FLORIDA TRANSPORTATION FORECASTING FORUM

The Prime Directive

When and How to Modernize Modeling Standards

Systems Forecasting & Trends Office

FDOT

The Recent Past: FSUTMS

FSUTMS STANDARDS

Current Cube Software Version - 6.4.4

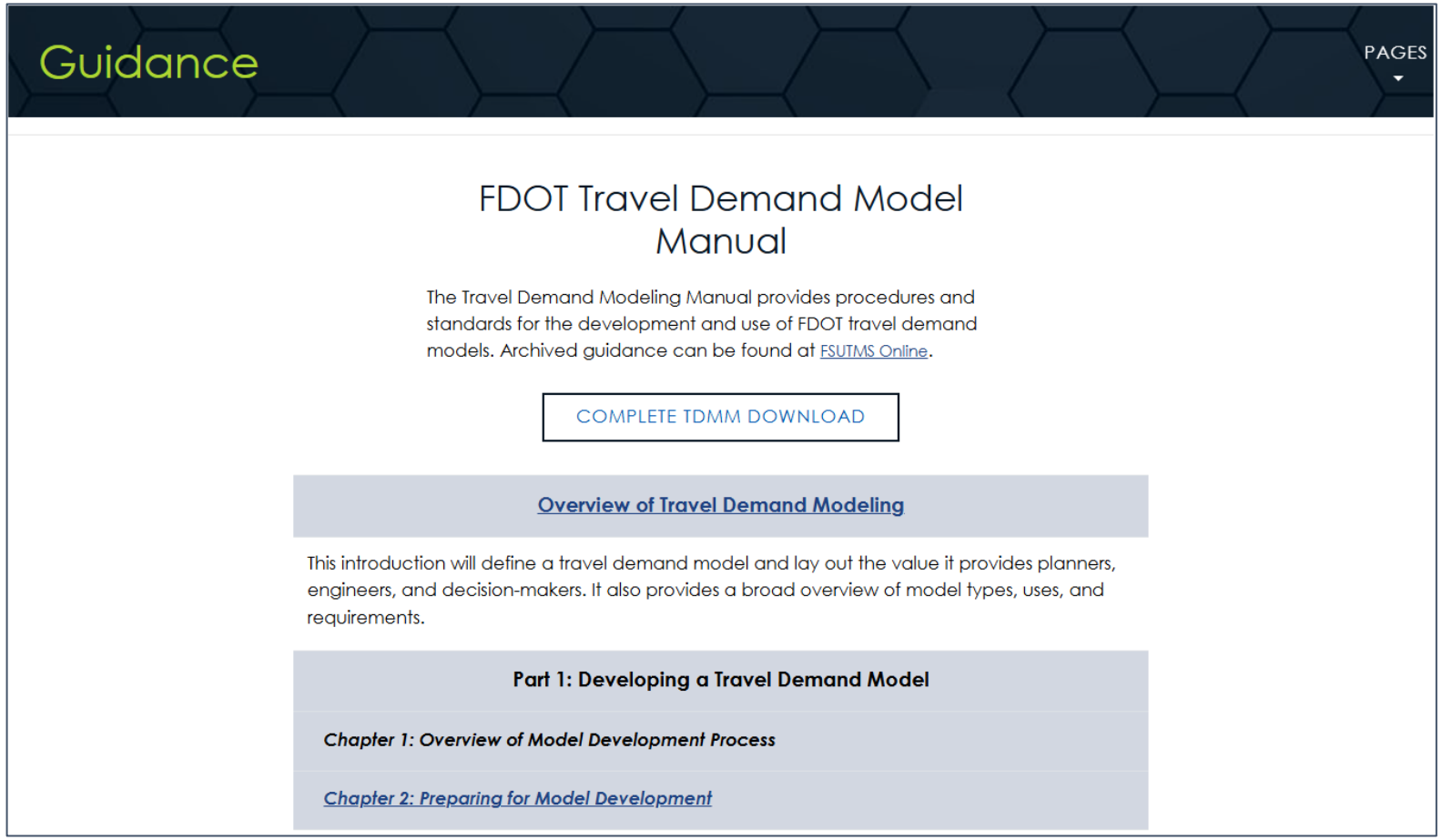
As of October 2018, FDOT has approved Cube 6.4.4 (including Cube Base, Voyager, Analyst, Cluster, and Avenue) as the official version for developing FSUTMS models. Public agencies interested in obtaining the software should contact Terry Corkery. For additional information about the current software version and technical issues, please contact Vladimir Majano.

