

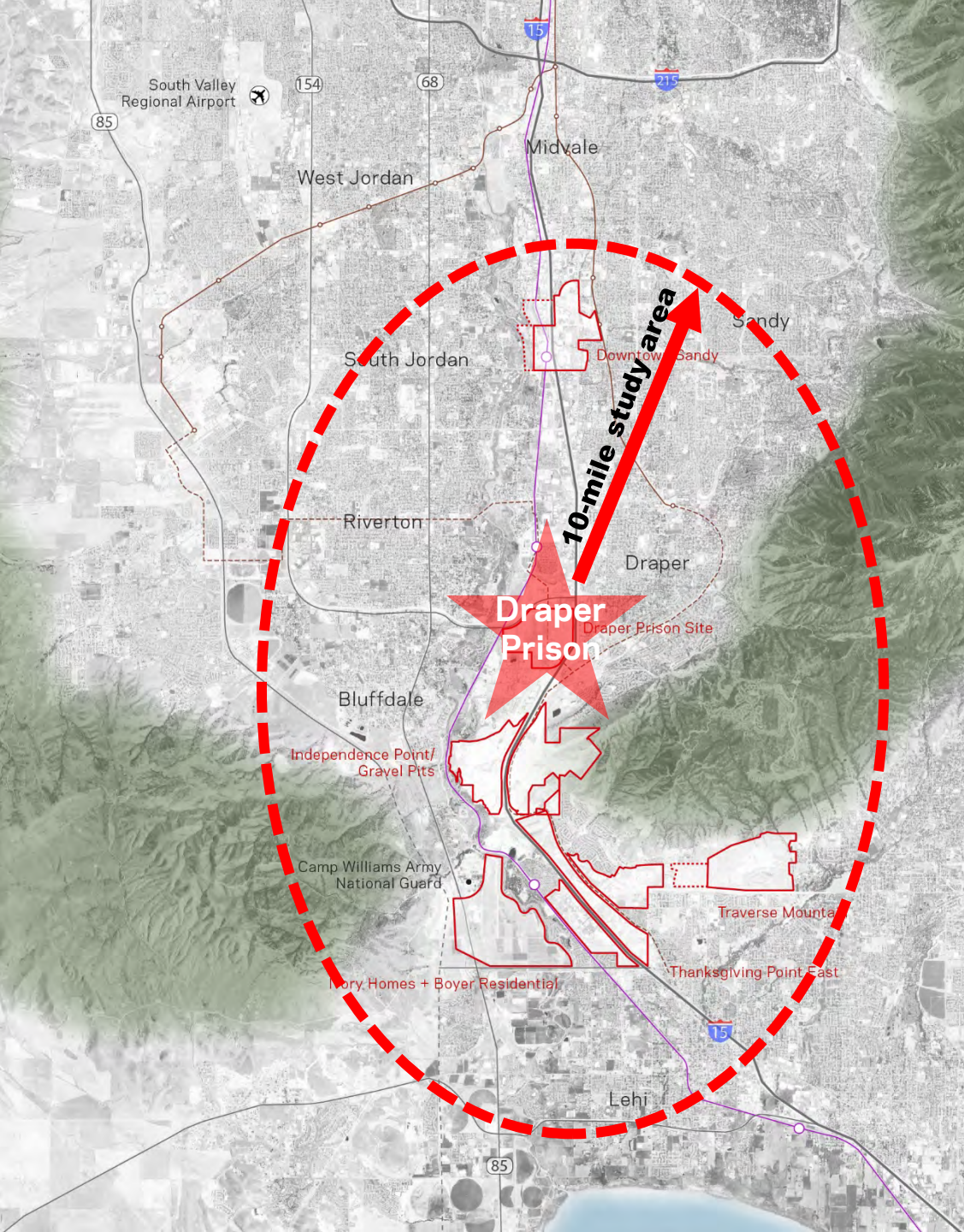


East Bay BRT

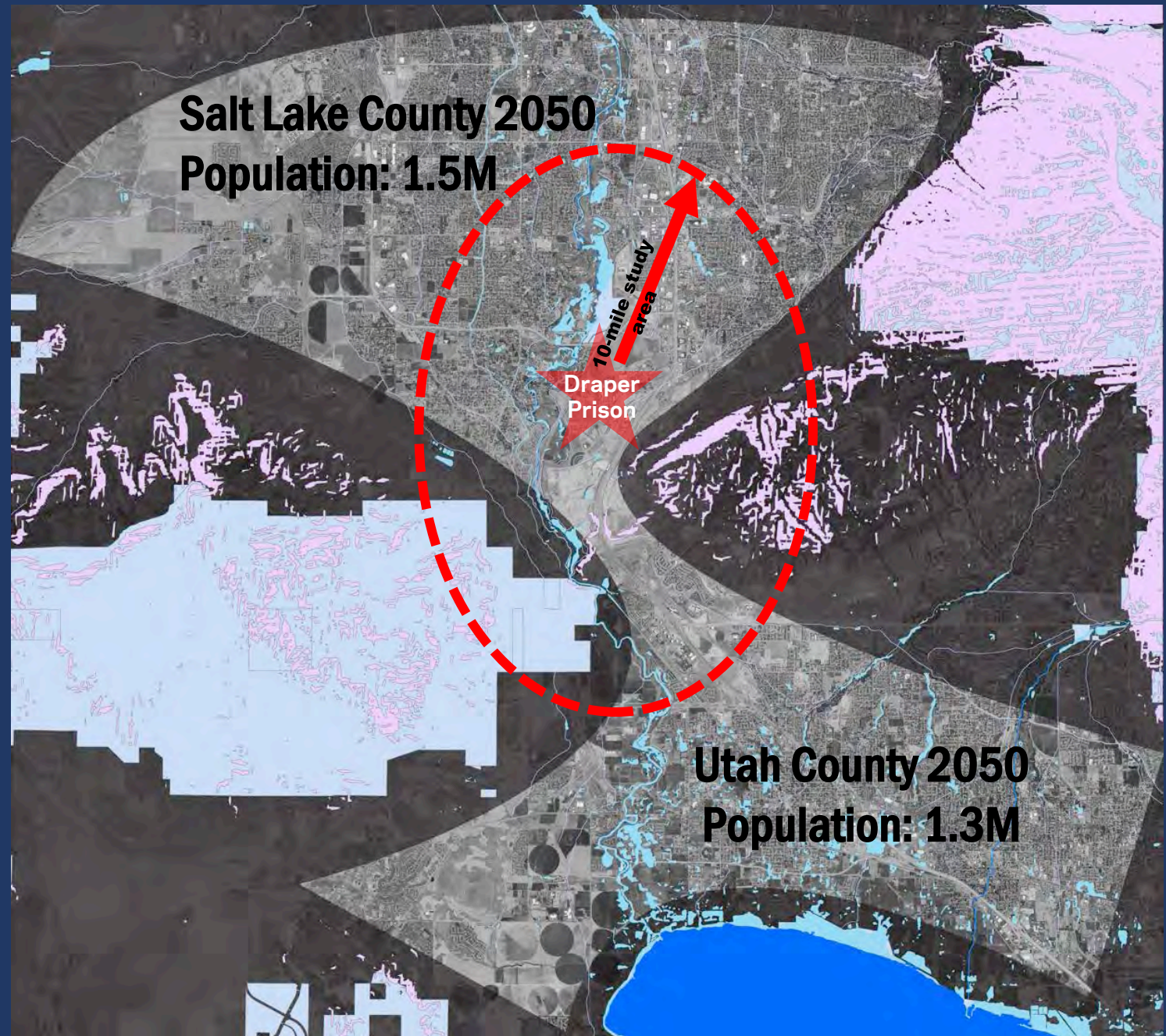
Planning for Bus Rapid Transit



Regional Vision

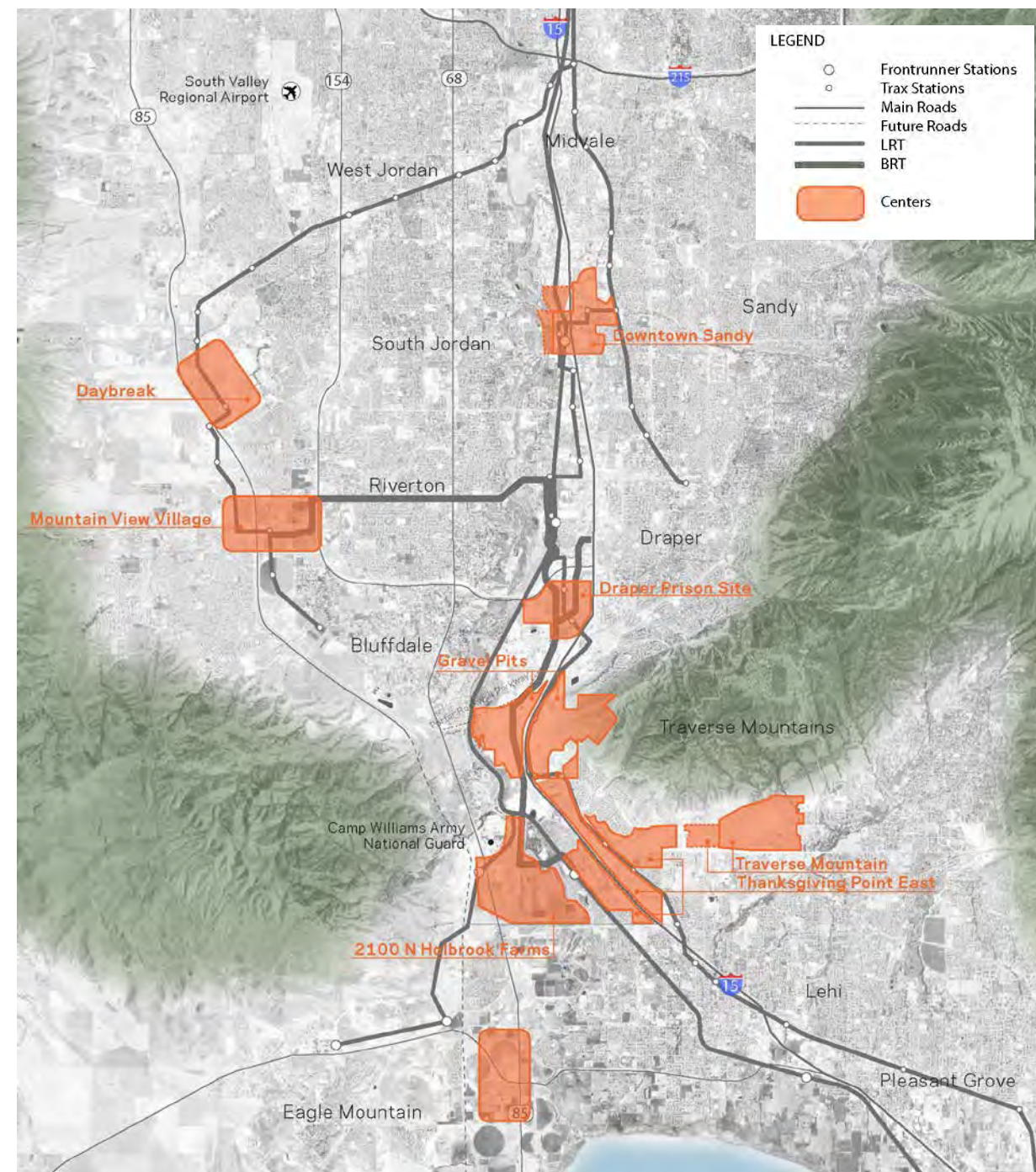


The Bottleneck is a
State-Level issue,
...hopefully with some
State-Level funding!



STUDY AREA OPPORTUNITIES

- Capitalize on location at population center and large community of educated workers,
- Optimize transit and infrastructure investments by coordinating development,
- Define an innovation hub that attracts institutional partners.



2016 EDCUtah Site Selector Study

PERCEIVED UTAH WEAKNESSES

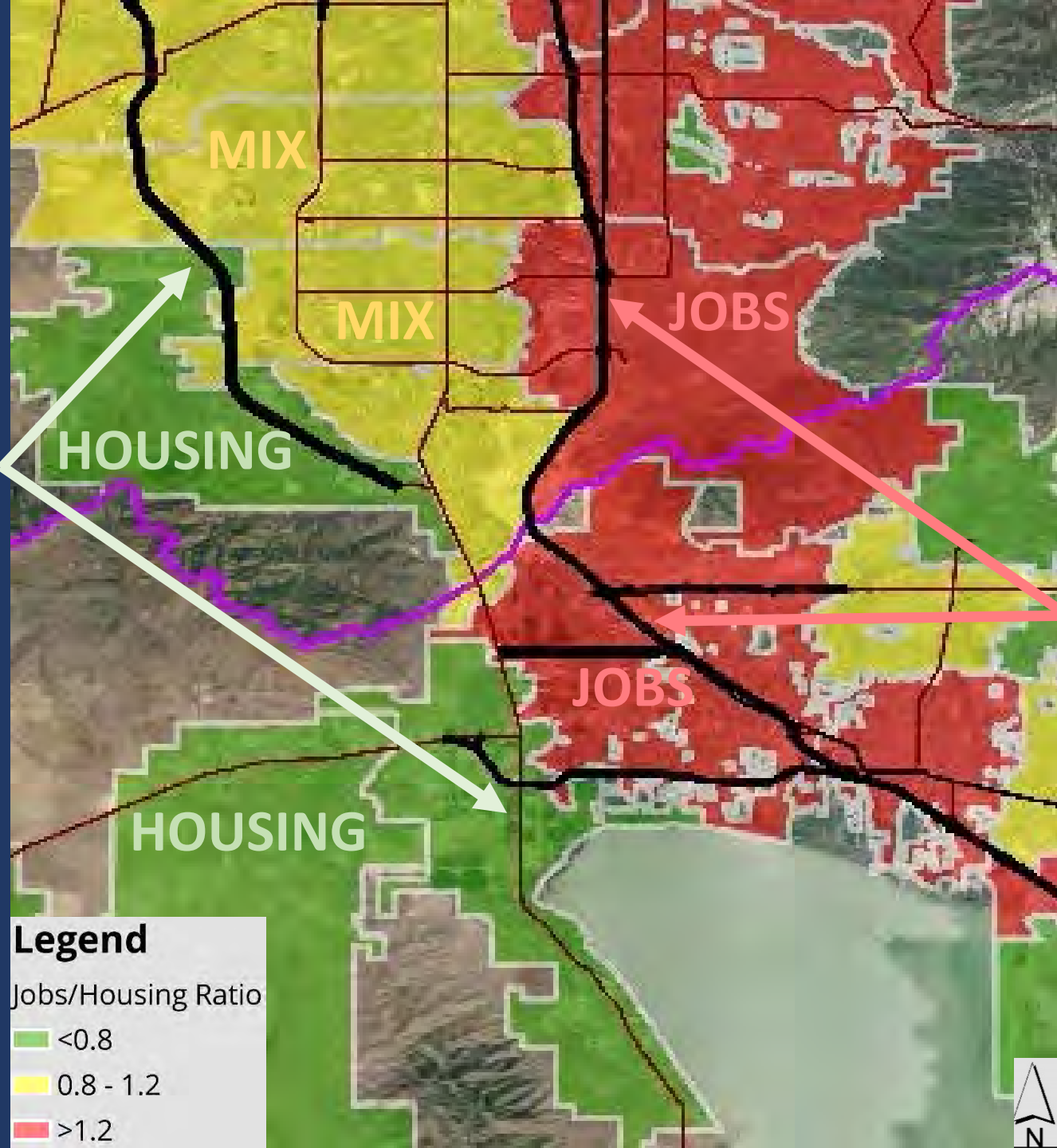
— Percent of site selectors who indicated each category below to be a Utah weakness.



