

Metro *Rapid*

LOS ANGELES

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
-
- The diagram consists of a list of 12 attributes. A yellow bracket on the right side groups the first eight items (1 through 8) under the label 'Primary Attributes'. A white bracket on the right side groups the remaining four items (9 through 12) under the label 'Expansion Attributes'.
- Primary Attributes
- Expansion Attributes

Metro Rapid Buses

- CNG, low-floor, 40-seat bus
- Special exterior image



Metro Rapid Station Refinement

- Lower, flatter canopy
- Smaller kiosk to fit on narrow sidewalks
- Added seats to integrated lean-bars
- Reduced power consumption



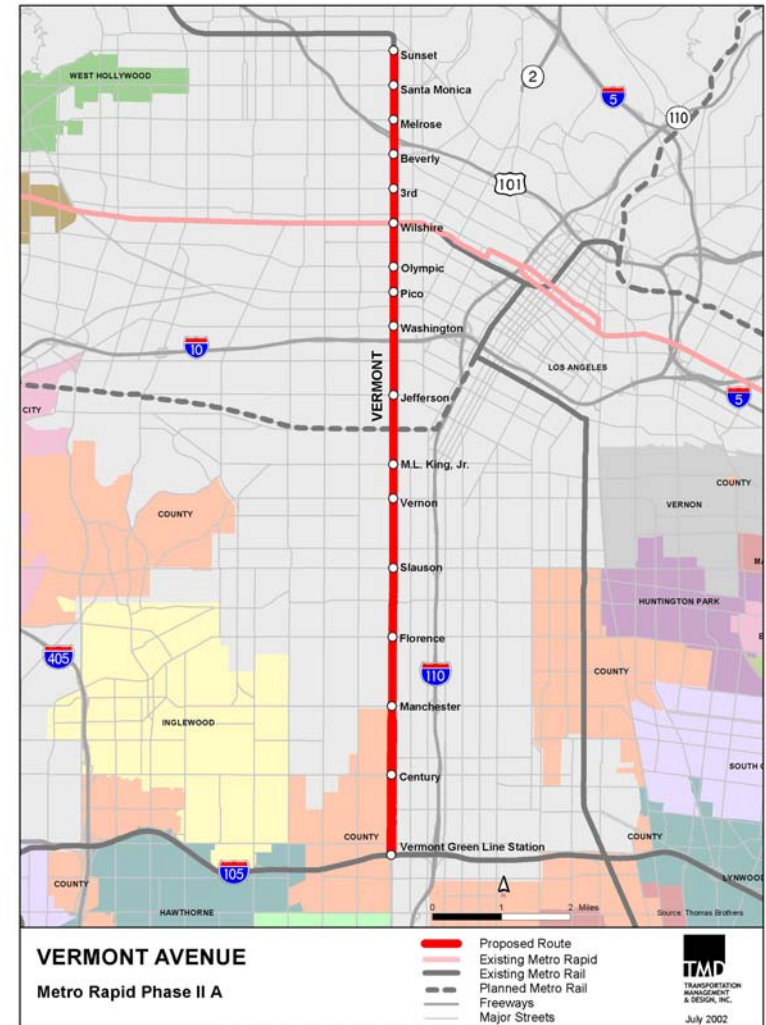
Metro Rapid Stations – Display

- Accurate to within one minute
- Displays “Next Bus Delayed” after 3 minute delay



