

a peopleforbikes project

City of Austin
Bicycle Planning Strategy
and The Big Jump Initiative

Urban Transportation Commission Tuesday, June 13<sup>th</sup> 2017

#### What is the Big Jump?

A three year challenge to double bicycle ridership in a specific geographic area by connecting key routes of the all ages and abilities bicycle network and inviting people to bicycling through education and encouragement efforts.



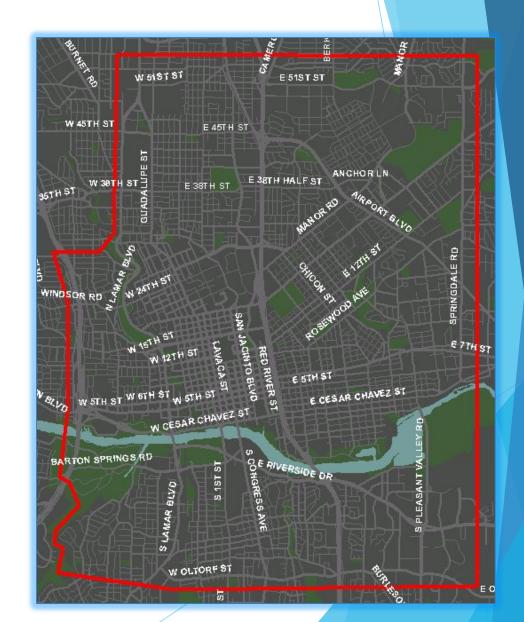
#### What is the Big Jump?

Builds on the success of the Green Lane Project which pioneered protected bicycle lanes as best-practice in urban bikeway design.



#### What is the Big Jump?

- Austin's was chosen from among nearly 90 other cities that applied for 1 of 10 slots. Other cities include: Baltimore, Providence, New York, Memphis, Tucson, Fort Collins, Los Angeles, Portland, New Orleans.
- Austin's focus area is the City's central core.



# The Big Jump is an *Imagine Austin* implementation strategy...



Priority Program #1: Invest in Compact

Priority Program #8: Align Code

Priority Program #3: Workforce Development

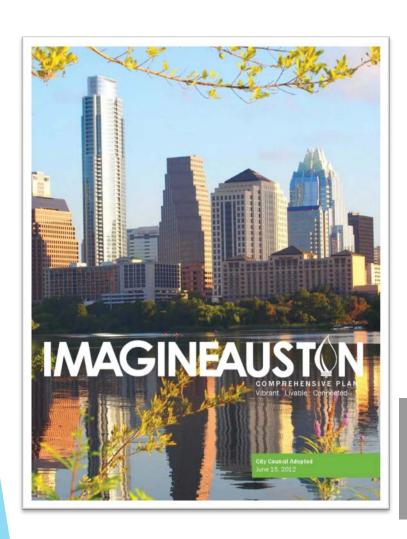
Priority Program #5: Creative Economy Priority Program #2: Sustainable Water

Priority Program #4: Green Infrastructure

Priority Program #6: Household Affordability

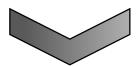
Priority Program #7: Healthy Austin

## ...guided by the *Austin Bicycle Master Plan*:



#### A Shift in Focus:

"To Create and Promote the best environment for the friendly co-existence of bicycle riders and other transportation users in Austin"



"To maximize the contribution of bicycling to Austin's quality of life"

