# Los Angeles BRT

**Bus Rapid Transit Webinar**

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**Los Angeles Metropolitan Transportation Authority**

# Metro Rapid

LOS ANGELES

# Orange Line

# Metro Rapid

LOS ANGELES

# Why BRT in Los Angeles

- Public dissatisfied with slow bus service
- Average bus speeds declined by 12% between 1985 and 2000
- LADOT found that 50% of the time a bus is in service it is stopped
- Metro and City of Los Angeles formed Metro Rapid Program in 2000

# Metro Rapid (BRT) Attributes

1. Frequent Service
2. Bus Signal Priority
3. Headway-based Schedules
4. Simple Route Layout
5. Less Frequent Stops
6. Integrated with Local Bus Service
7. Level Boarding and Alighting
8. Color-coded Buses and Stations
9. High Capacity Buses
10. Exclusive Lanes
11. Off-vehicle Fare Payment
12. Bus Feeder Network

Primary Attributes

Expansion Attributes

# Los Angeles Metro Rapid

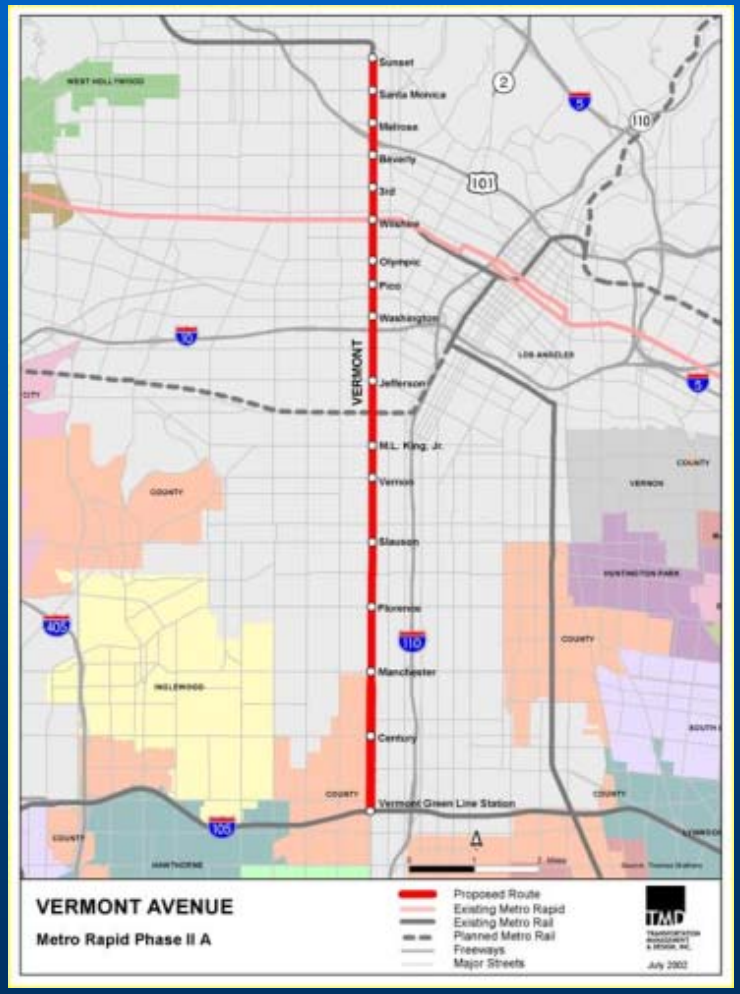
# Bus Signal Priority

# Loop Detector

# Bus Signal Priority

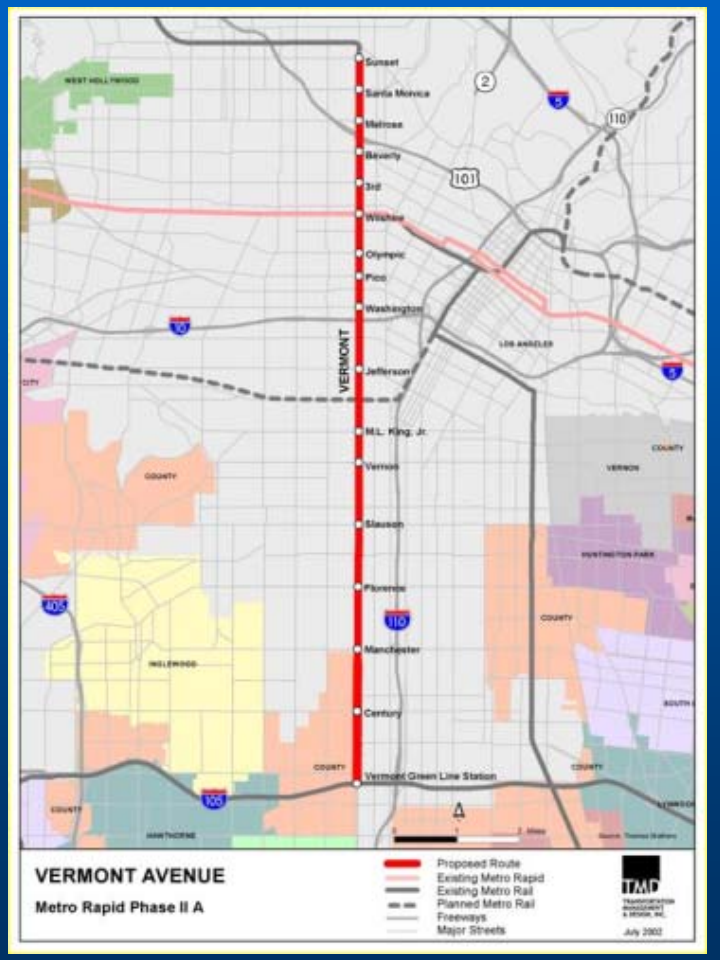
- Uses loops and transponders
- Reduces bus delay and assists in maintaining bus spacing

# Bus Signal Priority - Wireless



# Less Frequent Stops

- Local bus 0.2 miles
- Limited stop 0.3
- Metro Rapid 0.7
- Orange Line 1.0
- LRT 1.0
- HRT 1.2



# Program is a Success

## Reduced Passenger Travel Times

- Wilshire/Whittier Corridor – up to 29%
- Ventura Corridor – up to 29%
- Broadway Corridor – up to 24%
- Vermont Corridor – up to 27%