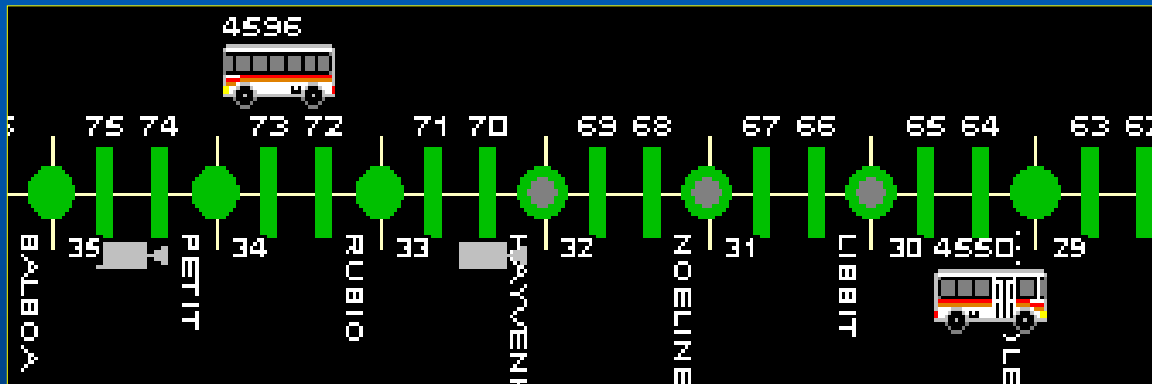
Station Spacing

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



Bus Signal Priority System

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



TPS PIS

PIS#: 43

BUS	ETA
7080	6
7104	7
5374	10
7048	21
NEXT BUS IN 6 MIN	

TPS Bus

Bus #:	7003	Tag #:	5303
Dir:	East	Time:	13:51:43
Agency:	MTA	Hdway:	4
Det #:	213	Late:	0

On-Bus Transponder



Transponder

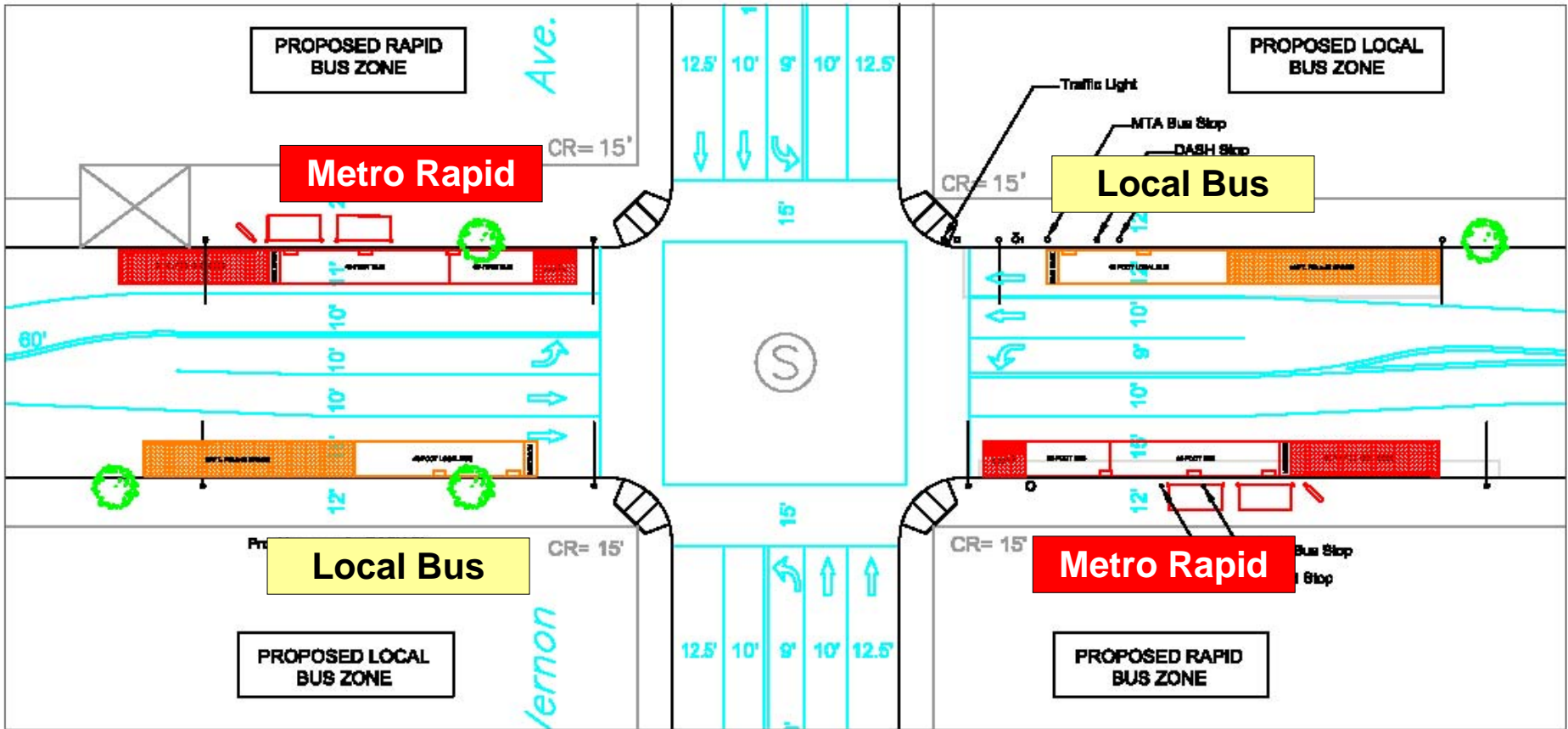
Loop Detector



Typical Station Locations

Vernon Ave.