Jobs/Housing Imbalance

Housing is rapidly locating in western SLCo and UTCo

Lack of jobs/housing balance creates east-west traffic congestion.



HOUSING

HOUSING

MIX

MIX

JOBS

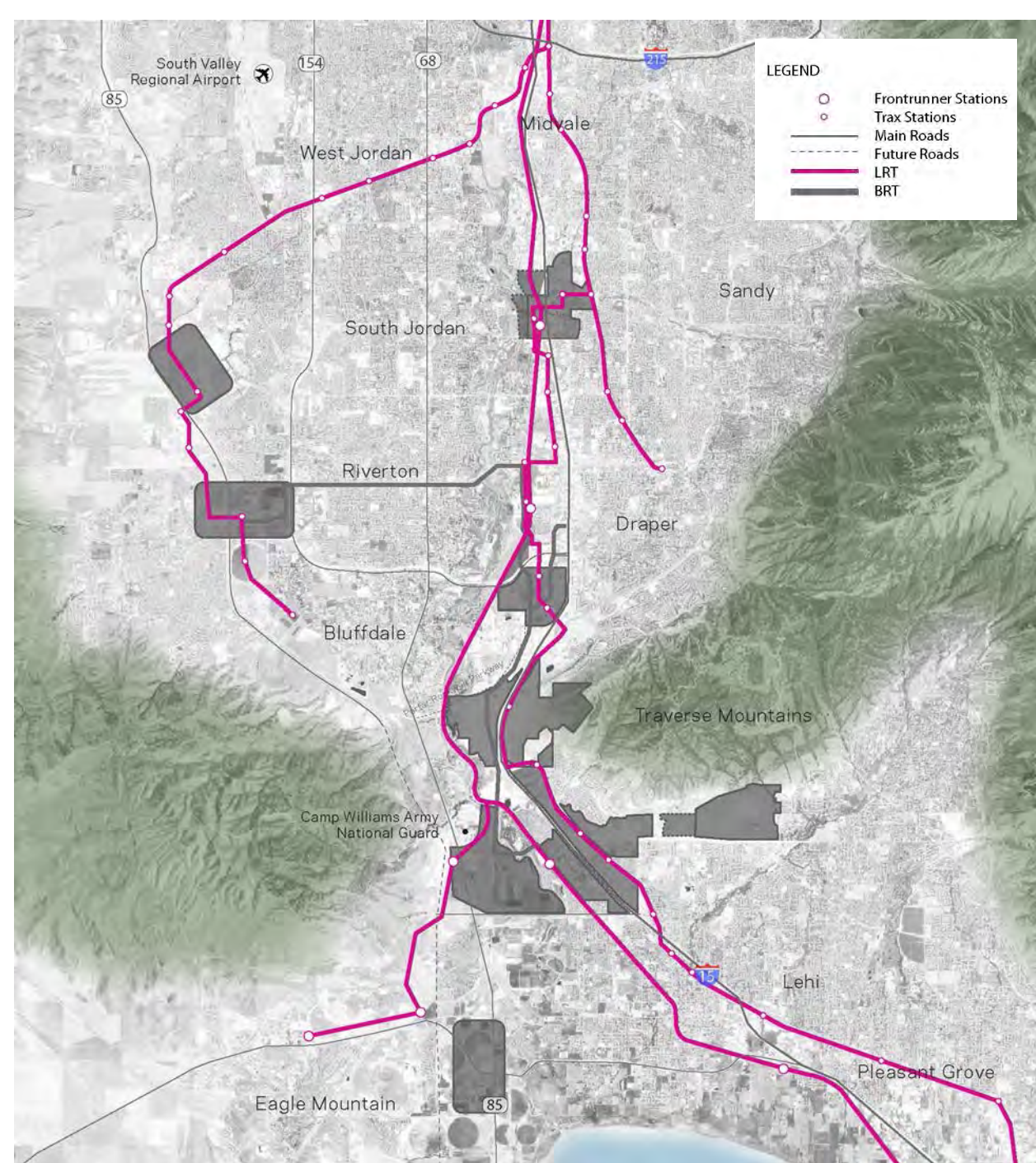
JOBS

However, jobs will continue to locate near/around I-15

“UTA is the best large public transportation system in North America” - American Public Transportation Association

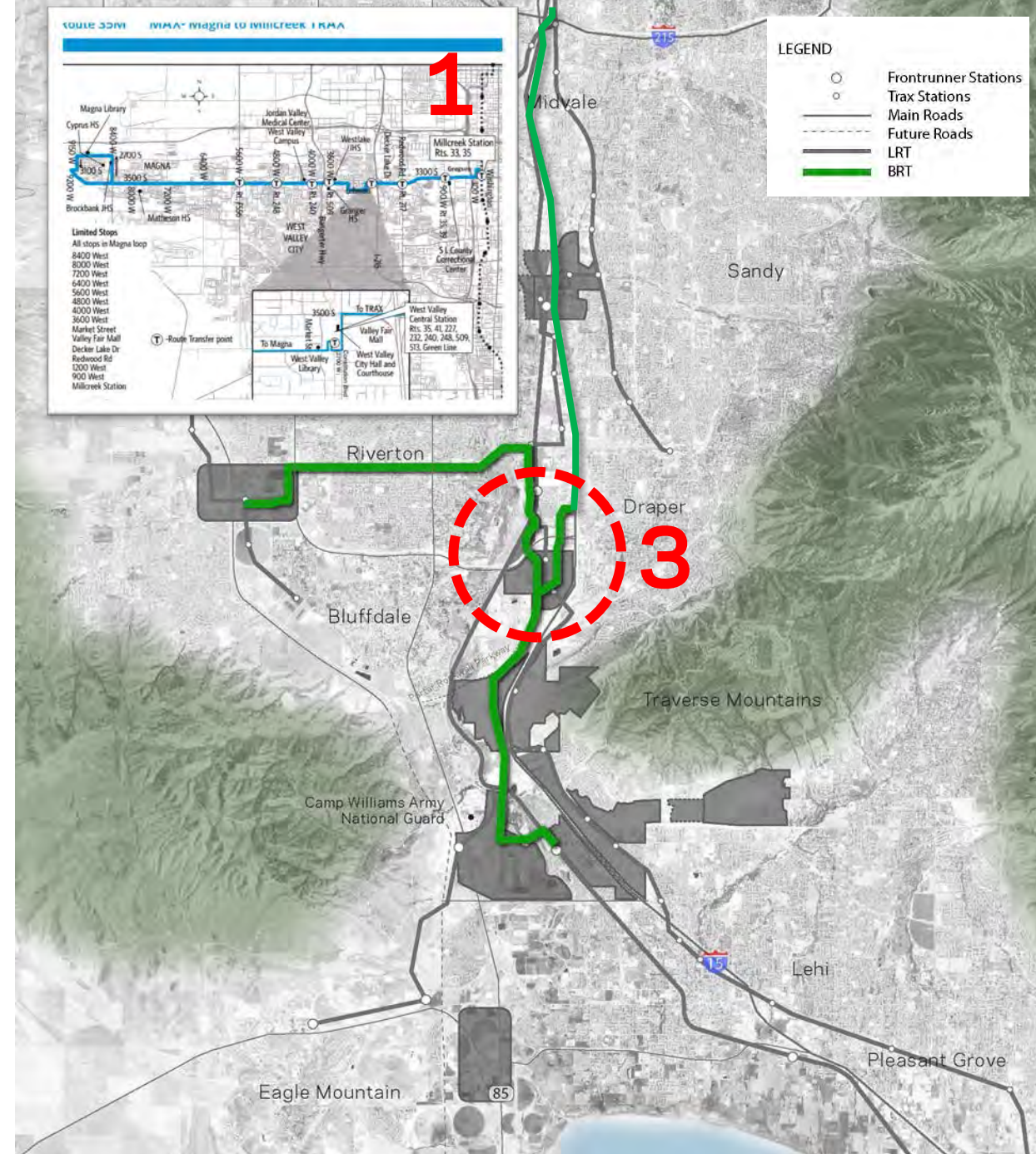
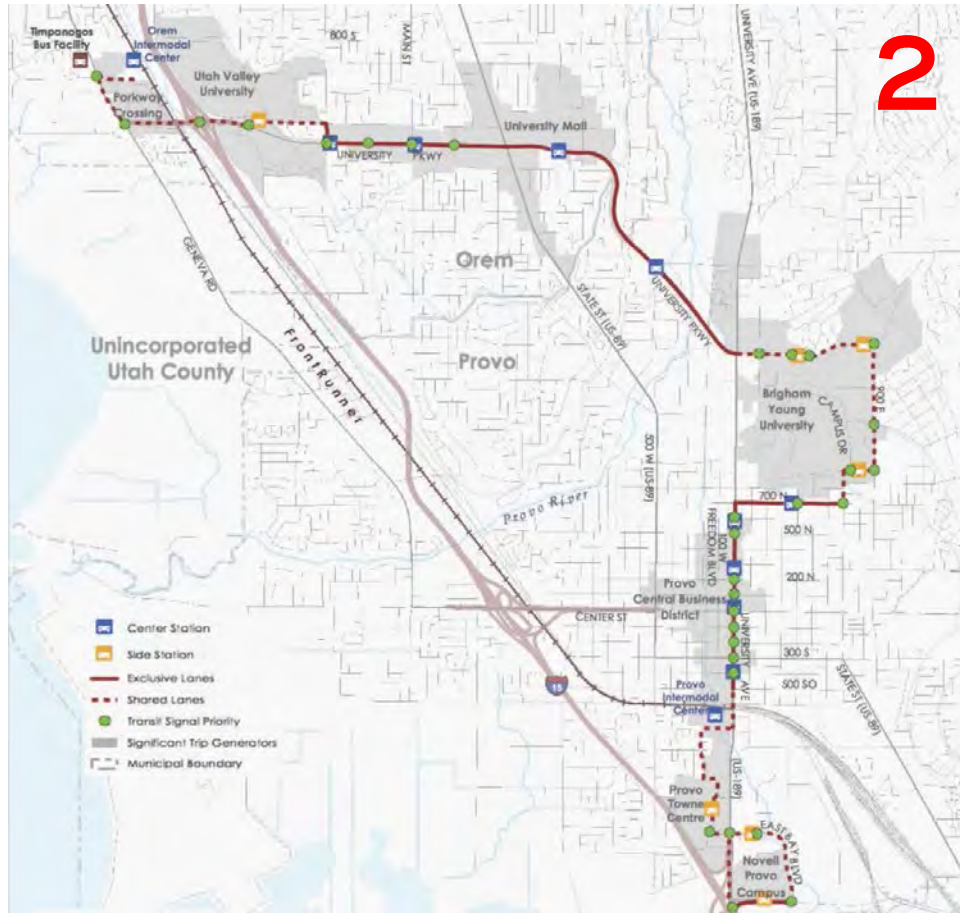


