

Prepared for:



Unified Corridor Investment Study Step 2 Analysis Results

DRAFT

October 4, 2018



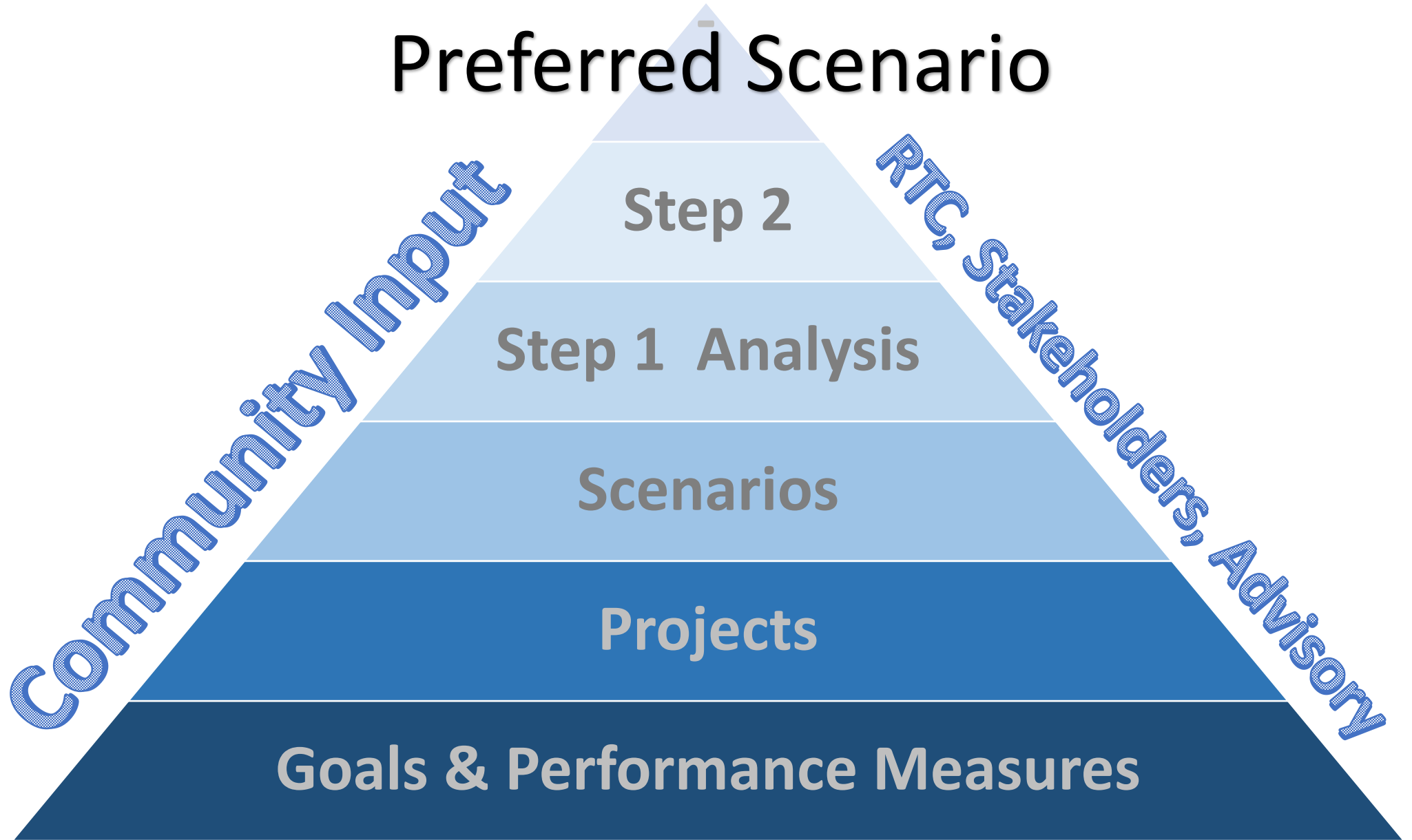
Kimley»Horn

STUDY CORRIDOR



Highway 1, Soquel/Freedom, Rail ROW

APPROACH



Step 2 Scenarios for Analysis

Approved by RTC on December 7, 2017

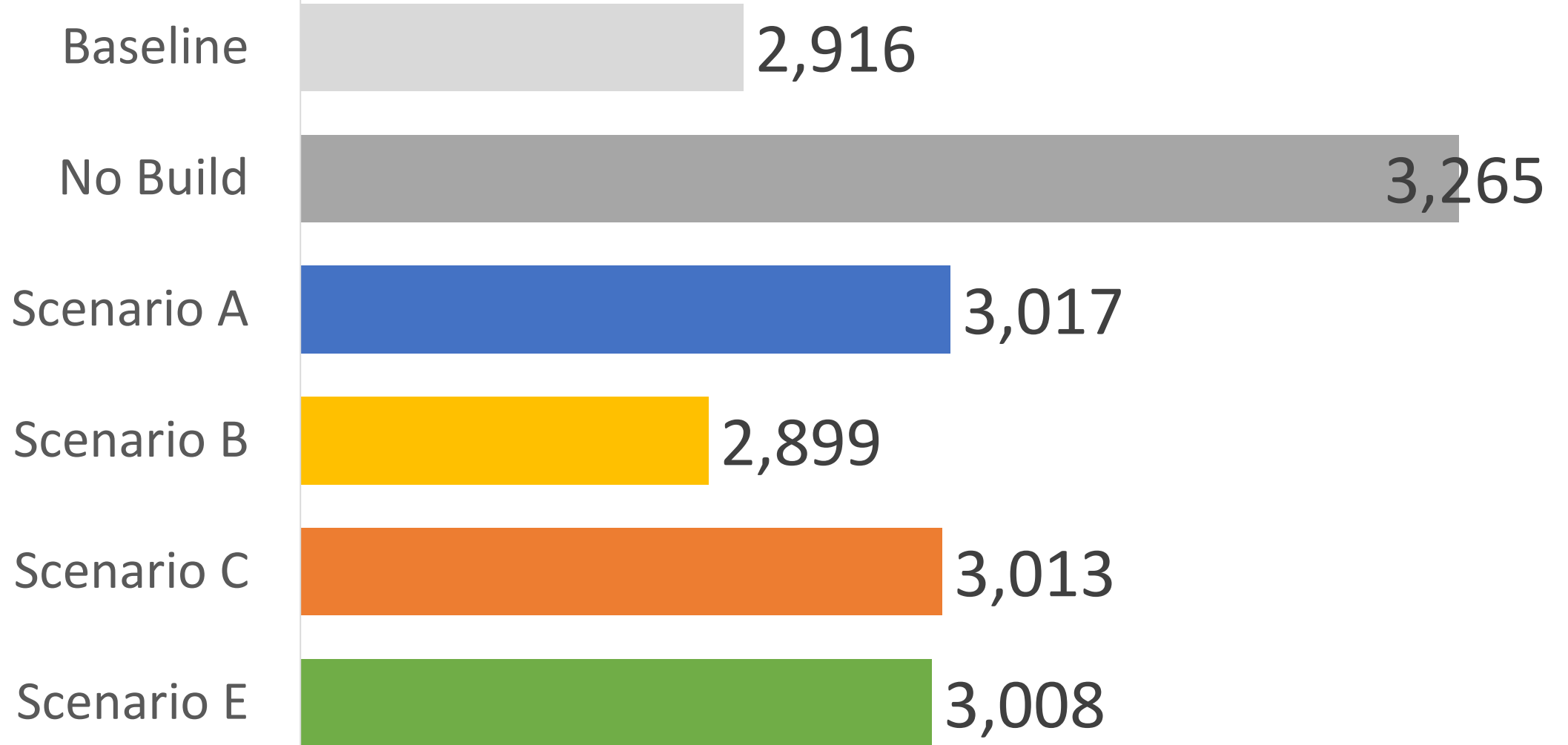
	Scenario A	Scenario B	Scenario C	Scenario E	No Build
Highway 1 Projects					
Buses on shoulders					
High occupancy vehicle lanes (HOV) and increased transit frequency					
Auxiliary lanes to extend merging distance IN ADDITION TO MEASURE D					
Metering of on-ramps					
Additional lanes on bridge over San Lorenzo River					
Mission St intersection improvements					
Soquel Avenue/Drive and Freedom Blvd					
BRT lite (faster boarding, transit signal priority and queue jumps)					
Increased frequency of transit with express services					
Buffered/protected bike lanes					
Intersection improvements for auto					
Intersection improvements for bikes/pedestrians					
Rail Corridor					
Bike and pedestrian trail					
Local rail transit with interregional connections					
Bus rapid transit					
Freight service on rail			Only Watsonville		