NORTH



SB Rapid Bus

SB Local Bus

NB Rapid Bus

NB Local Bus



Program is a Success

Reduced Passenger Travel Times

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

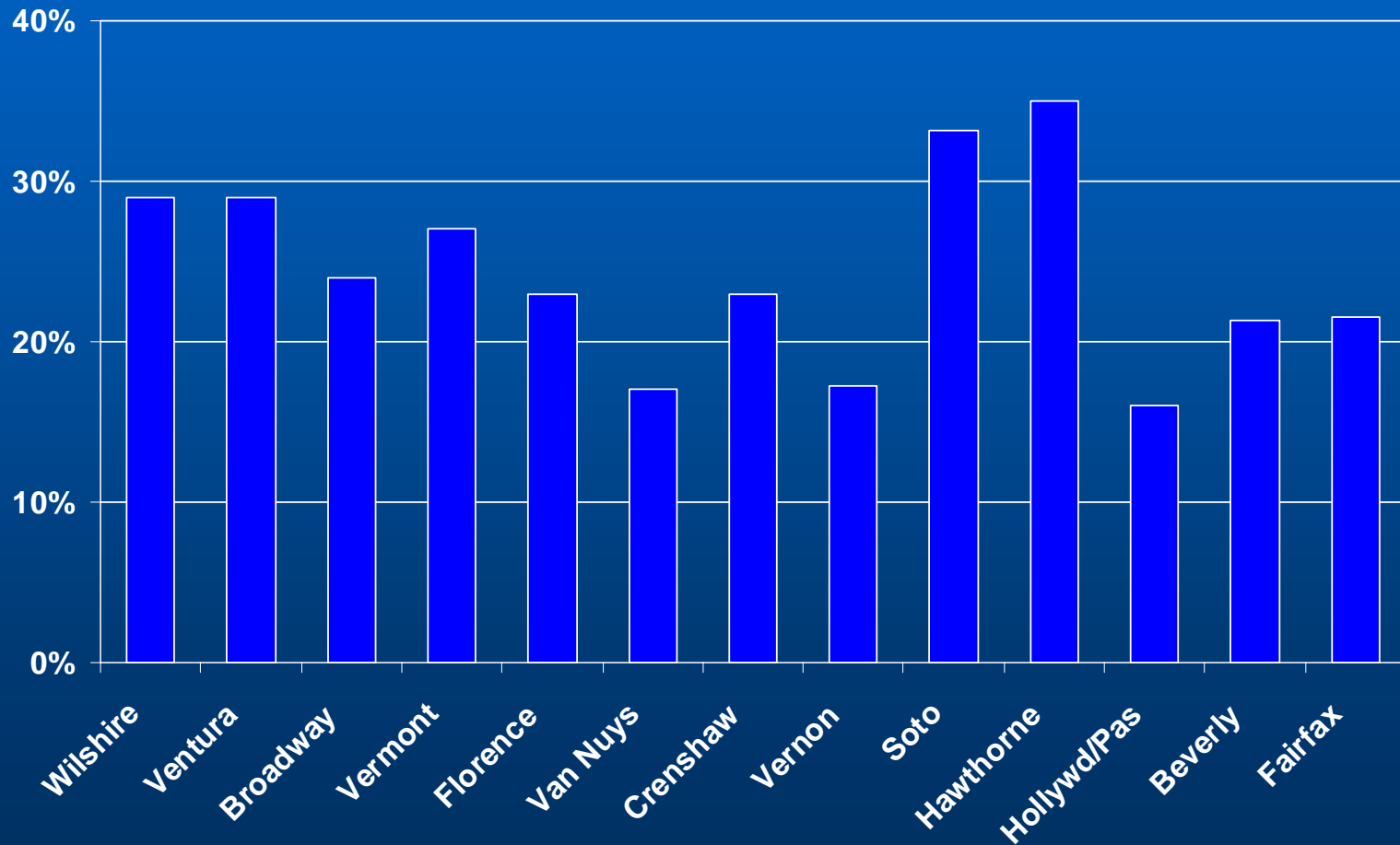
Increased Corridor Ridership

- Wilshire/Whittier Corridor – increased 47%
- Ventura Corridor – increased 45%
- Broadway – increased 4%
- Vermont – increased 7%

Attracted New Riders

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

Average Speed Improvement



What's Next ?