LIGHT RAIL EXTENSION

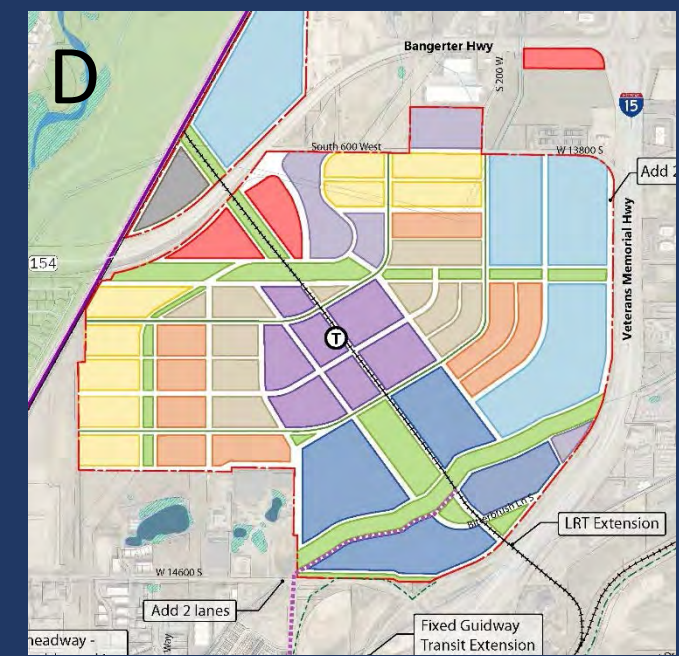
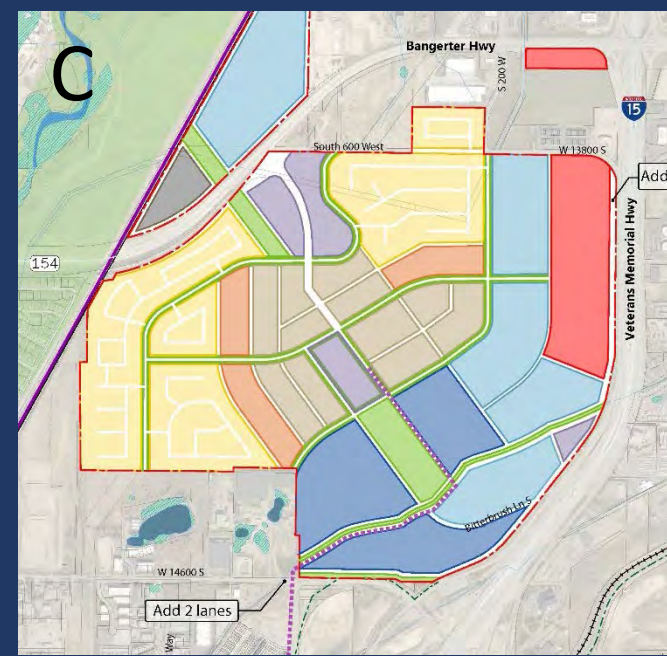
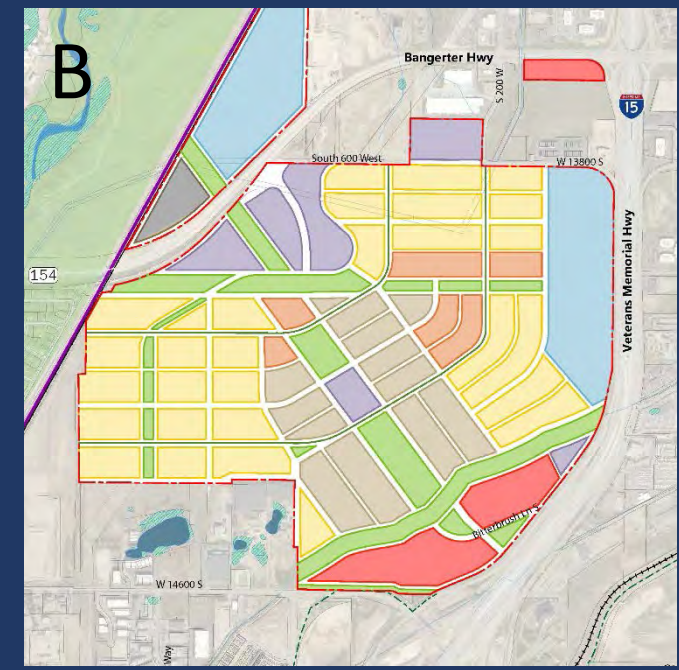
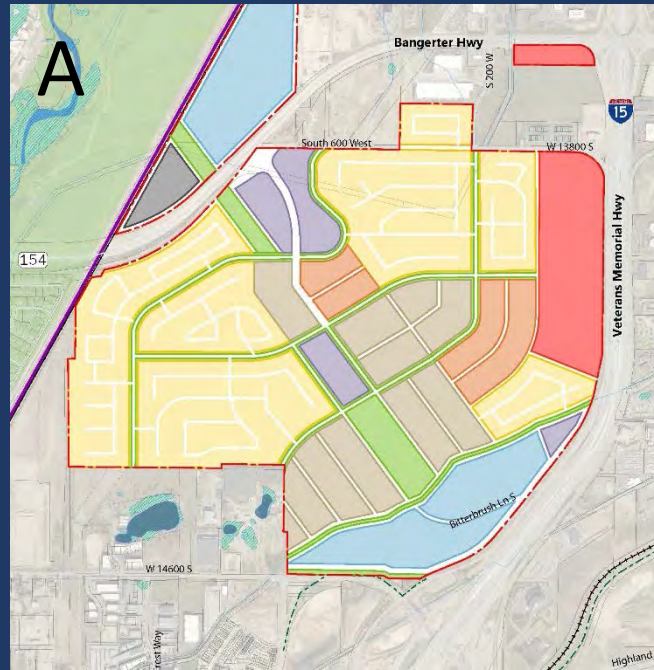


