2018 Long-Range Transportation Plan
Draft Overview

OCTA

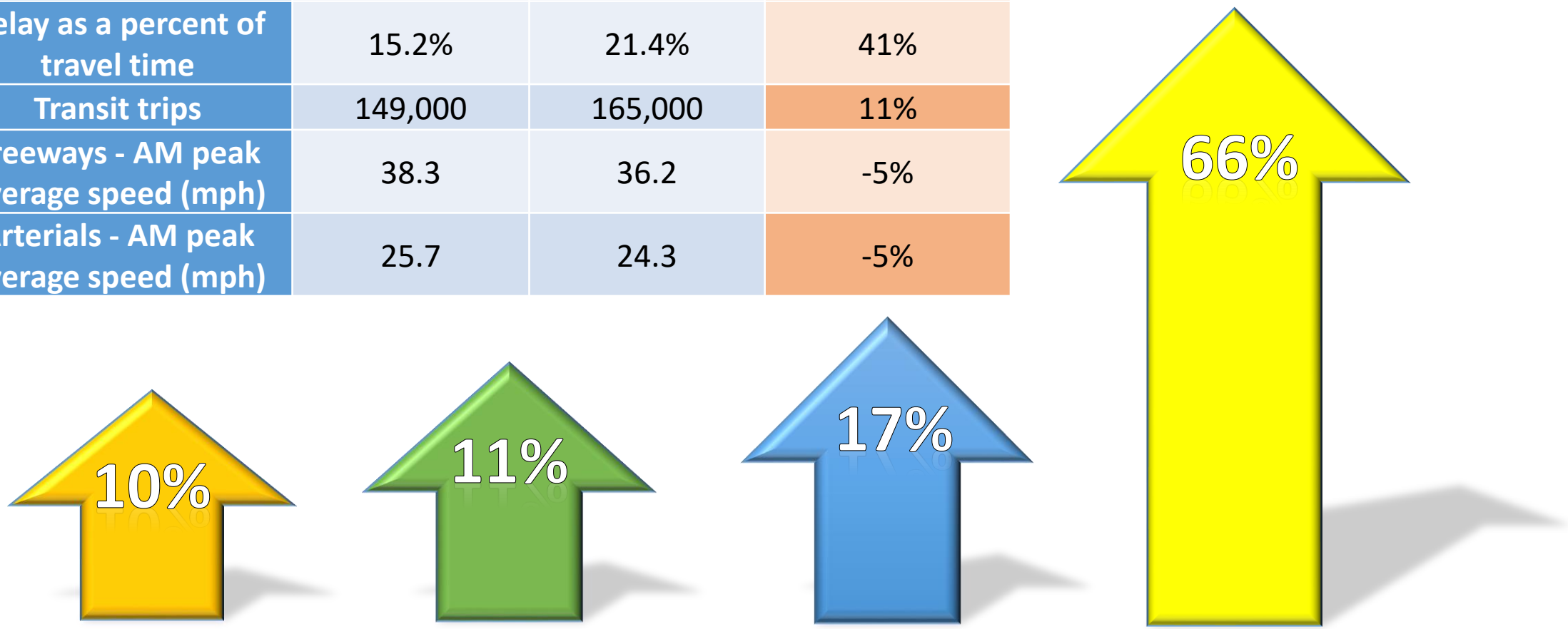
Key Issues for 2018 LRTP

- Growing traffic and limited land
- Changing travel demand and patterns
  - High cost of housing
  - Evolving transit market
  - Disruptive technologies and services
- Transportation funding uncertainties
- Challenging emission standards

LRTP – Long-Range Transportation Plan

Growing Traffic and Limited Land

Metrics (daily)	2015 Base Year	2040 Baseline	% Change
Total hours of delay from congestion	330,619	547,996	66%
Delay as a percent of travel time	15.2%	21.4%	41%
Transit trips	149,000	165,000	11%
Freeways - AM peak average speed (mph)	38.3	36.2	-5%
Arterials - AM peak average speed (mph)	25.7	24.3	-5%



