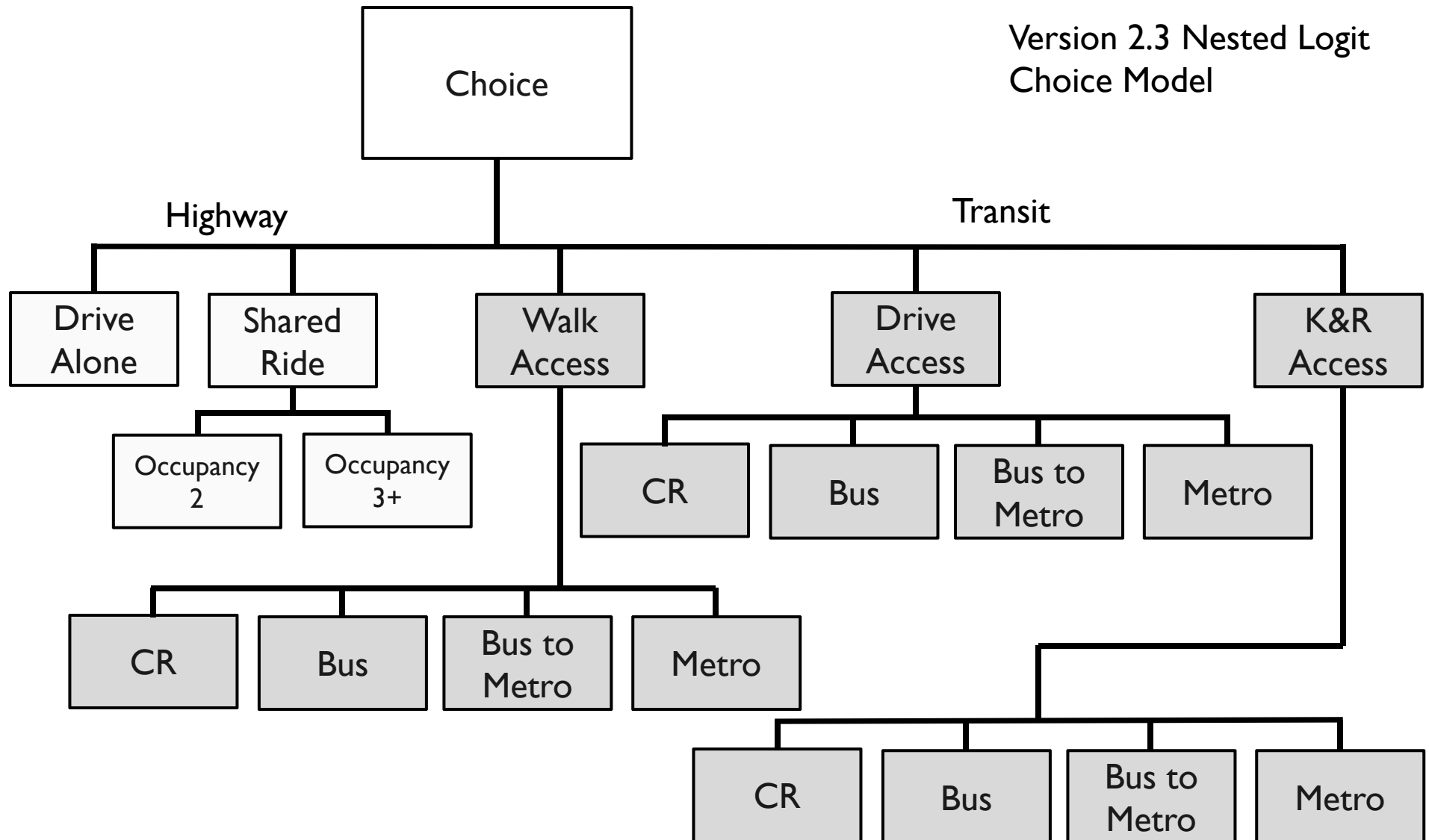
Task II – Provide Technical Guidance and Support Pertaining to Transit Assignment for the Version 2.3 Travel Model (Continued)