GOALS

- Safety
- Reliability and efficiency
- Environment and health
- Economic vitality
- Equitable access



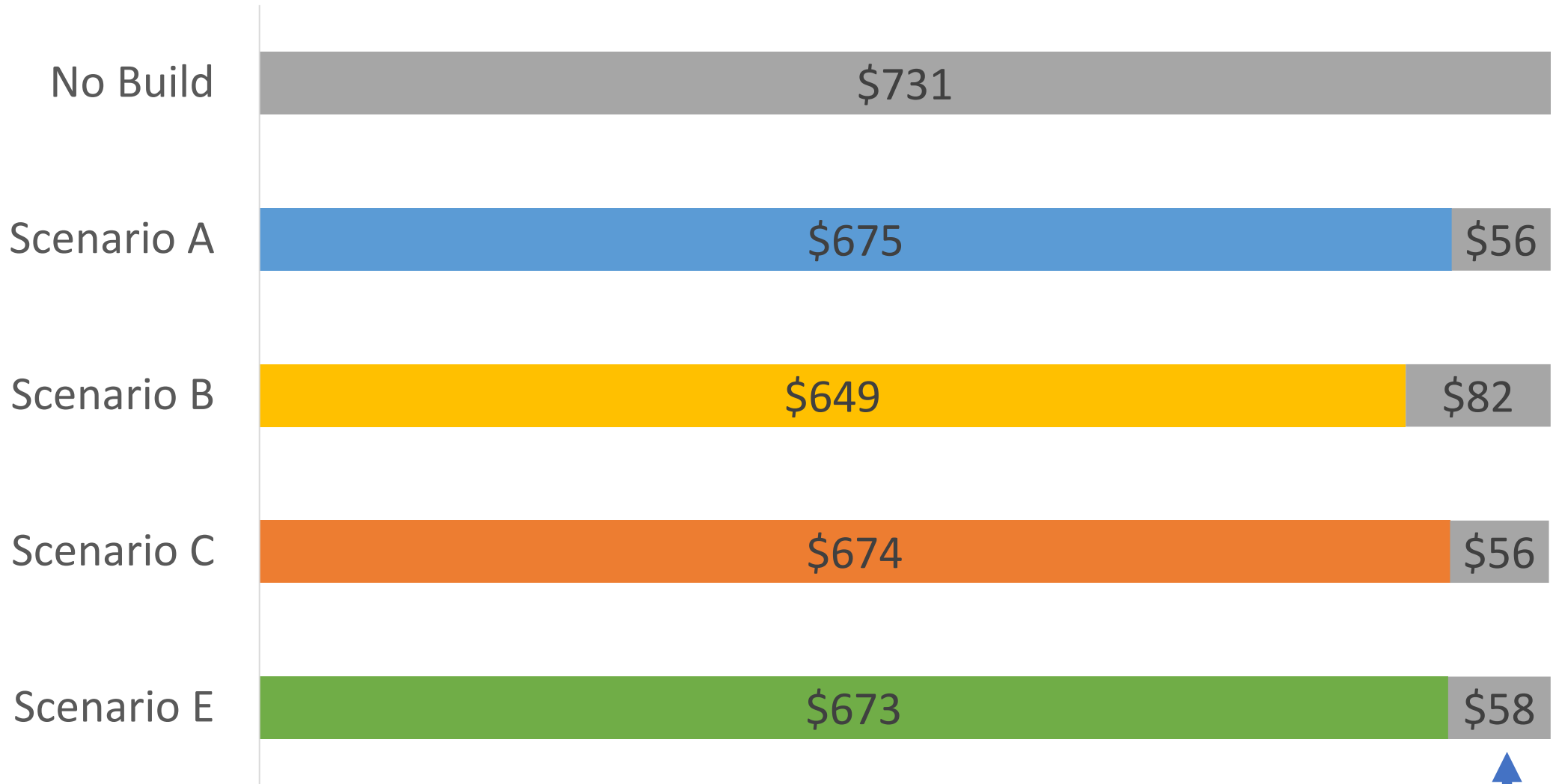
Annual Study Area Collisions



SAFETY

Annual Cost of Collisions (\$millions)