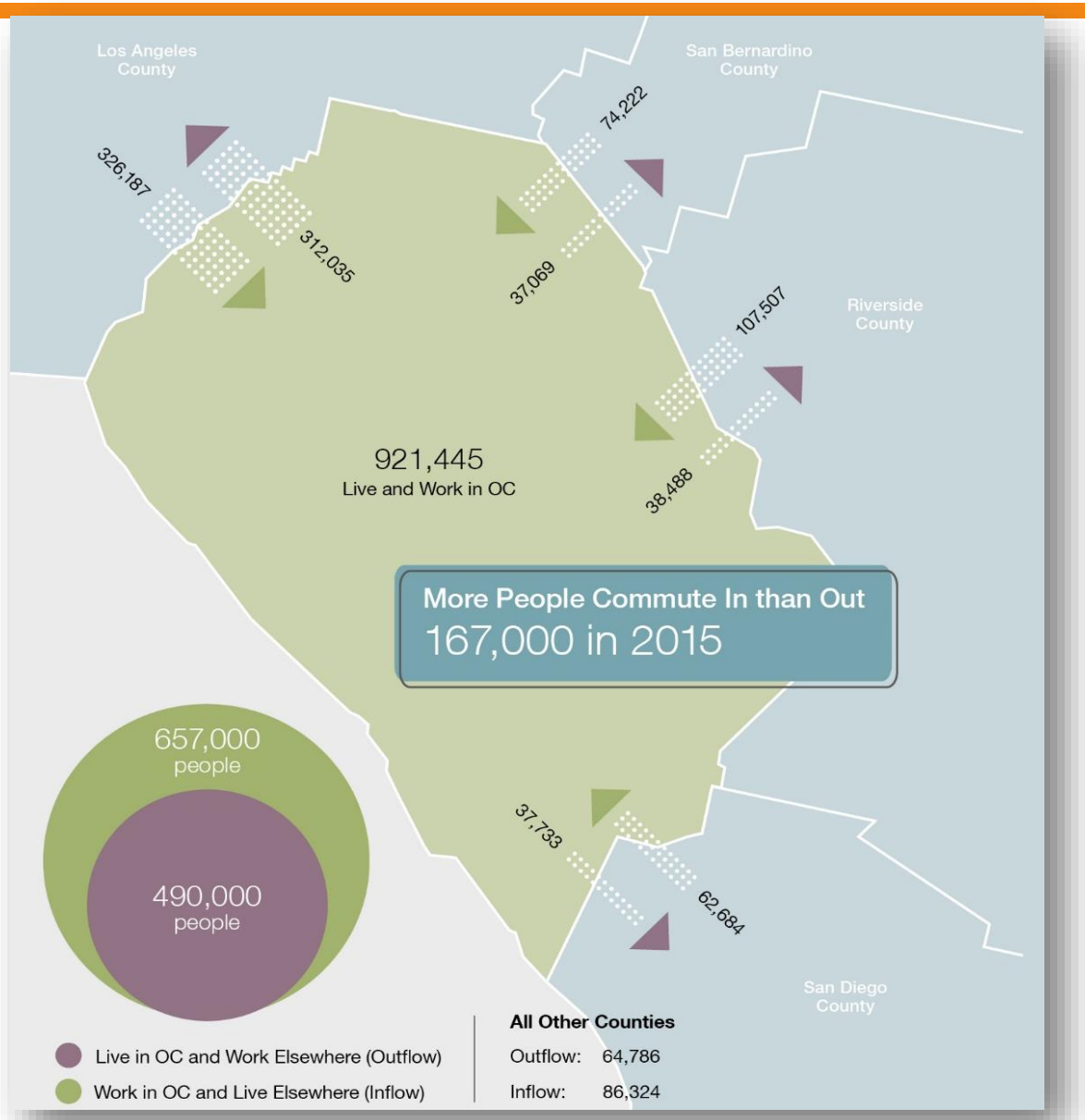
mph – miles per hour

Changing Travel Demand and Patterns