#### Austin's Bicycle Planning Strategy

## Four Types of Transportation Cyclists in Austin By Proportion of Population



Strong & Fearless 2%

Less than 20% of Austinites will ride in Bicycle Lanes



Interested but Concerned 39%

No Way No How 44%









## Four Types of Transportation Cyclists in Austin By Proportion of Population



Strong & Fearless 2%

More than 55% of
Austinites
will ride in
protected bicycle lanes

15%

Interested but Concerned 39%

No Way No How 44%

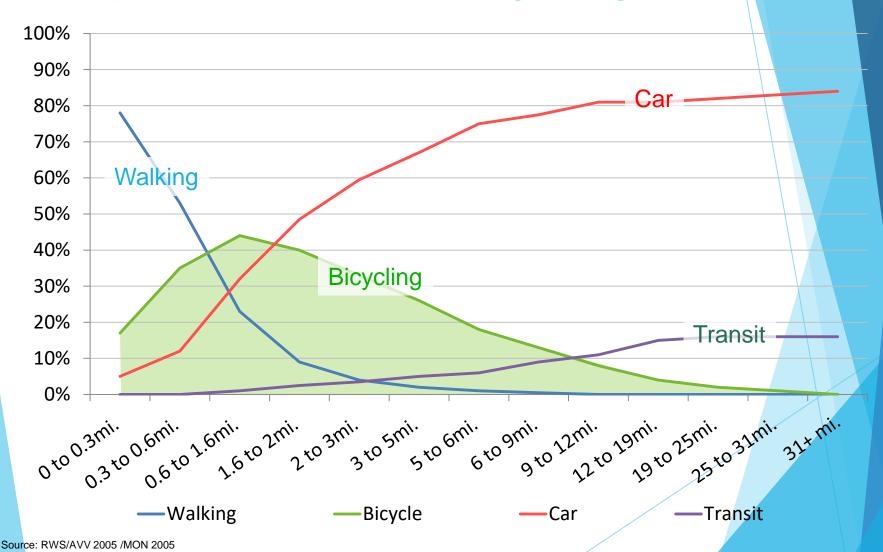




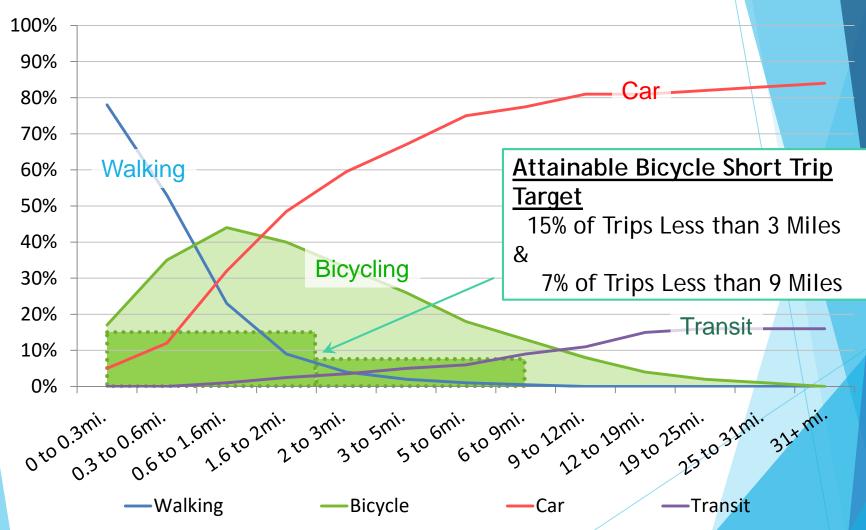




#### Capture Short Trips by Bicycle



#### Capture Short Trips by Bicycle



Source: RWS/AVV 2005 /MON 2005

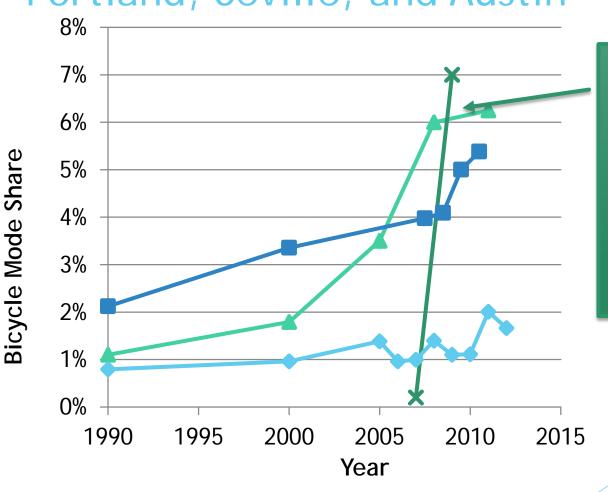
#### Creating a Network:







## Rise of Cycling in Over Time in Portland, Seville, and Austin



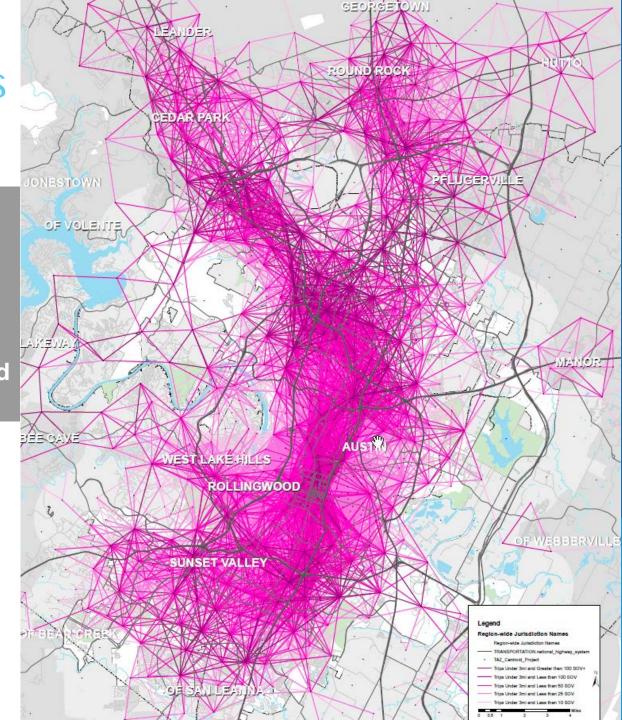
Seville's incredible increase in bicycle mode share was as a result of an 87 mile network of protected bicycle facilities implemented over 3 years.

