CONTRA COSTA
transportation
authority

Corridor Partnerships

CONTRA COSTA transportation authority

San Ramon

ALAMO

Caltrans

Concord

DANVILLE

MT

511 CONTRA COSTA

Wheels

CITY OF PLEASANT HILL

BART

County Connection

BISHOP RANCH

CITY OF WALNUT CREEK

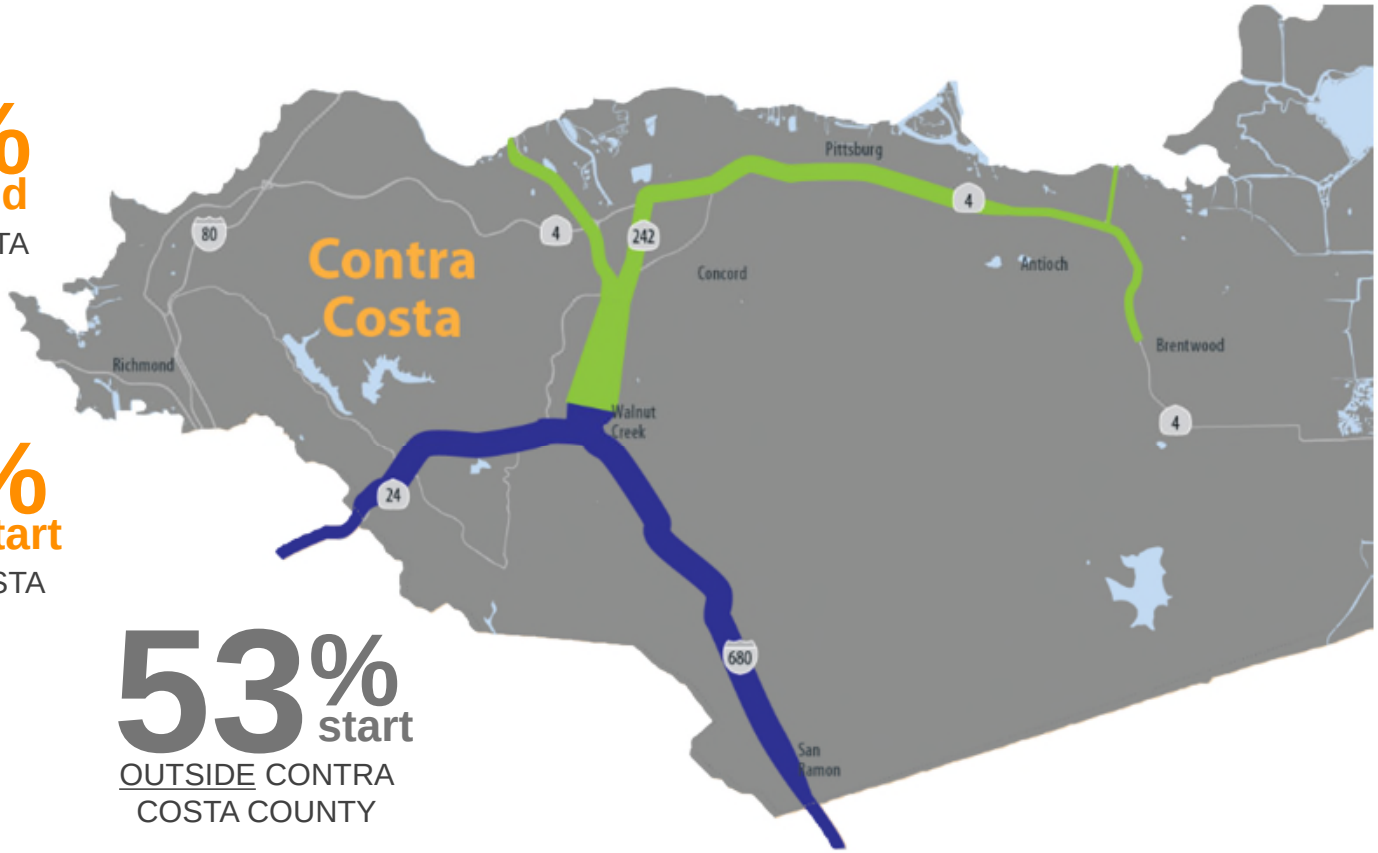
CITY OF MARTINEZ

I-680 Northbound PM Destinations

80% end
IN CONTRA COSTA COUNTY

47% start
IN CONTRA COSTA COUNTY

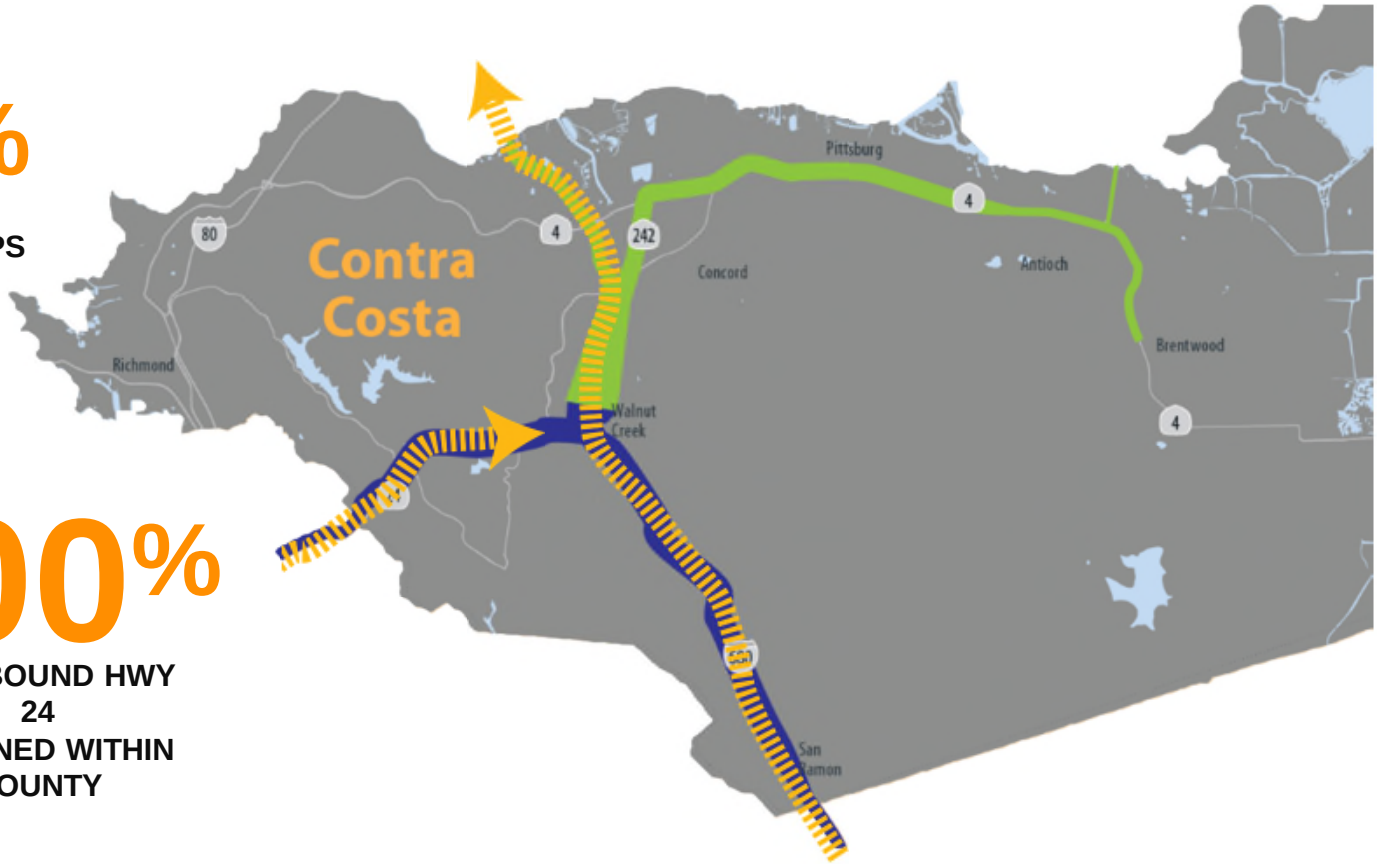
53% start
OUTSIDE CONTRA COSTA COUNTY