Expand Metro Rapid network

Introduce additional attributes

- High capacity buses
- Exclusive bus lanes
- Feeder network to Metro Rapid



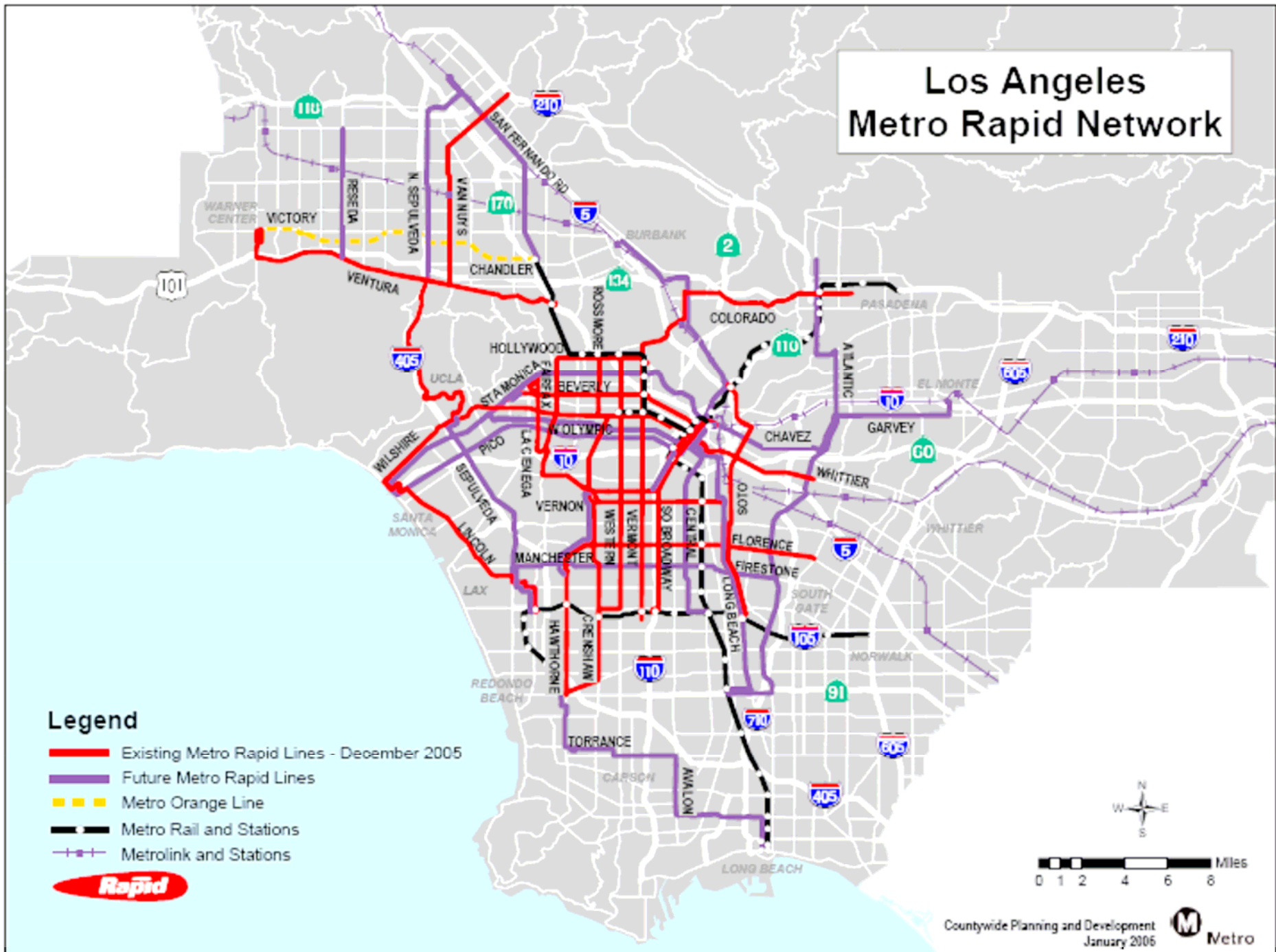
Expansion Program

1. Considered all MTA and Municipal Operator bus routes (250)
2. Identified regional corridors (36)
 - 500 boardings per route mile
 - 10 mile route length
3. Identified Metro Rapid Corridors (26)
 - Transit use
 - Transit potential
 - Transit dependence

