

# INSIGHT TO STRATEGIES AND OPPORTUNITIES FOR EMPLOYEE BASED TRIP REDUCTIONS



STATE OF UTAH  
RESOURCE STEWARDSHIP

EBTR SYMPOSIUM

JANUARY 11, 2017

# Mission, Vision, Values



## Mission

- Support Agencies and increase the implementation of best practices and stewardship measures to improve air quality.

## Vision

- A State of Utah government workforce that contributes to a healthier Utah.

## Values

- Health
- Stewardship
- Knowledge
- Transparency
- Communication
- Efficacy

# County Grades From American Lung Association



STATE OF UTAH  
RESOURCE STEWARDSHIP

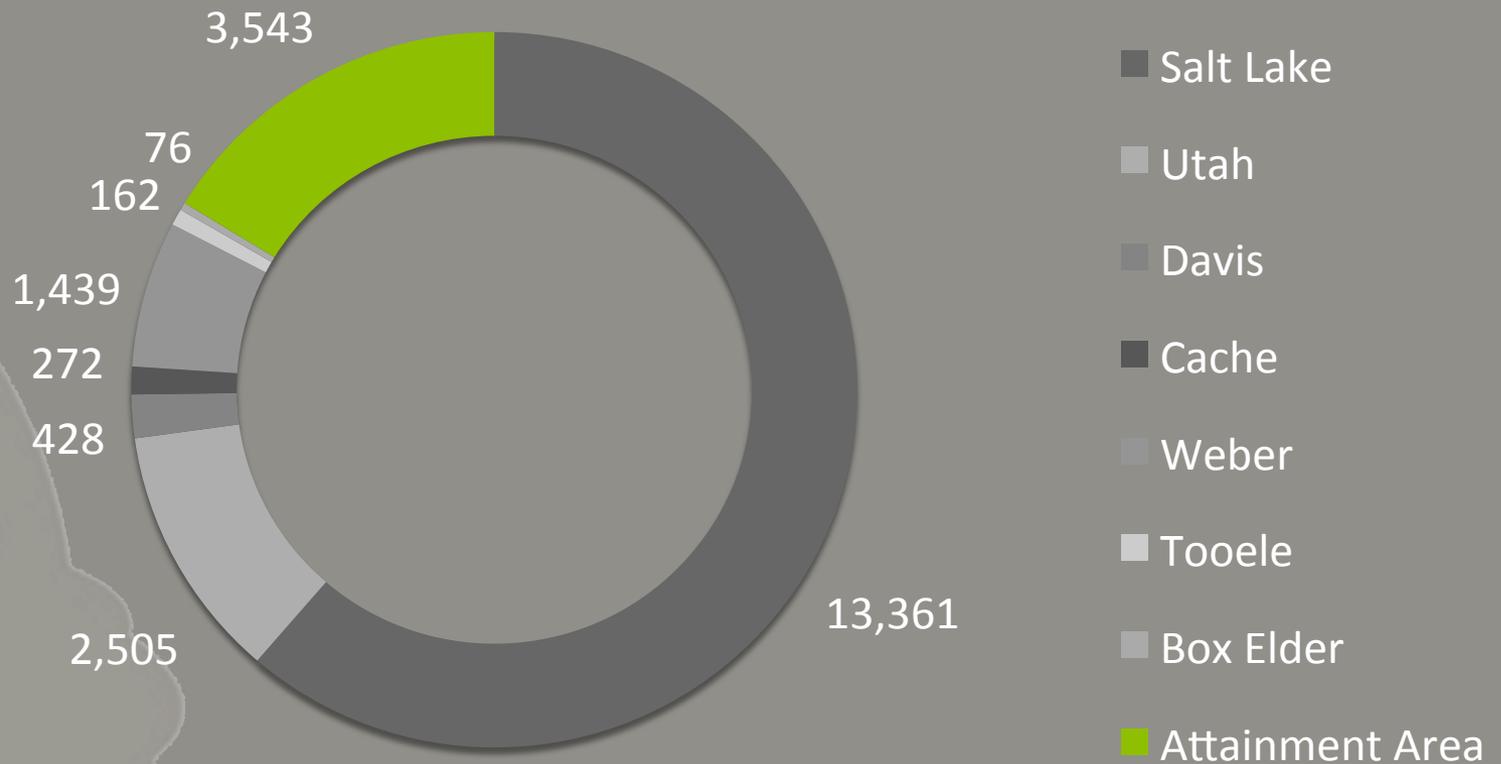


Source: [www.lung.org](http://www.lung.org)

