

# ★ LOOP 1604

## Draft Alternatives and Screening Criteria



**\*Reasonable Alternatives**

**1. Initial Screening**

Use a series of yes/no questions to determine what alternatives are reasonable.

# Determining Reasonable Alternatives\*

**Viable Alternatives**

**2. Quantitative Screening**

Use quantifiable measures to compare reasonable alternatives and determine which ones should advance.

## Quantitative Screening

**Detailed Draft EIS Alternatives**

**3. Alternatives Refinement**

Compare designs, costs, and quantitative effects on the natural and human environment.

## Engineering, resource specific analysis, cost comparison

**Recommended Alternative**

**4. Preferred Solution**

Develop recommended alternative into the detailed solution. Include mitigation for adverse environmental impacts, context sensitive design, and reflect input received from stakeholders.

## Preferred Alternative

**Continuous improvement and stakeholder input**  
Input received throughout the alternative development process will be incorporated into screening. Similarly, alternatives will be modified and adapted according to the results of detailed environmental and engineering studies as they are completed.

\*We are currently at this point in the process.

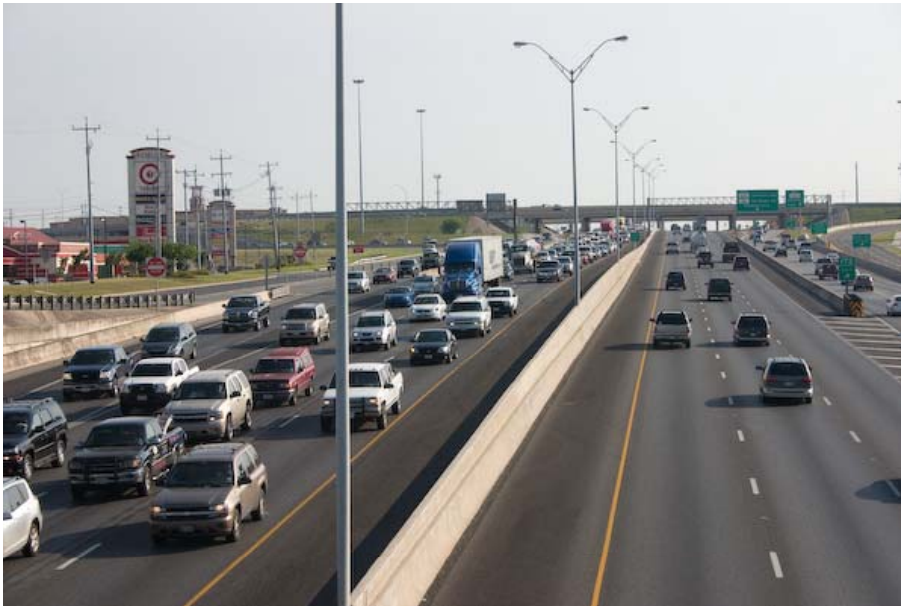
# Reasonable Alternatives

## Practical given today's technology and feasible in terms of economics

- **No Build** – Provides a baseline for comparison
- **Build** – Reasonable solutions to the transportation problems
  - Mass Transit
  - System and Demand Management
  - New Location Roadway
  - Upgrade Existing Corridor

# No Build

Continue current maintenance and operations into the future.



# Build

## Upgrade

Add new lanes and improvements primarily within the existing Loop 1604 right of way.



## New Location

Build a new road parallel to Loop 1604.



# Mass Transit

## Bus

Dedicated bus lanes and expansion of conventional bus service.



## Rail

Light rail or commuter rail.



# Transportation Management

## Transportation System and Demand Management

- Combination of new bicycle/pedestrian lanes and associated infrastructure; rideshare, park and ride, short-term rental car, and bicycle rental facilities; expand taxi service; vanpools and carpools.
- Increase telecommuting and flexible work hours and manage development through new land use controls.



# Alternatives Screening Criteria

## Screening Criteria – Answer six questions

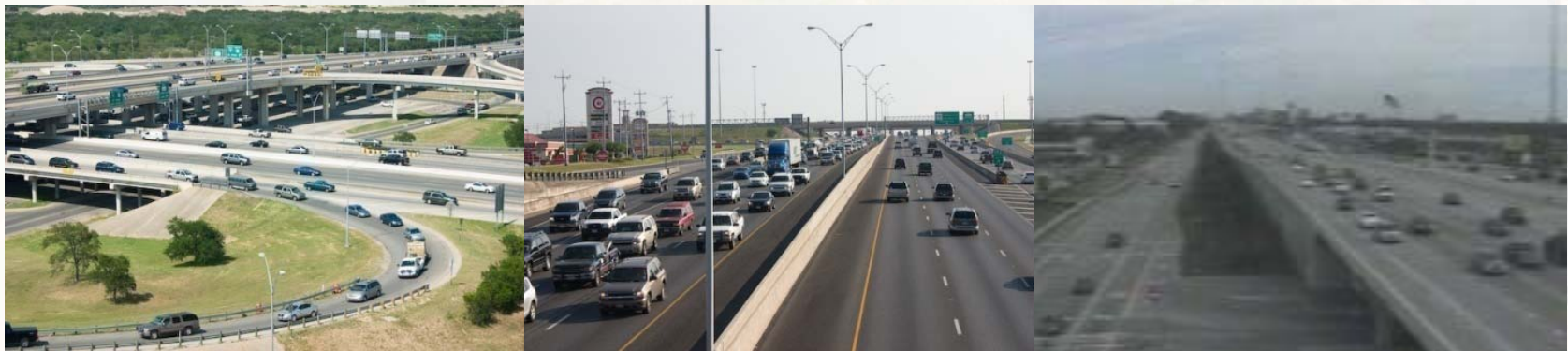
- **What, Why, and Where?**
  - Need and Purpose – Congestion Relief and Safety
- **When and How?**
  - Planning and Programming – Funding and Timing
- **Who?**
  - Environment and Community – Aquifer and what's important to you