## Increased Corridor Ridership

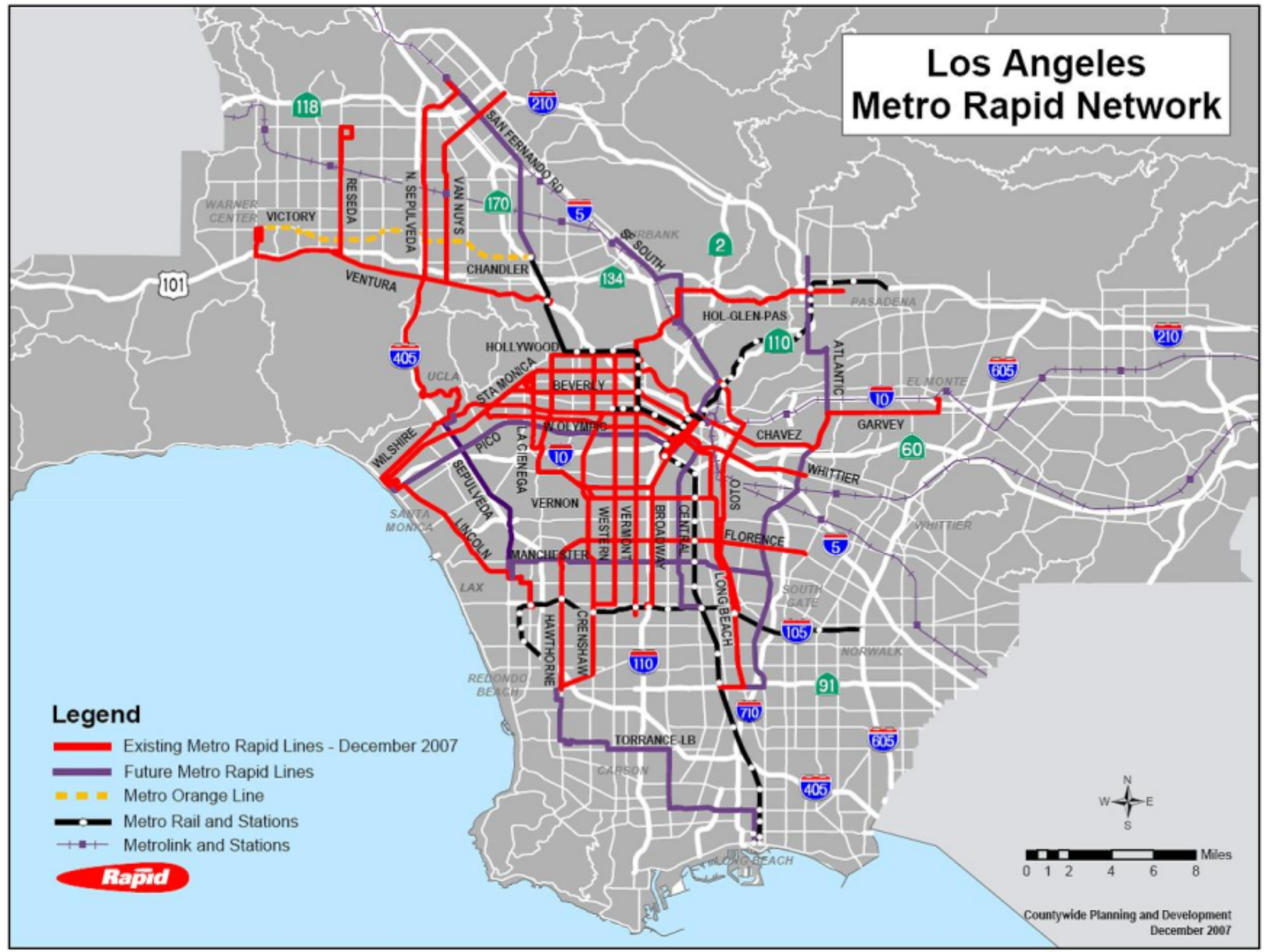
- Wilshire/Whittier Corridor – 49% increase
- Ventura Corridor – 45% increase
- Broadway – 17% increase
- Vermont – 4% increase

## Attracted New Riders

- 1/3 of ridership increase are new riders to public transit

# What's Next ?

- Expand Metro Rapid network
- Introduce additional attributes
  - High capacity buses
  - Exclusive bus lanes
  - All-door fare collection


Los Angeles
Metro Rapid Network
Legend
Existing Metro Rapid Lines - December 2007
Future Metro Rapid Lines
Metro Orange Line
Metro Rail and Stations
Metrolink and Stations
Rapid
Miles
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Countywide Planning and Development
December 2007
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RESEDA
N. SEPULVEDA
VAN NUYS
SAN FERNANDO RD
VENTURA
CHANDLER
SOUTH
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# Exclusive Lanes

