

13<sup>th</sup> Street

**University Avenue** 

Corridor Study



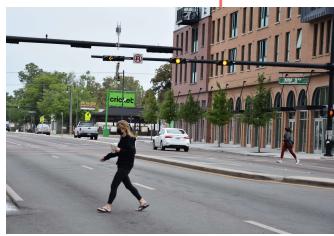
Analyze and develop concepts



Recommend interim & ultimate use of the street & right of way to improve safety & prioritize people



**Partnership** between City of Gainesville, University of Florida and Florida Department of Transportation





### Scope of Work & Steps

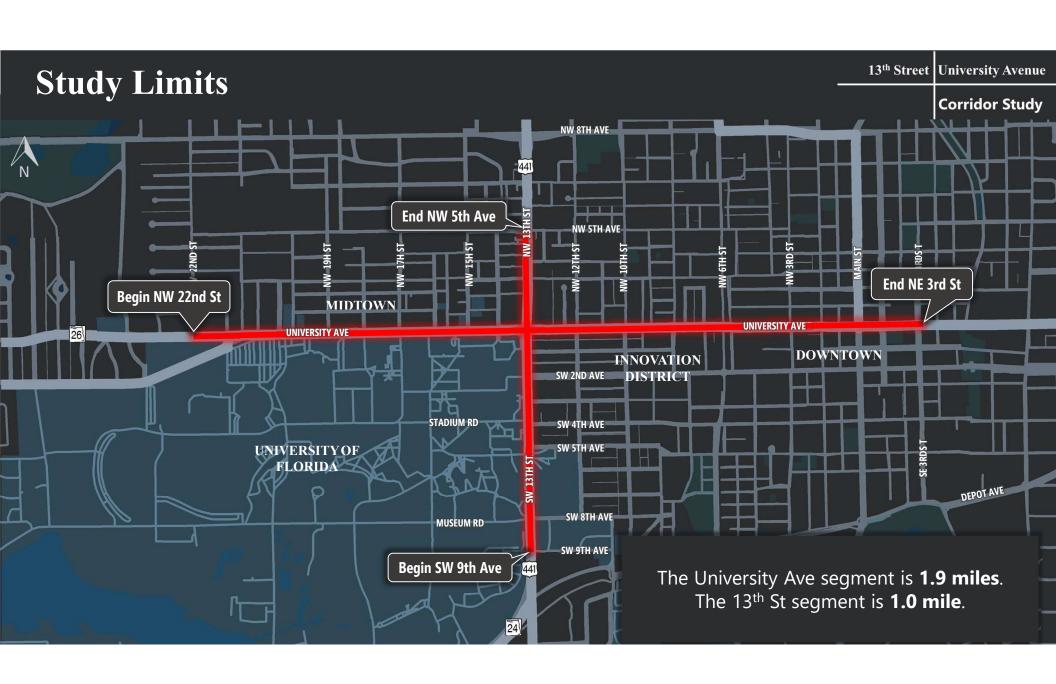
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### We Are Planning A Complete Street

Complete Streets Reallocate Street Space To Be Designed For People And Used By Everyone Including Vehicles, Transit, Pedestrians, & Cyclists Of All Ages & Abilities