**Criteria may be deleted, added or modified based on your input.**

# Screening Criteria #1 and #2

## Congestion Relief

1. Reduces bottlenecks and chokepoints.
2. Decreases average travel time within the corridor.



# Screening Criteria #3 and #4

## Safety

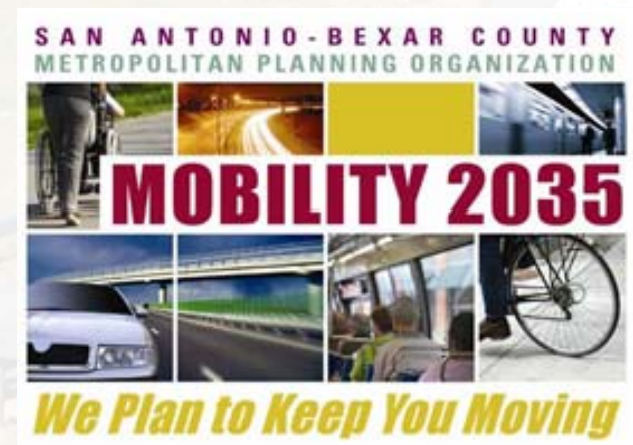
3. Corrects some roadway geometric deficiencies.
4. Reduces the number of conflict points (i.e. on and off ramps, merging, and intersections).



# Screening Criteria #5 and #6

## Planning and Programming

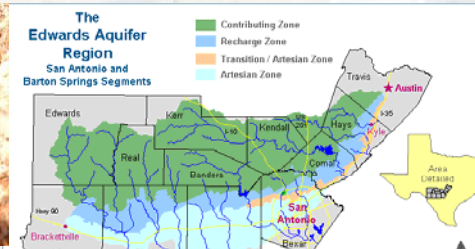
5. Consistent with local transportation planning efforts.
6. Solution can be developed, permitted, funded, and initiated in the near term (within 5 years).



# Screening Criteria #7, #8, #9 and #10

## Community and Environment

7. Maximizes use of the Loop 1604 right of way and minimizes new right of way requirements.
8. Includes or could accommodate multiple modes of transportation.
9. Minimizes adverse effects to federally designated Threatened and Endangered species.
10. Preserves water quality and quantity within the Edwards Aquifer.



# Proposed Scoring



A - 90% to 100%

B - 80% to 89%

C - 70% to 79%






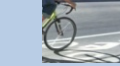







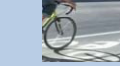








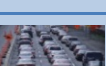





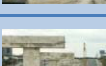




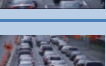


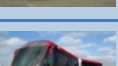

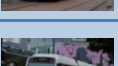


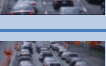
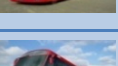
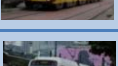


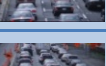

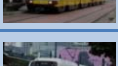


D - 60% to 69%

F - 0%-59%



- Any alternative that receives a C (70%) or better will be carried forward into the next step of the evaluation process as a stand alone alternative.
- Proposed scoring is scalable to accommodate adding and deleting screening criteria based on your input.

# Alternative Screening

Evaluation Criteria	Alternative accomplishes criteria?							
	No Build	Upgrade Loop 1604	Parallel Road	Bus	Heavy Rail	Light Rail	TSM	TDM
Congestion Relief #1								
Congestion Relief #2								
Safety #3								
Safety #4								
Planning and Programming #5								
Planning and Programming #6								
Community and Environment #7								
Community and Environment #8								
Community and Environment #9								
Community and Environment #10								
SCORE	F	B	F	B	F	D	B	B

# Recommended Alternatives

**1. Bus** - Dedicated bus lanes, expansion of conventional bus service, and/or accommodate express bus service.



**2. Upgrade** - Add new lanes and improvements primarily within the existing Loop 1604 right of way.



**3. Transportation System and Demand Management** - Combination of new bicycle/pedestrian lanes and associated infrastructure; rideshare, park and ride, short-term rental car, and bicycle rental facilities; expand taxi service; vanpools and carpools. Increase telecommuting and flexible work hours and manage development through new land use controls.



**4. No Build** - Continue current maintenance and operations and safety improvements. Although No Build does not pass the screening, it is required to be carried forward.