Intercounty Travel Demand

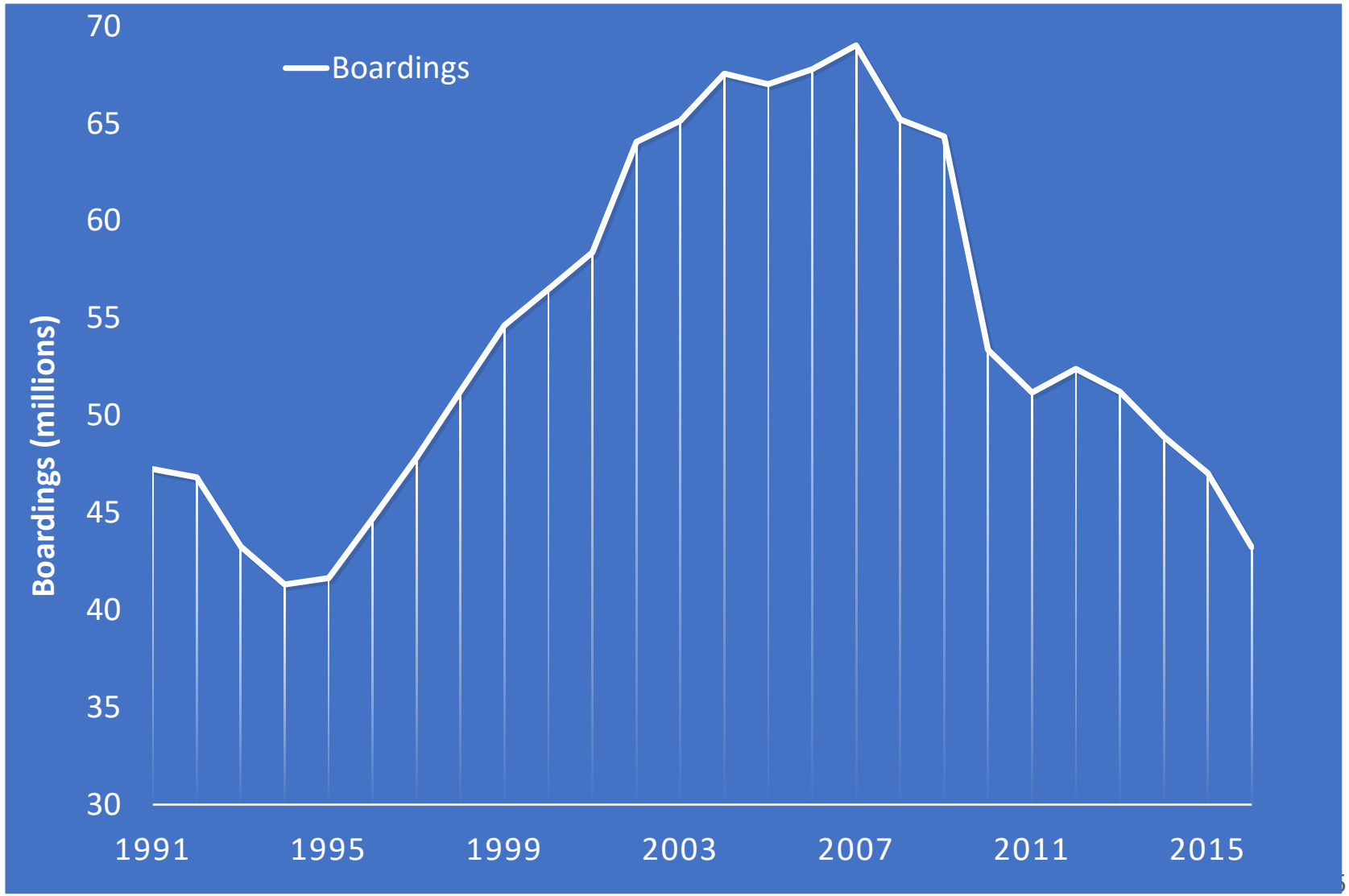
~650,000 daily work-commutes into Orange County