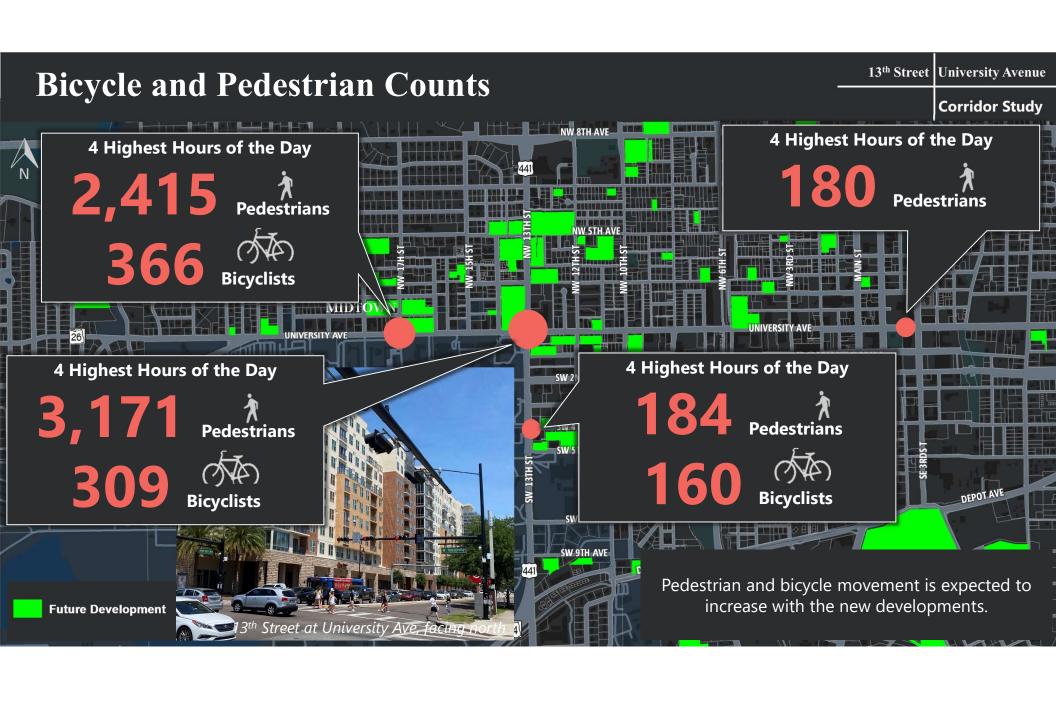
- Identify potential design solutions based on corridor safety needs and context
- Conduct an alternatives assessment to compare corridor solutions
- Draw concept plans and recommend the ultimate use of the street



13th Street University Avenue

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## 1 | Existing Conditions

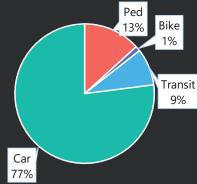




13th Street University Avenue

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University Ave @ 13<sup>th</sup> St Intersection 5 PM – 6 PM