Austin has the opportunity to implement a similar network

- -Portland, OR
- **★**Seville, Spain

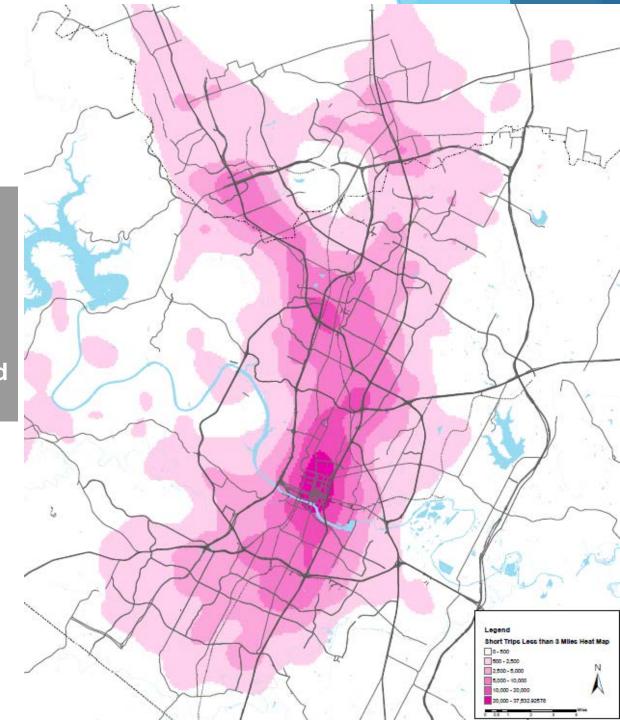
# Spider Diagram of Short Car-Trips (0-3 mile)

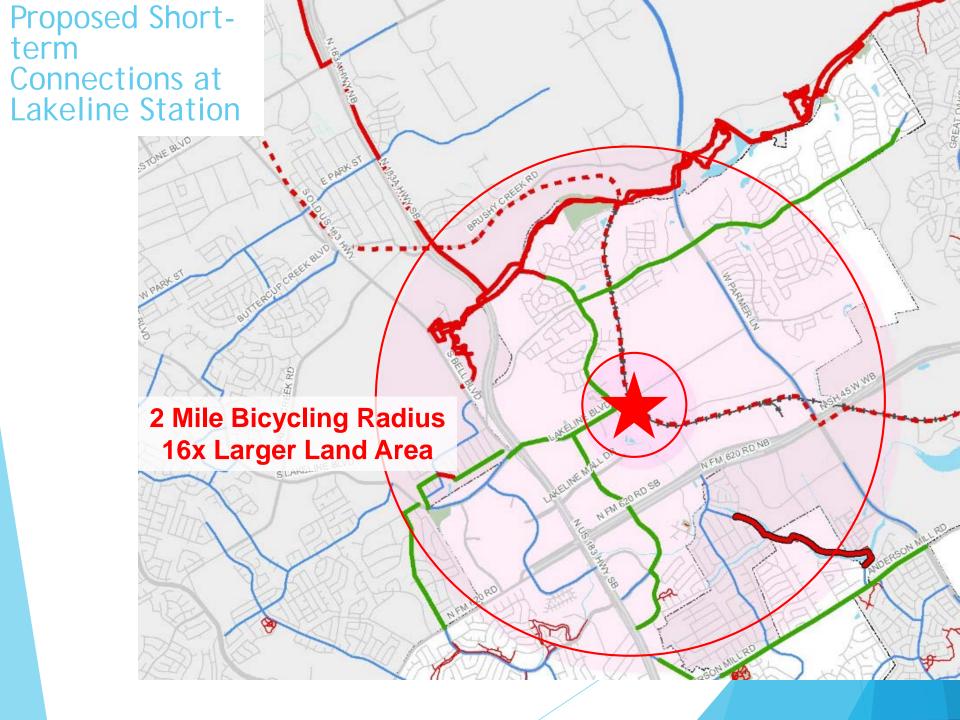
- The highest concentrations of short trips are in the central parts of the region
- Short trip patterns follow major freeways and related development patterns