BUS RAPID TRANSIT EXPANSION

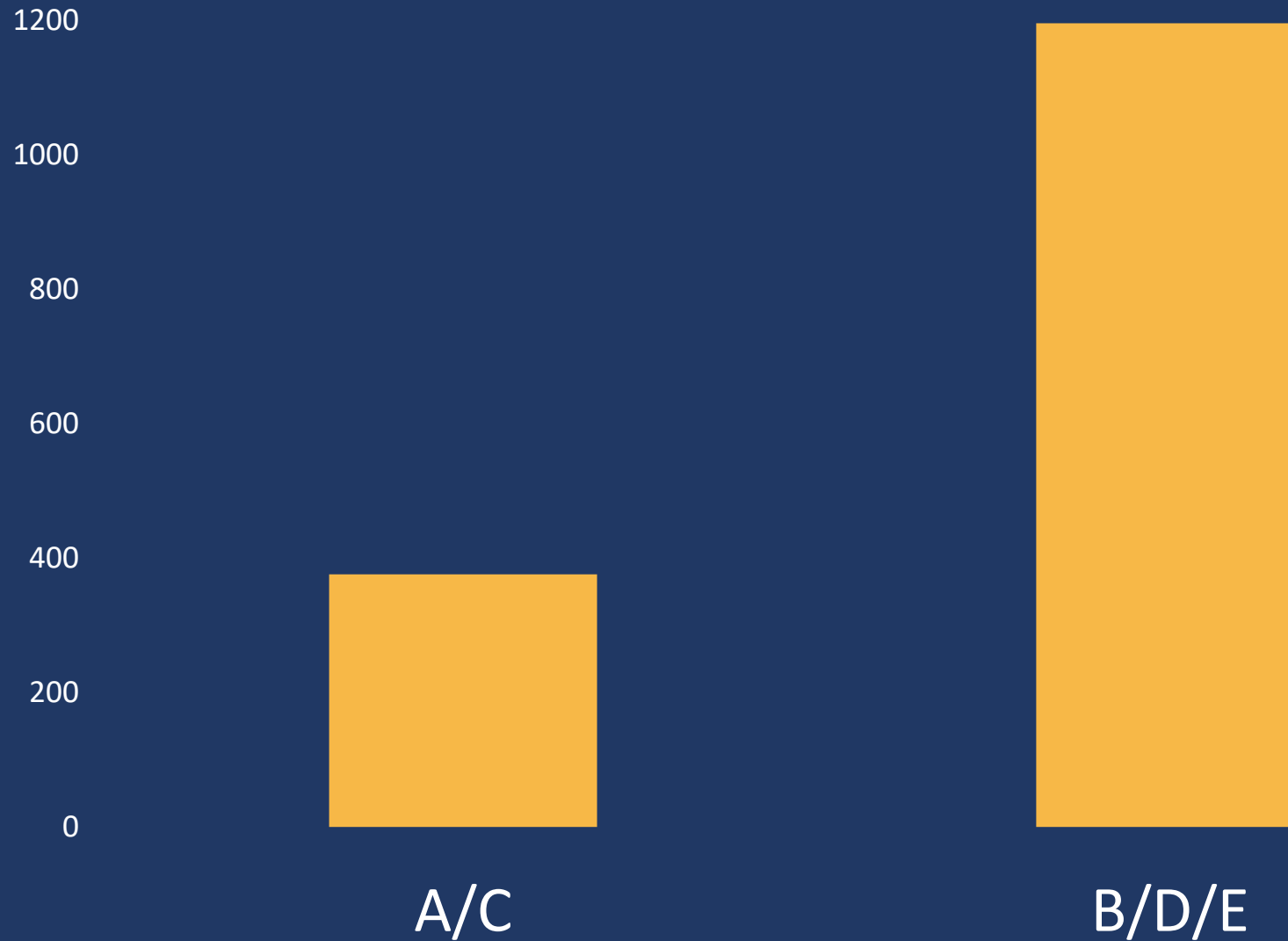
Three UTA Routes



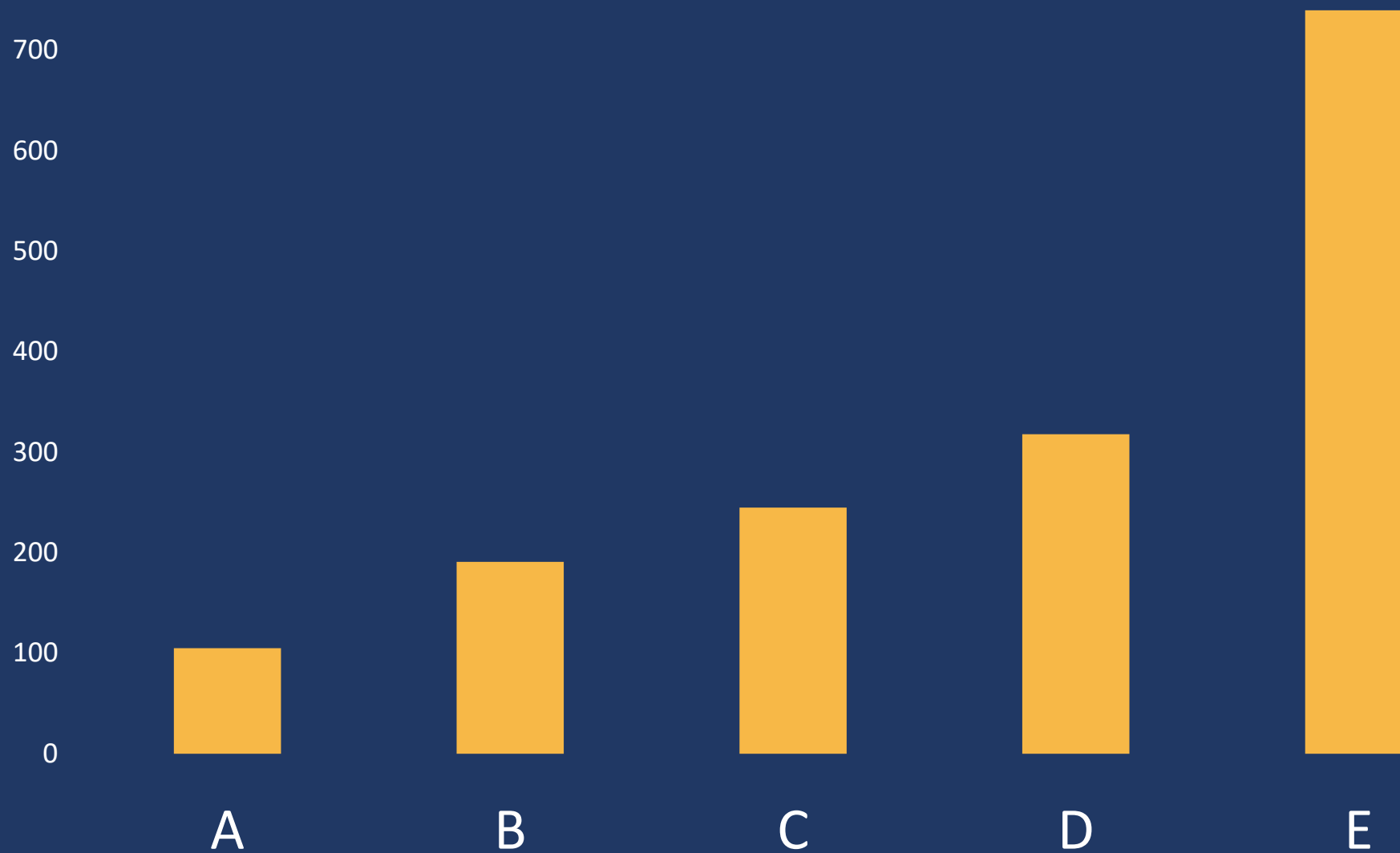
Scenarios



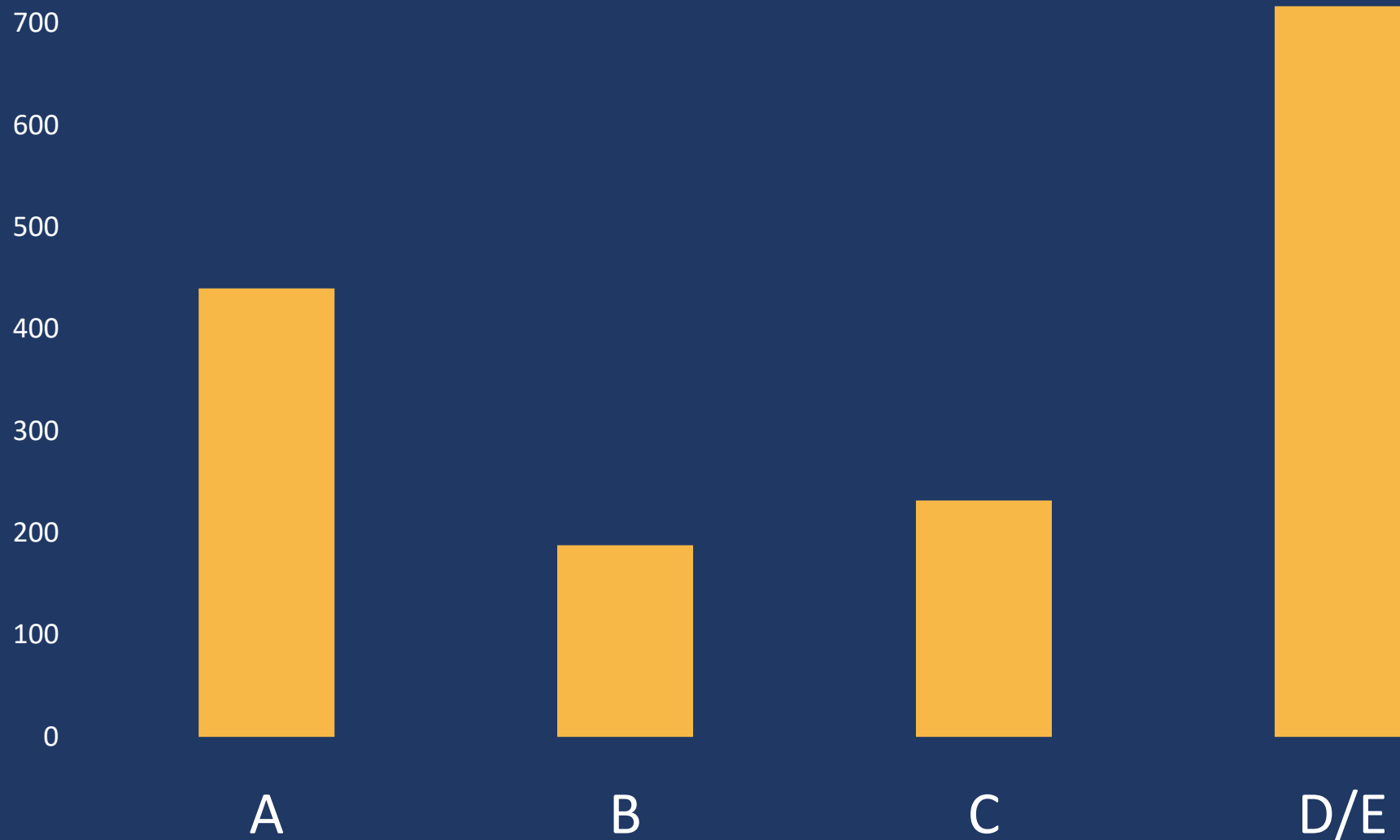
Jobs & Economy



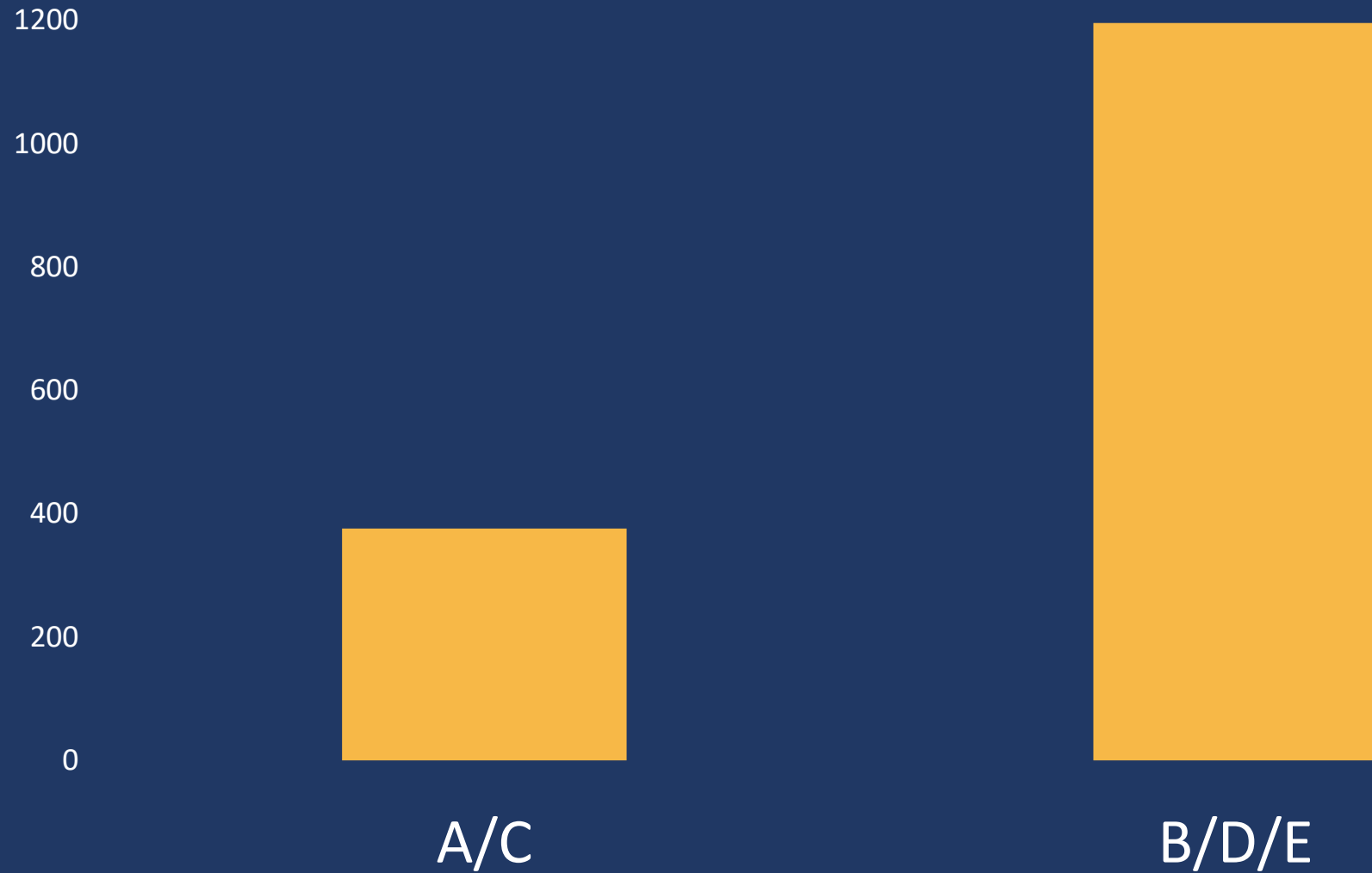
Transportation



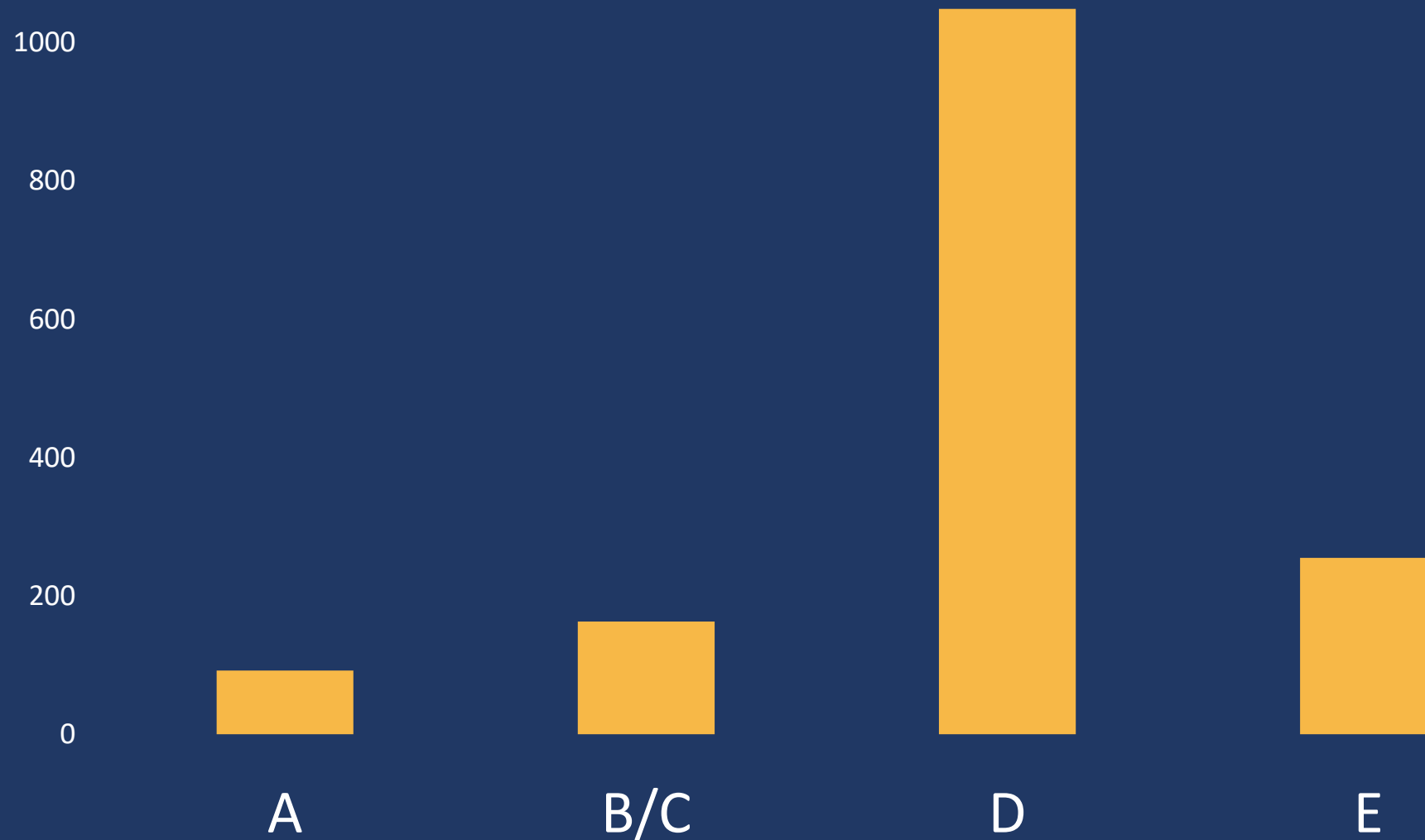
Community Design



Recreation



Air Quality

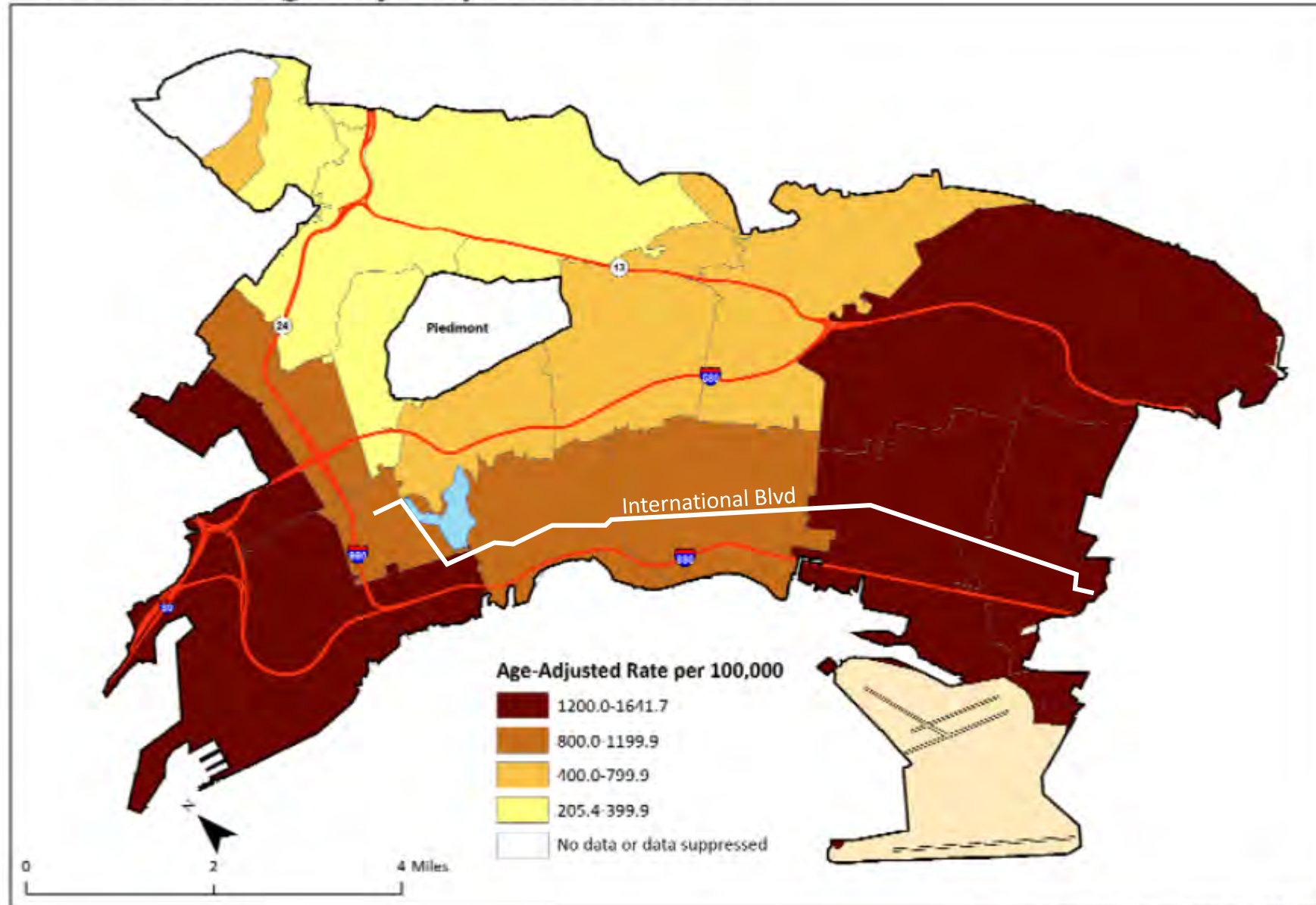


Infrastructure for Health

A group of people, including several adults and two children, are walking away from the camera on a paved sidewalk. The group is diverse in age and appearance. To their right is a road with several vehicles, including a white sedan, a dark SUV, and a red car. In the background, there are trees and a utility pole. The overall scene suggests a community or neighborhood setting.

“the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life.” (WHO, 2017)

Asthma Emergency Department Visits



70% of air pollution in this area is attributable to **Traffic**

Source: CAPC, with data from OSHPD 2011-2013.



Planning for Health

HEALTH

Aging
Open Space
Access
Quality of Life

SOCIAL

Prioritizing People
Culture
Equity
Multi-Generational

INNOVATION

Mobility / Livability
Connectivity
Attraction / Retention
Education
Economic Development

PUBLIC LIFE

Population Health

Trust

Civic Engagement

Social Capital

Social Capital

Economic Development

Active Mobility

Attracting & Retaining Talent

Local Identity

Safety

Real Estate Value

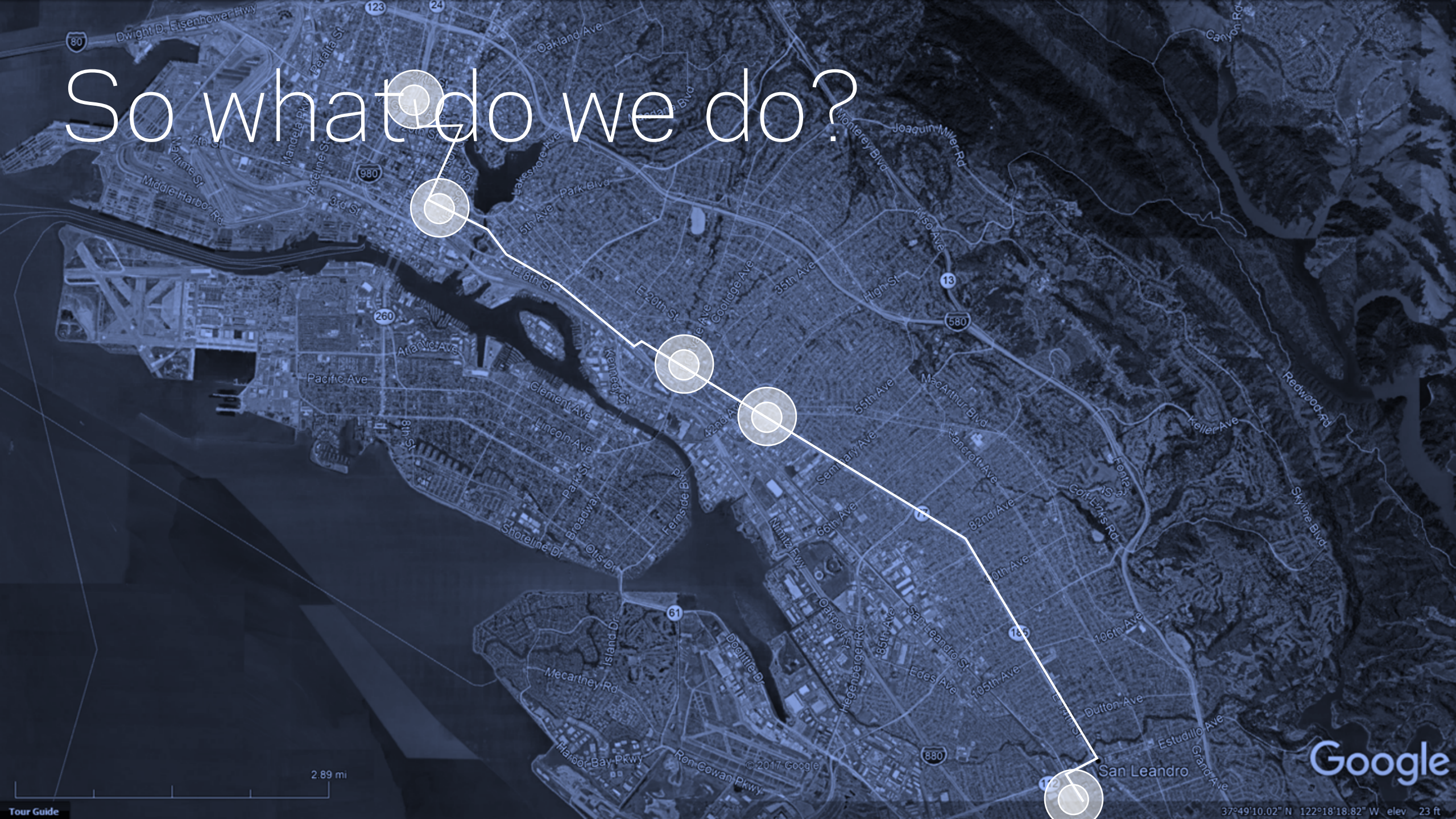
Resilience

Equity and Access

Sustainability



So what do we do?