- By 2040, in-bound commutes will increase 25 percent
  - Employment growth + high-cost of housing
- Accessibility to jobs is critical to Orange County's economy and quality of life



Changing Travel Demand and Patterns (continued)

Orange County bus boardings have declined since the “Great Recession”



Changing Travel Demand and Patterns (continued)

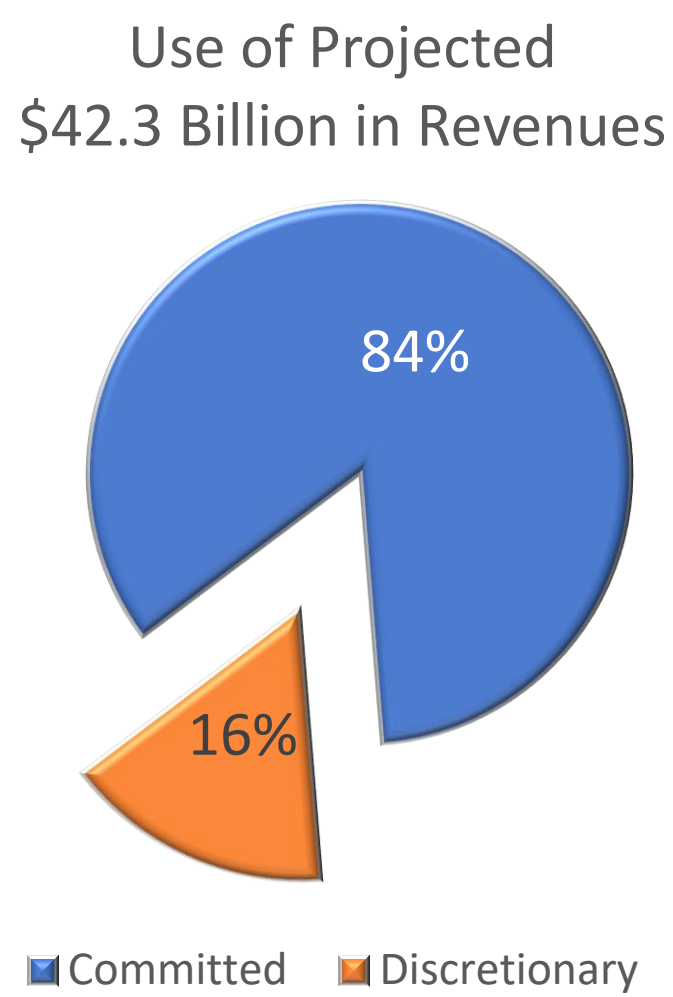
Impact of Technologies

- Autonomous/connected vehicles
- Transportation network companies (Lyft/Uber)
- Shared mobility
- Real-time travel information
- Electric vehicles and charging

Trend 2040

Summary of expenditures

- Measure M2 projects and programs
- Additional freeway/roadway projects within available right-of-way
- OC Bikeways network buildout
- OC Bus 360° and OC Transit Vision
- Enhanced Metrolink service
- Operations and maintenance



Highway Improvements

- 2015 lane miles:

  1,698

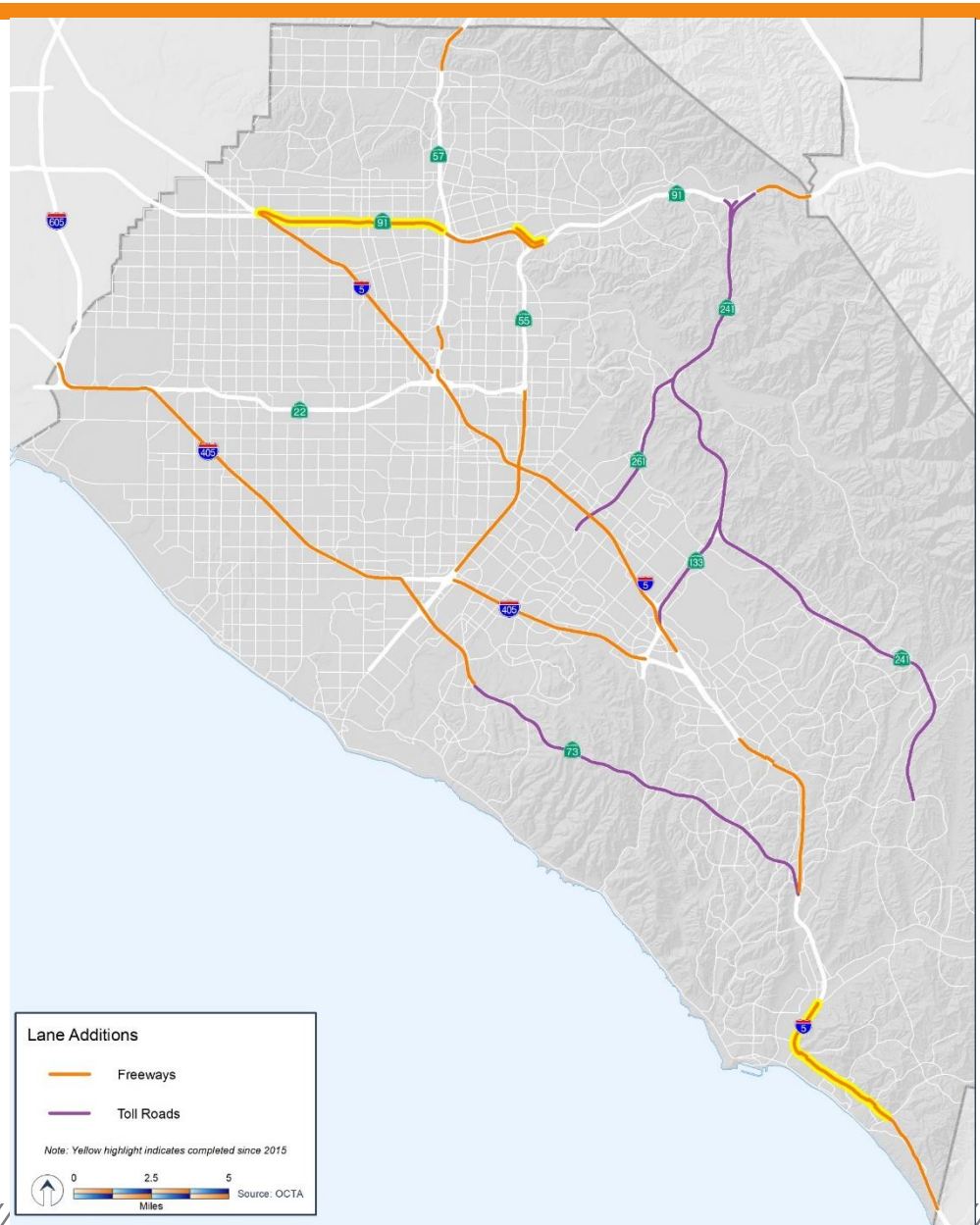
- Additional lane miles by 2040:

Route	Regular Lane Miles	Carpool Lane Miles	Express Toll Lane Miles
I-5	42	42	
I-405	48		32
SR-55	14	11	
SR-57	2		
SR-73		8	
SR-91	15		
Total	**121**	**61**	**32**