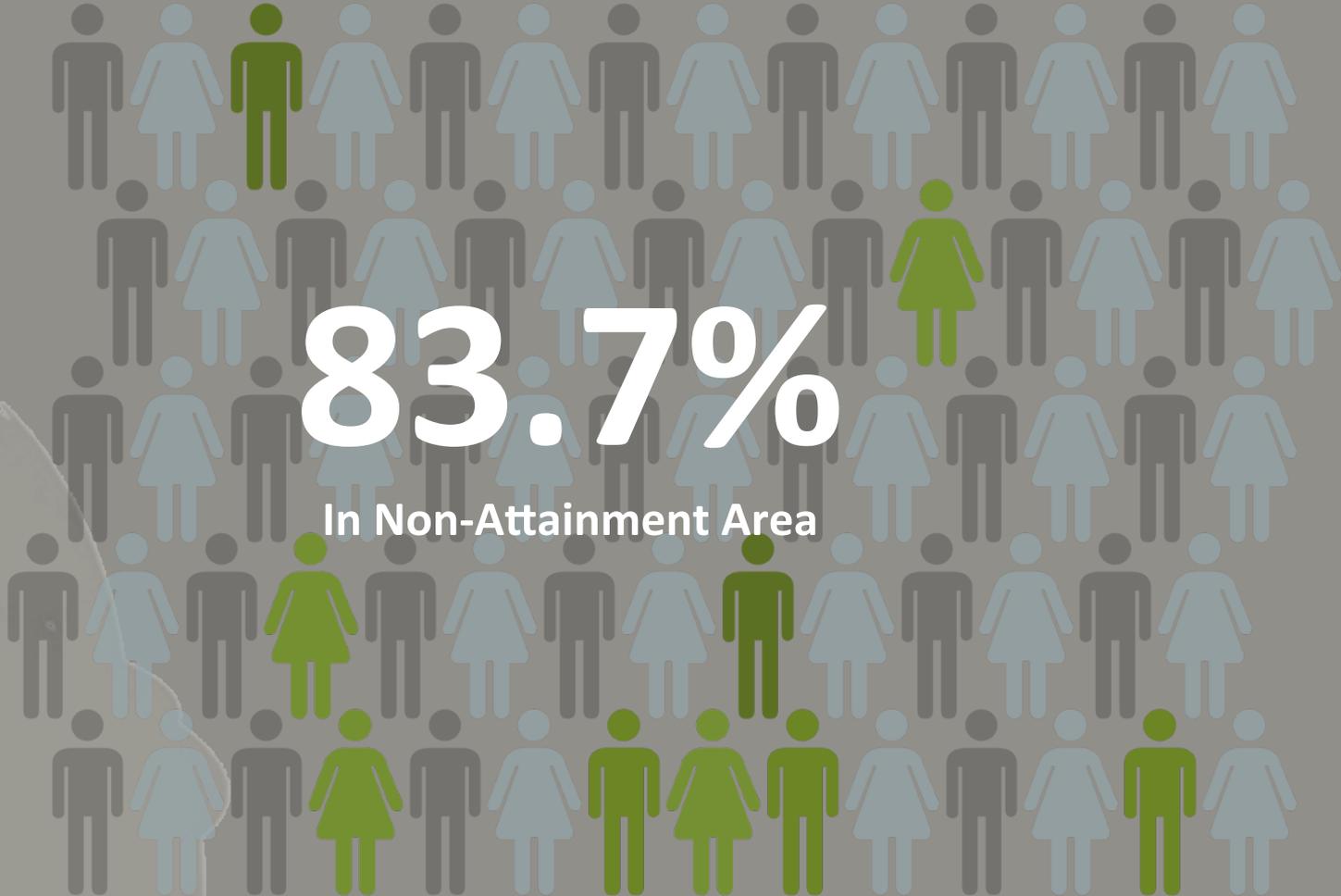
# Where We Work



## State Agency Employee Workplace Demographic

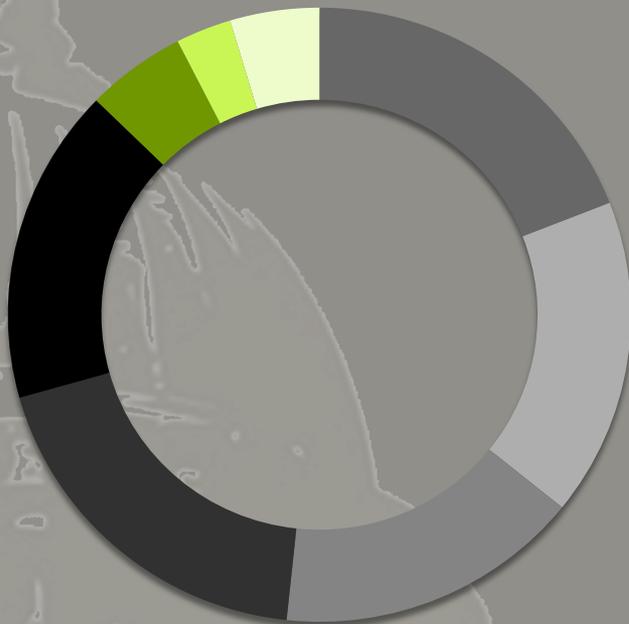


# Where We Work State Agencies



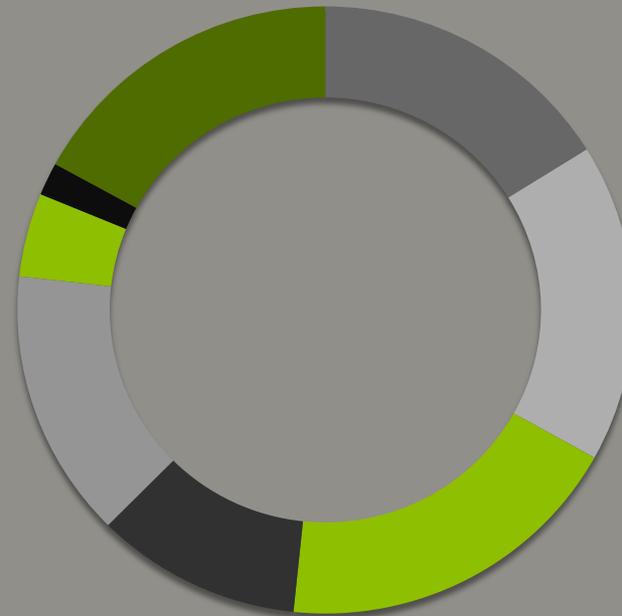
# Where We Educate Higher Education

## State Higher Ed.



- UU
- USU
- WSU
- UVU
- SLCC
- DSU
- SNOW
- SUU

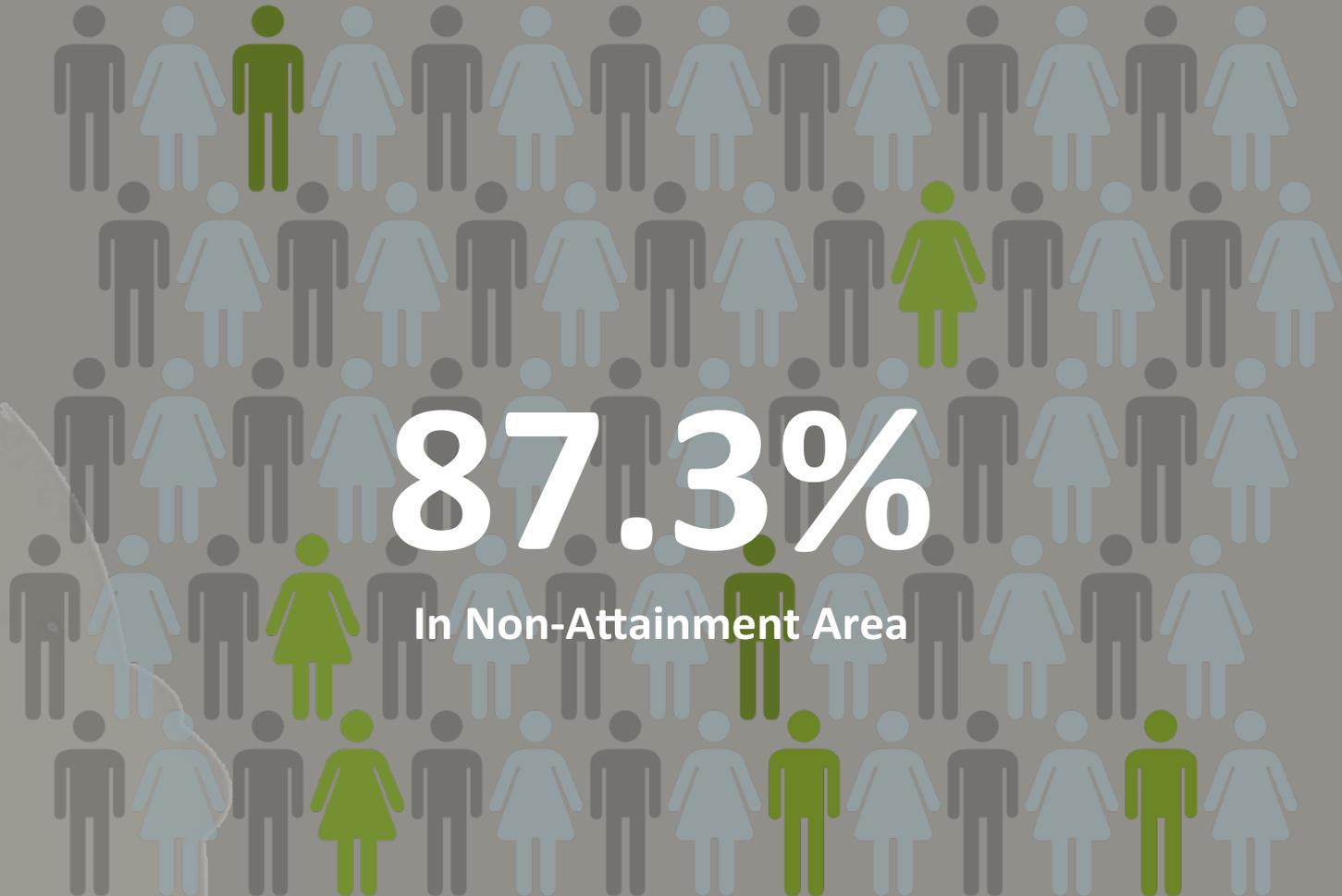
## UCAT



- BATC
- DATC
- DXATC
- MATC
- OWATC
- SWATC
- TATC
- UBATC

Green toned areas are within an attainment county

# Where We Educate Higher Education



# Where We Educate K-12



## Public School Enrollment



- Alpine
- Cache
- Daggett
- Emery
- Granite
- Juab
- Millard
- Nebo
- Ogden City
- Provo
- San Juan
- South Summit
- Uintah
- Wayne
- Beaver
- Canyons
- Davis
- Garfield
- Iron
- Kane
- Morgan
- North Sanpete
- Park City
- Rich
- Sevier
- Tintic
- Wasatch
- Weber
- Box Elder
- Carbon
- Duchesne
- Grand
- Jordan
- Logan City
- Murray
- North Summit
- Piute
- Salt Lake
- South Sanpete
- Tooele
- Washington

Charter Schools and Private schools are not included in this figure.