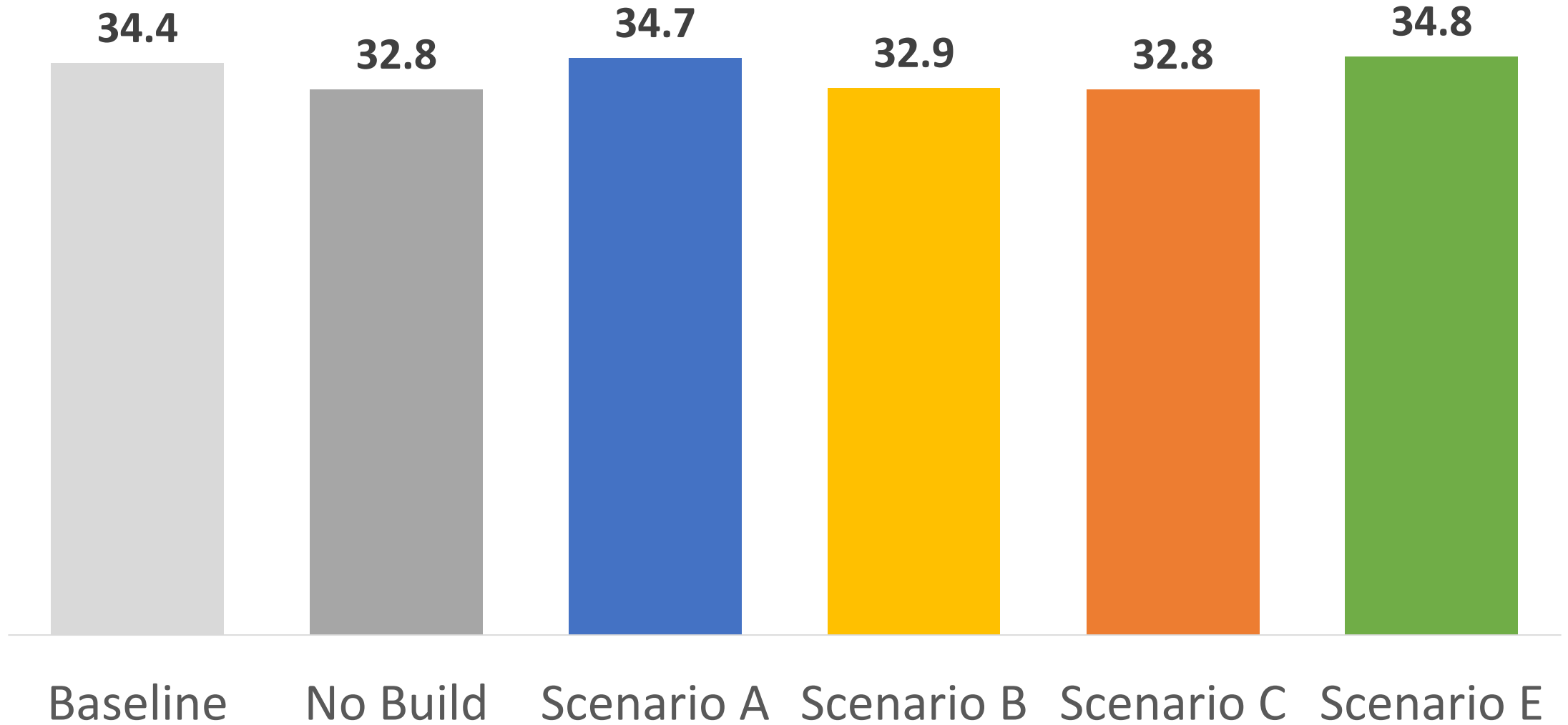
ECONOMIC VITALITY



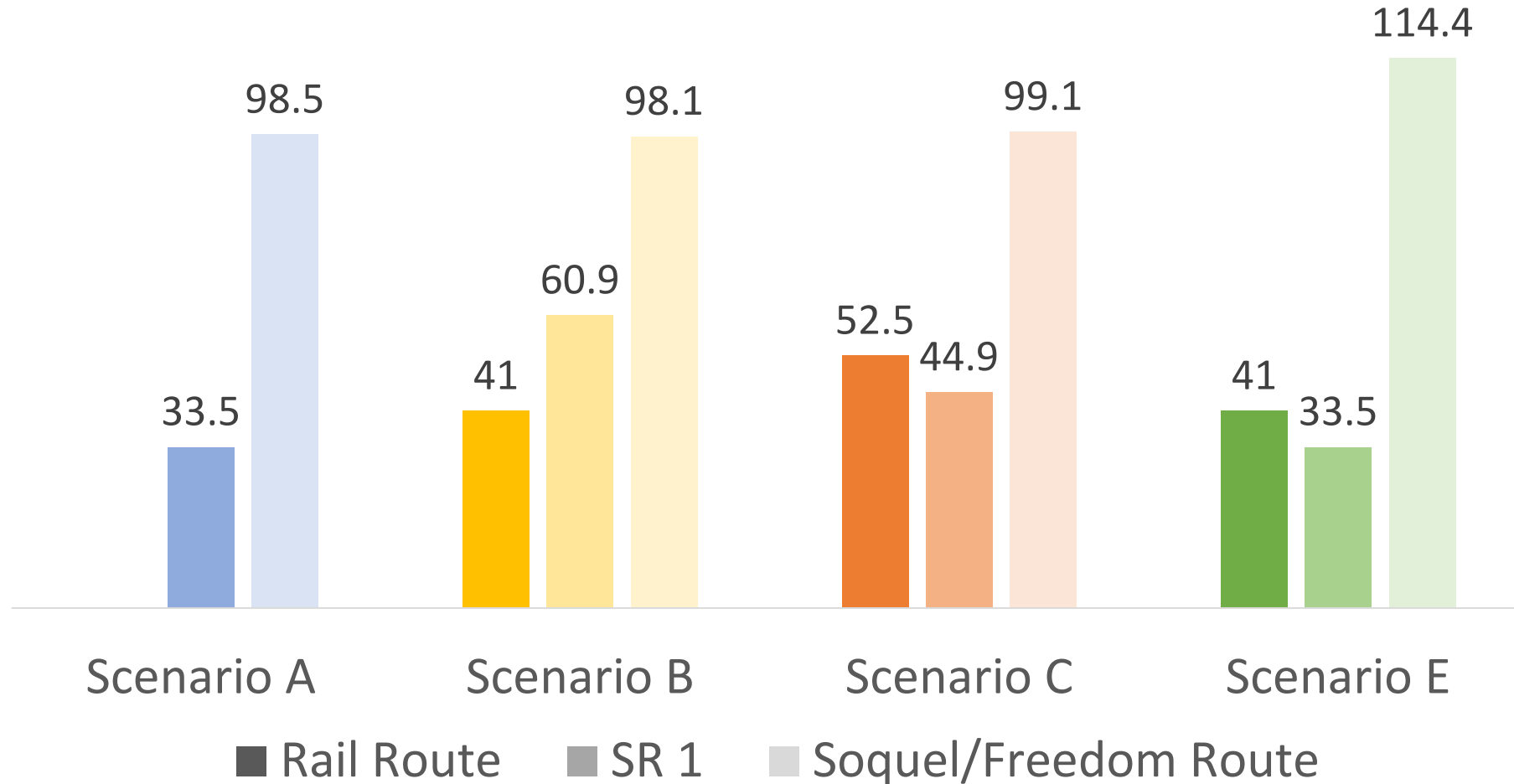
Cost reduction due to project

Countywide Peak Period Average Auto Speed (MPH) 4:00 PM to 7:00 PM

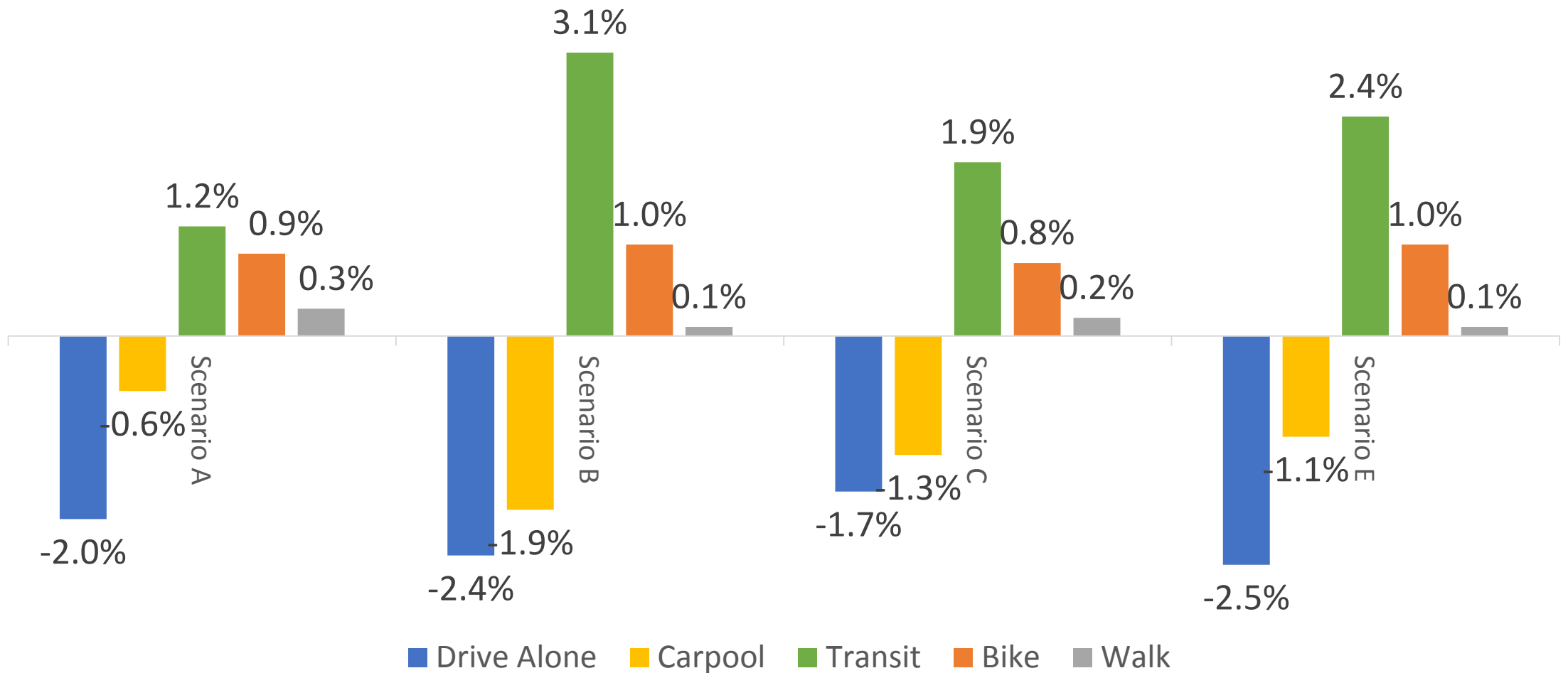
RELIABILITY & EFFICIENCY