The Toll Roads lane additions

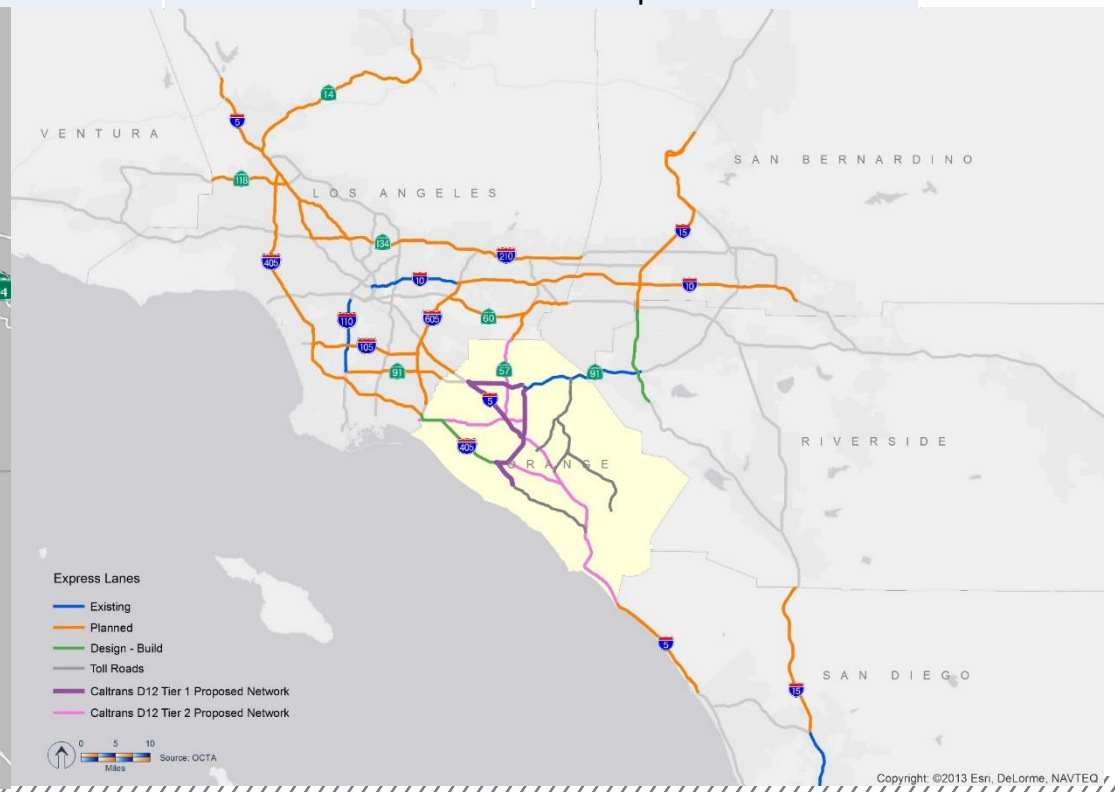
up to **150** lane miles on existing corridors

I-5 – Interstate 5
I-405 – Interstate 405
SR-55 – State Route 55
SR-57 – State Route 57
SR-73 – State Route 73
SR-91 – State Route 91



Managed Lane Conundrum

Trend 2040 Managed Lane Scenarios			
Metrics	**HOV 2+**	**HOV 3+**	**Express Toll**
Meets federal performance standard	✗	✓	✓
Managed lane capacity used during morning drive time	70%	30%	60%
Findings Summary	Does not meet federal standard due to overuse.	Meets federal standard, but underused.	Meets federal standard and doubles use compared to HOV 3+



HOV – high-occupancy vehicle

Street Improvements

- 2015 lane miles:

  6,377

- Additional lane miles by 2040:

  651

- Synchronized intersections:

  2,000+

13% reduction in travel time

15% improvement in travel speed

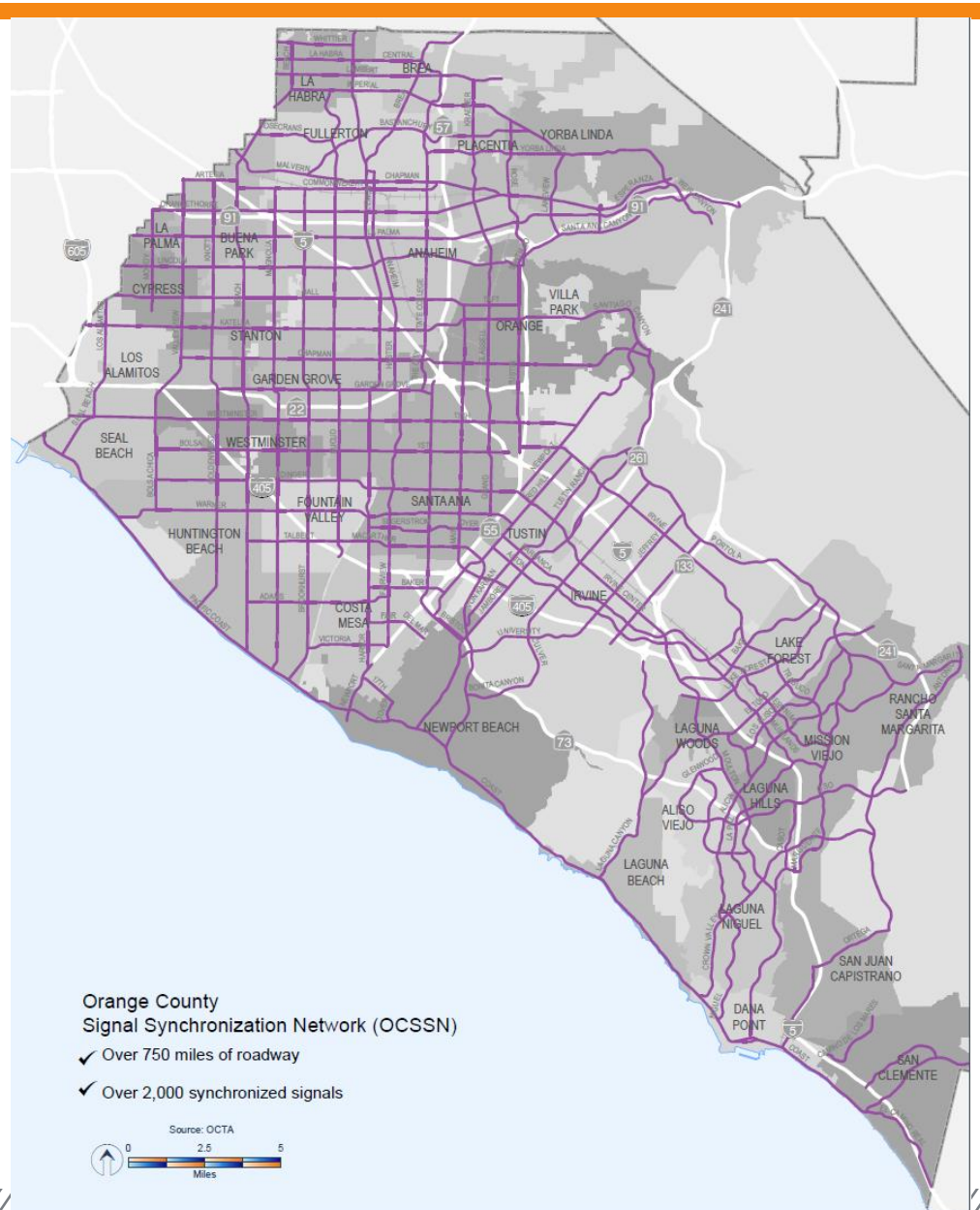
20% better travel experience with reduced travel times, stops and delays allow more time spent with family and friends