# Where We Educate K-12



75.6%

In Non-Attainment Area

# State of Utah Responsibility



100,000+  
Higher Ed



57.9M SF of  
State  
Owned  
Buildings

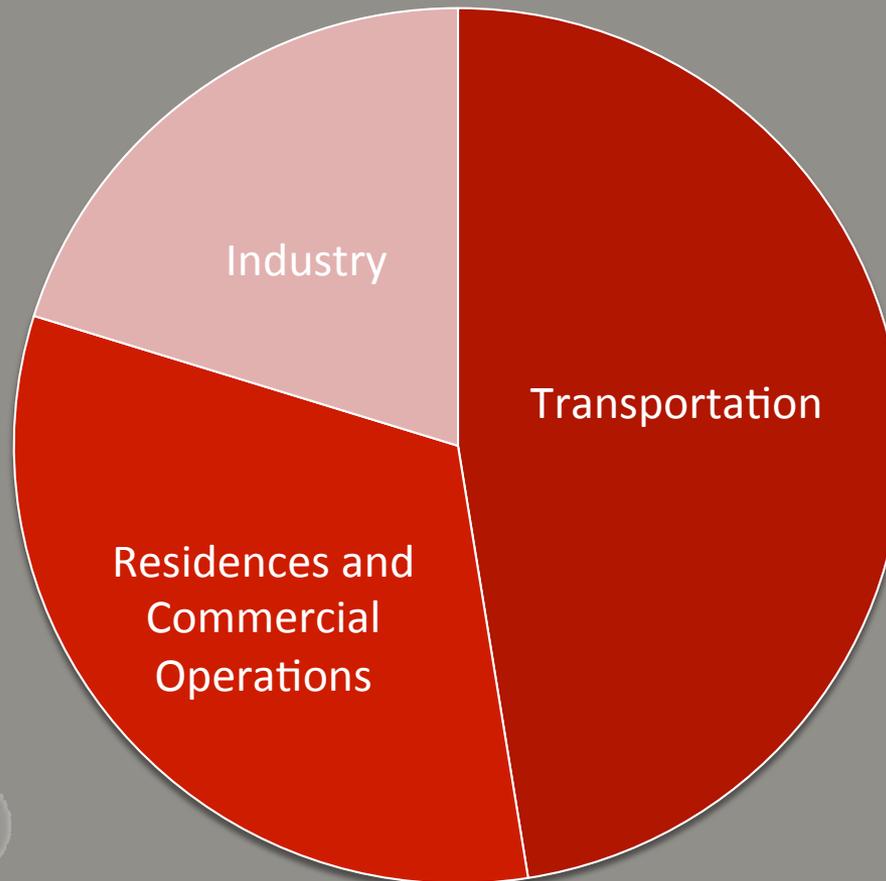


7000+ Fleet  
Vehicles



Opportunity  
to impact  
Air Quality

# Emissions Sources State of Utah



# Travel Survey to Identify Strategies State of Utah Agencies



## Who Responded



- 3500+ Employees
- 31 Agencies
- Wasatch Front, Saint George & Logan

## What Mattered



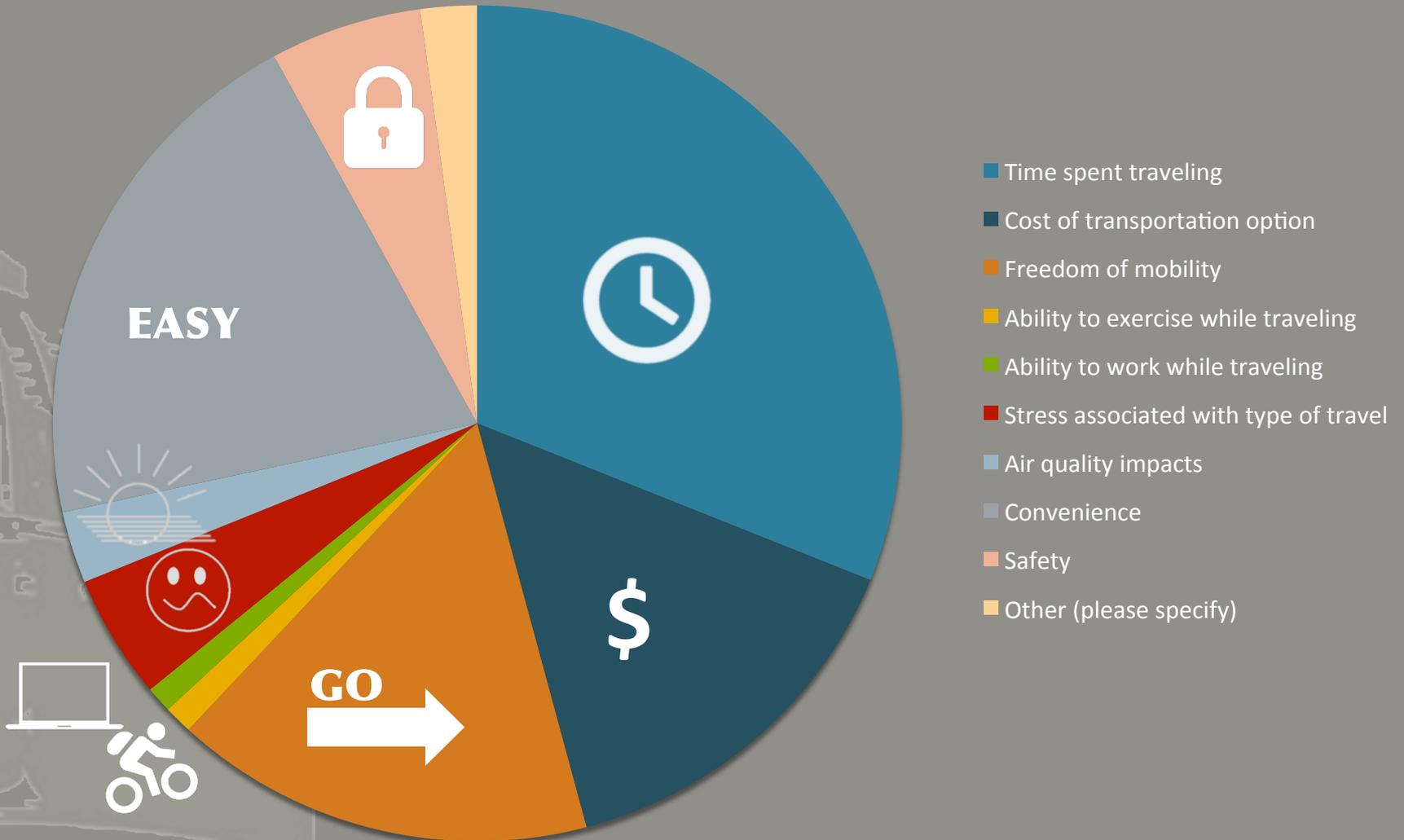
- Travel Time
- Freedom of Mobility
- Cost
- Amenities and Choices

## Best Strategies

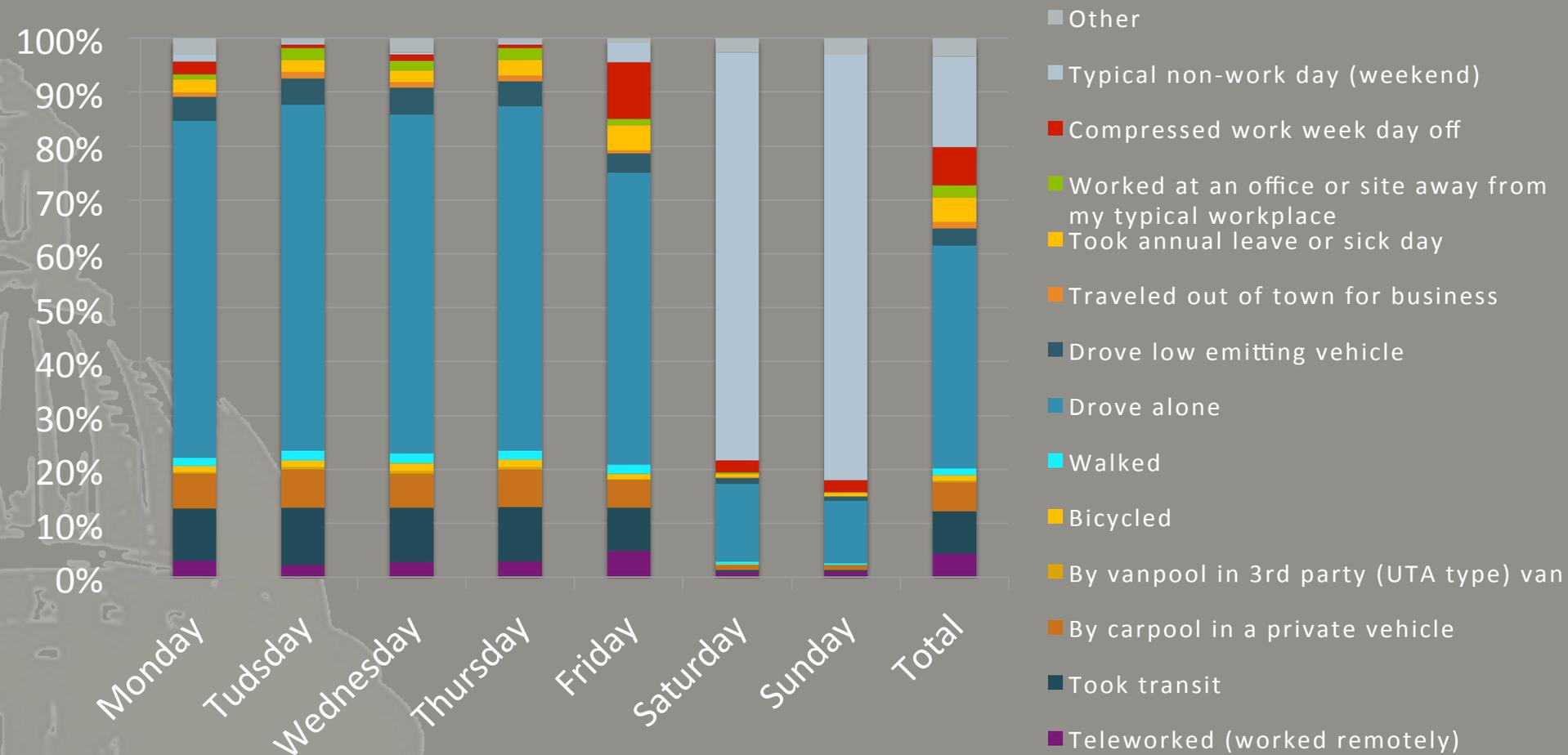


- E-work Environments
- Lower Emitting Fleet Options
- Efficient Transit Options
- Better Communication of Resources
- Location Specific Needs