The Florida regional and statewide travel models will be transitioning io new modeling platforms with the anticipated model conversion completion date of July 2023. The two software platforms available for this transition are PTV Visum and TransCAD.

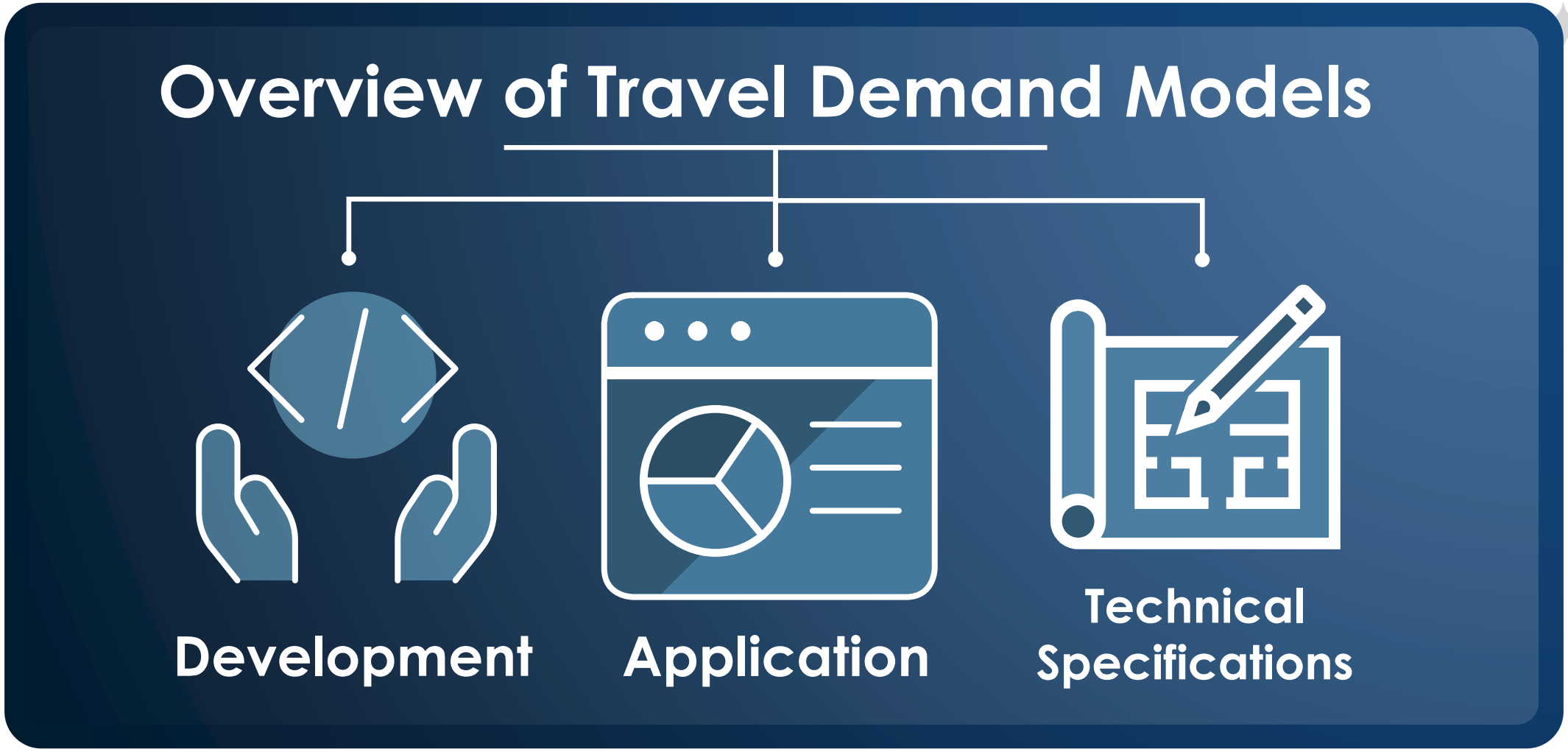
Current FSUTMS Standards Documents

- UROAD Factors in Florida Models
- Use of the Florida Statewide Model
- Managed-Lane Modeling Practice Workshop
- Transit Model Update Project
- Development of a Data Framework for the Florida Standard Urban Transportation Model Structure
- FSUTMS-Cube Framework: Standard Trip Generation and Distribution Models
- New FSUTMS Transit Modeling Framework
- FSUTMS-Cube Framework Phase II: Model Calibration and Validation Standards
- White Paper on Recommended Approach to Delineating TAZ
- FSUTMS Standards White Paper
- FSUTMS Data Dictionary
- FSUTMS Standard Report Prototype Program (for testing)
- FSUTMS-CUBE Framework Phase I: Default Model Parameters
- HNET Procedural Enhancement Study

The Present: Travel Demand Modeling Manual (TDMM)



