

TBM v6.3 Subregional Model Development Tool

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SCAG Modeling Task Force Meeting
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Agenda

- **Current Subregional model**
- **Objective of the Subregion model development**
- **Development update and issues**
- **Demonstration**



Current Subregional Model

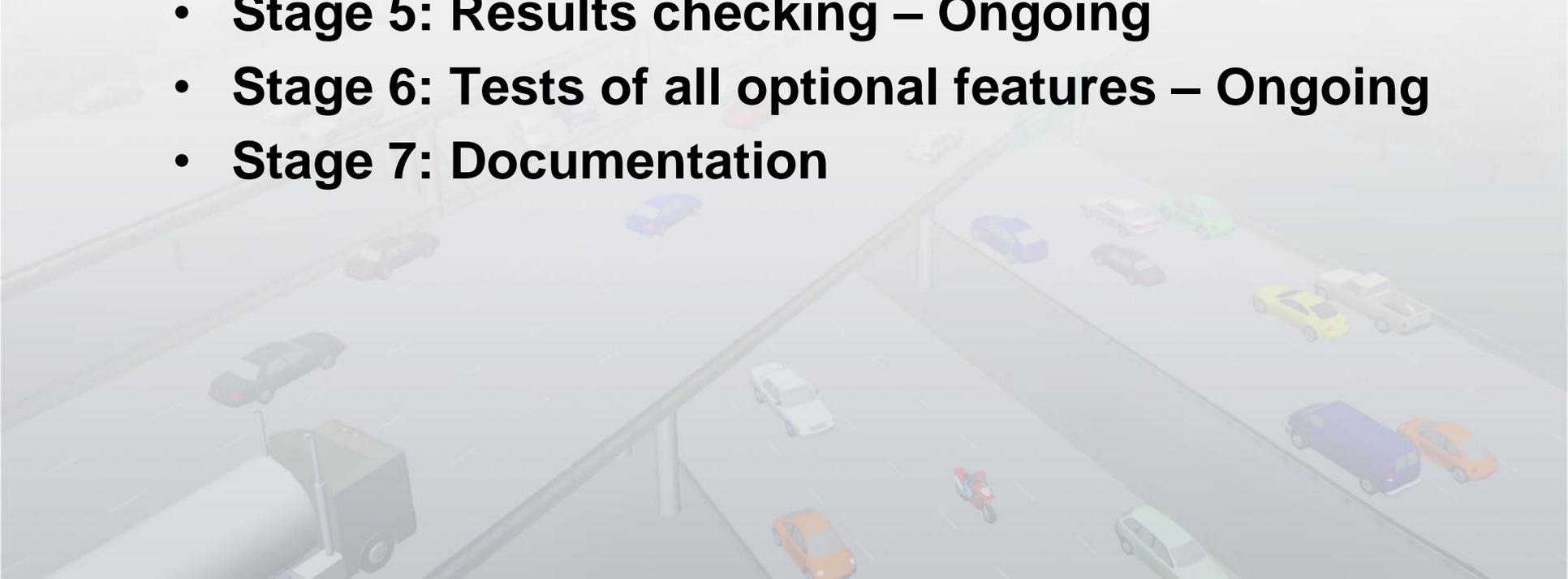
- **Runs on TransCAD 6.0**
- **Used regional model for core model**
 - Inside subregion – disaggregation, outside – aggregation
 - Added models for aggregation/disaggregation
- **Developed for San Bernardino County, Imperial County, and Palmdale**
- **Mix of TBM 6 and TBM 5**
 - TBM 6: networks, trip generation, time of day, assignment
 - TBM 5: skimming, trip distribution, mode choice, truck

Model Development Objective

- **Full compatibility with TBM 6.3**
- **Support for:**
 - Updated networks
 - Destination choice
 - Mode choice
 - Truck model
 - Skimming
 - Assignments and Tolling
- **Code compatibility**
 - Common master code for both TBM and Subregion model
 - Easy extraction of both model types

Development Update

- **Stage 1: Regional Model Conversion – Complete**
- **Stage 2: Integration of updated TBM 6.3 models – Complete**
- **Stage 3: Test run of 2012 Base year – Complete**
- **Stage 4: Test run of future year – Ongoing**
- **Stage 5: Results checking – Ongoing**
- **Stage 6: Tests of all optional features – Ongoing**
- **Stage 7: Documentation**



Development Issues

- **Compatibility issues with current TBM**
 - Subregion model based on TBM from 2012/2013
 - Incompatibility issues with both code and datasets
- **Zone numbering is fixed in TBM 6.3 but variable in subregional model**
 - 11,267 zones in TBM, variable in Subregional model
 - Destination, mode choice model uses internal zone numbering that must now be mapped to subregional zones
 - Some configuration files use fixed values
- **Some models were purely designed only for TBM (Truck)**
- **Moving target (small changes in TBM 6.3 are still occurring)**

Demonstration