# Travel Choice: What Matters Most?

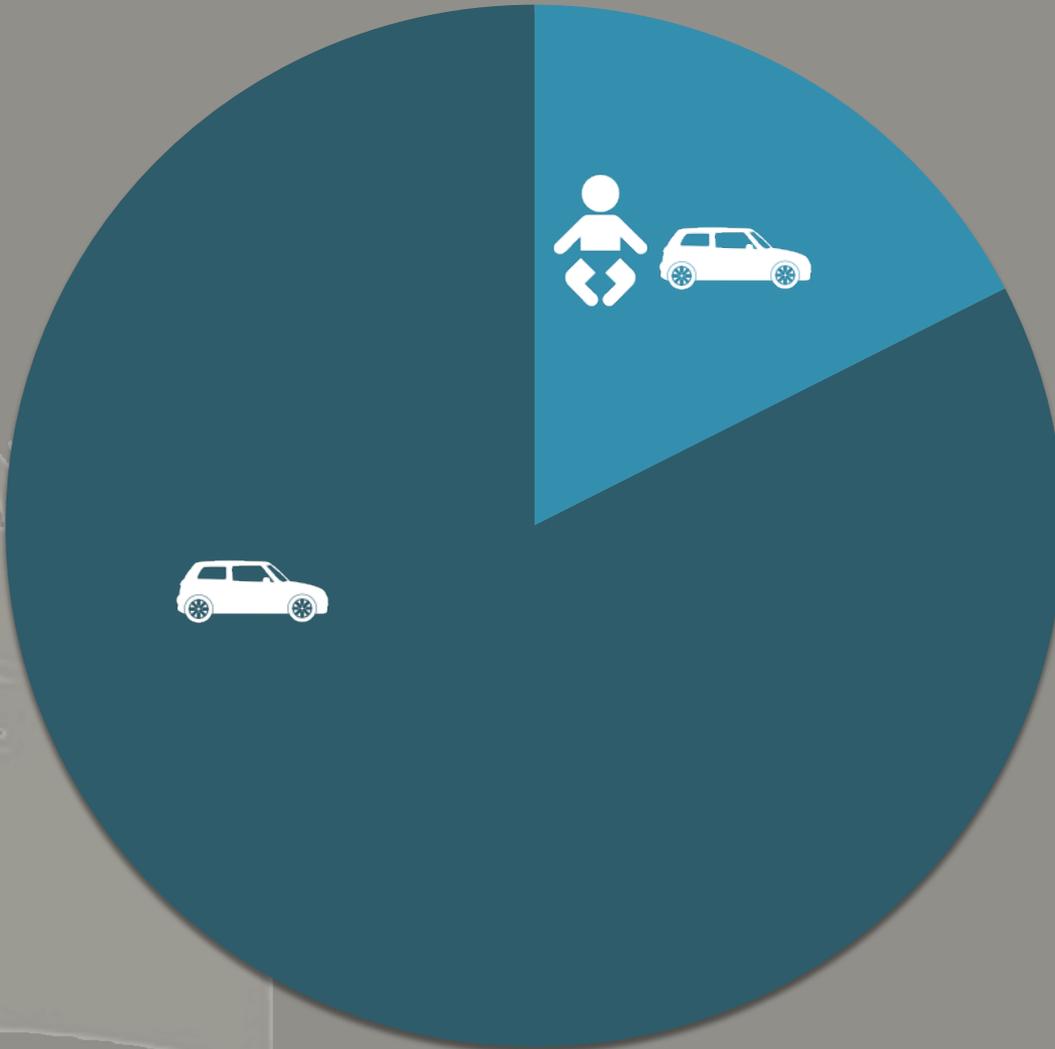


# Commuting Patterns



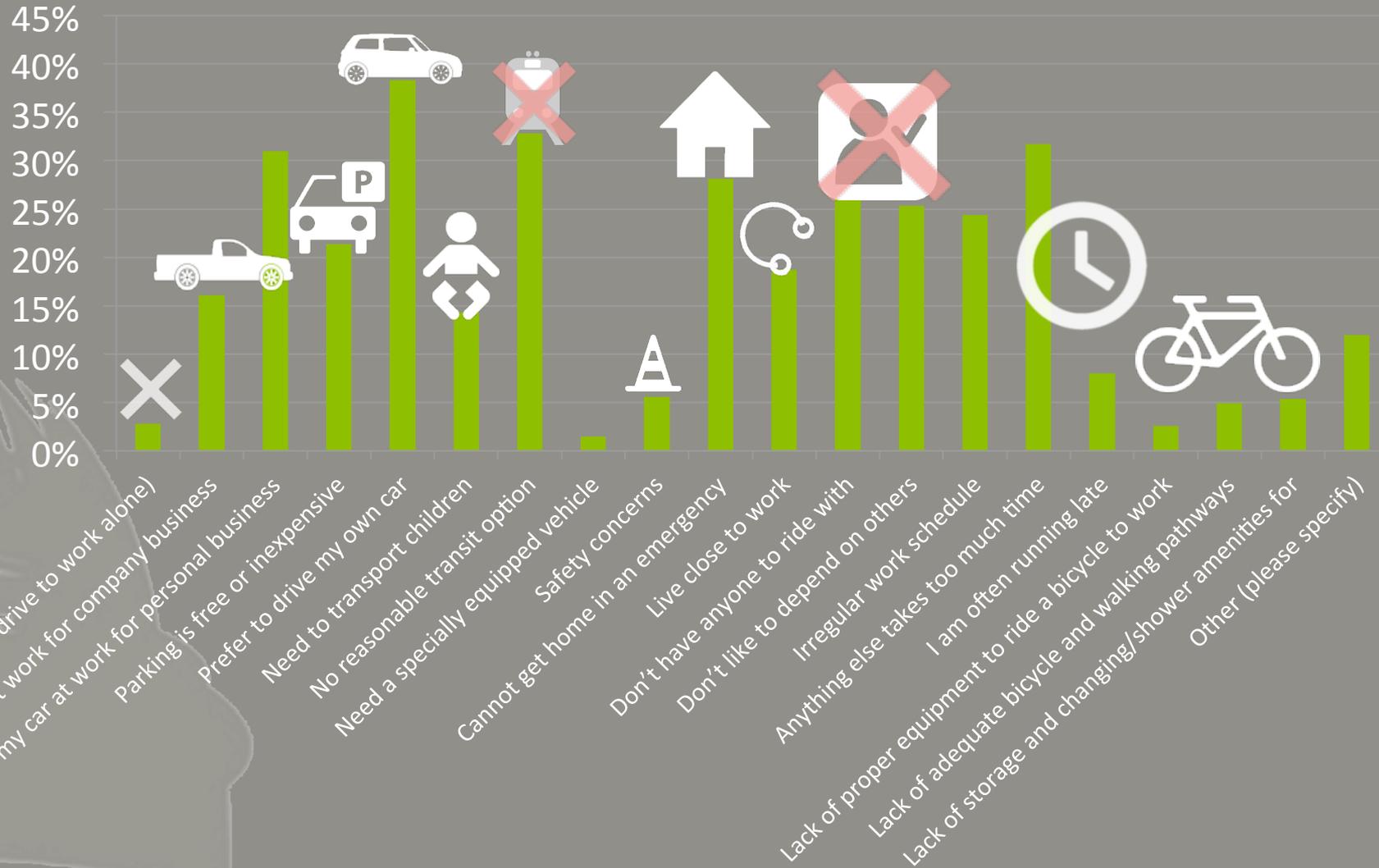
**21 to 30 Miles** Average Round Trip Commute Distance