Peak Period Transit Travel Time (4:00 PM to 7:00 PM) Santa Cruz to Watsonville

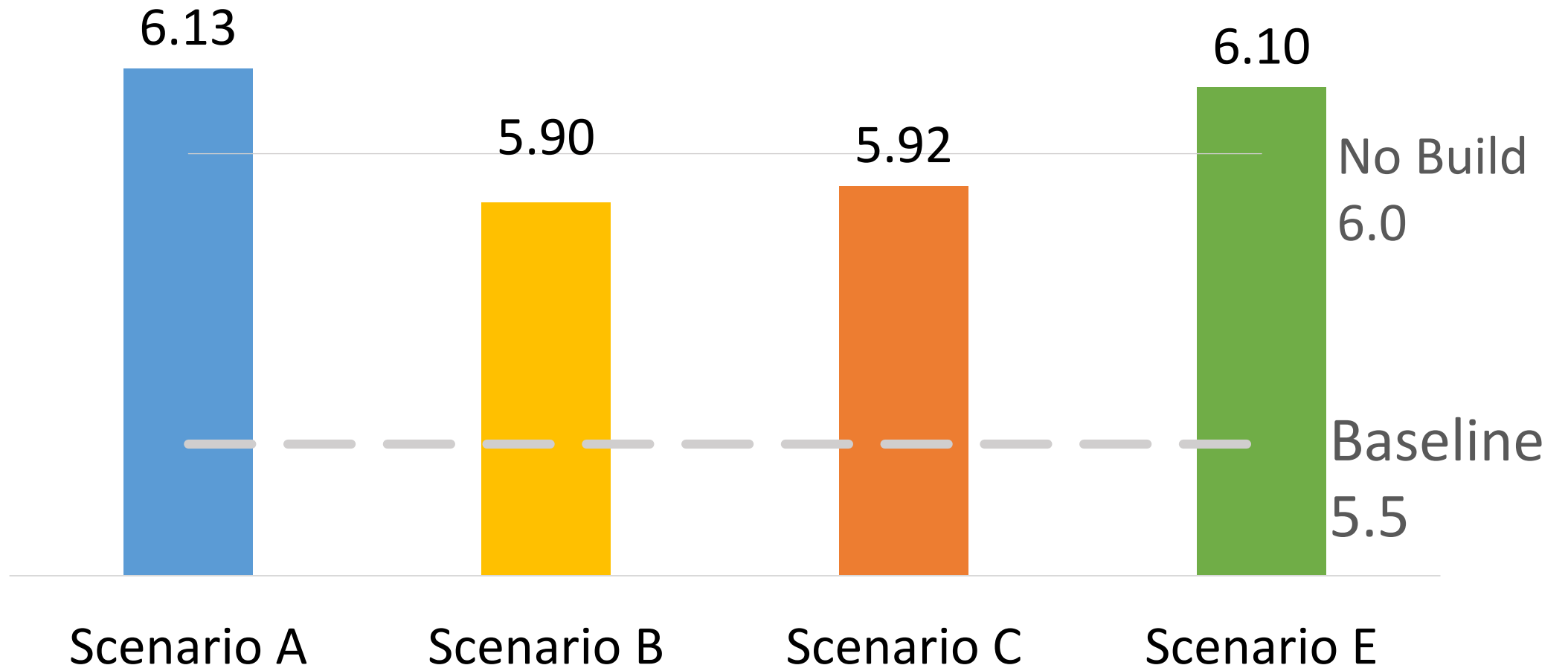


Mode Share Change by Scenario



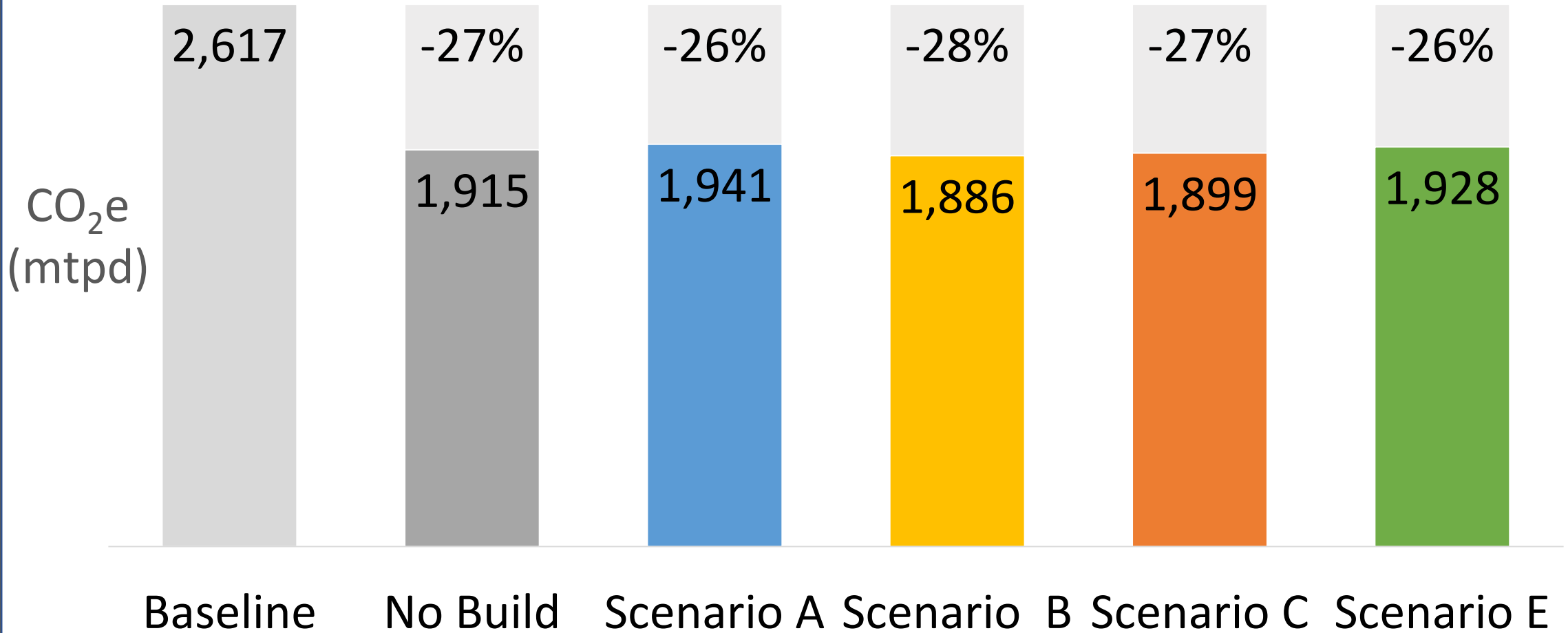
Countywide Vehicle Miles Traveled (in million miles/day)