Transit Use - Existing

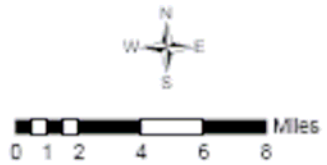
- Weekday ridership
- Passenger travel time
- Percent of weekday riders retained on weekends
- Average passenger trip length
- Weekday passengers per revenue hour
- Weekday seat utilization

Los Angeles Metro Rapid Network

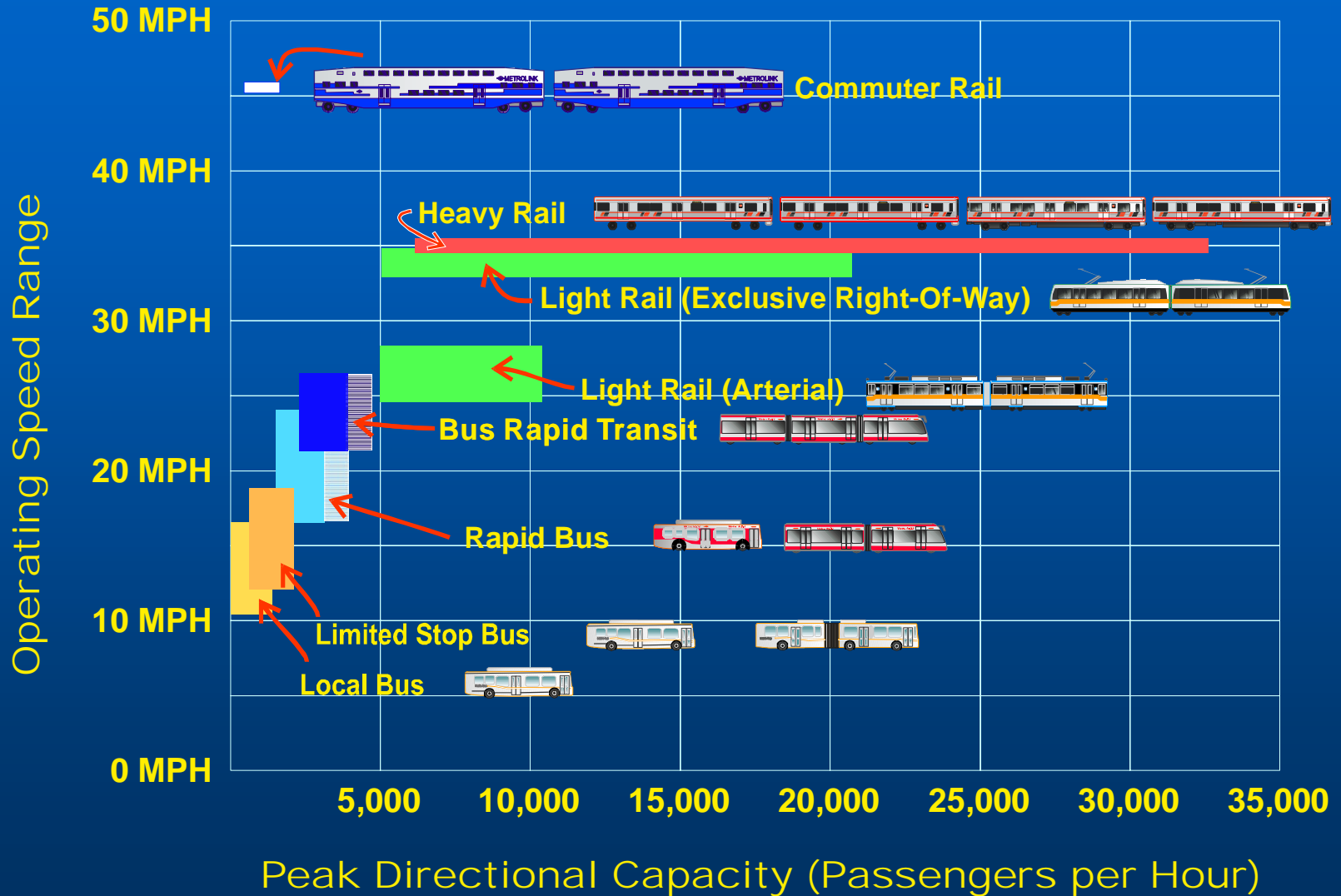


Legend

- Existing Metro Rapid Lines - December 2005
- Future Metro Rapid Lines
- Metro Orange Line
- Metro Rail and Stations
- Metrolink and Stations



Los Angeles Mobility Toolbox



Dare to be Simple