# Travel Habits

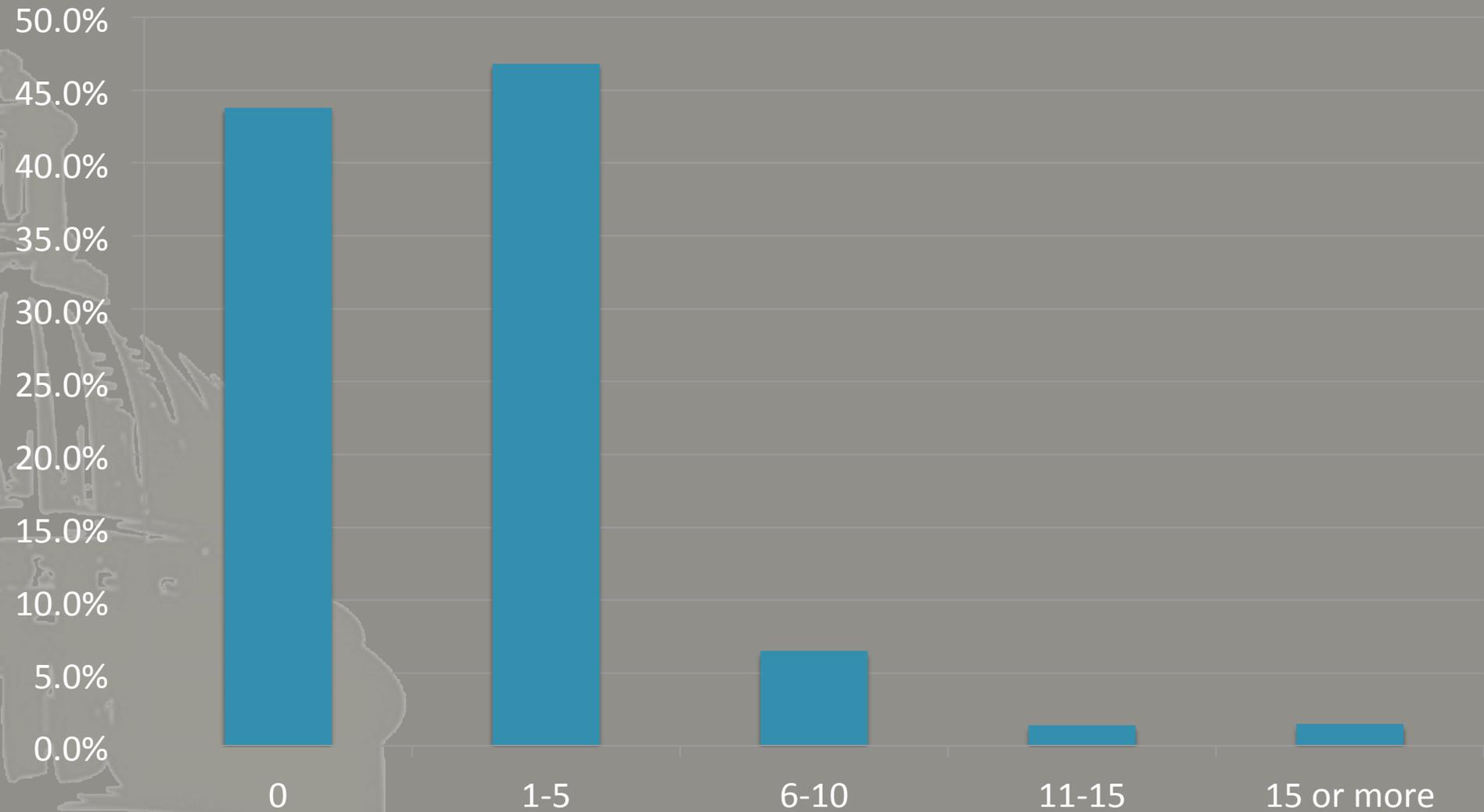


- Dropping Others
- Driving Solo

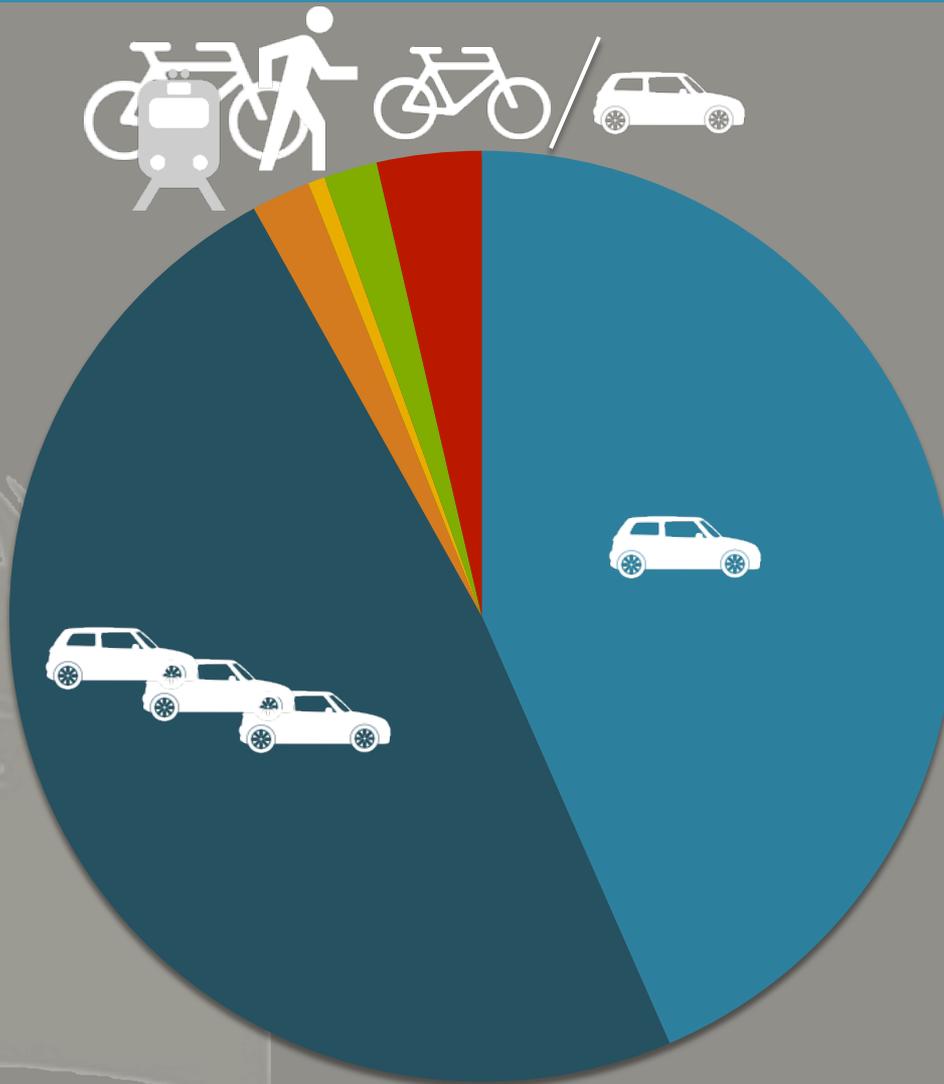
# Reasons for Single Occupancy Vehicle (SOV) Trips



# Off-Site Meetings per Week