** Source: Fehr & Peers*

I-680 Northbound PM Destinations

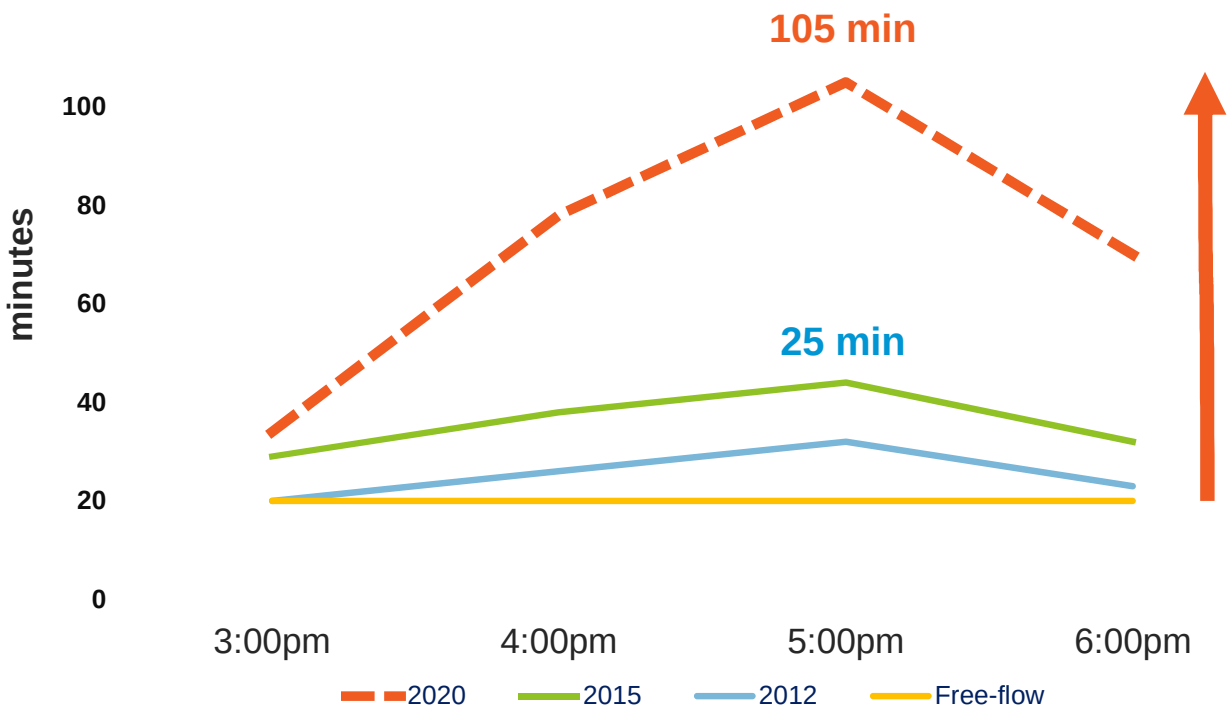
13%
THROUGH TRIPS



100%
EASTBOUND HWY 24 DESTINED WITHIN COUNTY

** Source: Fehr & Peers*

The Problem



Existing **20-minute** delay is projected to **quadruple**.

High-impact, low-cost solutions must be implemented today to ease congestion and smooth traffic flows on I-680

Key 680 Capital Improvements

Southbound Express Lanes
between Benicia Bridge and Walnut Creek (Opening 2020)