ENVIRONMENT

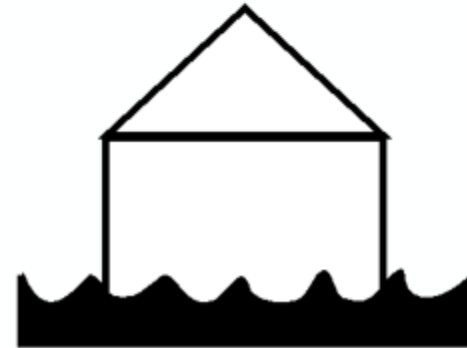


CO₂e Emissions (metric tons/day) and % Reduction from 2015 Baseline

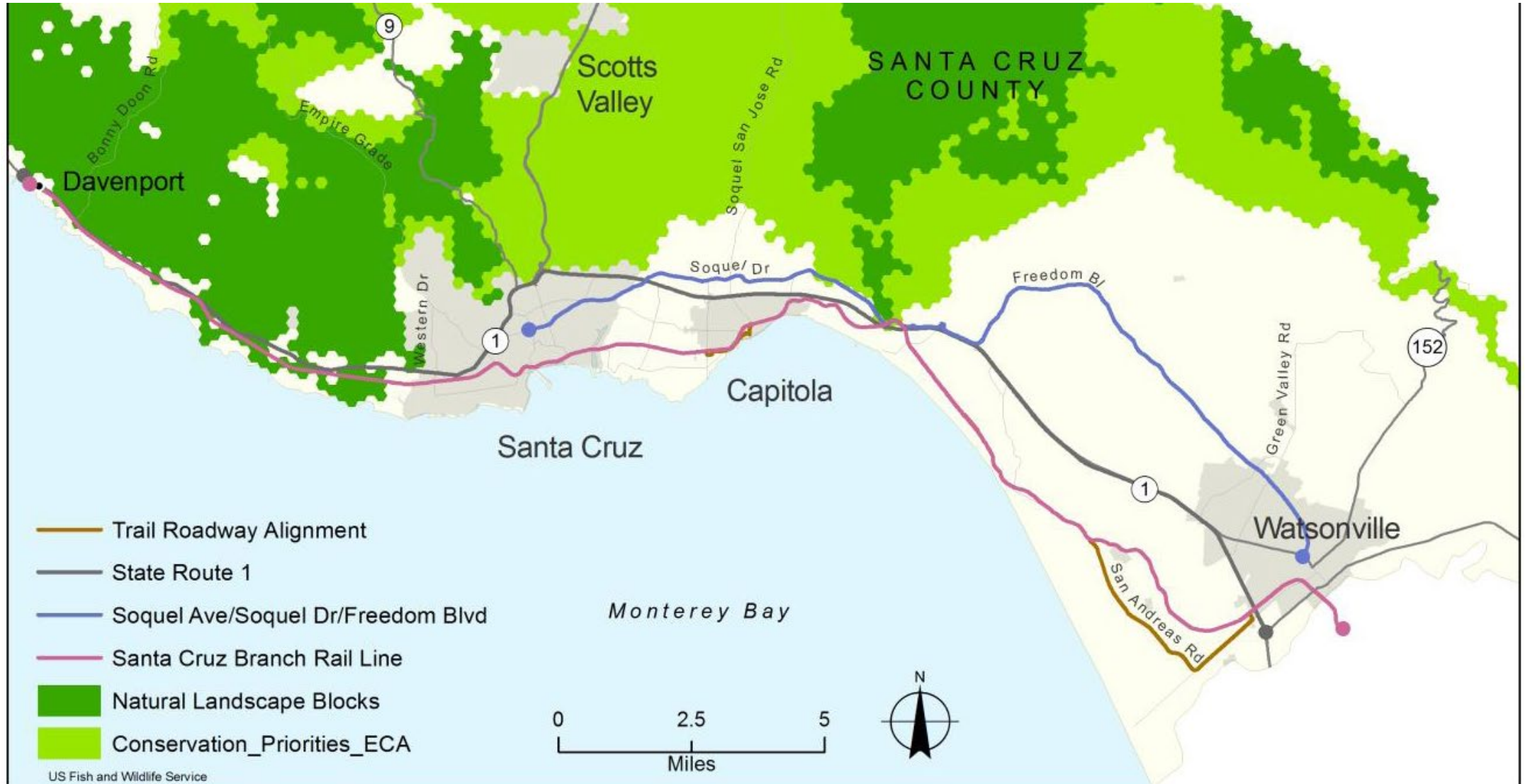
ENVIRONMENT



Environmentally Sensitive Areas



ENVIRONMENT



Environmental Analysis – Scenario B

ENVIRONMENT

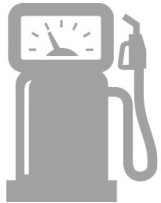




New Construction and Environmentally Sensitive Areas Overlap

	Length in Miles
Scenario A	36.5
Scenario B	38.3