2.89 mi

How?

1. Visualize **VALUE**;
2. Think **CORRIDORS**, instead of 'stations';
3. Think **COMMUNITY**, instead of 'transportation';
4. Think **PARTNER**, instead of 'competitor'; and
5. Think **CHAMPIONS**, instead of 'stakeholders'.

1. Visualize VALUE



1. Visualize VALUE

ACTIVE
TRANSPORTATION

RETAIL / GROCERY
SHOPPING /
AMENITY SERVICES

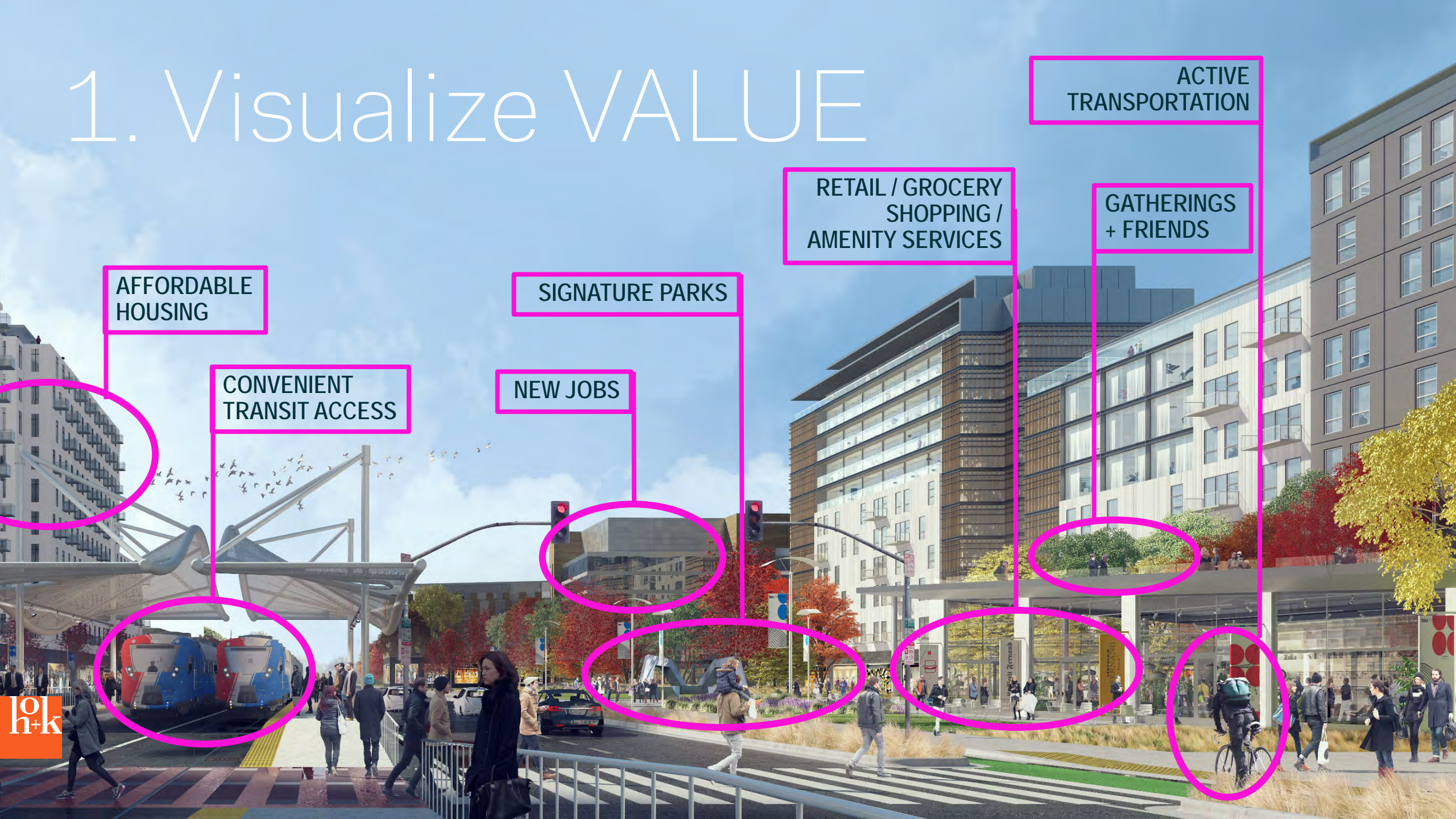
GATHERINGS
+ FRIENDS

AFFORDABLE
HOUSING

SIGNATURE PARKS

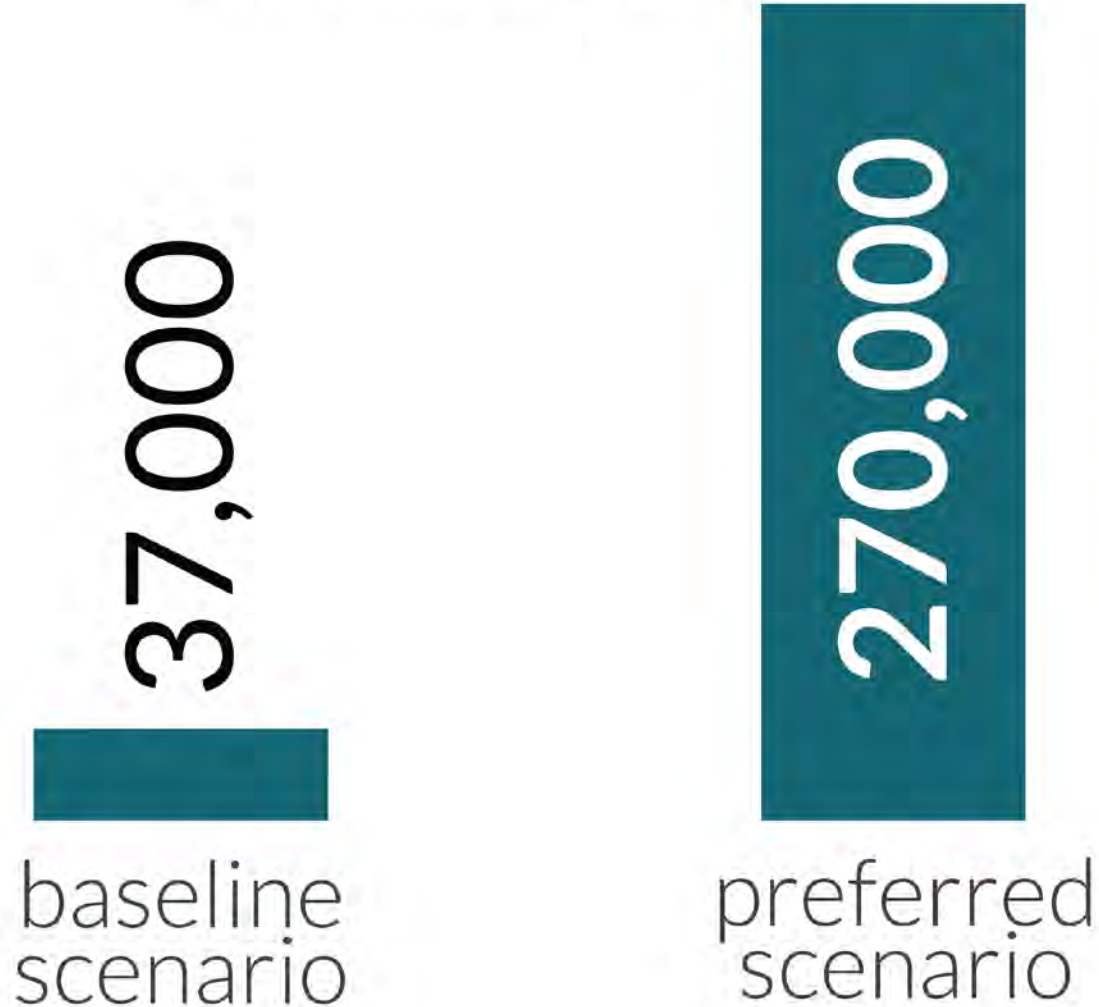
CONVENIENT
TRANSIT ACCESS

NEW JOBS



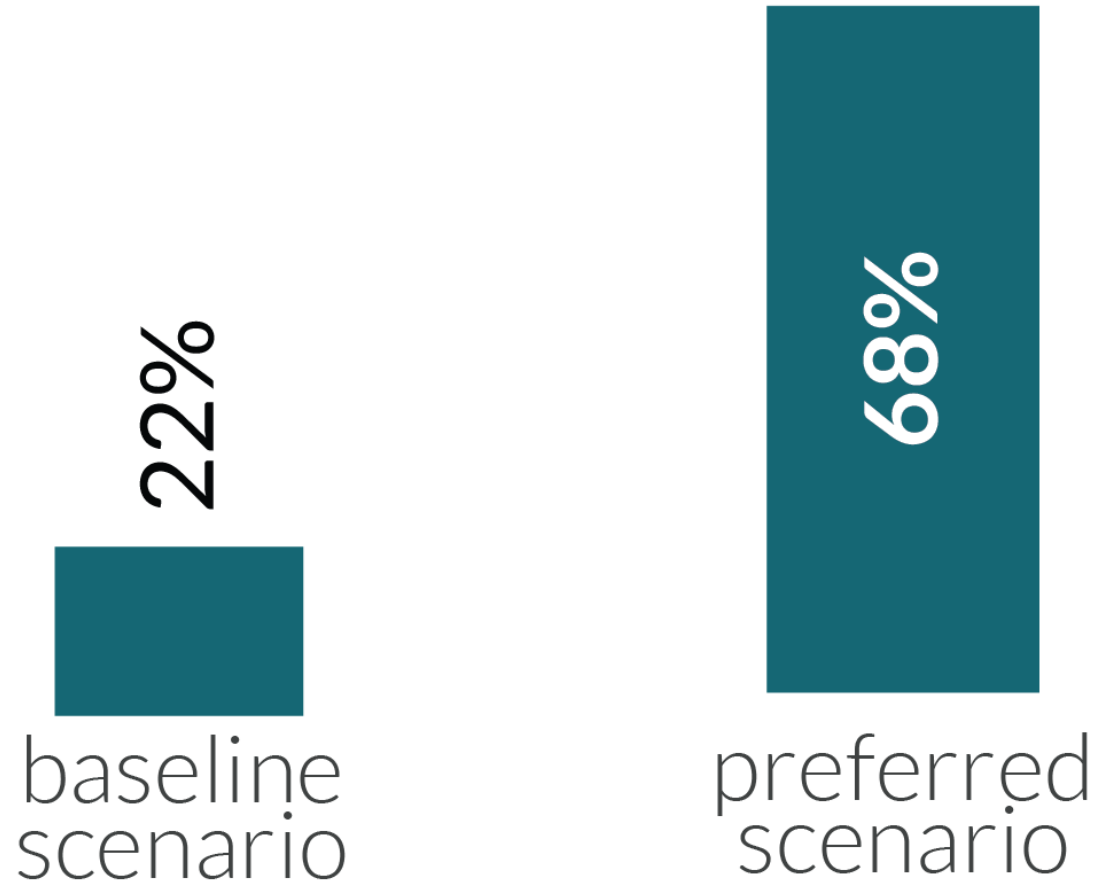
Access to Jobs by Transit

(jobs within a 45 minute public transportation trip from the draper prison site)



Percent of Households Within Half a Mile of Transit

(light rail, heavy rail, and/or bus rapid transit)



Daily Regional Vehicle Miles Traveled

(in millions)