Express Lanes
between Walnut Creek and San Ramon (Opening 2017)

Auxiliary Lanes
completed through Danville and San Ramon (2007, 2015)

Our Integrated Approach

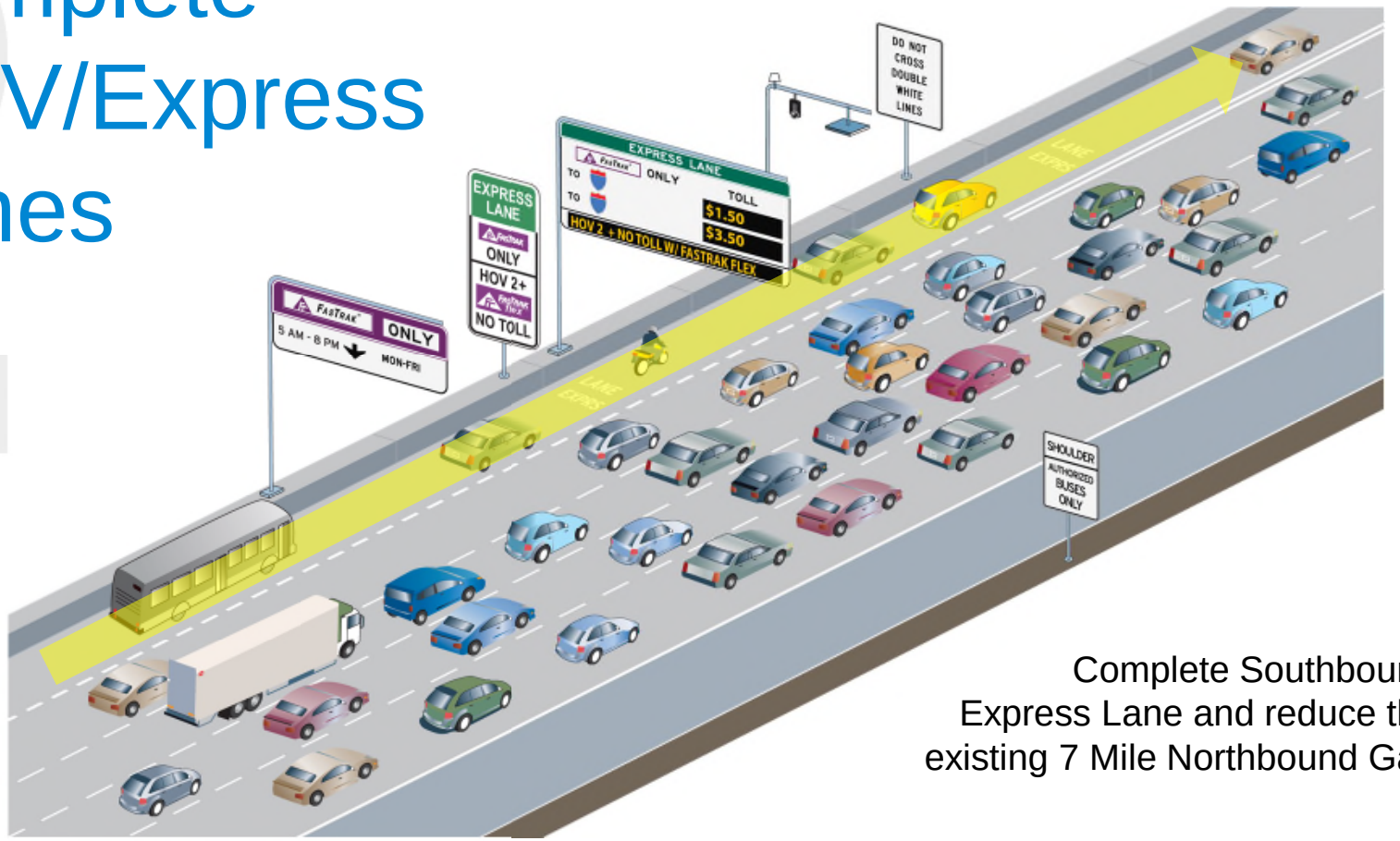
Innovate 680

Seven Strategies

1. Cool Corridor “Hot Spots”
2. Complete HOV/Express Lanes
3. Increase Bus Service Efficiency
4. Innovative Operational Strategies
5. Prepare the Corridor for the Future
6. First Mile & Last Mile Connections
7. Transportation Demand Management