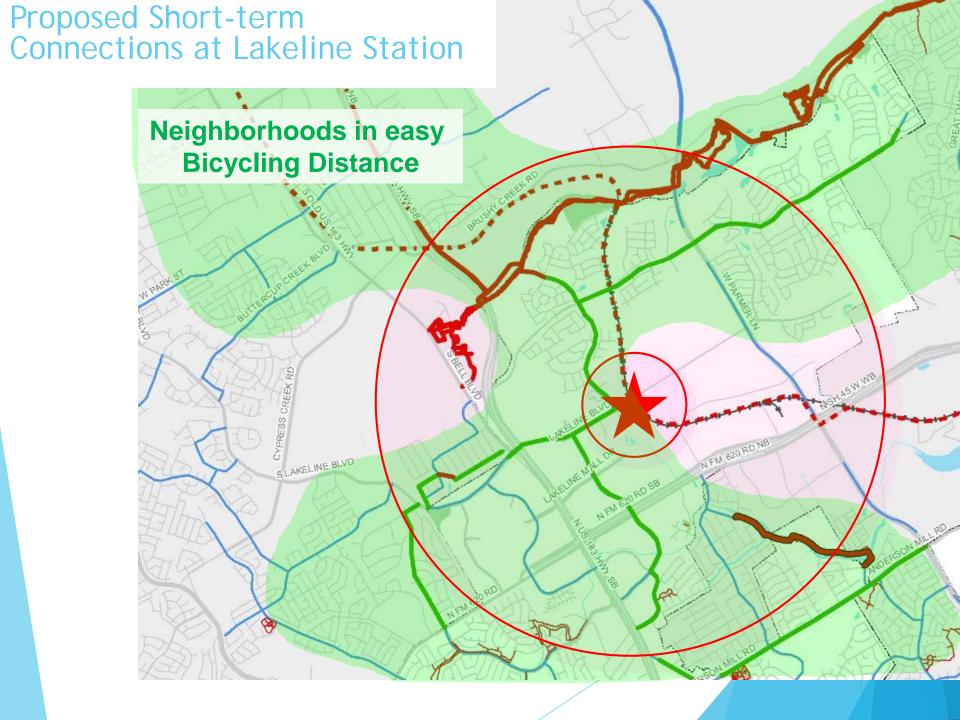


#### Heat Map of Short Car-Trips (0-3 mile)

- The highest concentrations of short trips are in the central parts of the region
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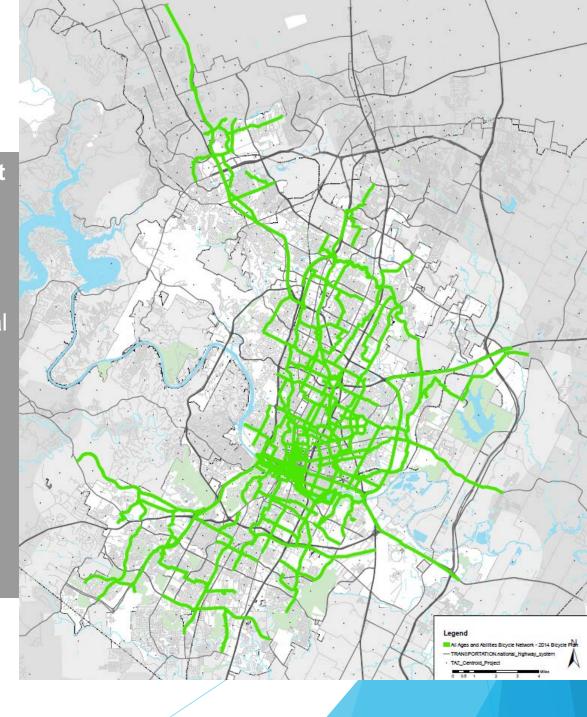
Draft Short-term All Ages and Abilities Bicycle Network

#### **Central Austin**

#### Focus on where short trips exist

- The central city
- To major transit stations
- Key feeder routes to the central city
- To schools and to and along parks
- Supporting Imagine Austin Centers

\*Short Term defined as potential implementation within 5 years



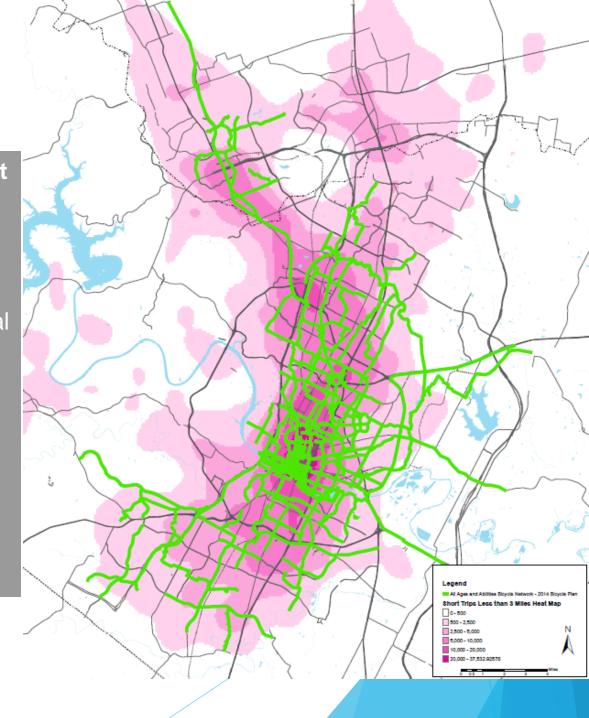
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#### Benefits of Short Term Network Significant Mobility Improvements

Our Analysis Shows
Of the 300k passenger vehicle trips that
enter the "Ring of Congestion" Daily

36% are less than 3 miles

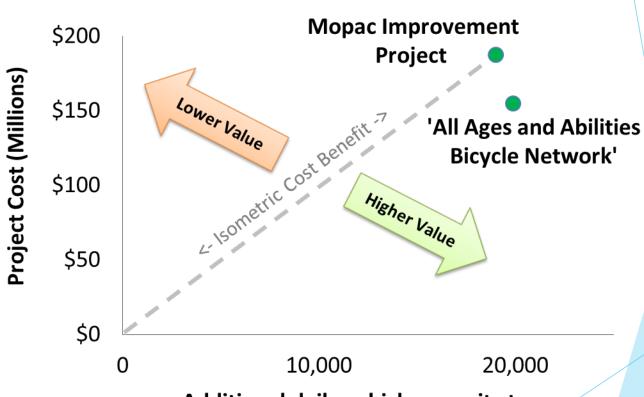
If **only 15%** of these trips 0-3 miles and **7%** of trips 3-9 miles **are converted to bicycle trips** 

There would be a total reduction of 7% all motor vehicle trips to the Ring of Congestion