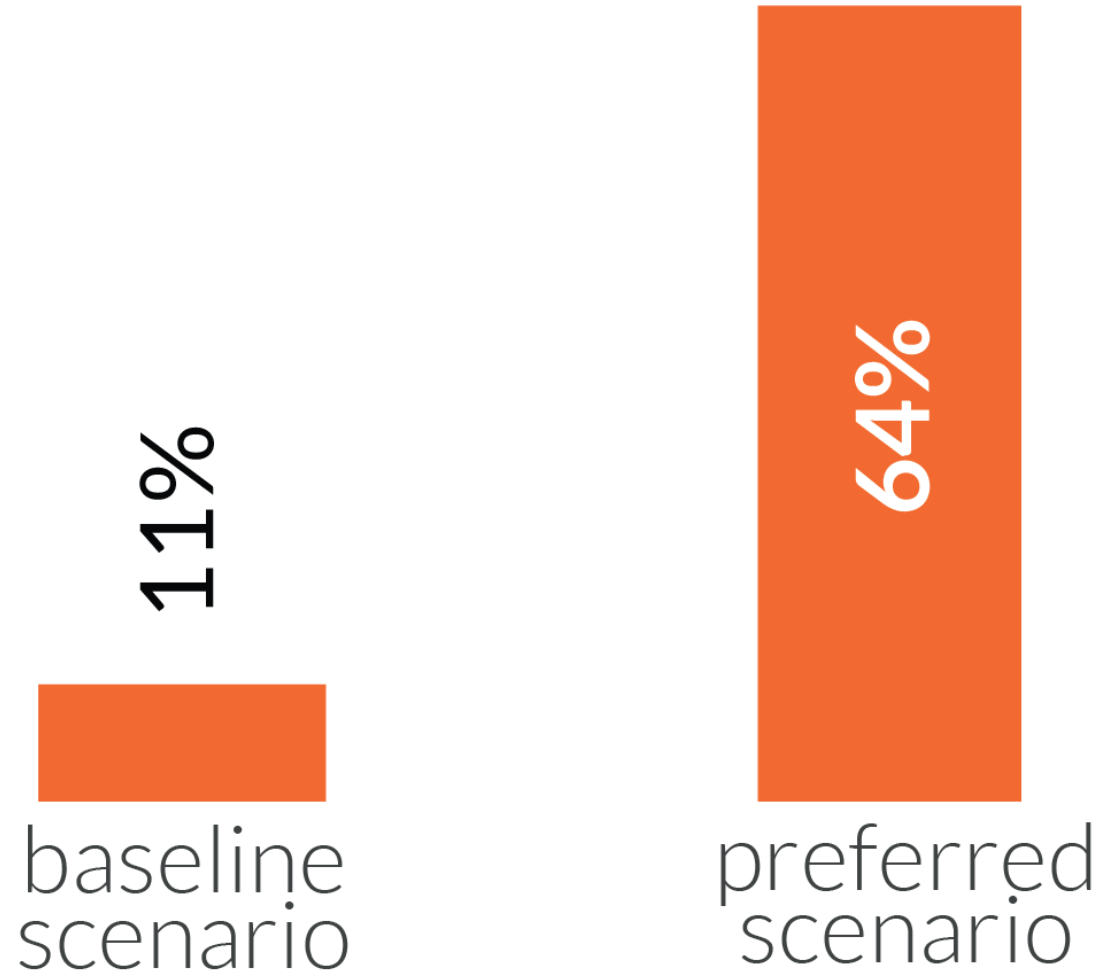


baseline
scenario



preferred
scenario

Percent of Households Within Half a Mile of a Center



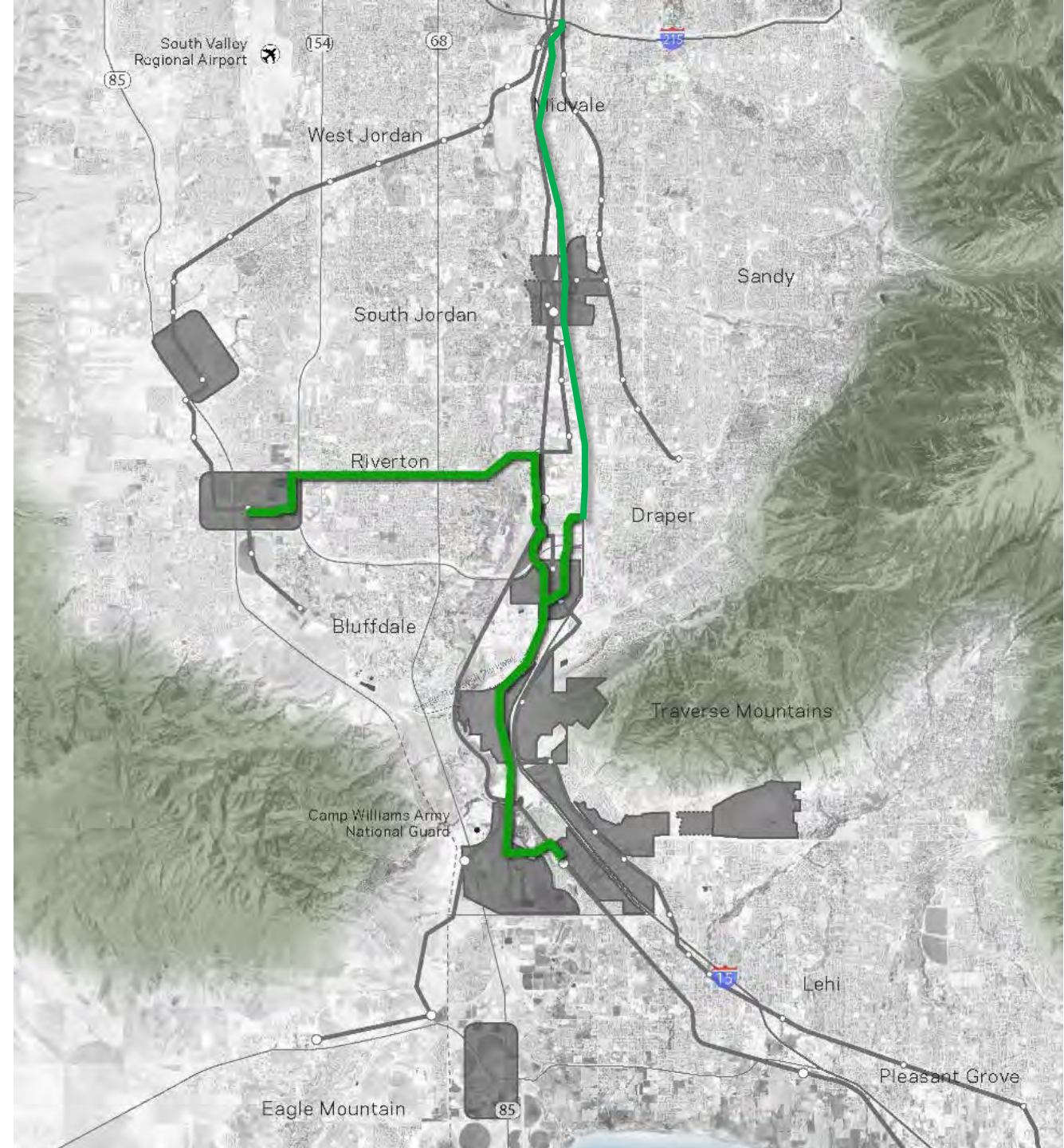
2. Think CORRIDORS

Employment clusters drive regional transit use.

Promote growth in corridors.

Integrate land use and transit planning.

Salt Lake City, UTA Corridor



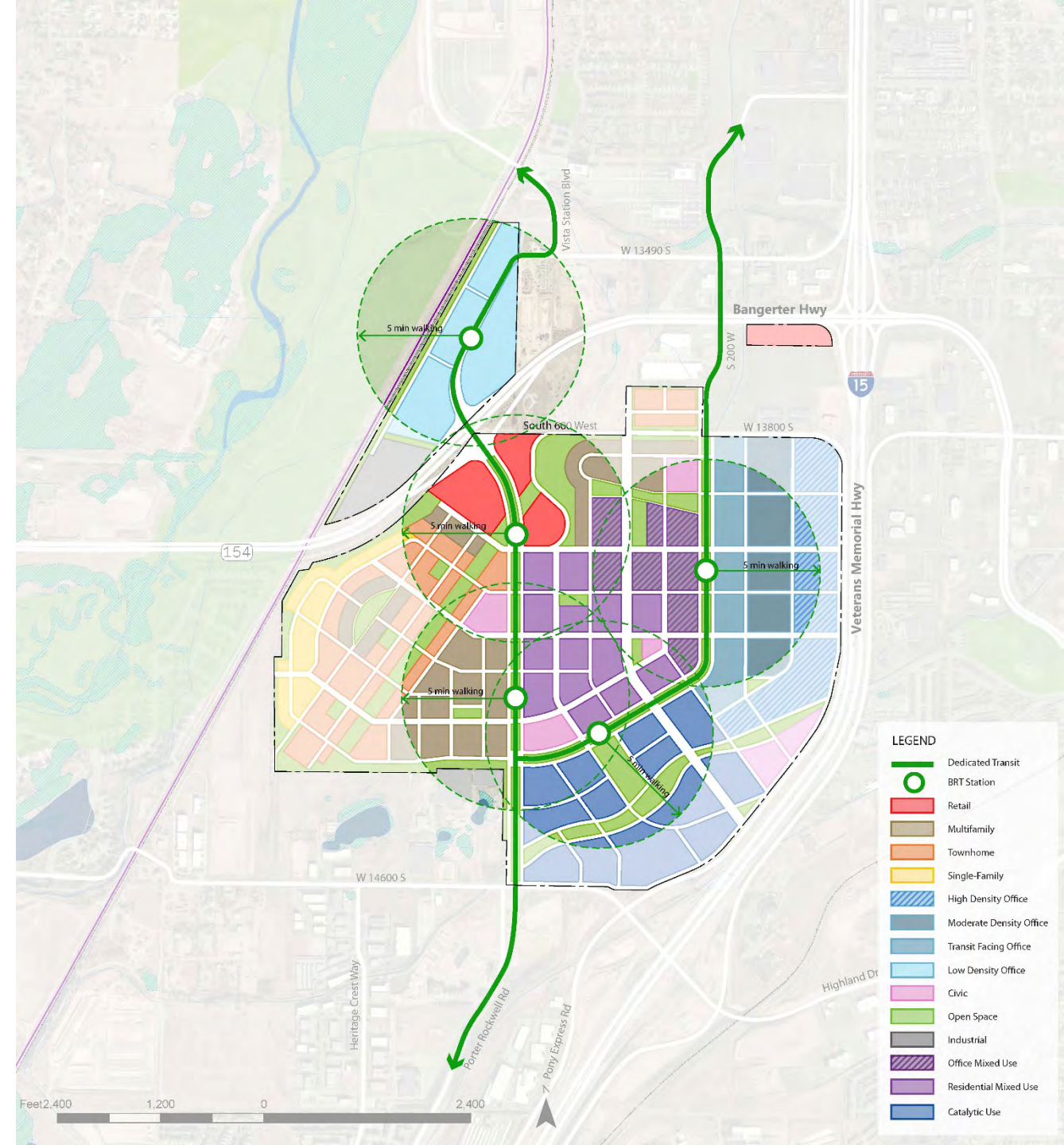
2. Think CORRIDORS

Mix of land uses

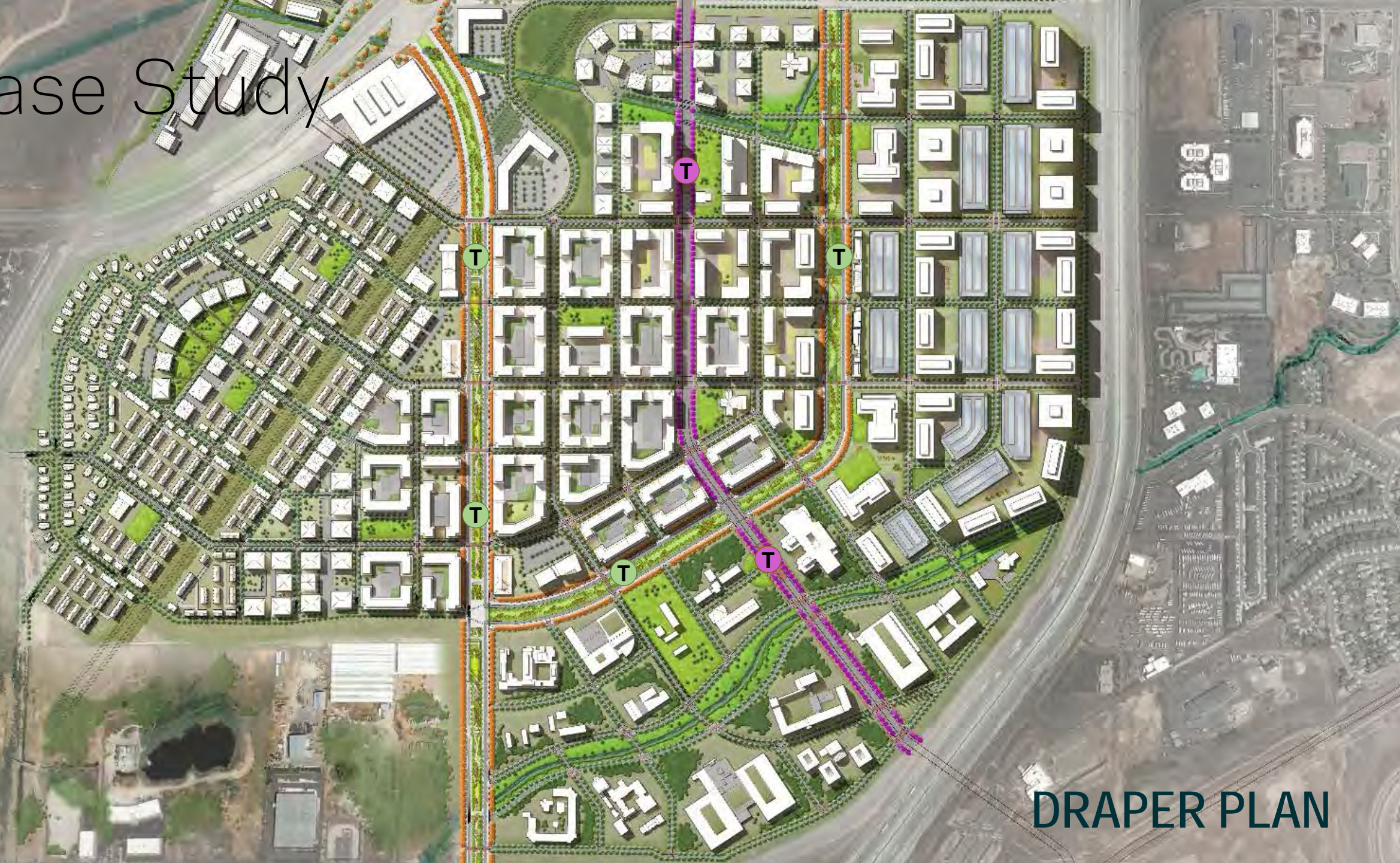
Density around transit

Quarter-mile spacing within commercial / jobs zones.