Scenario C	36.0
Scenario E	40.7

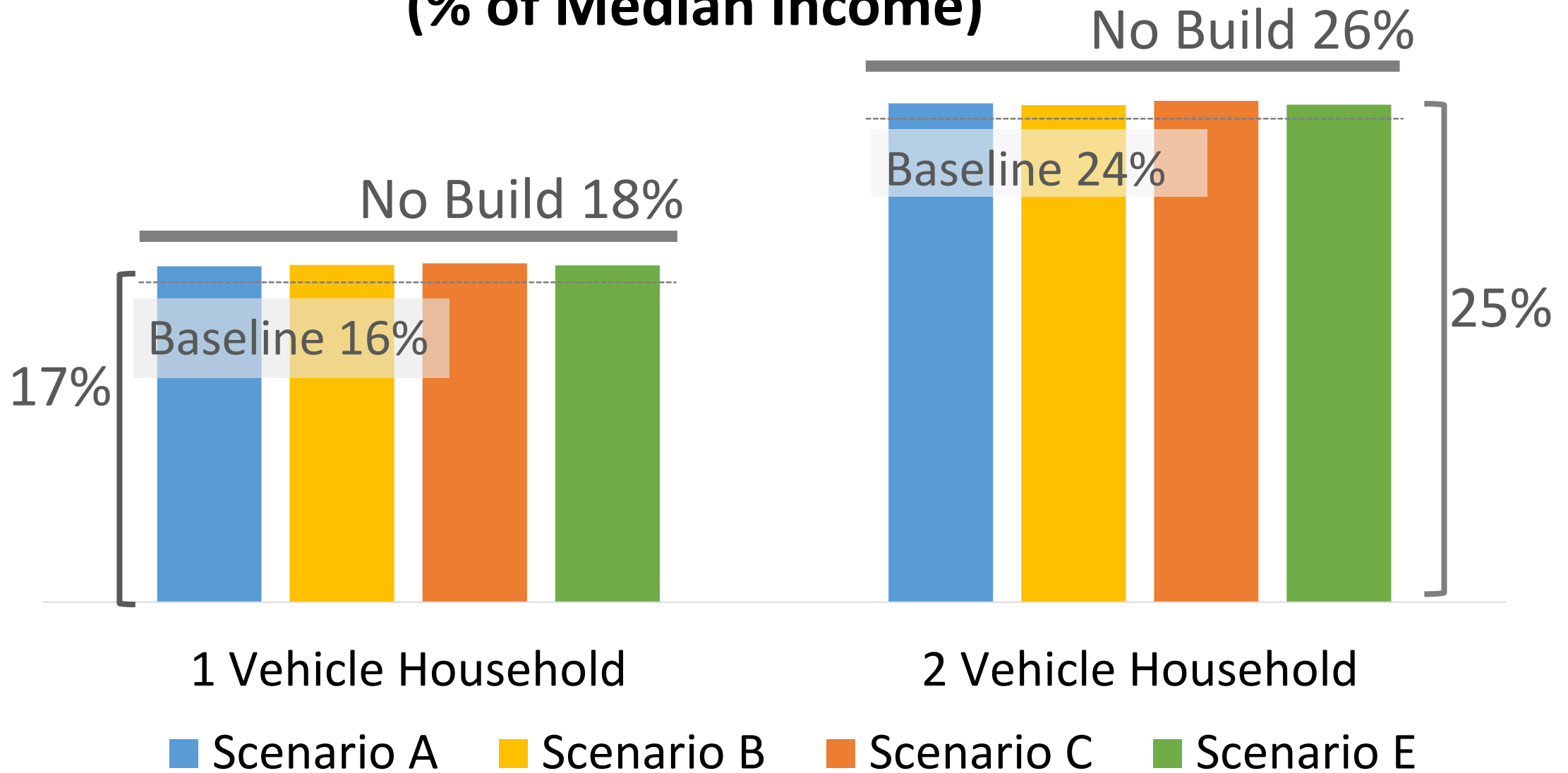
Household Transportation Costs

- One Vehicle Ownership Cost - \$5625 per year
- Fuel and Maintenance Costs - \$0.235 per mile
- Average SCC household vehicle miles - 21,033 miles per year


$$= \$44.38/\text{day}$$

$$\$15.41/\text{day} + \$15.41/\text{day} + \$13.56$$

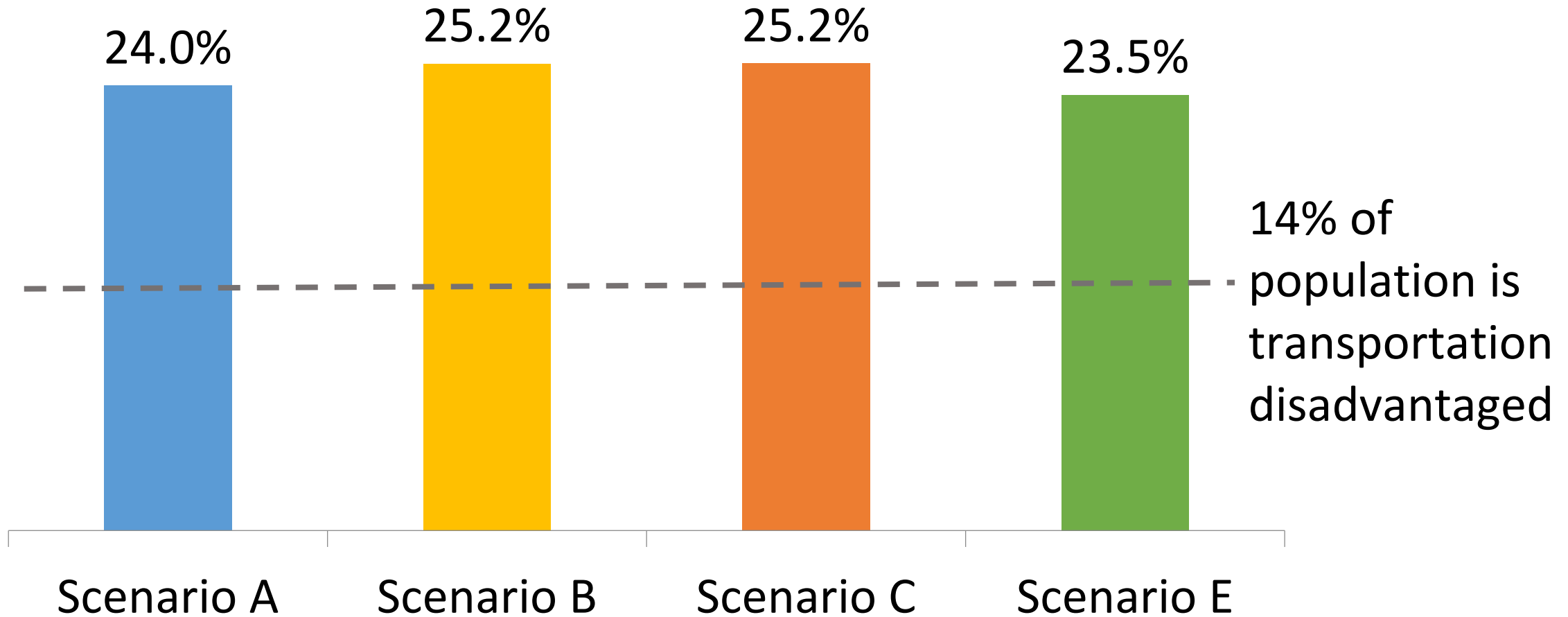
Household Transportation Cost (% of Median Income)