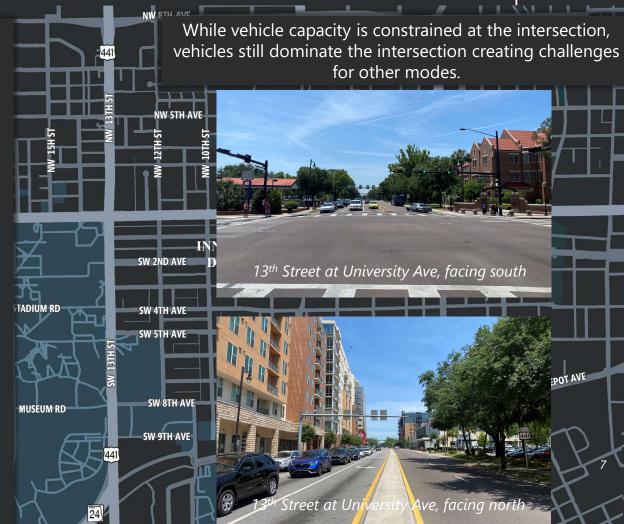


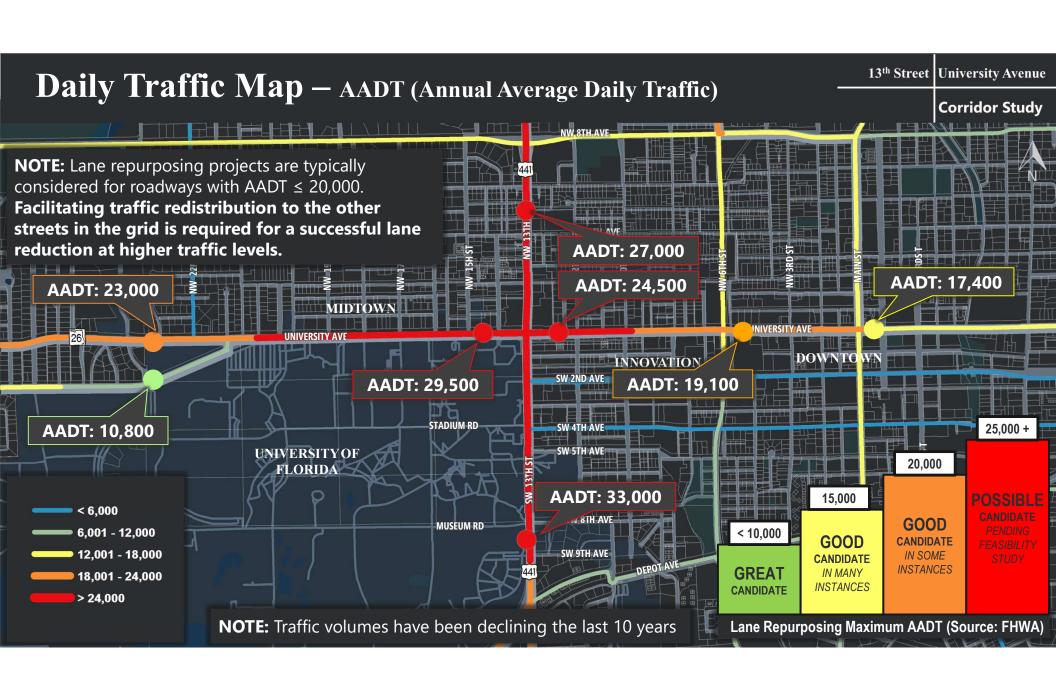
**%** 851 people

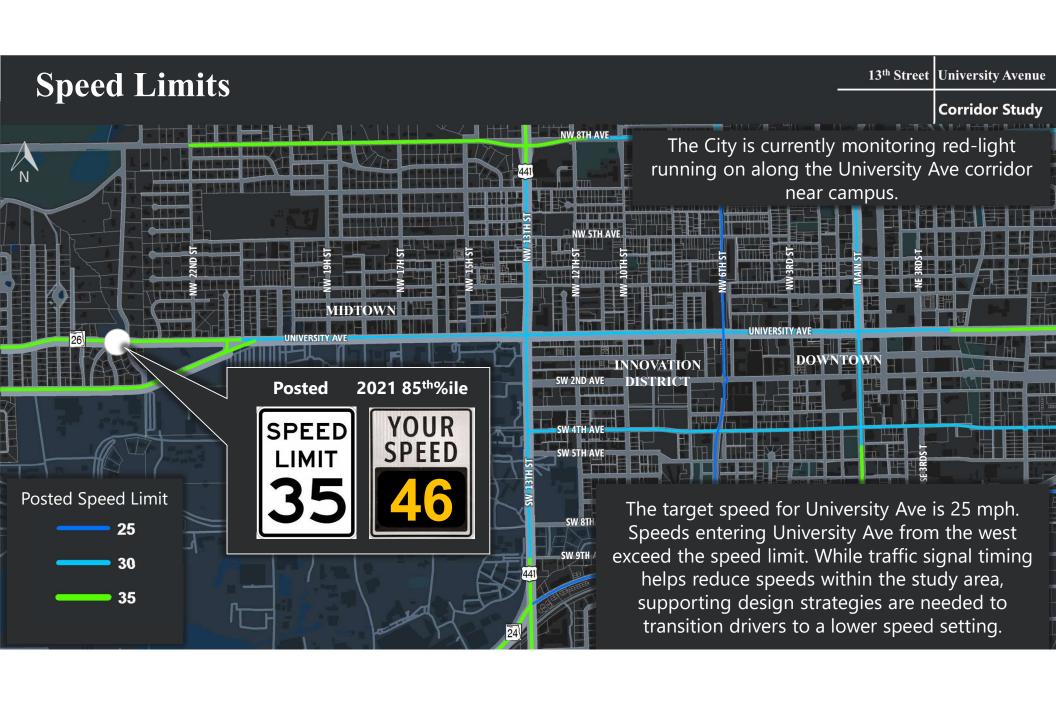


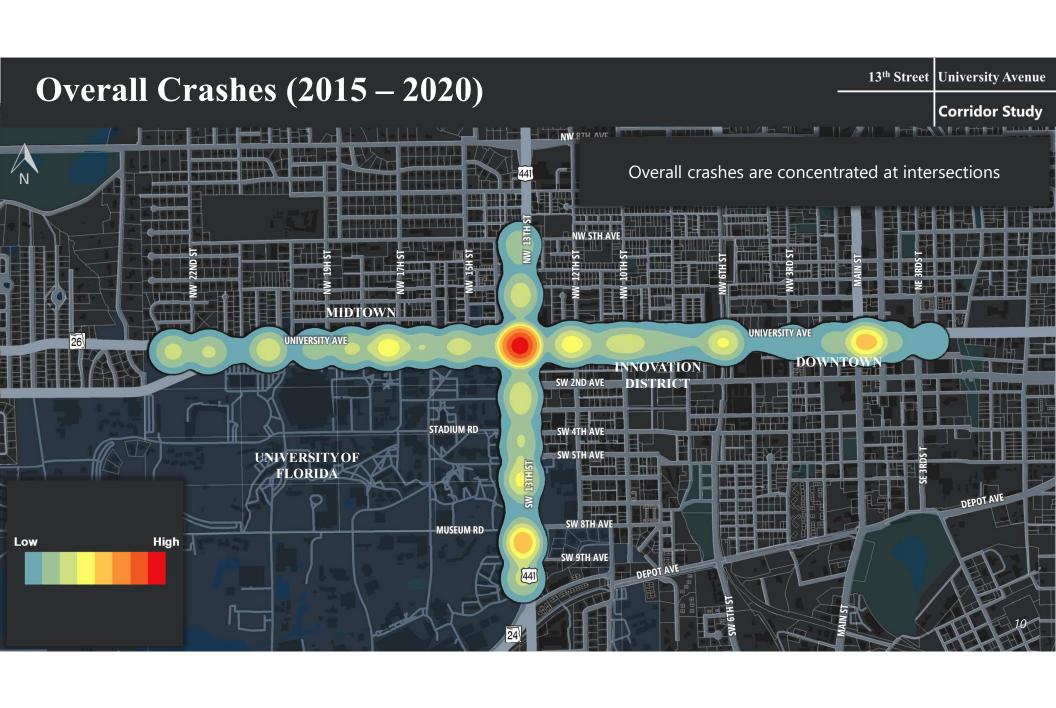
~22 buses

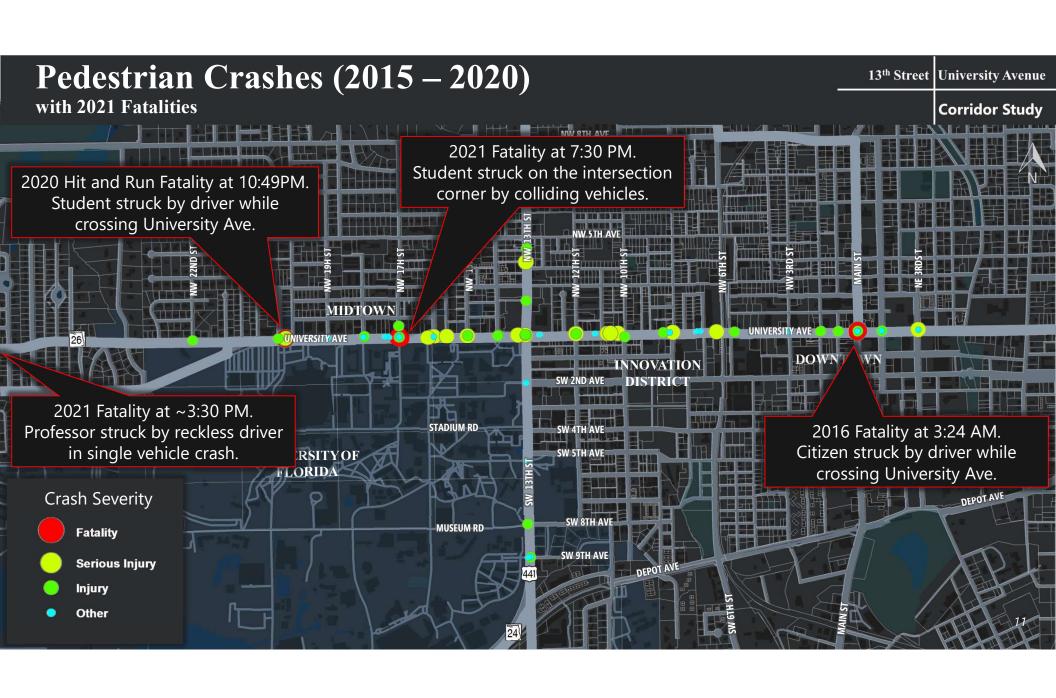
4,950 vehicles











### Pedestrian/Bicyclist Crash Analysis

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**SPEED** 

20 MPH

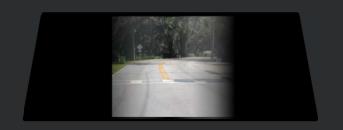
30 MPH

**40** MPH

**CONE OF VISION** 



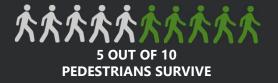




STATISTICAL OUTCOME OF A PEDESTRIAN STRUCK BY A VEHICLE:



9 OUT OF 10 PEDESTRIANS SURVIVE





Source: UNC Highway Safety Research Center

13th Street University Avenue

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**Corridor Study** 

# 2 Potential Design Strategies & Similar Studies

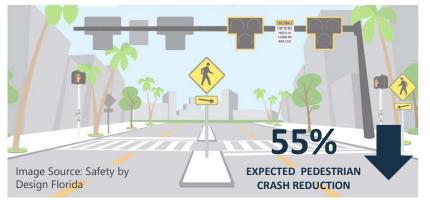
Corridor Study

### **Expected Crash Reduction**

#### **RAISED CROSSWALK (SPEED TABLES)**



#### PEDESTRIAN HYBRID BEACON



#### PEDESTRIAN REFUGE ISLAND



#### SINGLE LANE ROUNDABOUT





**78% EXPECTED REDUCTION IN** 

#### **RAISED MEDIANS**



46%

**EXPECTED PEDESTRIAN CRASH REDUCTION** 

**RAPID RECTANGULAR FLASHING BEACON** 

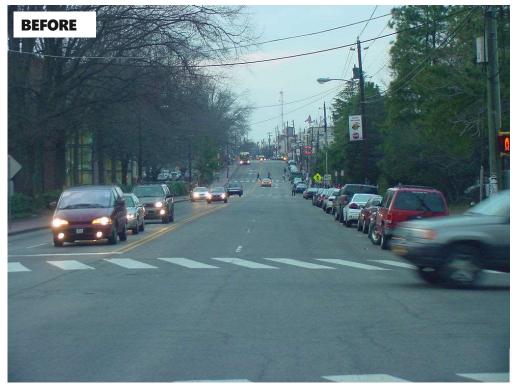


13th Street

**University Avenue** 

**Corridor Study** 

Hillsborough St in Raleigh, North Carolina





Source of Images: City of Raleigh

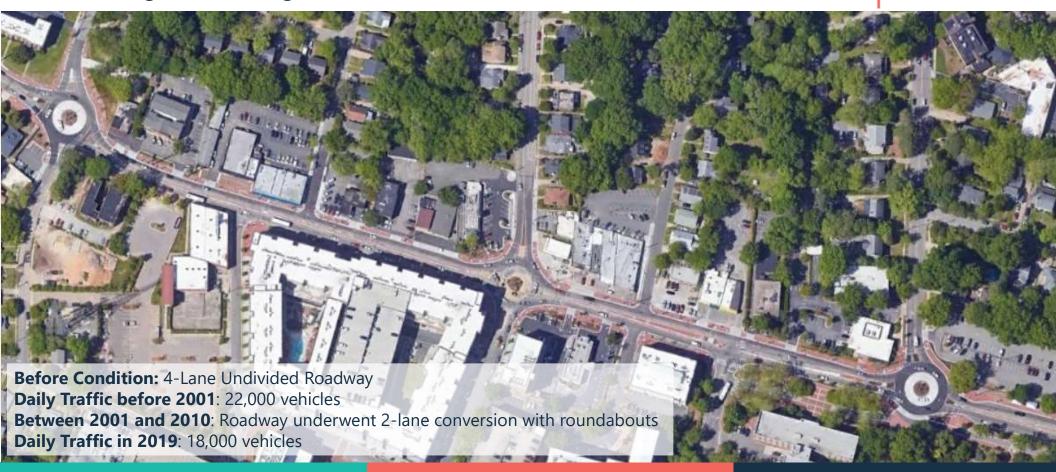
**Improvements:** Roundabouts, median additions, landscaping, on-street parking on both sides of roadway, wide sidewalks,

Hillsborough St in Raleigh, North Carolina

13<sup>th</sup> Street

**University Avenue** 

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Mill Avenue in Tempe, Arizona

13th Street

University Avenue

**Corridor Study** 

PEDESTRIAN-FIRST DESIGN



**COLLEGE TOWN NIGHT LIFE** 



AVERAGE DAILY TRAFFIC

19,000 16,000 AFTER



Source: Rethinking Streets Book





Mill Avenue serves as the interface between Downtown Tempe and nearby Arizona State University.