#### Cost Benefit to Regional Mobility

#### **Mobility Cost / Benefit**

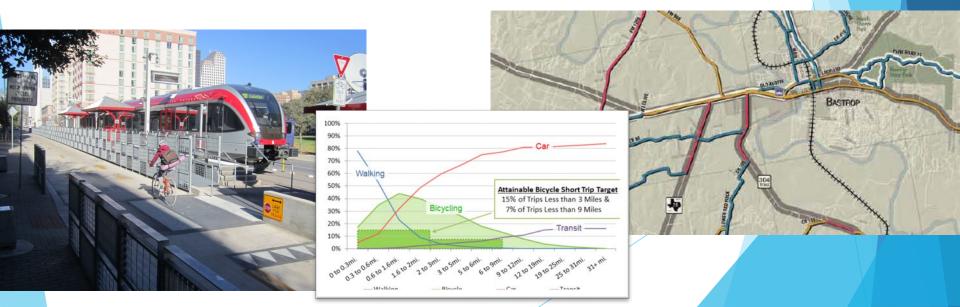


Additional daily vehicle capacity to Central Business District and University of Texas The Bicycle Master Plan strategy is designed to bring benefit to mobility, affordability and public health in Austin.

- 170,000 fewer daily trips
- 460,000 reduction in vehicle miles traveled
- \$170 million saved in direct driving costs annually
- 15% of Austinites meet daily physical activity
- Reduced congestion on I35

# City of Austin Bicycle Strategy

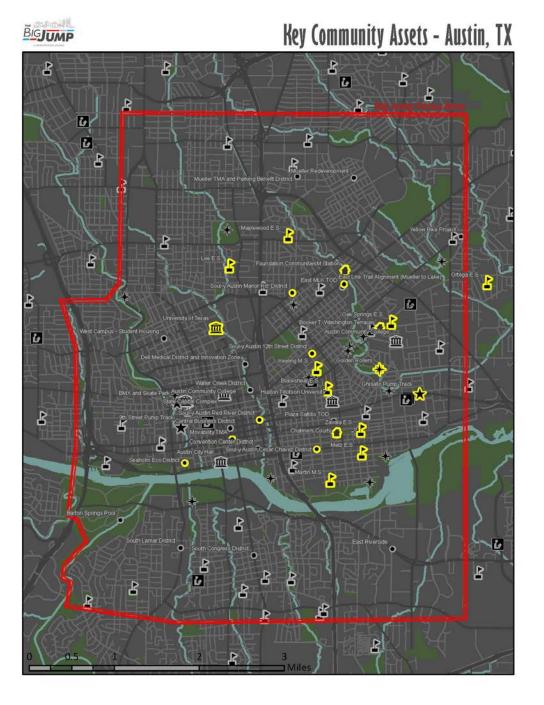
- Capture short trips to reduce congestion
- Strategic investment in protected facilities
- Build a comprehensive and connected all ages and abilities network
- Feed transit first and last mile(s) short trips to transit



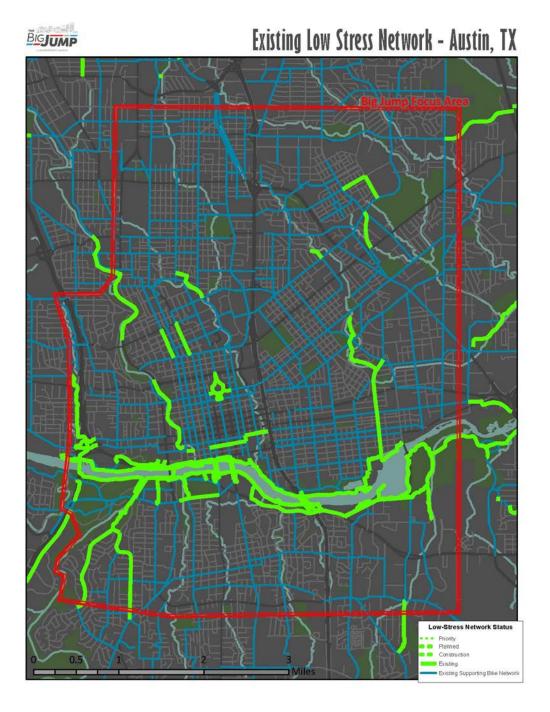
#### The Big Jump Focus Area

#### Key Community Assets

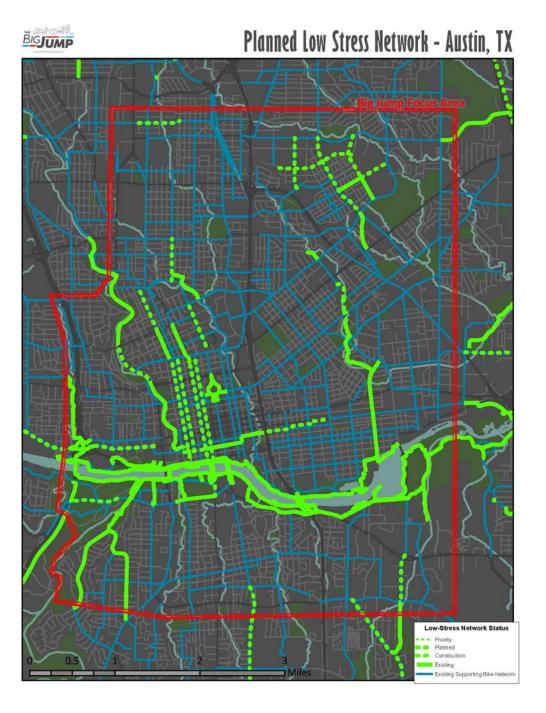
 Yellow icons are partners in the Big Jump initiative