TDMM Structure



TDMM Part 1 – Developing a Model

Chapter 1	Overview of Model Development Process
Chapter 2	Preparing for Model Development
Chapter 3	Preparing Model Data
Chapter 4	Developing and Refining the Base Year Model
Chapter 5	Developing the Future Year
Chapter 6	Resources

TDMM Part 2 – Using a Model

Chapter 1 — Defining the Ask

Chapter 2 — Accuracy and Precision

Chapter 3 — Running a Baseline

Chapter 4 — Modeling Scenarios

Chapter 5 — Scenario Outputs

Chapter 6 — Communicating Results

TDMM – Future Technical Specifications

- User Interface
- Auto Calibration/Validation Using AI
- Minimum Requirements for Input Data
- Trip Generation Rate Modification
- Seasonal Population
- Visitor Data
- Freight Data

Future Technical Specification: User Interface

Specification	Description
User Interface	dashboards, reports, export functionality

TDMM – Future Technical Specifications

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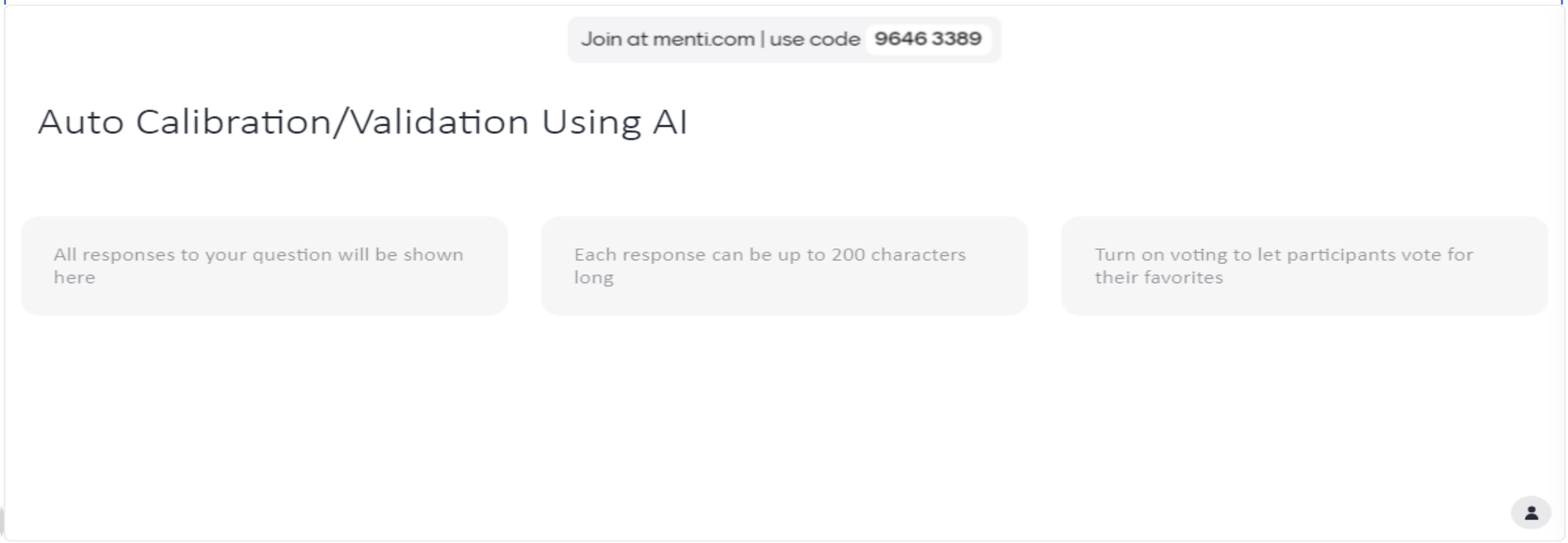
Mentimeter Code:
9646 3389