EQUITY

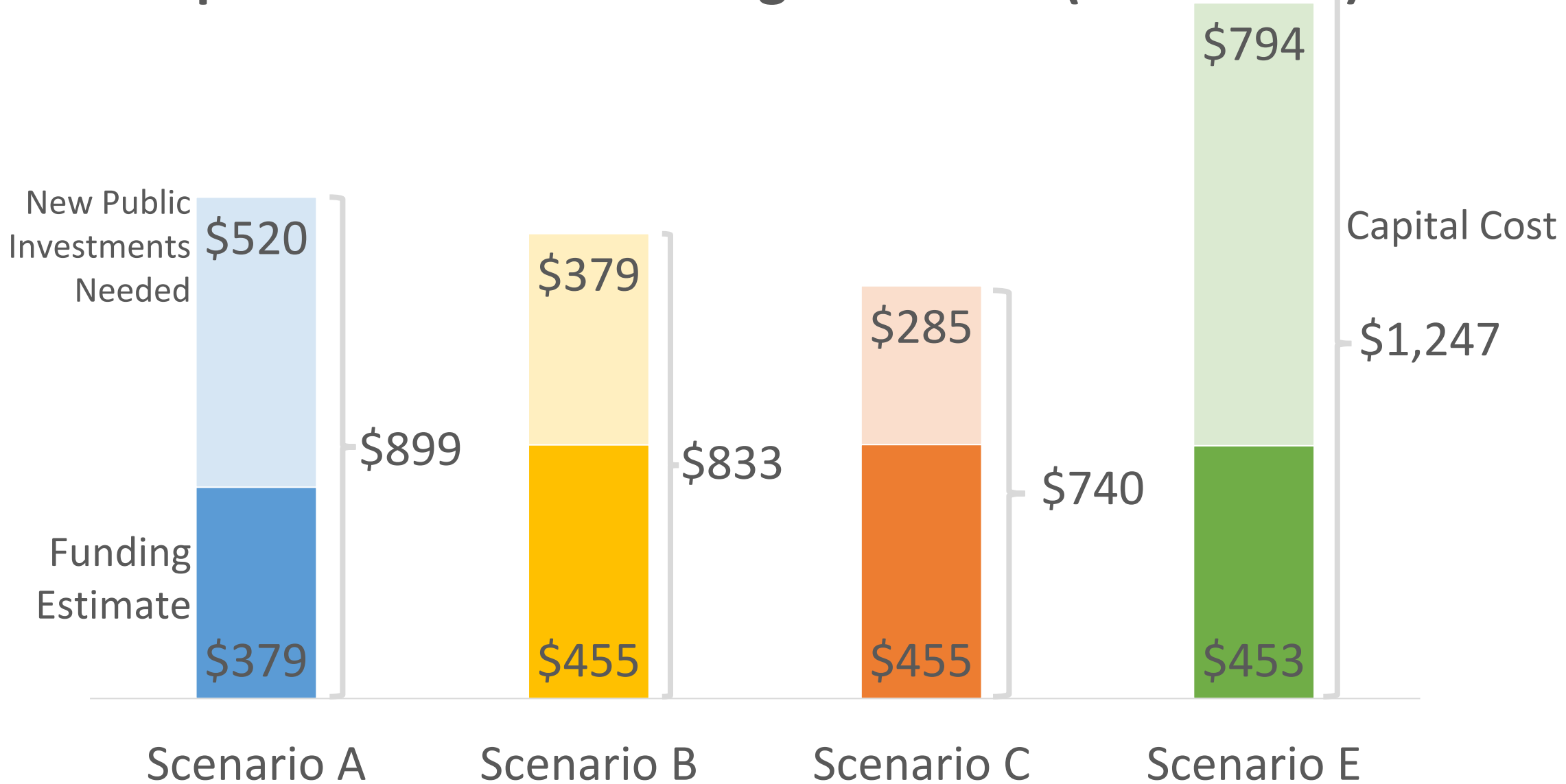
Share of Investment Benefit for Transportation Disadvantaged Population