- Two lanes of traffic were replaced with on street parallel parking.
- Bike lanes were widened and sidewalks redesigned.

Dr Martin Luther King Jr Street in St. Pete, Florida

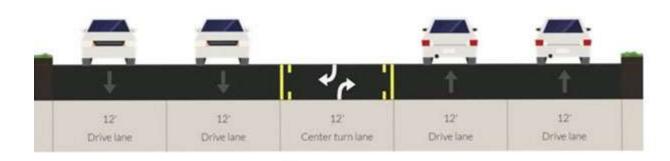
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#### BEFORE - 5-lane roadway



Daily Traffic in 2018: 14,100 to 18,500 vehicles



### AFTER – 3-lane roadway with buffered bike lanes & pedestrian crossings



Daily Traffic in 2019: 14,100 to 18,500 vehicles



Edgewater Drive in Orlando, Florida

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44-45%
REDUCTION IN CRASH AND INJURY
RATE

in Fort Lauderdale, Florida

13th Street

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#### 13th STREET



Before Condition: 4-Lane Undivided Roadway

Daily Traffic in 2016: 17,400 vehicles

Between 2017 and 2018: 2-lane implementation

Daily Traffic in 2019: 13,300 vehicles

#### **WILTON DRIVE**



**Before Condition:** 4-Lane Undivided Roadway

Daily Traffic in 2017: 13,400 vehicles In 2018: 2-lane implementation

Daily Traffic in 2019: 14,700 vehicles

A1A in North Fort Lauderdale, Florida

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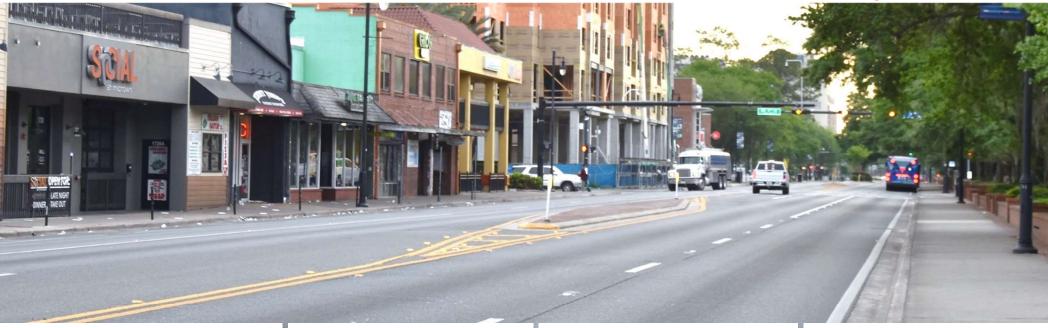


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### **Project Goals**



#### Safety and Speed Management

Promote safety, reduce speeds, and prioritize vulnerable users

#### **Mobility and Access**

Directness, travel times, and convenience

### Placemaking and Community Development

Use street space for people

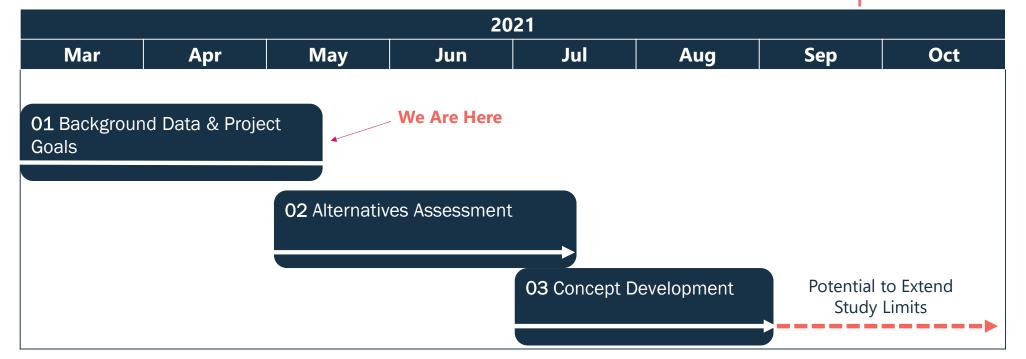
### **Cost and Ease of Implementation**

Rapid cost-effective changes

### **Study Schedule**

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#### **Deliverables**

- 01 Presentation for Background Data & Potential Design Strategies
- 02 Alternatives Assessment Documentation
- 03 Final Concept Plans and Visualizations