Cool Corridor “Hot Spots”

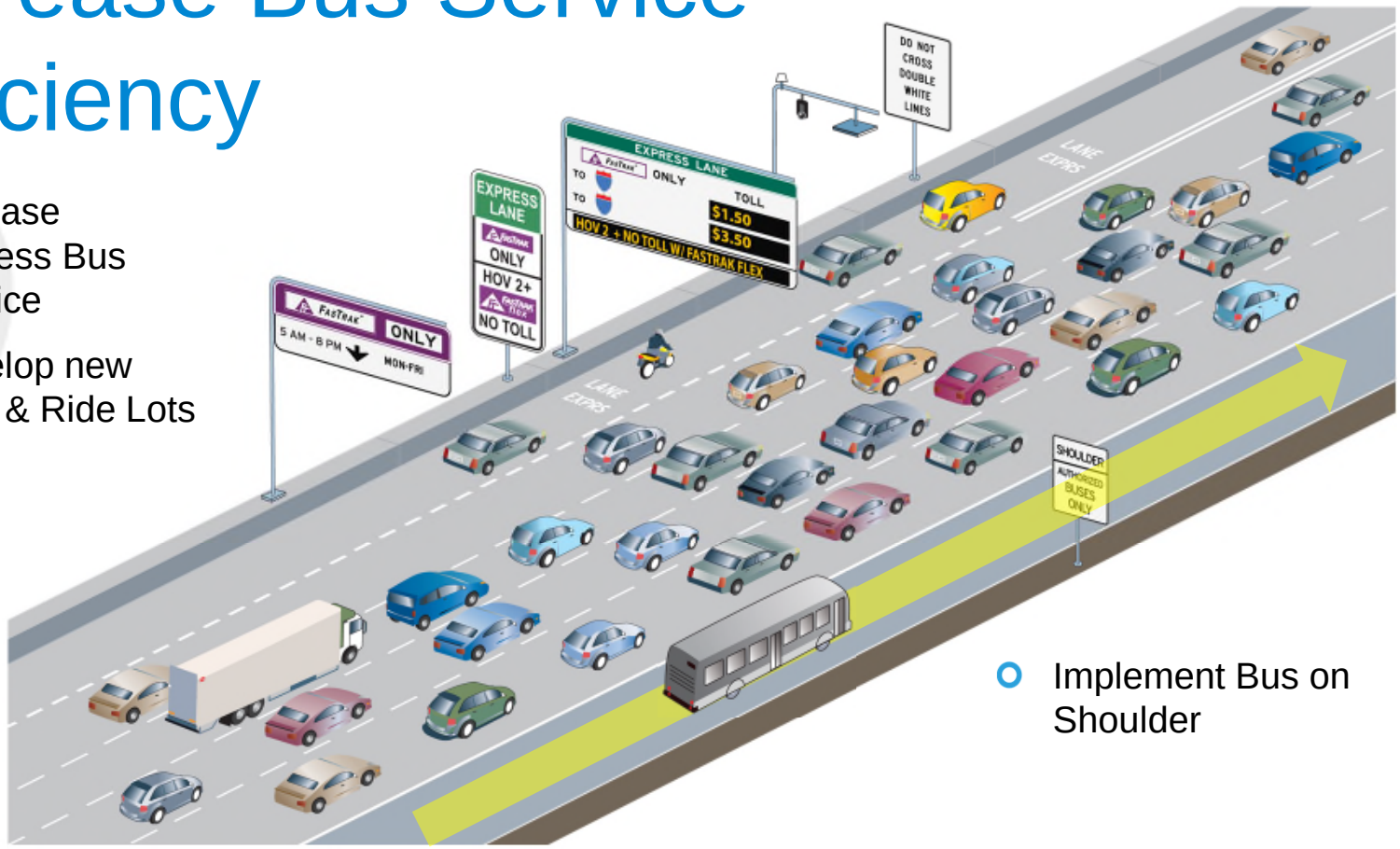
Complete HOV/Express Lanes



Complete Southbound Express Lane and reduce the existing 7 Mile Northbound Gap

