

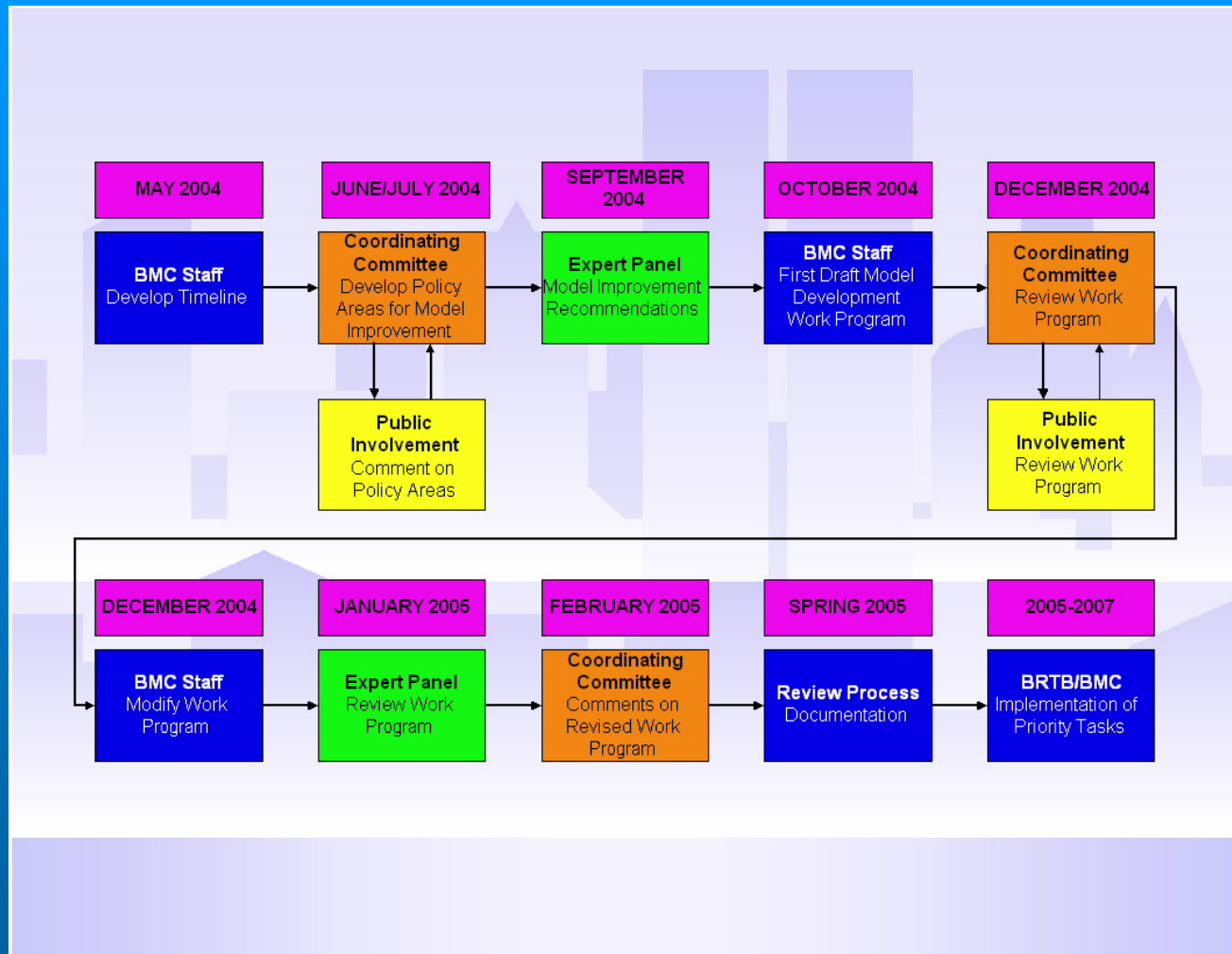
Baltimore Peer Review

Cooperative Forecasting Group

November 17, 2004



Model Peer Review Process



Panel Of Experts

- Frank Spielberg BMI-SG Consulting/Vienna
- Keith Killough – KLK Consulting/Los Angeles
- Tomas Rossi – Cambridge Systematics/Boston
- Eric Miller – Professor/University of Toronto
- Ken Cervenka – Dallas/Fort Worth MPO
- Jeffery May – Denver MPO
- Eric Pihl - FTA
- Bruce Spear - FHWA
- Christopher Forinash - EPA
- Gerry Flood – Volpe Center



Panel Recommendations

- **Major Concerns**
 - **Demographic Projections and Control Totals for Population/Labor Force and Employment**
 - **Data Needs – External, Traffic Counts, and Trucks/Commercial Vehicles**
 - **Market Segmentation**
 - **Mode Choice Model Structure and SUMMIT (New Starts)**
 - **Time of Day/Feed Back**
- **Praise**
 - **GPS Speed Data**
 - **Effort on Truck and Commercial Vehicles**



Panel Recommendations

- **Demographic Data Control Totals**
 - Issue – Imbalance of Projected Employment with Expected Labor Force both Intra- Regionally and Inter-Regionally Potentially Resulting in Over/Under Forecasts of Travel Demand.
 - Recommendation –Development of Control Totals Allocated to Jurisdictions
 - Baltimore Region
 - Statewide
 - Urban Area – Baltimore/Washington
 - Expert Panel of Local Economic Development Officers and Planning Representatives



Trip Generation

- **Households Produce Trips**
 - Cross class model applies average household trip rate to TAZ households stratified by household size and auto available
- **Employment Attracts Trips**
 - Linear regression using employment and households
- **Productions = Attractions**

$$TAZ_NewAtt = \sum Attractions * \frac{(Productions - Xternal_attractions)}{Internal_attractions}$$



Panel Recommendations

- **Market Segmentation**
 - Issue – Household Travel Choices Are Better Represented with Greater TAZ Household Disaggregation. This Will Improve the Evaluation of Transportation Benefits and Burdens (Environmental Justices). The Current Process is Disjointed.
 - Recommendations
 - Auto Availability Model
 - Households by Income, Size, Labor Force, and Life Cycle
 - Population Synthesis – Long Term
 - Increase number of TAZs