Draper, UTA Station Project

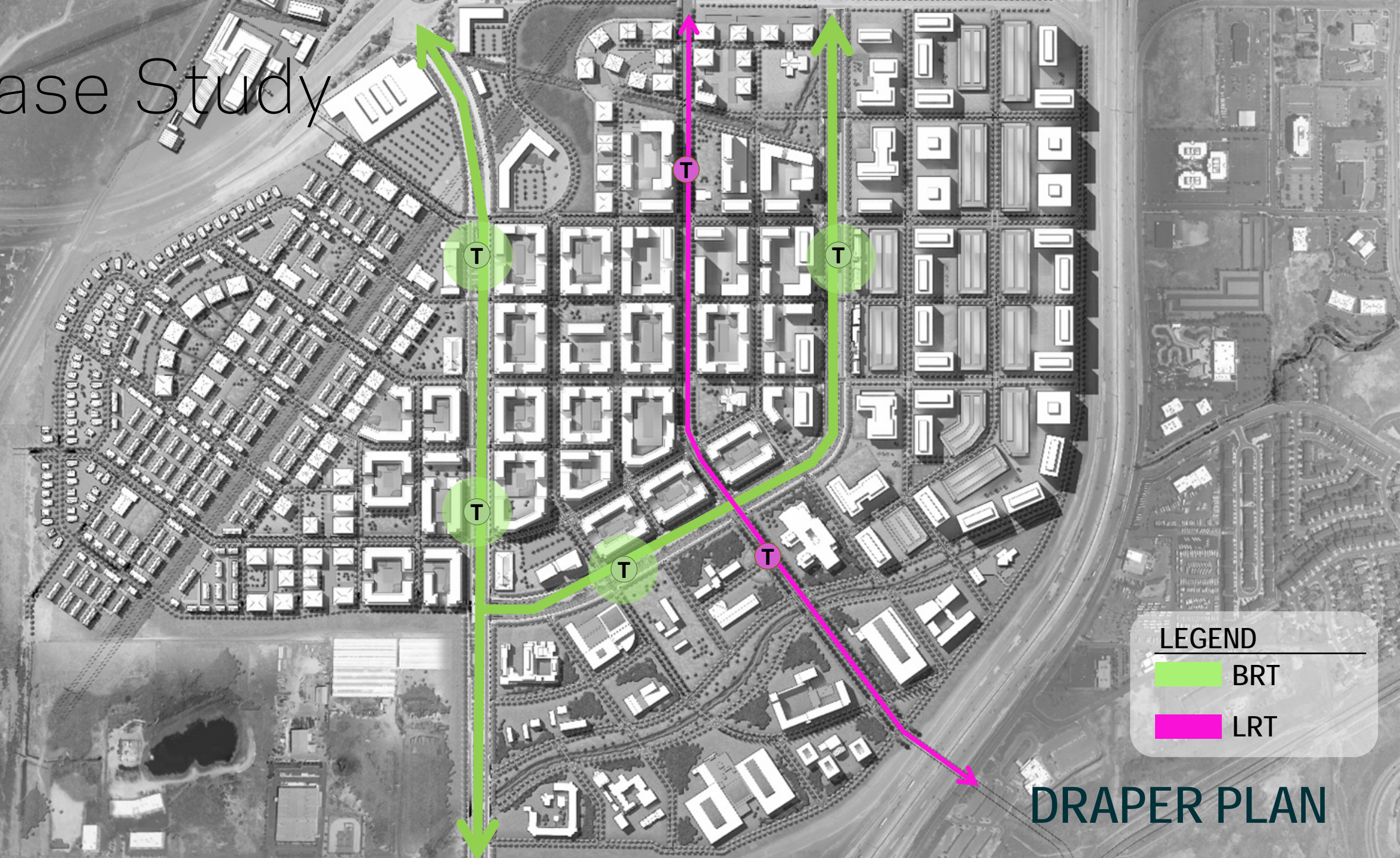


Case Study



DRAPER PLAN

Case Study



LEGEND

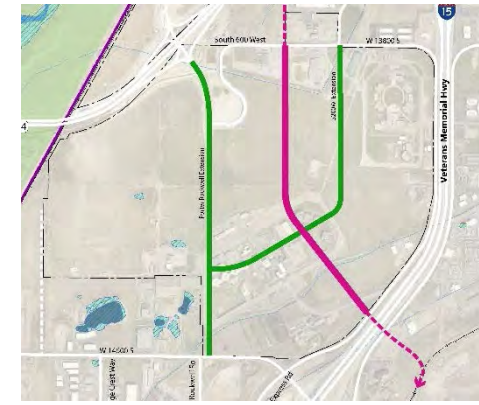
 BRT

 LRT

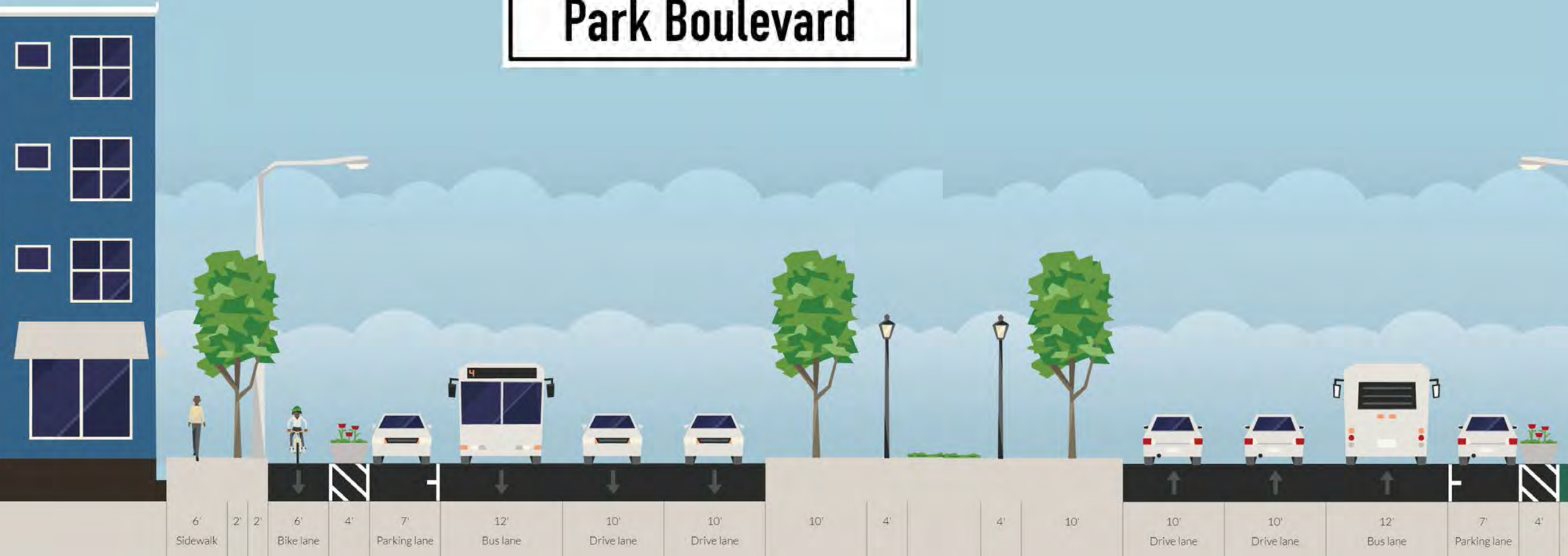
DRAPER PLAN

KEY ELEMENTS

- Dedicated BRT lane – must travel faster than a private vehicle!
- Adjacent to highest-density residential and commercial uses
- Buffered Bike Lane – equity follows safety



Park Boulevard



6'	2'	2'	6'	4'	7'	12'	10'	10'	10'	4'	4'	10'	10'	10'	12'	7'	4'
Sidewalk			Bike lane		Parking lane	Bus lane	Drive lane	Drive lane					Drive lane	Drive lane	Bus lane	Parking lane	

OFFICE DISTRICT

DEDICATED TRANSIT



3. Think COMMUNITY



MIXED USE TOWN CENTER

Mix of Uses near BRT

- Residential units;
- Office Space;
- Ground floor retail and amenities; and
- 9 acres of new destination parks, civic use and open space.



RESIDENTIAL NEIGHBORHOODS

Recommended Densities

- Minimum 15-20 du/acre for BRT;
- Recommended 30-50 du/acre;
- With 5-story apartment blocks, we've shown 90-du/acre along BRT.



4. Think PARTNER



5. Think CHAMPION



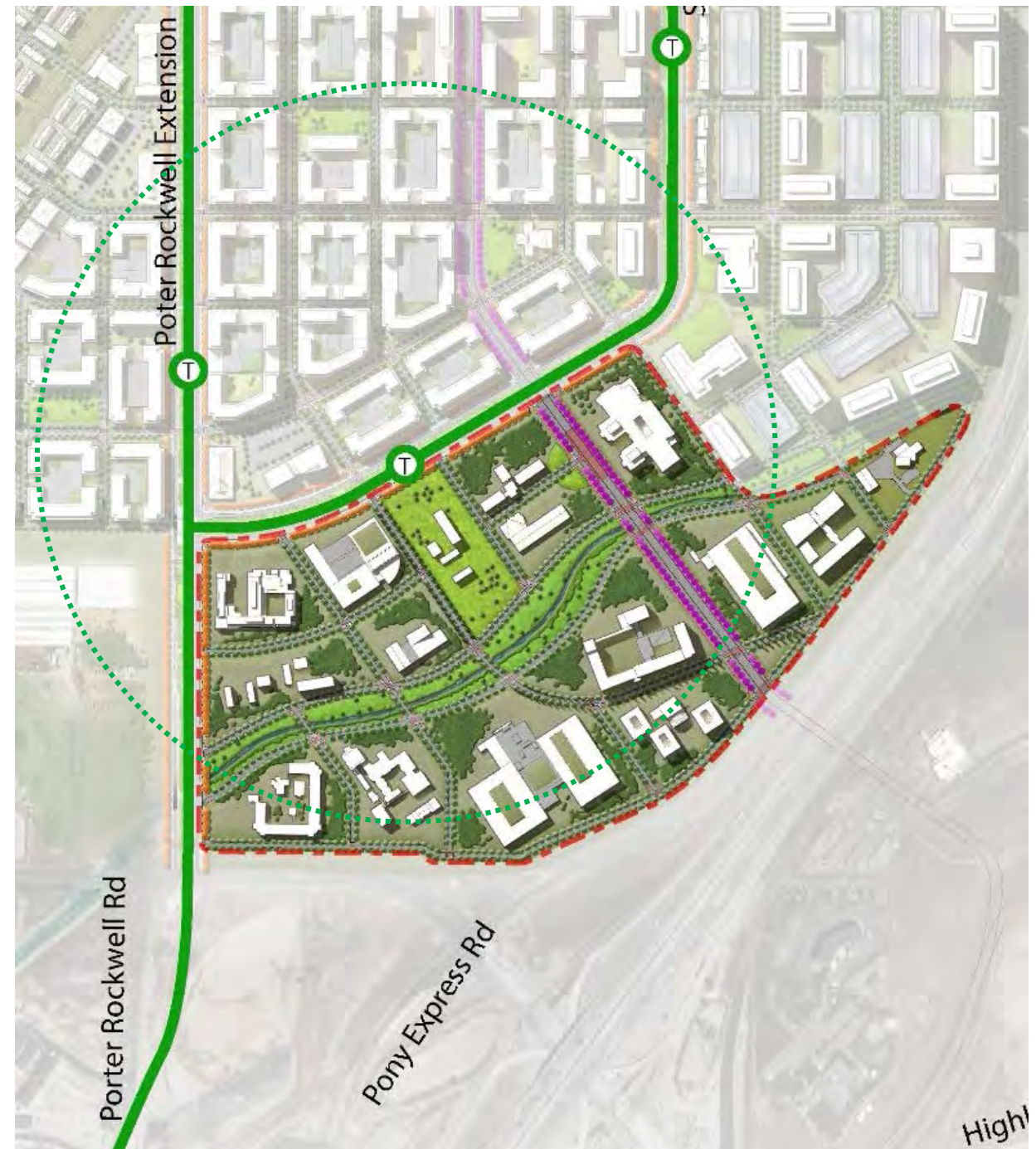
Major anchor institutions (healthcare, education providers) and real estate community are natural champions. For example, Cleveland Line.

University of Utah

RESEARCH / CATALYTIC DISTRICT

Key Elements

- Future Academic or large Employer
- 12 acres of Civic and Open Space
- New Attraction: Draper Guard Tower Public Transit Plaza