Increase Bus Service Efficiency

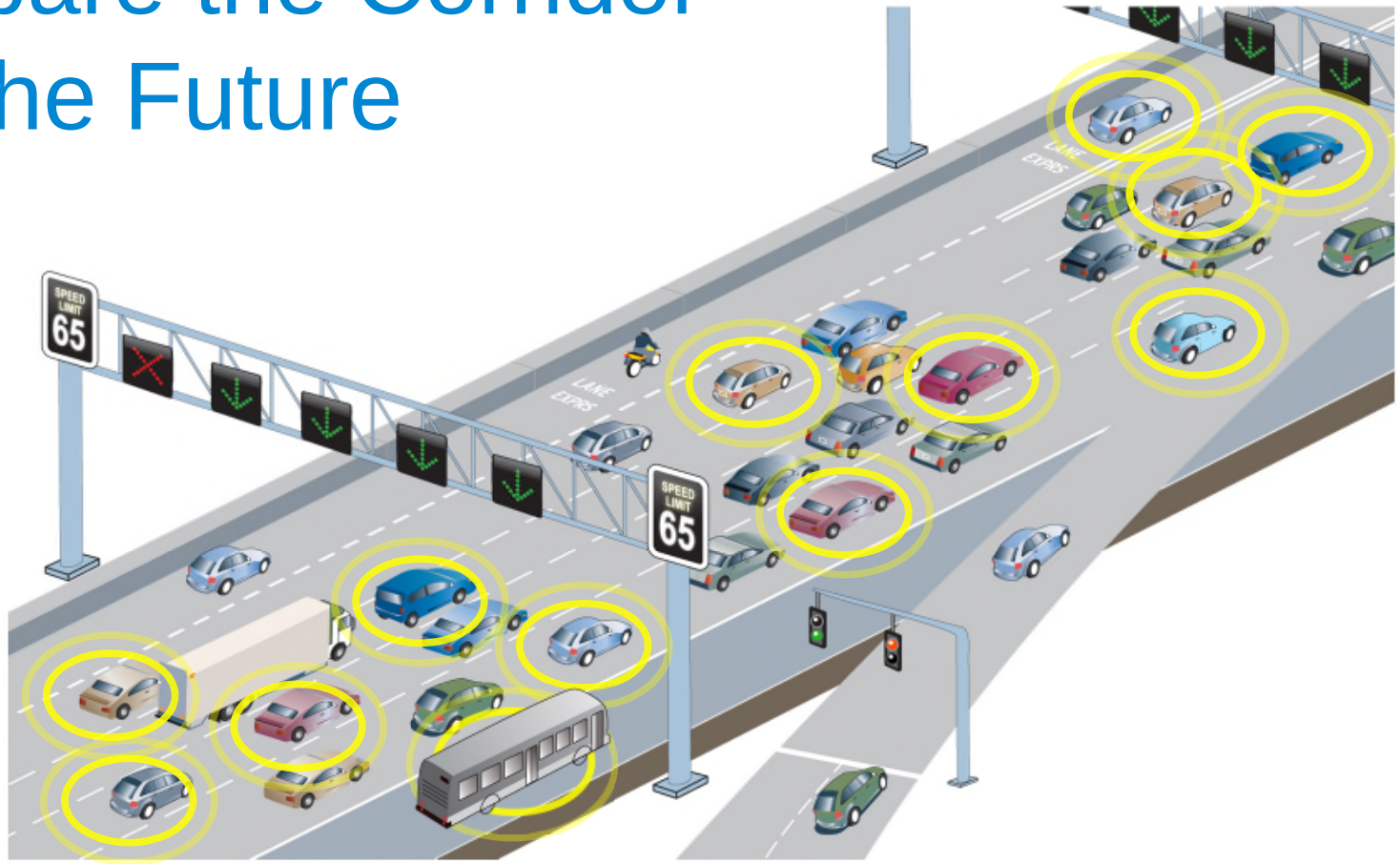
- Increase Express Bus Service
- Develop new Park & Ride Lots