# Existing Low Stress Network



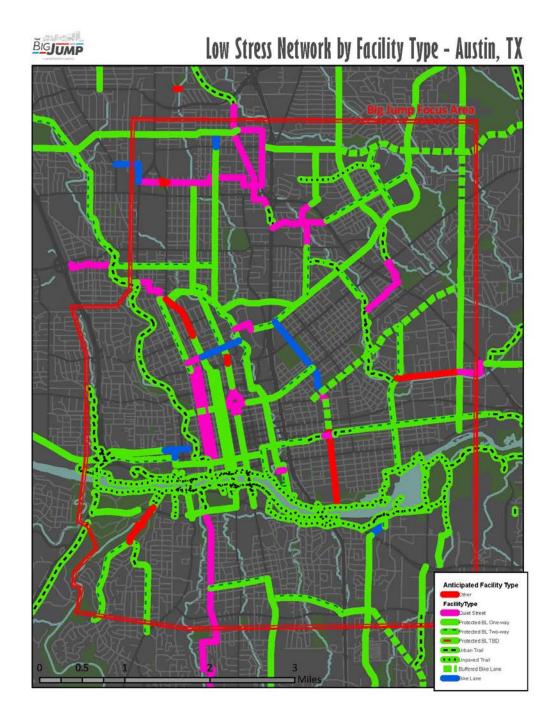
# Planned Low Stress Network



# Priority Low Stress Network

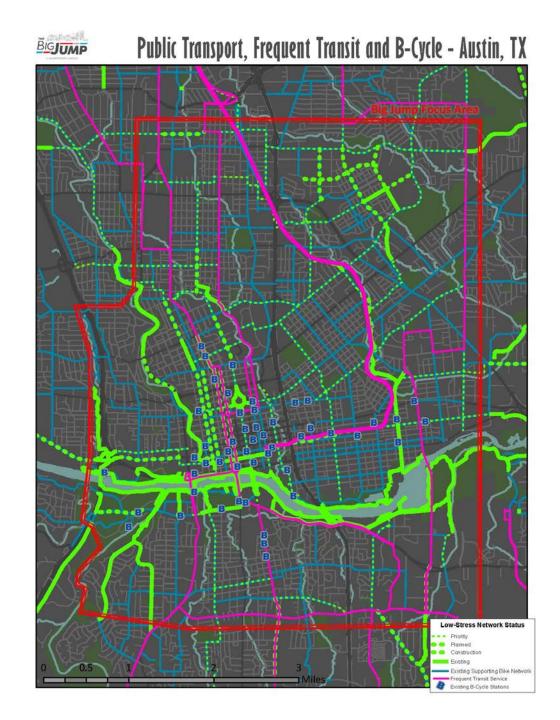


# Low Stress Network -Facility Type



### Public Transport, Frequent Transit & B-Cycle

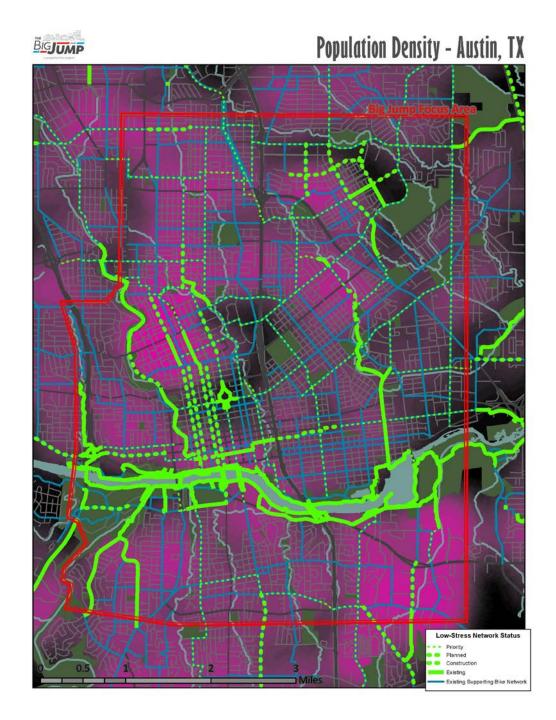
- Frequent Transit Service
- B-Cycle Station