EQUITY



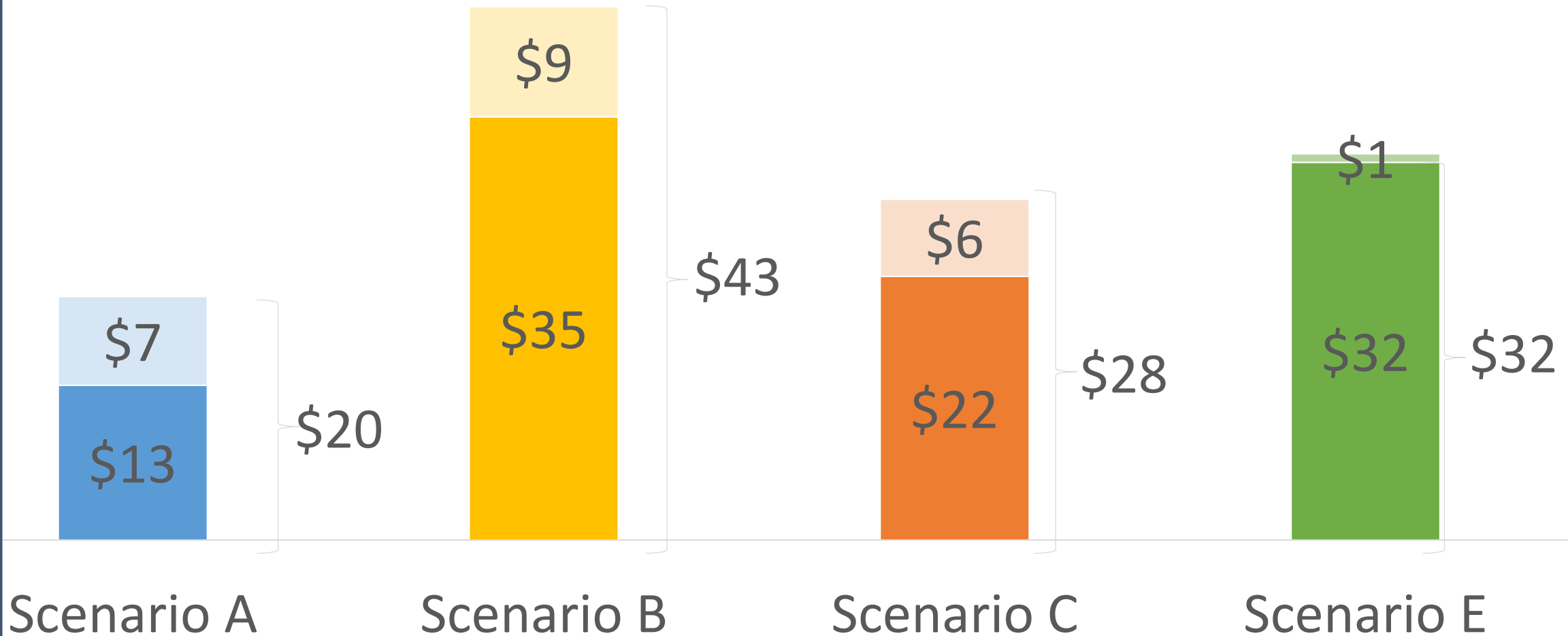
Level of Public Investment

Capital Costs and Funding Estimates (in millions)



Annual Cost for Operation and Maintenance – Transit and Trail (in millions)

ECONOMIC VITALITY

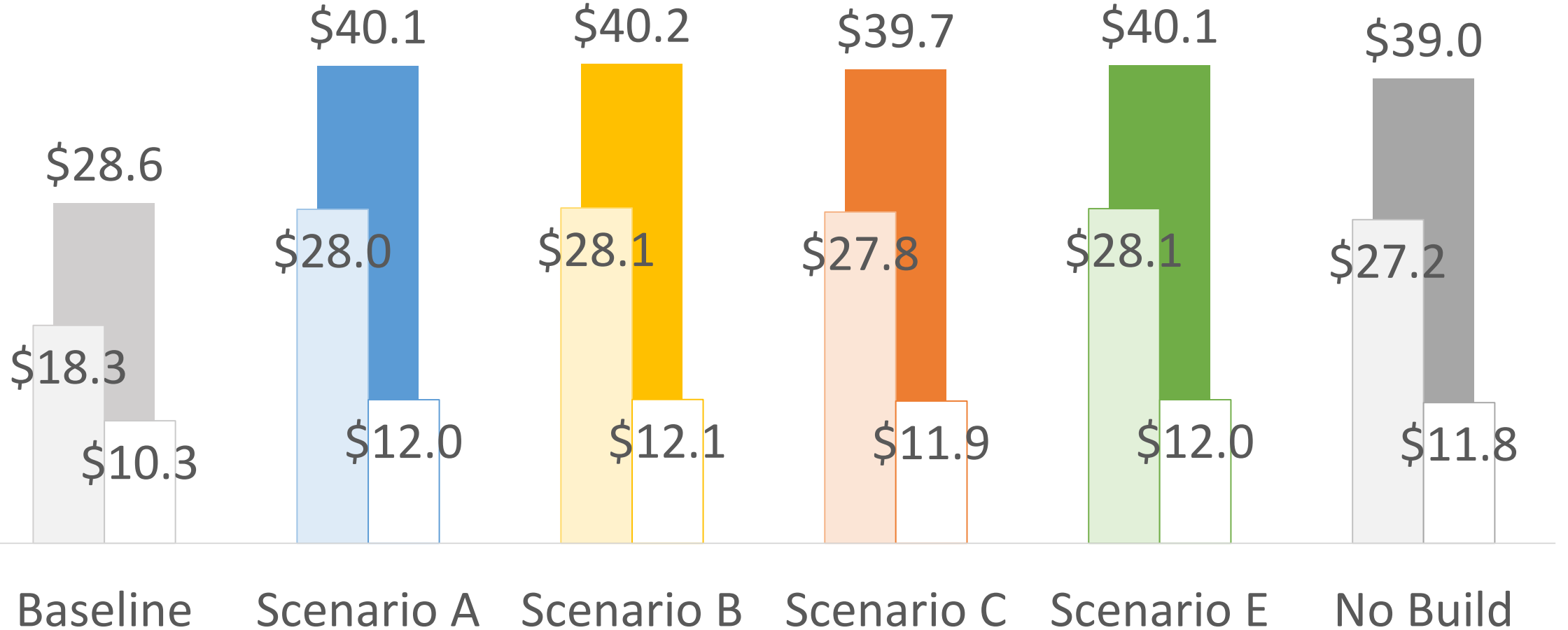


Transportation projects generate economic benefits by improving access

- Factors used to evaluate economic benefits for each scenario:
 - Area impacted by the transportation improvement
 - Who benefits from the improvement
 - Creation of a new transportation route
 - Creation of a new amenity

Visitor Tax Revenues (per year) (in million \$)

- Total
- Transient Occupancy Tax
- Visitor Related Sales Tax



Relative Economic Benefits

	Scenario A	Scenario B	Scenario C	Scenario E
Business Location Decisions	High	High	Moderate-High	Moderate-High
Development Potential and Property Values/Rents	Moderate	High	Moderate	Moderate
Business Performance	Moderate-High	High	Moderate-High	Low
Local Tax Revenue	Moderate-High	High	Moderate-High	Moderate
User Benefits	High	High	Moderate-High	Moderate-High

- Outreach
 - Stakeholder Meetings
 - RTC Advisory Committees
 - Public Workshops
 - Focus Group Meetings
 - City Council Presentations
- RTC Meeting November 15, 6:00 PM Watsonville (*staff recommendation of preferred Scenario, no action taken*)
- RTC Meeting December 6, 9:00 AM County Chambers (*action on preferred scenario*)



Santa Cruz County
Regional Transportation Commission

Public Workshops

Unified Corridor Investment Study

Draft Step 2 Scenario Analysis

Monday, October 15

6:00 p.m. - 7:30 p.m.

[Live Oak Elementary School](#)

[Multi-Purpose Room](#)

[1916 Capitola Road, Live Oak, CA](#)

Tuesday, October 16

6:00 p.m. - 7:30 p.m.

[Civic Plaza Community Rm A, 4th Fl](#)

[275 Main Street, Watsonville, CA](#)

[\(Parking in garage on Level 6\)](#)

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