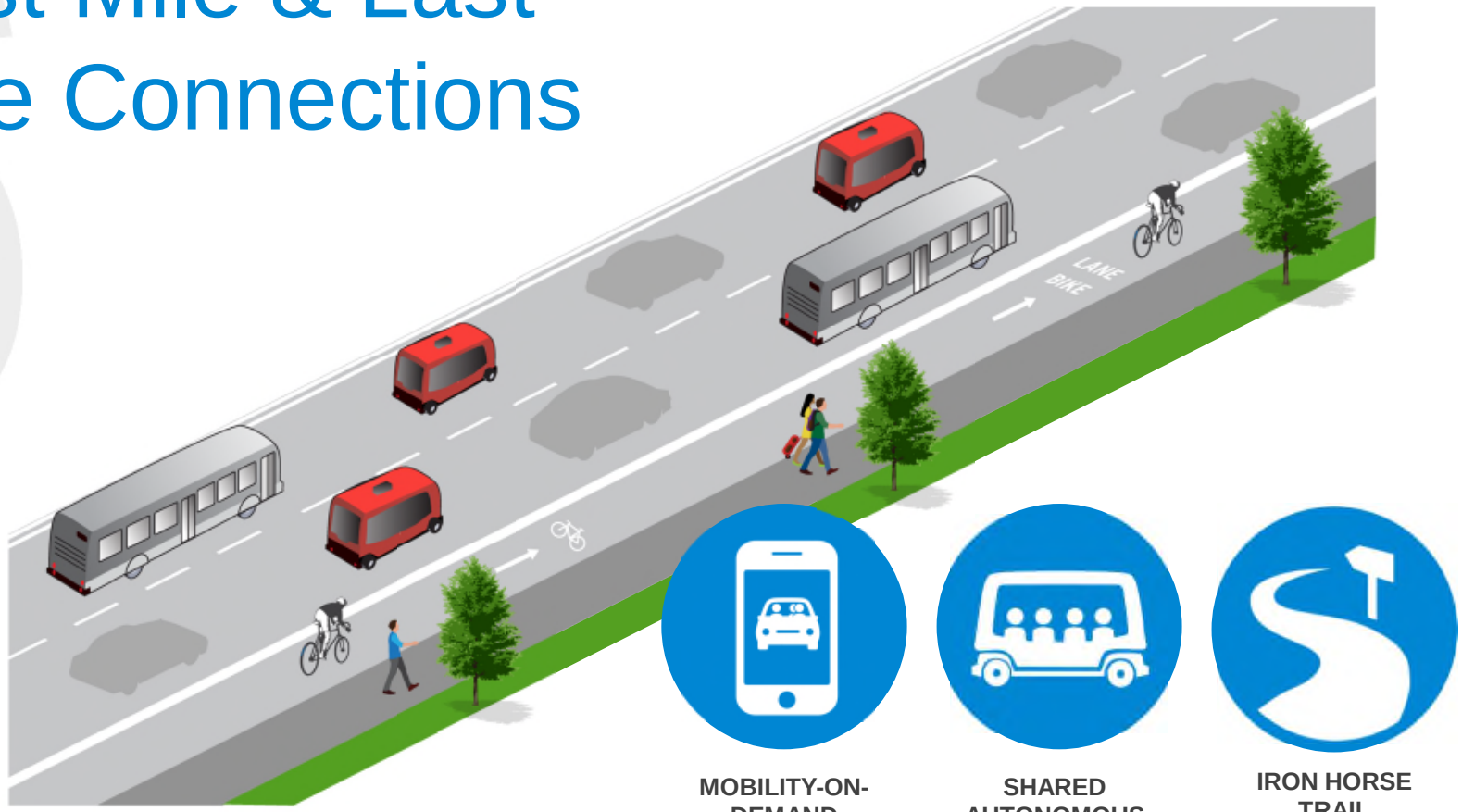
- Implement Bus on Shoulder

Innovative Operational Strategies

Prepare the Corridor for the Future



First Mile & Last Mile Connections



MOBILITY-ON-DEMAND

SHARED AUTONOMOUS VEHICLE

IRON HORSE TRAIL

Transportation Demand Management

SHARED MOBILITY

CARPOOL

ELECTRIC VEHICLES

STUDENT TRANSIT

BICYCLES

PEDESTRIANS

TRAVEL TIME

REAL-TIME SCHEDULING

PRICING

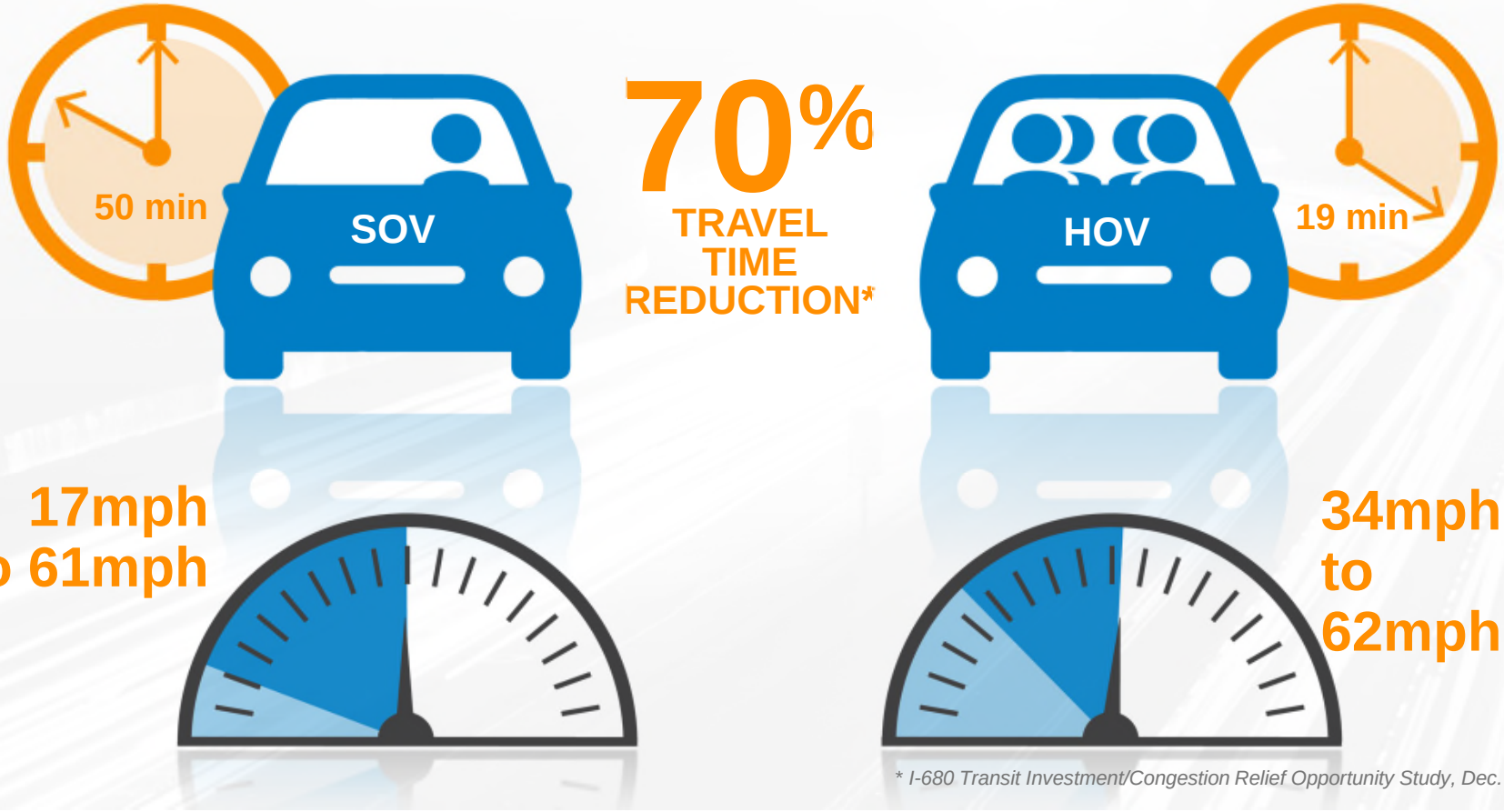
ON-DEMAND TRAVEL REQUEST

SPEED

INCIDENTS

Benefits

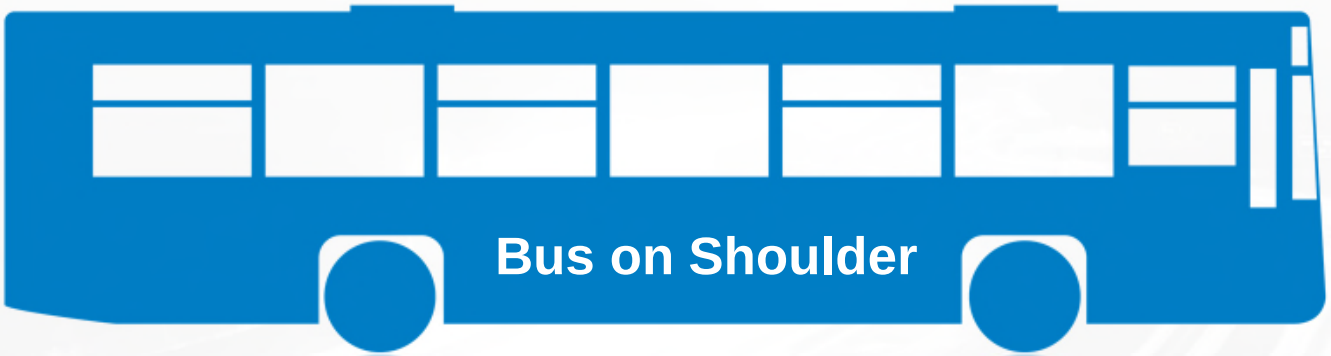
Driver Benefits



** I-680 Transit Investment/Congestion Relief Opportunity Study, Dec. 2015*

Transit Benefits*

13min
TRAVEL TIME SAVED

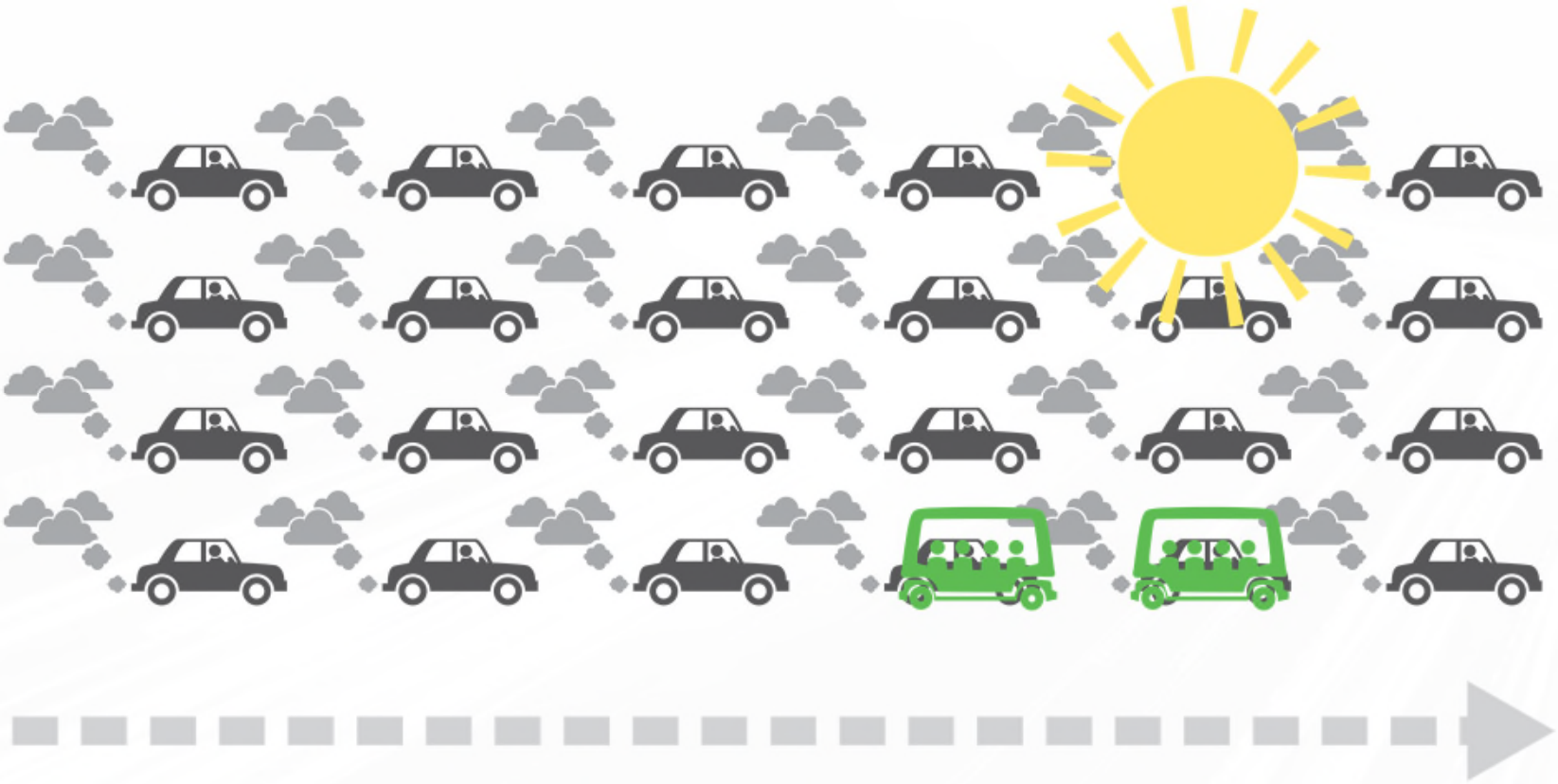


5-7min
TRAVEL TIME SAVED

3-5min
TRAVEL TIME SAVED

** I-680 Transit Investment/Congestion Relief Opportunity Study, Dec. 2015*

Less Congestion, Better Air



* *Operations of a Shared Autonomous Vehicle Fleet for Austin, Texas Market*- Fagant, Kockelman, Bansal

Increased Accessibility, Opportunity