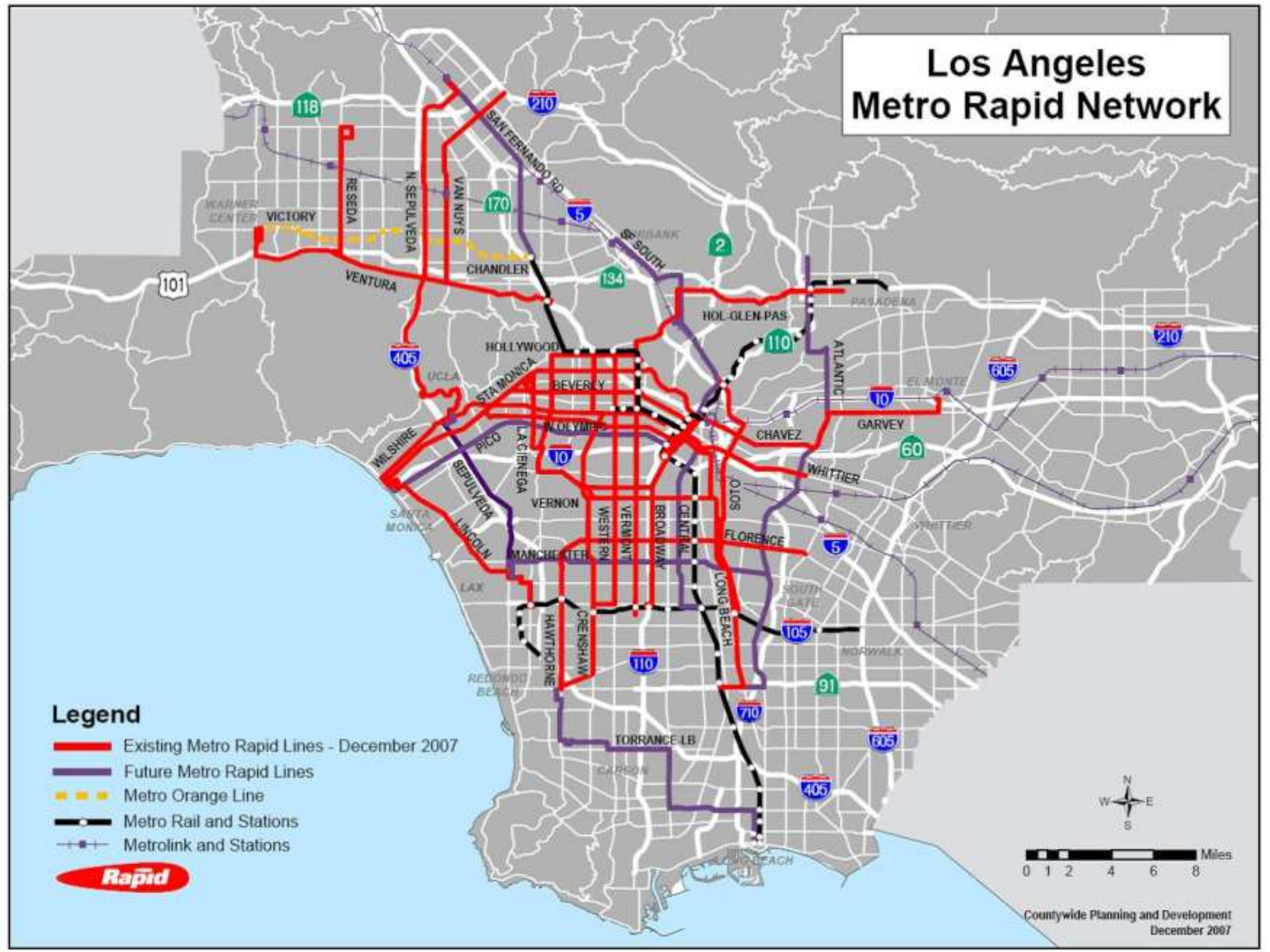
- Short segments where warranted
- Full-length exclusive transitways either on arterials or in separate rights-of-way

# Orange Line

LOS ANGELES

# Metro Orange Line

- October 28, 2005
- Over 83,000 people rode the line on opening day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Countywide Planning and Development
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# Grade Crossings

