











| Ability to Answer Policy Questions | | | | | | | | | | | | |
|------------------------------------|-----------------------------|--------------|-------------|--------------------|----------------|-----------------|--|--|--|--|--|--|
| | Capable of Addressing Issue | | | | | | | | | | | |
| Policy Issue | Case I | | Ca | se 2 | LA | | | | | | | |
| | Mode Choice | Route Choice | Mode Choice | Route Choice | Mode Choice | Route Choice | | | | | | |
| Intra, Inter- zonal | Yes | Yes | Yes | No intra- zonal | Yes | Yes | | | | | | |
| Bicycle to transit | No | No | No | No | Yes | Yes | | | | | | |
| Bike sharing | No | No | No | No | Yes | Yes | | | | | | |
| Bicycle parking | No | N/A | No | N/A | Yes | Yes | | | | | | |
| Recreational | No | No | No | No | Yes | Yes | | | | | | |
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| Modeling Element Overview | | | | | | | | | | |
|--|------|-------------|-------------|----------|---------------|------|---------------|--|--|--|
| Trip Purposes | | Recreation | | | | | | | | |
| | Auto | Transit | | | Non-Motorized | | Biking | | | |
| | Auto | Walk Access | Bike Access | PnR, KnR | Walk | Bike | @ destination | | | |
| Home-Based Work | | | | | | | | | | |
| Home-Based Univ | | | | | | | | | | |
| Home-Based Recreation- Biking @ Destination | | | | | | | | | | |
| Home-Based Other | | | | | | | | | | |
| Non-Home- Based | | | | | | | | | | |
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Santa Monica 20 Year Plan Bike Model Test

• Network Coding

» Added 38 new links

- » Updated about 1300 links with modified bike facility class
- » Recalculated utility cost
- » Conversion from ArcGIS to CUBE
- Base Year and Future Year Model Run
 - » Built about 16 million bike paths
 - » Aggregated block to block utility to intra-zonal utility (from 8 million interchanges to 2268)
 - » Aggregated block to zone utility to short inter-zonal utility (from 3 million interchanges to 26455)

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Why Collect Bike Data? (Modeling and Other Purposes)

- Data Collected in Other Cities Uses a Wide Variety of Technologies, Similar to Those Planned for LA County
- While Bike Data in LA County Is Insufficient, Its No Worse than in Most Large Cities
- Similar Problems and Concerns
 - » Most existing data is site specific, not subject to extrapolation to a larger geographic area
 - » All count technologies are subject to error, and the use of short term counts extrapolated over time is especially prone to error
 - » Until recently, there has been little guidance regarding best practices
- Even Cities Known for Their High Bike Usage Such as Portland, Oregon – Are Struggling to Identify the Best Data Collection Practices

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