Version 2.2 Multinomial Logit Choice Model

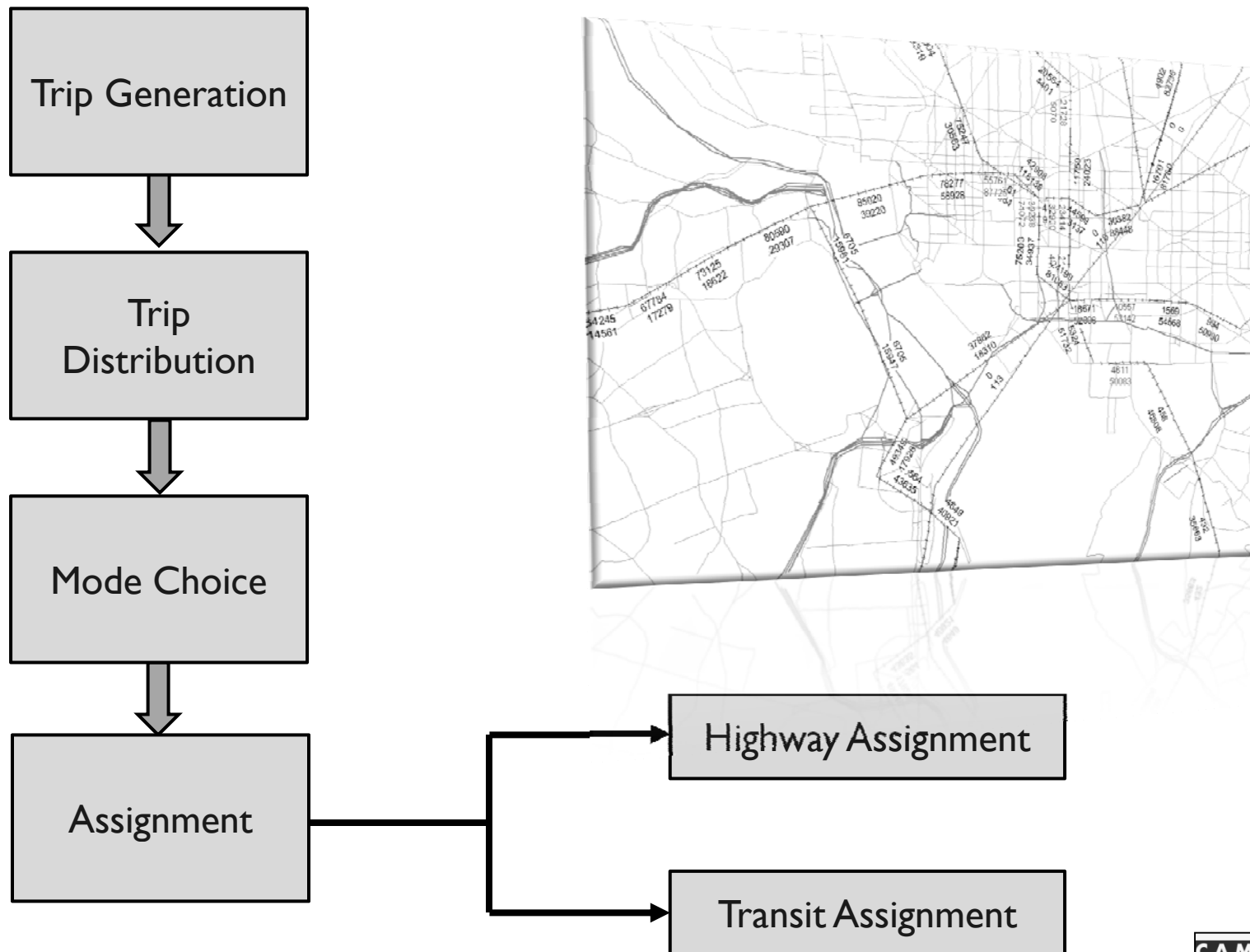


Task II – Provide Technical Guidance and Support Pertaining to Transit Assignment for the Version 2.3 Travel Model (Continued)

Version 2.3 Nested Logit Choice Model



Task II – Provide Technical Guidance and Support Pertaining to Transit Assignment for the Version 2.3 Travel Model (Continued)



Task 12 – Perform Services to Support Considerations of Available Travel Demand Forecasting Software Packages

- TPB periodically reviews available software packages and considers the evolution of its needs
- CS support
 - » Inventory Software Used by Larger MPOs
 - » Assist in Development, Assembly, and Review of Evaluation Criteria



Task 13 – Perform Review of Selected Version 2.3 Travel Demand Forecasting Model Methods, Scripts, and Potential Enhancements

- **Confirm Key Areas of Interest**
- **Scripts and Scripting Architecture Review**
 - » **Efficiencies**
 - » **Improved Structures**
 - » **Run Time Savings**

Task 13 – Perform Review of Selected Version 2.3 Travel Demand Forecasting Model Methods, Scripts, and Potential Enhancements

- **Potential for CUBE Cluster**

- » Application

- » Benefits

- » Challenges

- **CUBE Public Transport (PT) Module**

- » Application

- » Benefits

- » Challenges

Task 13 – Perform Review of Selected Version 2.3 Travel Demand Forecasting Model Methods, Scripts, and Potential Enhancements

- **Tolling Methods**

- » **Confirm Policies/Decisions of Interest**
- » **Approaches**
- » **Benefits**
- » **Challenges**