

Bicycle Model Development Status Report

Planning and Programming Committee
July 16, 2014



Metro

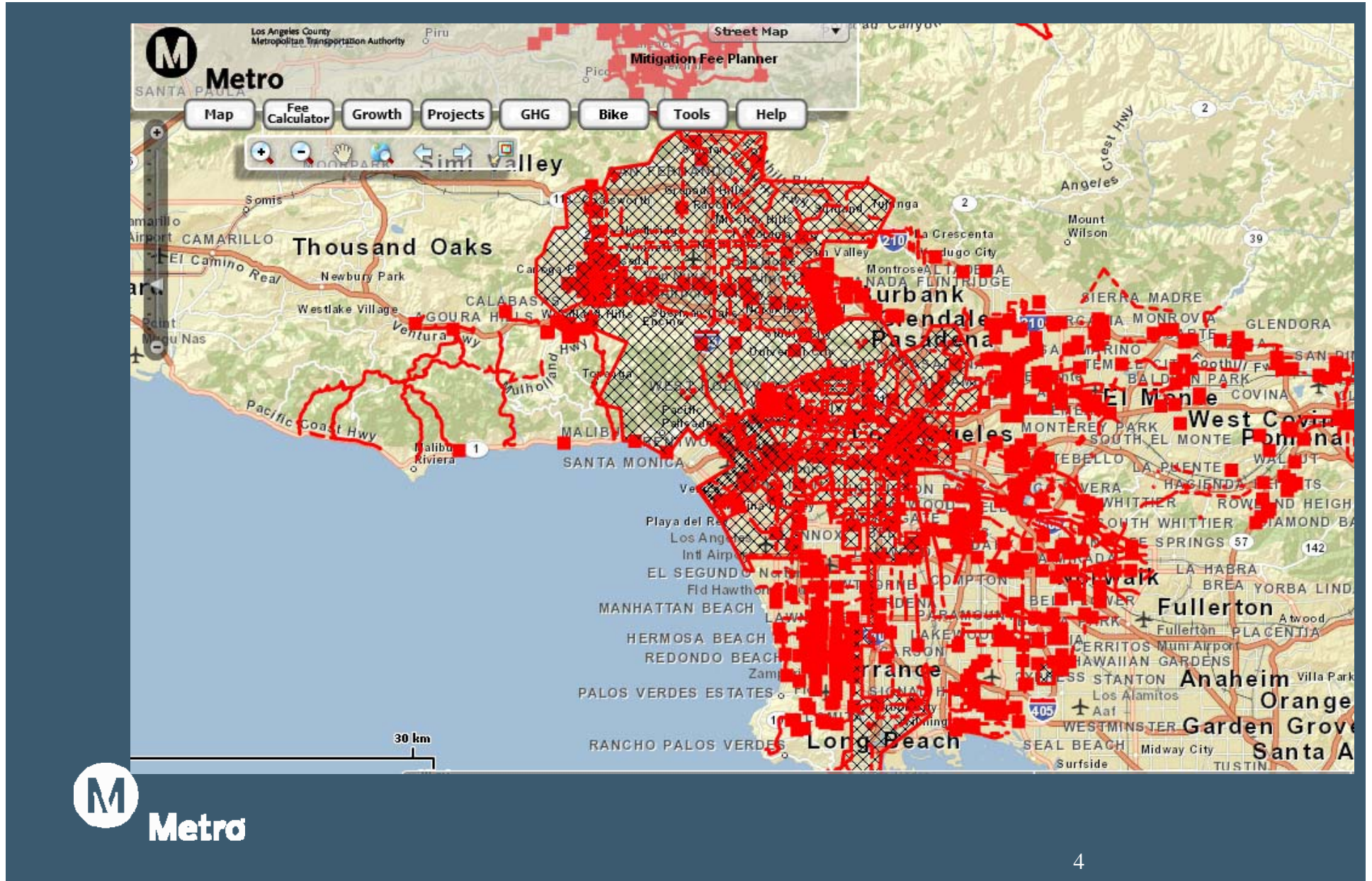
Bicycle Model – State of the Practice

- MTA Board motion to develop bicycle model
- 2 Phase approach due to complexity
- Phase I – Web-based Sketch Plan Tool
 - Community level analysis
 - Measure trips by jurisdiction
 - Available to jurisdictions
- Phase II – Bicycle Route Choice Model
 - Add bike mode to MTA Travel Demand Model

What Does Bicycle Sketch Plan Tool Do?

- Phase I – Jurisdiction Scenario Analysis
 - Measure Number of Bicycle Trips
 - Work
 - Recreational
 - Performance Measures
 - Mobility, Environmental, Economic, Public Health
 - Test Runs with 11 jurisdictions + Bicycle Coalition
 - Useful in analyzing bicycle projects
 - Suggestions to improve
 - Easier project entry
 - Quicker analysis of bicycle projects
 - Update socio-economic data
 - Enhance mapping capabilities

Bicycle Sketch Plan Tool: Community Level



Web-based Bicycle Sketch Tool: Performance

Metro Los Angeles County Metropolitan Transportation Authority

Bike Analysis Mitigation Fee Planner

Summary | Mobility | Environmental | Economic | Public Health

Parameter	Scenario 1	Scenario 2
City	Pasadena	Pasadena
Total Projects Analyzed	5	3
Total Cost (\$)	1,040,000	30,000

Project Type Breakdown

Legend	Scenario 1	Scenario 2
Bikeways (Bike Path)	1	1
Bikeways (Separated Cycle Track)	1	0
Bikeways (Bike Lane)	1	1
Bikeways (Bike Boulevard)	0	1
Worksite Bicycle Amenities	1	1
Transit Station Bike Parking	1	0
Bikesharing	0	1

* All results are annual values reported in the year 2035, compared to a year 2035 scenario in which the analyzed projects are not implemented.

50 km

5

What Will the Bicycle Travel Demand Model Do?

Phase II: Add bike mode to MTA Travel Demand Model

- Allows MTA Travel Demand Model to include bicycle mode and route choices
- Estimate where bicycle trips originate and the routes they take to destinations
- Evaluate proposed bicycle investments
- Conduct corridor analysis

Next Steps

- Work with all jurisdictions on how to operate the Sketch Plan Tool
- Add bicycle mode to MTA Travel Demand Model
- Scheduled to complete in mid-2015