Studies show that **COMMUTE TIME IS THE KEY FACTOR** in social mobility, more so even than factors related to crime or education.*

Transportation Emerges as Crucial to Escaping Poverty, NY Times May 2015

How We Get There

Seven Strategies

1. Cool Corridor “Hot Spots”
2. Complete HOV/Express Lanes
3. Increase Bus Service Efficiency
4. Innovative Operational Strategies
5. Prepare the Corridor for the Future
6. First Mile & Last Mile Connections
7. Transportation Demand Management

Four Projects

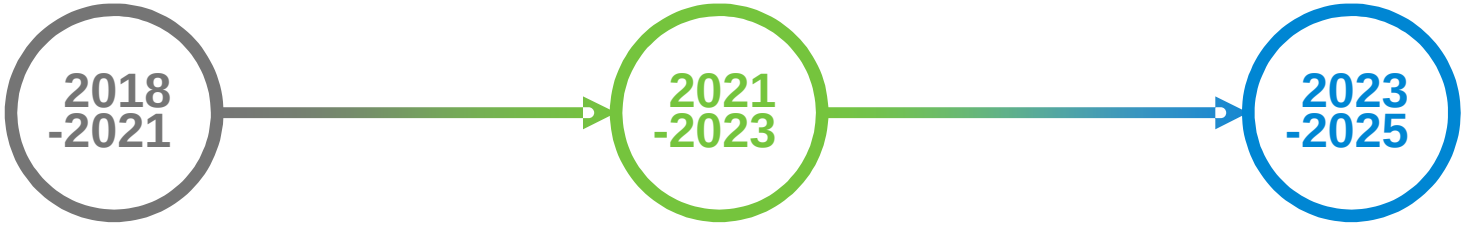
Advanced Technologies

Transit Improvements

Bus-on-Shoulder

HOV/Express Lane Gap Closure

Project Schedule



EXPAND
Express Lane Network

ENHANCE
TDM strategies

IMPLEMENT
Initial IOS strategies/
adaptive ramp metering

TESTING
of SAV FM/LM Concept
Prototype

COMPLETE
Planned Express Lane Network

IMPLEMENT
Express Bus on Shoulders

COMPLETE and IMPLEMENT
IOS features

DEPLOY
SAV for FM/LM connections

ADDRESS
Traffic Bottlenecks &
Cool Traffic Hotspots

Strategic Plan Amendment

- Approved by SWAT and TRANSPAC
- Intraregional Benefits
- Interregional Benefits
- Regional Study with Local Focus
- Improving connectivity to employment centers
- Project readiness for additional funding
- Leverage/match State and Federal funding
- The First Connected Corridor in the Bay Area

9632	I-680 Carpool Lane Gap Closure/Transit Corridor Improvements	Strategic Plan	Proposed Amendment
8006	**I-680 Corridor Reserve** (Central County)	$23,045,000	($23,045,000)
8007	**I-680 Corridor Reserve** (Southwest County)	$16,706,000	($16,706,000)
8008	**I-680/Bollinger Canyon Road** Operational Analysis	$300,000	($300,000)
	Innovate 680		$40,051,000

Funding Opportunities

- Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD)
- Senate Bill 1 – Congested Corridor Program
- Senate Bill 1 – State and Local Partnership Program
- State Transportation Improvement Program (STIP)
- State Highway Operations and Protection Program (SHOPP)
- Congestion Mitigation and Air Quality (CMAQ) Improvement
- Infrastructure for Rebuilding America (INFRA)
- Transportation Investment Generating Economic Recovery (TIGER)
- Regional Measure 3

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transportation
authority