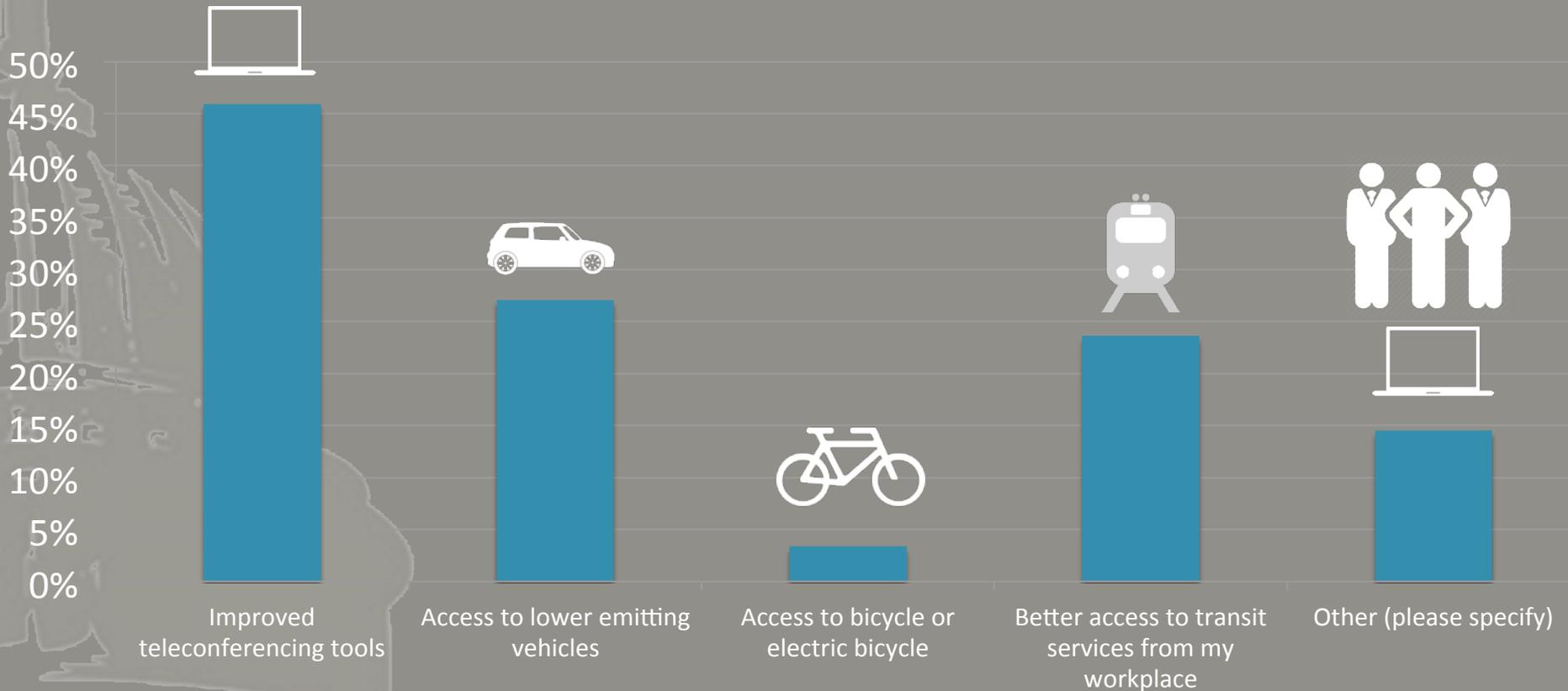


# Work-Related Travel Modes (Non-Air)



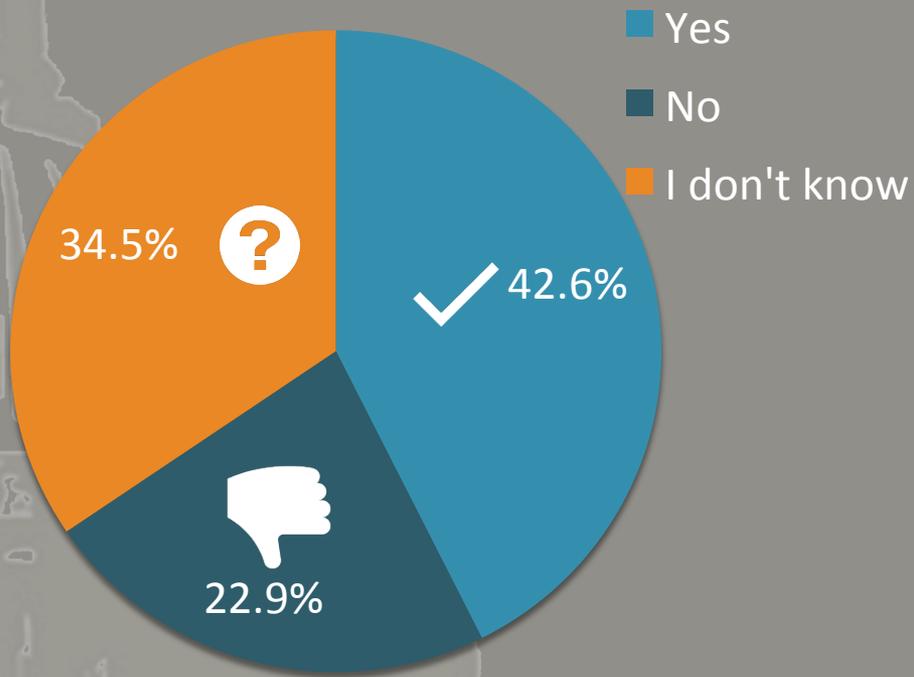
- Use personal vehicle
- Use fleet vehicle
- Take transit
- Ride bicycle
- Walk
- Other (please specify)