# Population Density

#### **Hot Spots:**

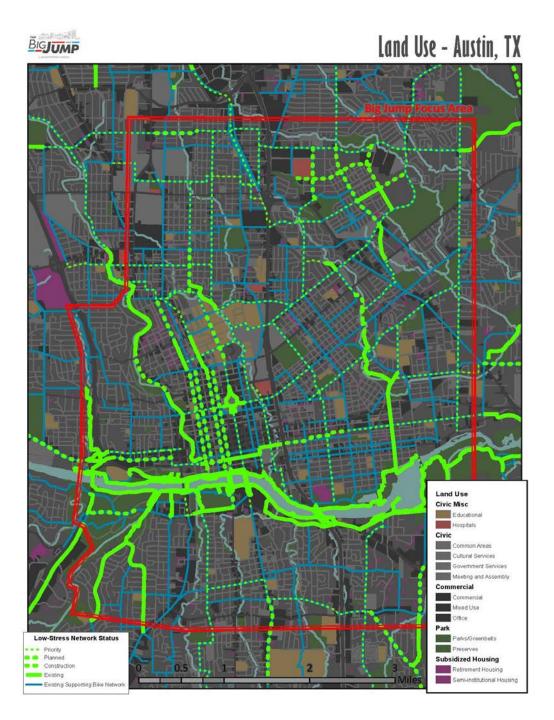
- West Campus
- Central North
- Central South East



#### Land Use

- Education
- Hospitals
- Commercial
- Retirement & Student Housing
- Parks

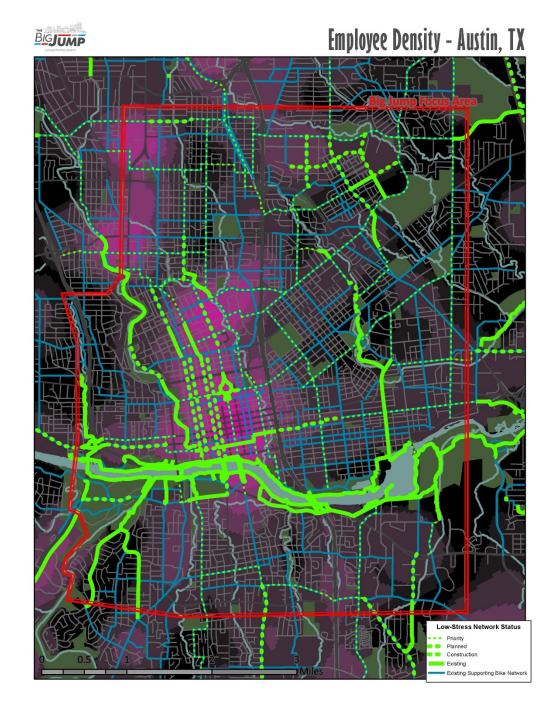
<sup>\*</sup>All projects will undergo feasibility analysis, coordination and/or public process prior to installation or construction.



# Employee Density

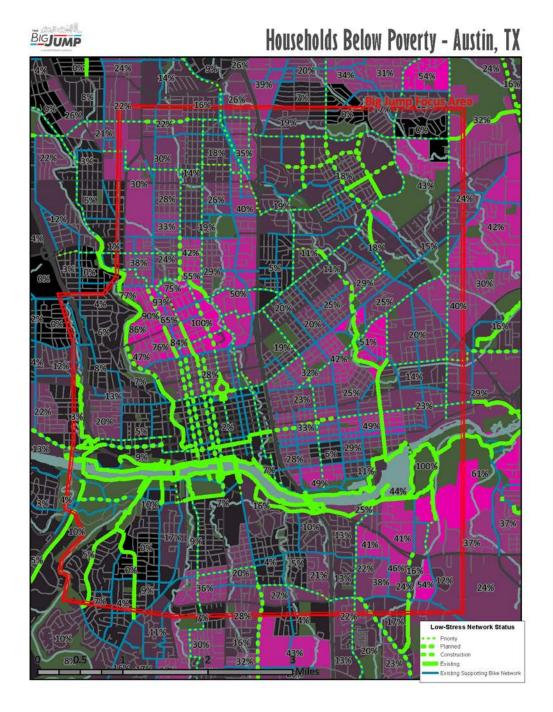
#### **Hot Spots:**

- UT
- Medical Complexes
- Downtown
- Diffuse through
   Mueller, Central East
   & South of the river



### Households Below Poverty

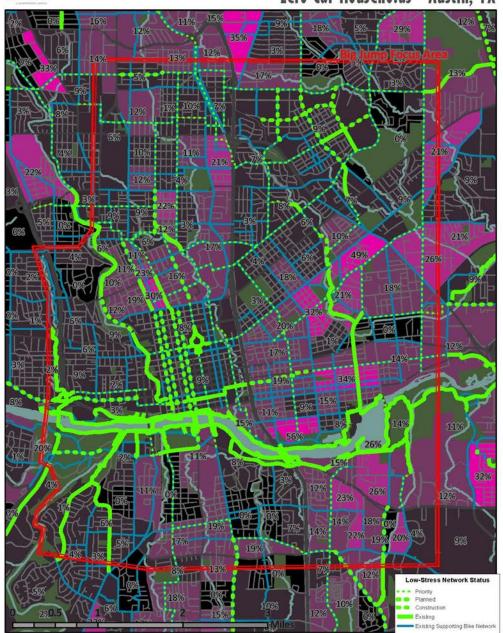
- Central South East
- Central East
- North and East of UT



