



Modeling for the Route 156 Project

- What is a Travel Demand Model
 - How is it used for a Project

AMBAG's Regional Travel Demand Model

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4 Step Model

- Trip generation
- Trip distribution
- Mode choice
- Traffic assignment

What does the Model give us?

- Provides a regional travel perspective.
- Provides AM and PM peak volumes and the Average Daily Traffic (ADT) volumes.
 - Does not provide accurate local street volumes or local street turning movements.
 - Actual counts are needed for a project traffic study.
- Has versions for the years 2000 and 2030.
 - Years in between would require a lot of work.
- Does not include weekends.

Model is used to:

- Forecast the 2030 ADT and peak hour traffic for a typical week day.
- Estimate the traffic for the “No-Build” alternative and the “Build” alternatives.
- Determine growth in traffic between 2000 and 2030 for each alternatives.

How was the Model used for the Rte 156 W Project?

- Counts conducted for a week in August of 2005
 - Including turning movements
- Counts are “balanced” along Rte 156 for weekday and weekend peak hours by adjusting the turning movements.

How was the Model used for the Rte 156 W Project?

- Growth rates calculated from AMBAG Model for each alternative
 - Based on 2000 and 2030 Model output for each alternative
- 2005 weekday counts are increased to 2036 using the AMBAG Model growth rates

How was the Model used for the Rte 156 W Project?

- 2005 weekend counts are compared to the 2005 weekday counts
- Relationship applied to 2036 weekday volumes to establish 2036 weekend volumes

Next Steps: Traffic Analysis

- Conduct traffic operation analysis for 2005 & 2036
 - Estimates delay, queues and other data at intersections and the mainline

Traffic Analysis

- Caltrans designs for a facility to match the need of the community
- For our project we will use the Sunday peak volumes which is consistently the day of the week with the highest peak.
- The analysis of the 2036 volumes will determine the capacity needed

Where are we now?

- 2036 volumes have been estimated
- Traffic analysis is moving forward
 - Draft results are being checked for 2005 and 2036
- Alternatives will be analyzed and preliminary numbers indicate that proposed alternatives look good
- Draft traffic analysis to be completed by April 2008

Questions?