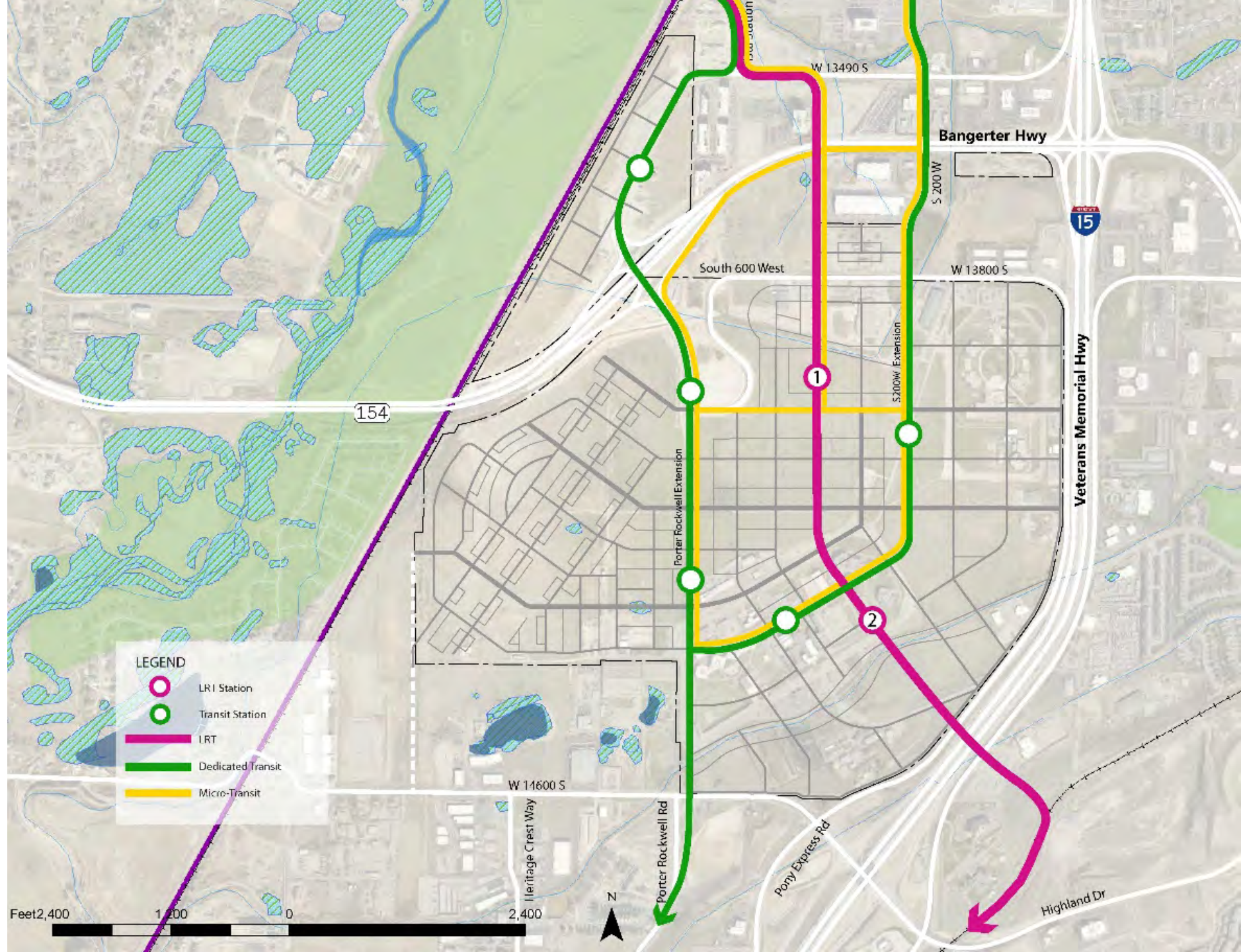


Wrapping it Up

02

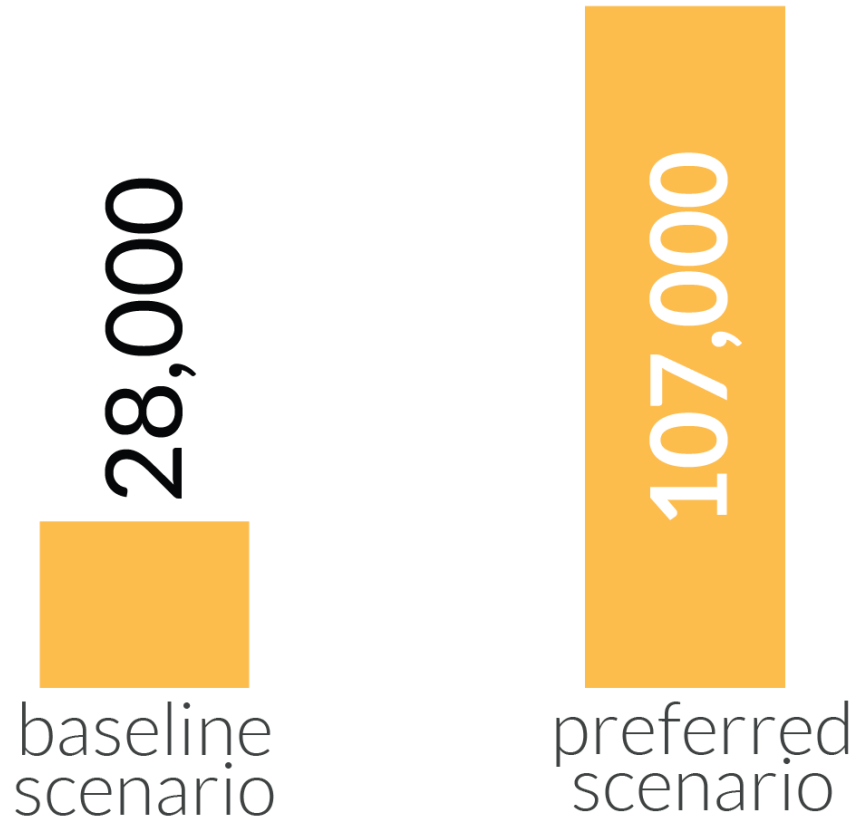
KEY ELEMENTS

- Light Rail Transit
- Dedicated BRT Lanes
- Micro-transit Shuttles



Success Metrics

Daily Ridership



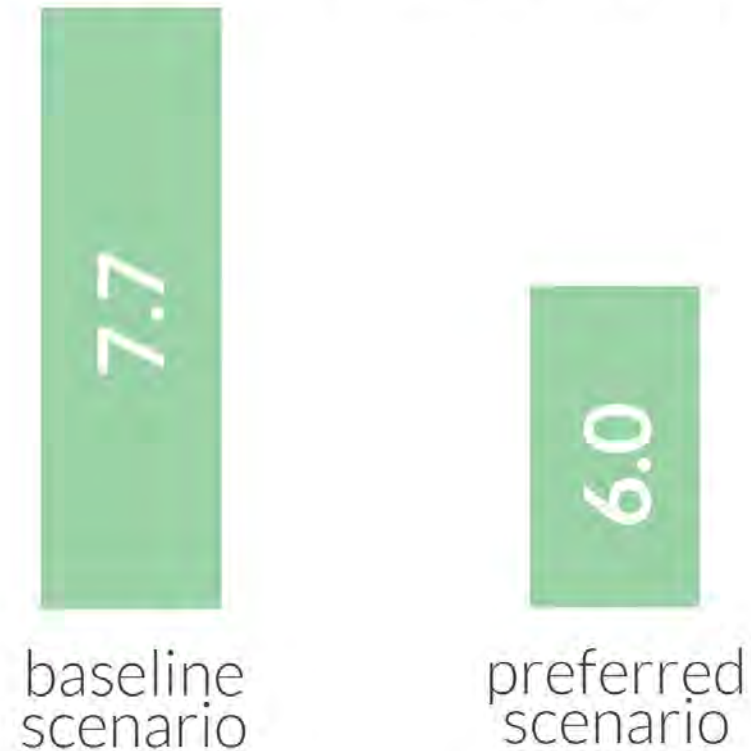
- Appx **4,000 jobs** accessible within a 10-minutes of a station
- Appx **6,500 people** living within a quarter of a mile of transit

How?

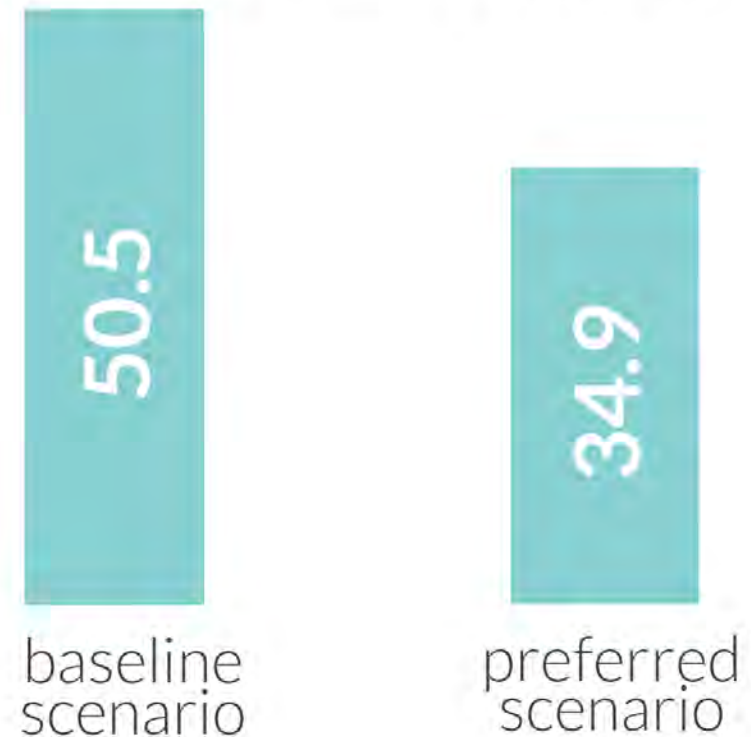
- Integrated Land Use + Transit Planning
- Connections where they matter
- Free fare option
- 15 minute headways

Success Metrics

Daily Study Area Vehicle Emissions (in total tons of NOX, VOC, and PM2.5 emitted)



Daily Regional Vehicle Emissions (in total tons of NOX, VOC, and PM2.5 emitted)



Total 2050 emissions. Regional is Utah, Salt Lake, Davis, and Weber counties. Preferred assumes 30% electric vehicles.



International Boulevard

42nd Ave

T

42nd Ave

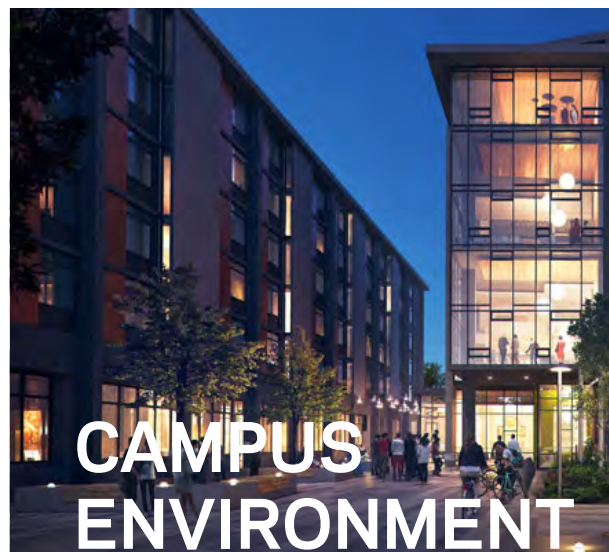
E 12th St

© 2018 Google

Google Earth

175 ft

What makes great **Public / Private Research Clusters**?



RESEARCH / CATALYTIC DISTRICT

Public Partner - Stanford, Redwood City



Private Partner



Gilead, Foster City





T

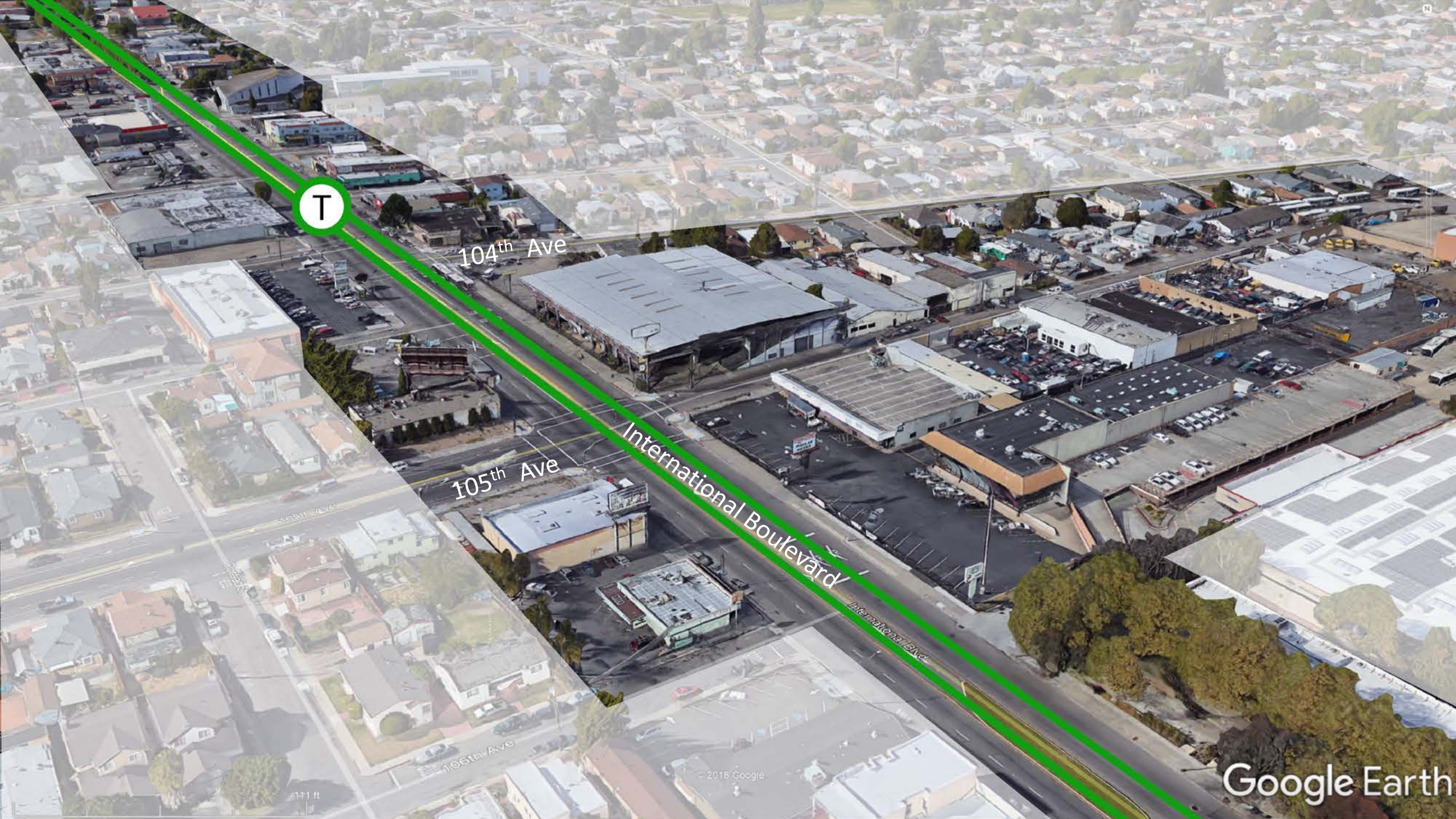
35th Ave

International Boulevard

33rd Ave

THE RETURN OF GREAT STREETS





T

104th Ave

105th Ave

International Boulevard

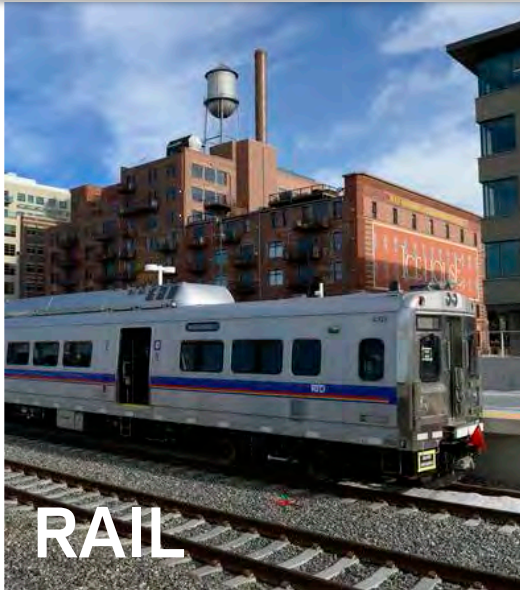
International Ave

106th Ave

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Google Earth

What makes great **Transit Oriented-Employment Clusters**?





Thank You!