Future Technical Specification: Auto Calibration/Validation Using AI

Specification	Description
Auto Calibration/Validation Using AI	Using AI for calibration and real-time adjustments

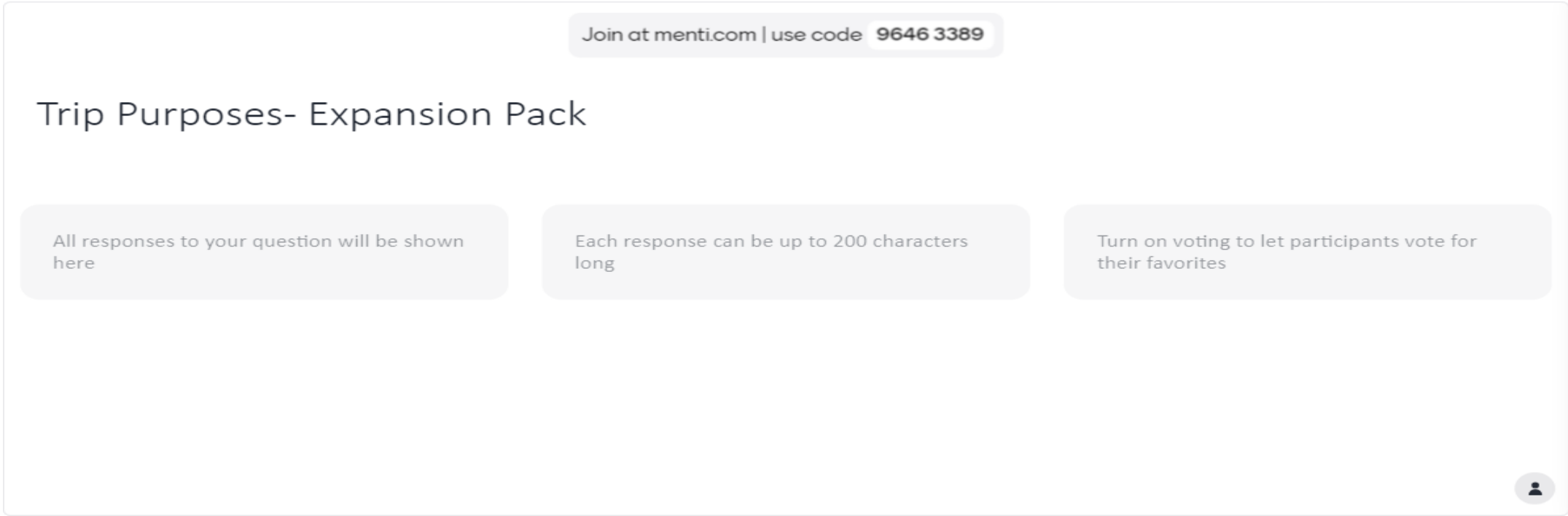


Future Technical Specification: Minimum Requirements for Input Data

Specification	Description
Minimum Requirements for Input Data	Minimum expectations for model input data

Future Technical Specification: Trip Generation Rate Modification

Specification	Description
Trip Generation Rate Modification	Work from home, e-commerce, gig economy, short-term rentals



Future Technical Specification: Seasonal Population

Specification	Description
Seasonal Population	Temporary population estimates, Census supplemental data

Future Technical Specification: Visitor Data

Specification	Description
Visitor Data	Short-term populations, housing rentals

Future Technical Specification: Freight Data

Specification	Description
Freight Data	FAF disaggregation, long-distance truck flows

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Future Technical Specifications: What did we miss?

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Thank You