OC SYNC

36 million gallons in fuel consumption use reductions*

728 million pounds in greenhouse gas reductions

$70.47 million dollars spent on signal synch since 2010



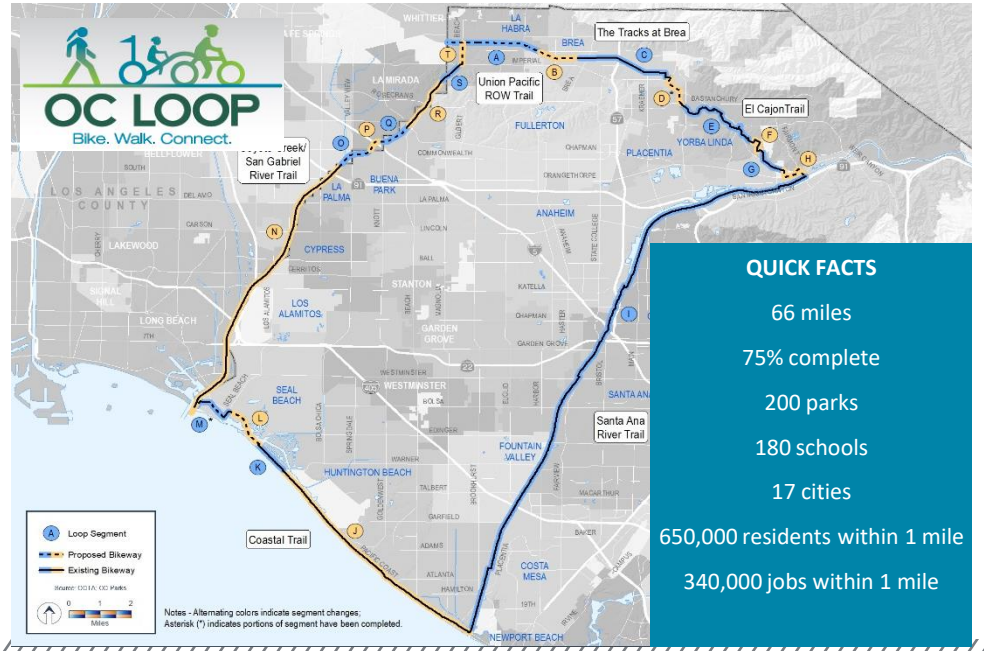
Active Transportation Improvements

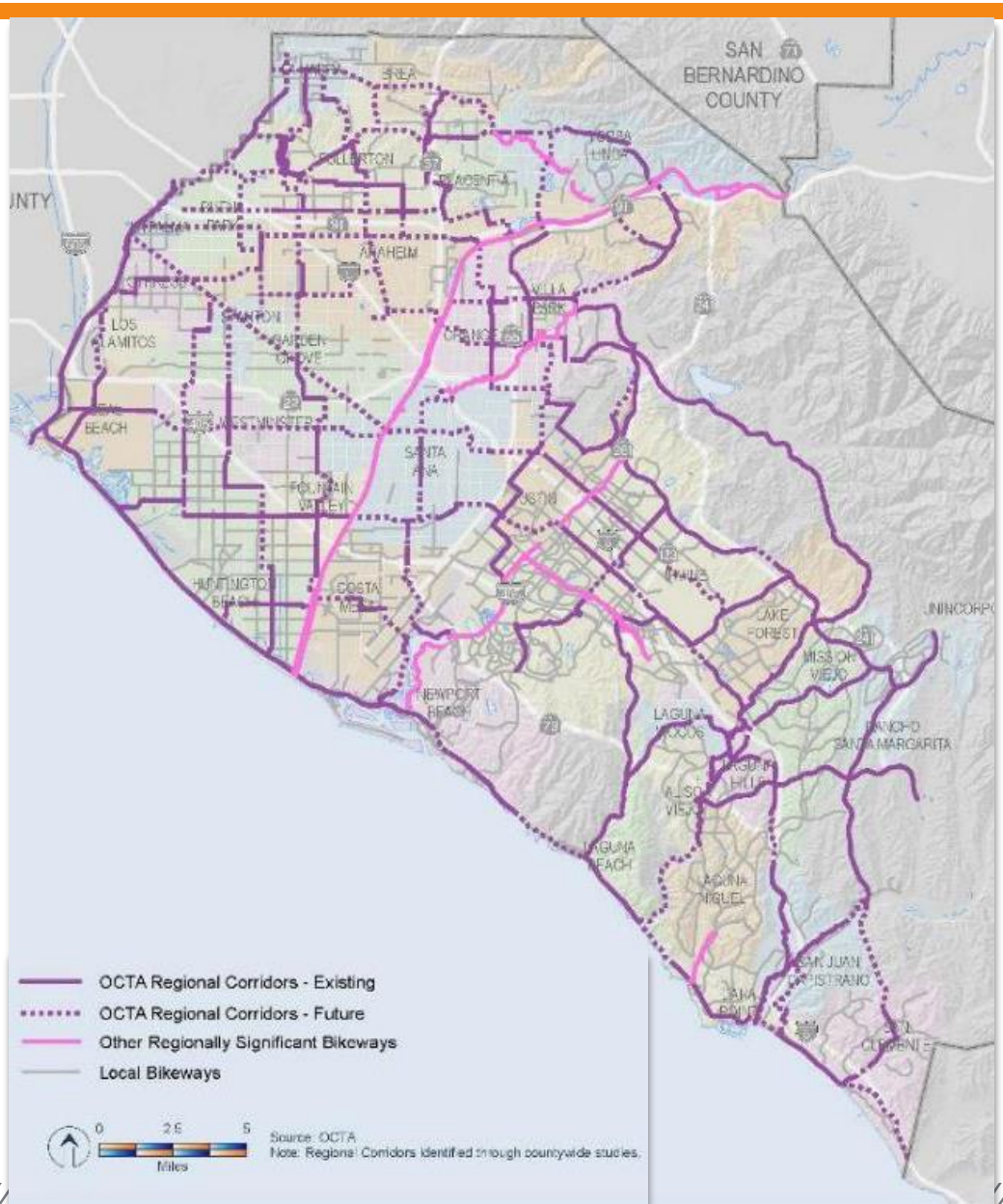
- 2015 miles of bikeways:

  1,130

- Additional miles of bikeways by 2040:

  +655





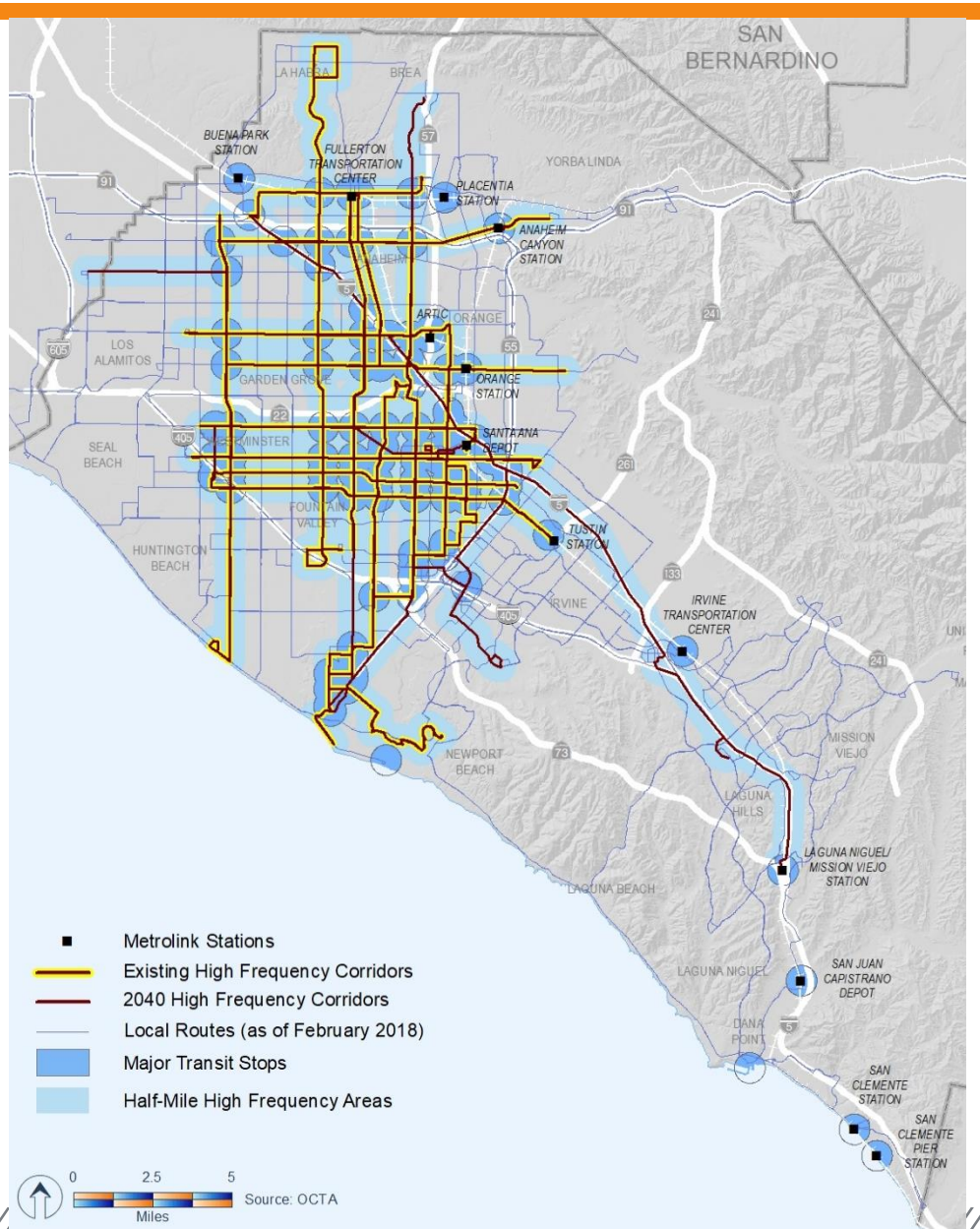
Transit Improvements

- 2015 hours of service:

  1.6 million

- Additional service hours by 2040:

  +480,000



Metrolink Improvements

- 2015 daily trains:

OC Line	IE/OC Line	91 Line
29	16	9

- Additional daily trains by 2040:

OC Line	IE/OC Line	91 Line
+6	+12	+14

TIER 4 LOCOMOTIVE | CLEAN POWER

METROLINK PROUDLY INTRODUCES THE NEW, INDUSTRY-LEADING TIER 4 LOCOMOTIVE.

IE – Inland Empire
OC – Orange County

Trend 2040 - Results

Metrics (daily)	2015 Base Year	2040 No Build	Trend 2040*
Delay as a percent of travel time	15.2%	21.4%	15.5%
Transit trips	149,000	165,000	174,000
Freeways - AM peak average speed (mph)	38.3	36.2	39.5
Managed lanes – AM peak capacity utilization	77%	83%	60%
Arterials - AM peak average speed (mph)	25.7	24.3	25.8

***Trend 2040 assumes managed lanes are operated as tolled express lanes**

Trend 2040 Achievements

Growing Traffic and Limited Land

- Expands facilities with minimal ROW impacts
- Improves efficiency of highways and roadways
  - Eliminates bottlenecks
  - Synchronizes signals
  - Provides express lane options
- Supports alternatives to driving alone

Changing Travel Demand and Patterns

- Supports access to Orange County jobs
- Focuses transit service on high-demand corridors
- Coordinate with public and private sectors to address emerging technologies and policies

Funding Uncertainties

- Prioritizes Measure M projects and programs
- Implements cost-effective transit services
- Includes projects in line with competitive funding goals
  - Active transportation
  - High-quality transit
  - Managed lanes

Challenging Emission Standards

- Reduces delay on freeways and roadways
- Expands system choices
  - Increases transit services
  - Builds out bikeways
  - Adds managed lanes
- Zero-emission bus fleet and Tier 4 locomotives

ROW – Right-of-way

Short-Term Action Plan

Orange County Planning Activities
Coordination with Local Partner Agencies
South Orange County Mobility
Corridor Studies and Improvements
OC Transit Vision Feasibility Studies
Transit Support Services
Managed Lane Studies
Freeway Chokepoints
Signal Synchronization
Transportation Demand Management
Active Transportation Investments
Sustainable Transportation Strategies
Joint Development Studies
Asset Management

Regional Planning Activities
Coordination with Regional Partner Agencies
Trade Corridors/Goods Movement
2020 RTP/SCS
2028 Olympics
Metro Countywide Express Lanes Strategic Plan
San Diego's I-5 Toll Lane Project
West Santa Ana Branch/ Pacific Electric ROW
Gold Line Eastern Extension – Phase 2
LOSSAN/Green Line Connection

Emerging Issues
Monitor New Technology
Connected Infrastructure Needs Assessment
State and Federal Regulation
State and Federal Funding

Transportation Outreach and Education
Active Transportation Safety
Transit Use and Trip Planning

RTP/SCS – Regional Transportation Plan/Sustainability Communities Strategy
I-5 – Interstate 5
LOSSAN – Los Angeles-San Diego-San Luis Obispo Rail Corridor

LRTP Outreach To-Date

- 11,000+ public survey responses
- Engagement with OCTA stakeholders:
  - Citizens Advisory Committee
  - Special Needs Advisory Committee
  - Diverse Community Leaders Committee
  - Teen Council
- Elected Officials Workshops
- Transportation Planning Directors Forums
- OCTA Board/Committee presentations
- OCTA Board Workshop: Managed Lanes
- Thought-leader interviews
- Focus group interviews
- Engagement with partner agencies and interest groups

OCTA – Orange County Transportation Authority
Board – Board of Directors

Next Steps

Summer 2018

- Public Outreach
  - 40-day public review period
  - Online survey
  - Community events/pop-ups
  - City and stakeholder outreach
  - Telephone town hall
  - Open house

Fall 2018

- Finalize 2018 LRTP