- 14 mile exclusive ROW
- 14 stations

- 6 park & ride lots
- 8 miles of bike lanes
- 80 acres of landscaping

# Pedestrian Crossings

**Four Pedestrian Crossings**

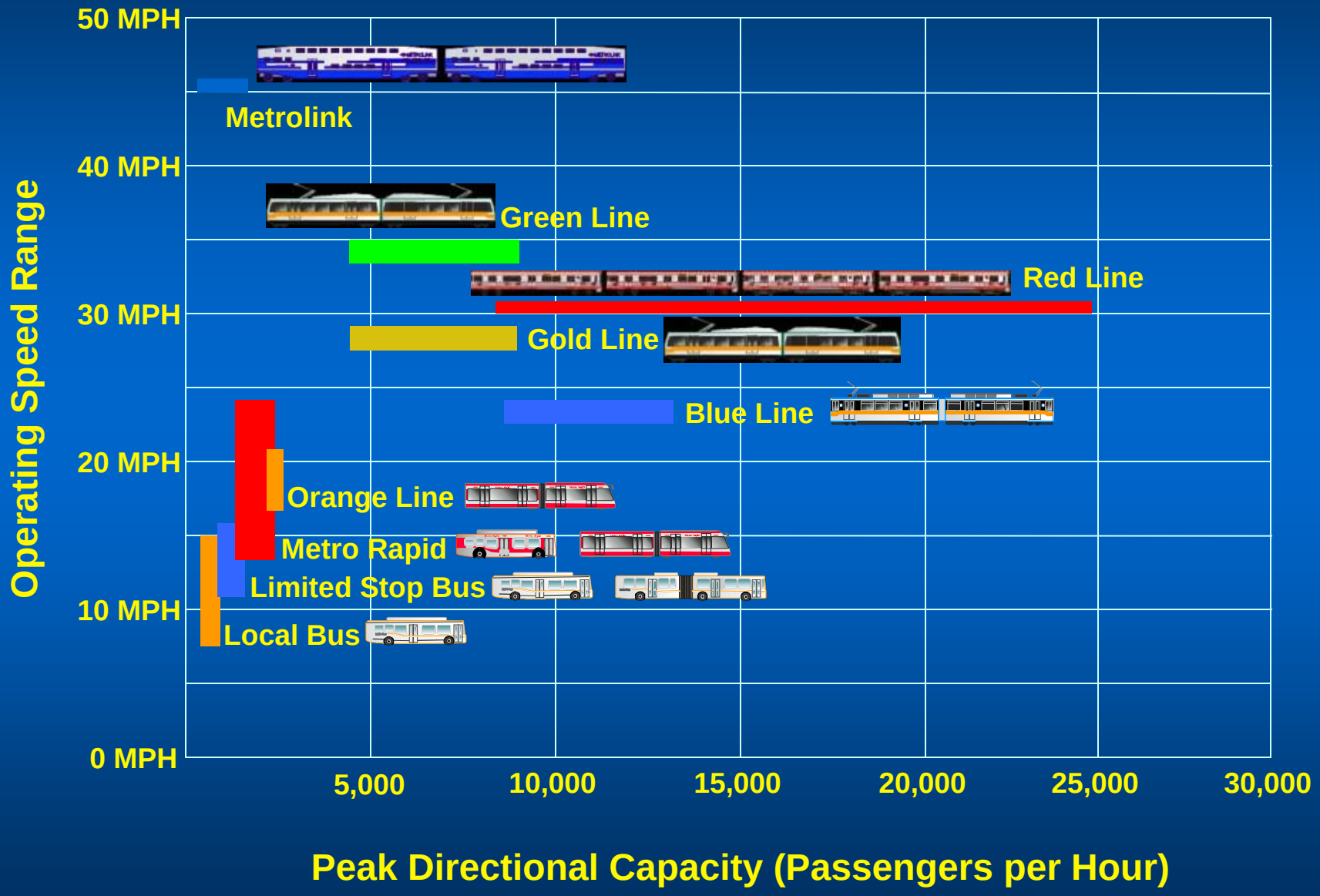
# Service Operations

- Same fares as Metro Rapid and local buses
- No on-board fare collection
- Next stop announcements, GPS vehicle tracking, passenger information displays, bus signal priority

# Orange Line is a Success

- 25,000 weekday boardings
- 1/3 of Orange Line customers are new riders to transit
- 77% of Metro customers who previously drove or carpooled indicated reduced travel times

# Los Angeles Mobility Toolbox



# Dare to be Simple