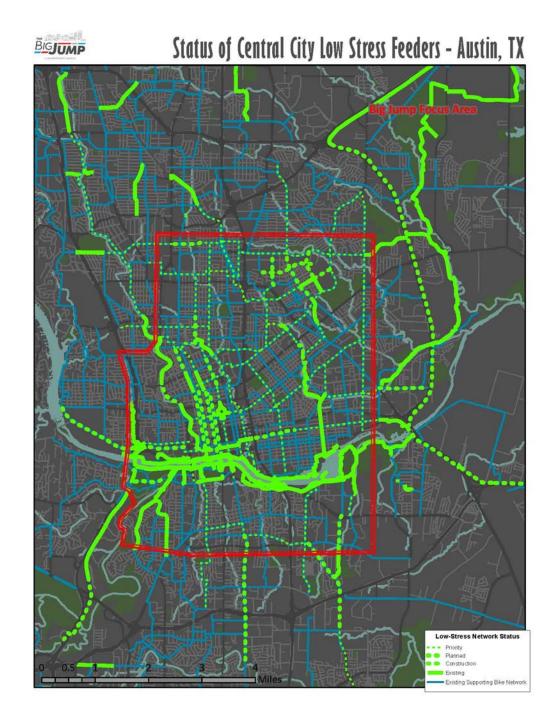
### Zero Car Households

#### **Hot Spots:**

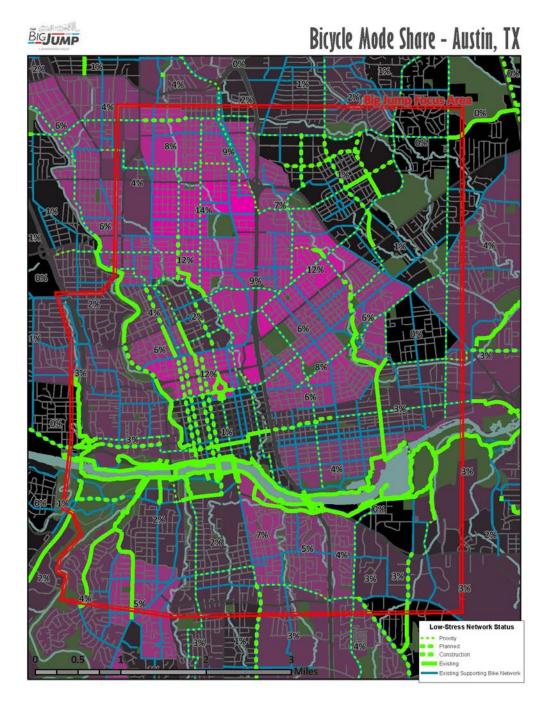
- Some areas as high as 34-49% up to 56%
- Low to mid teens around UT
- 20 percent range in Central South & South East

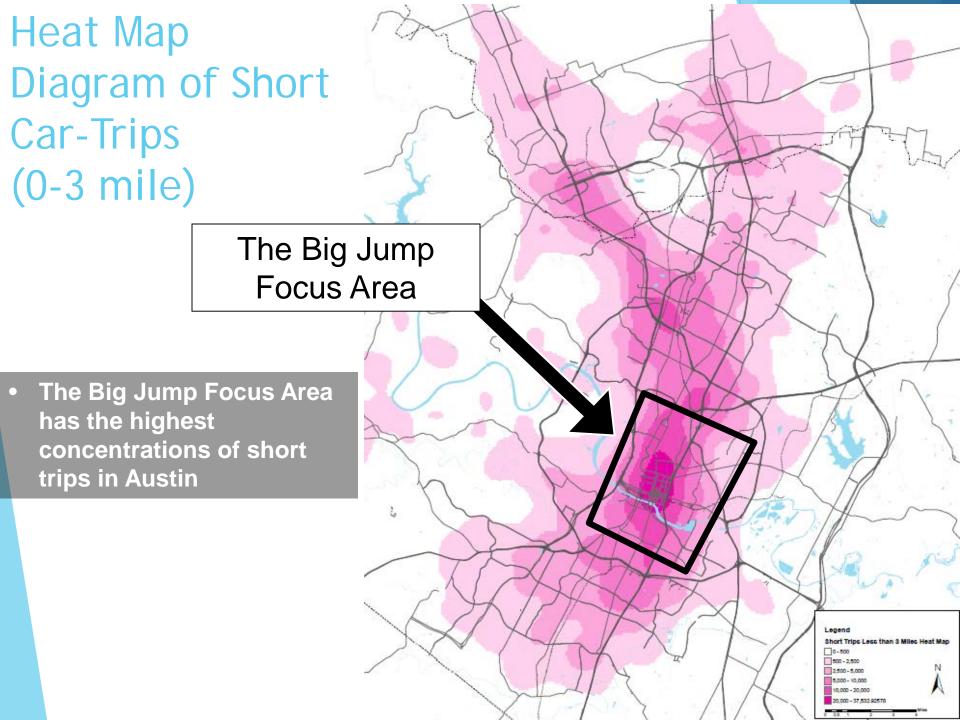


# Central City Low Stress Feeders



### Bicycle Mode Share





# The Big Jump Encouragement & Education Component

A series of campaigns, developed with community stakeholders, will be developed to boost ridership.



# The Big Jump Encouragement & Education Component

Where feasible and strategic, existing campaigns related to transportation demand management, safety and other initiatives will dovetail with Big Jump campaigns.







# City of Austin Bicycle Planning Strategy and The Big Jump Initiative

Austin Transportation Department

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