


Planning Session Summary




Policy Guidance – Identifying Projects

- Density, Distance (of congestion) and Duration (of delay) – initial screening tools
- Make use of Regional Plans to identify potential capacity improvements.
- Covering O&M costs represents a minimum threshold for financial feasibility.
- Investigate available sketch level applications from other sources

2

Managed-Lane Modeling Practice Workshop




Policy Guidance – Defining MOEs

- Define Benefits and Costs clearly from the start
- Minimum project length considers min toll (\$0.50)
- Risk Analysis is important
- Make use of user benefits for both toll users and GP users

3

Managed-Lane Modeling Practice Workshop




Model Sensitivities

Standard State of the Practice features should be used to assess toll demand

- Feedback
- Destination Choice with logsum impedance
- Time of Day
- Market Stratification – Income, auto ownership, household size, workers
- Purpose Stratification – carried through to Assignment?
- Multi-class Assignment – tight convergence criteria (1×10^{-4})

4

Managed-Lane Modeling Practice Workshop




Model Sensitivities

In addition the following are desirable sensitivities

- Reliability
- Time of day choice
- Distributed Value of Time
- Smaller time slices for assignment
- Ability to balance toll and demand

5

Managed-Lane Modeling Practice Workshop



Model Design and Application

- Continuity of model design – building on the previous step vs. discrete, distinct model applications
- Focus on methodology, not software framework
- Subarea vs. Focused models for corridor analyses
- Toll Choice estimation in mode choice and assignment steps
- Transit is important
- Plan you data collection strategy early

6

Managed-Lane Modeling Practice Workshop



Screening and evaluation metrics

- Reliability measures important – can be measured even with static assignments
- Travel Time savings primary and most early benefits result from this. Reliability benefits increase over time.
- Revenue, User benefits, toll rates and traffic demand should all be expected results from screening analyses
- Consumer surplus, time savings are critical measures for evaluation