# How to Reduce Emissions from Work-Related Travel or Meetings

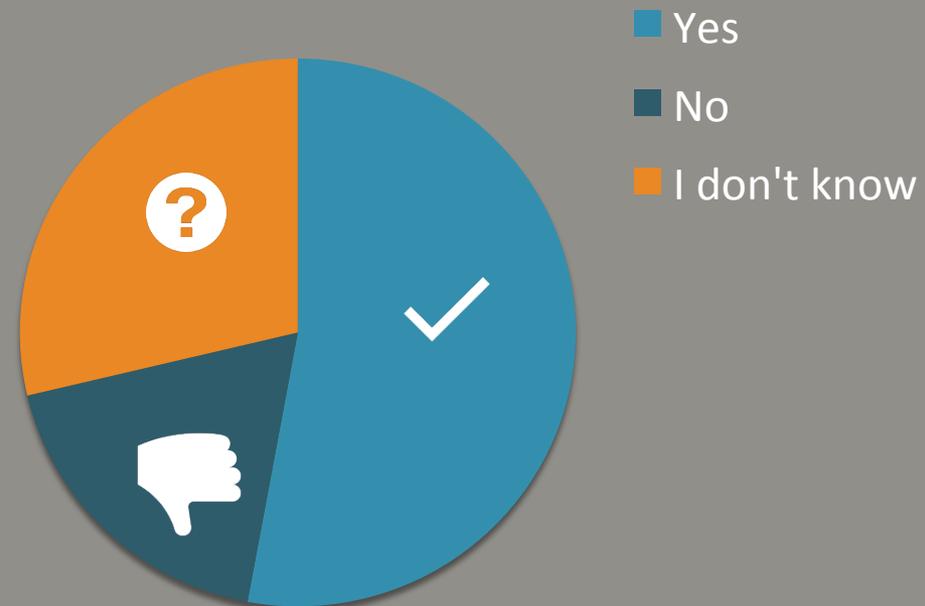


# Is Teleworking an Option?

## Teleworking Policy



## Teleconferencing Tools



# Increase Teleworking?



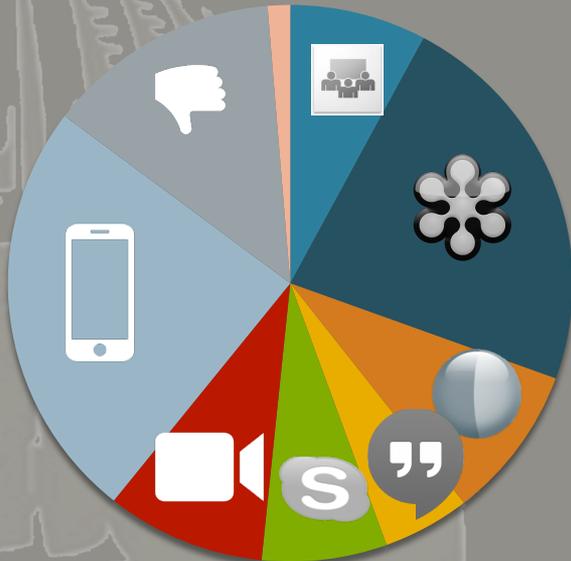
- Manager would encourage me to telework
- Department would assist with upgraded internet/network connections from home to office
- I already telework on a regular basis
- I would be unlikely to telework because my job does not permit it
- I am not interested in teleworking
- Other

# Teleconferencing

## Meeting Experience via Teleconference



## Tools Used



■ Adobe Connect

■ GoToMeeting

■ WebEx

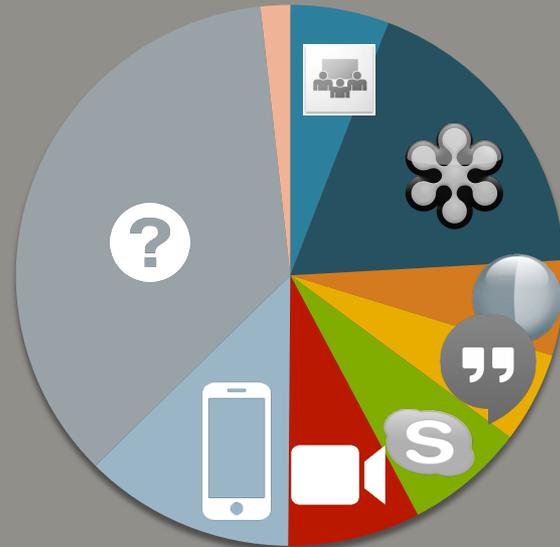
■ Google Hangouts

■ Skype

■ Dedicated Video Conference Room

■ Audio phone conference line (no video)

## Preferred Tools



■ Adobe Connect

■ GoToMeeting

■ WebEx

■ Google Hangouts

■ Skype

■ Dedicated Video Conference Room

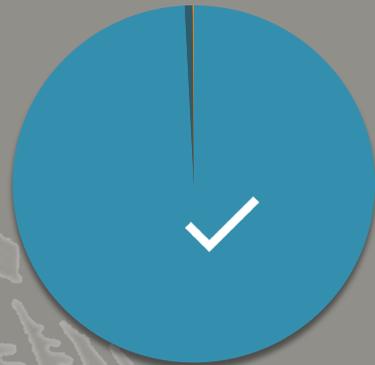
■ Audio phone conference line (no video)

■ I don't know enough about them to choose

# Communicating Available Amenities



## Parking for Cars



■ Yes

■ No

■ I don't know



## Electric Car Charging



■ Yes

■ No

■ I don't know



## Bicycle Parking



■ Yes

■ No

■ I don't know



## Showers



■ Yes

■ No

■ I don't know



# Stewardship in State Government E-Work Environment Opportunity



Measured Participation &  
Works with Outside Entities

State Contract - Inexpensive  
Option

Learning Management System

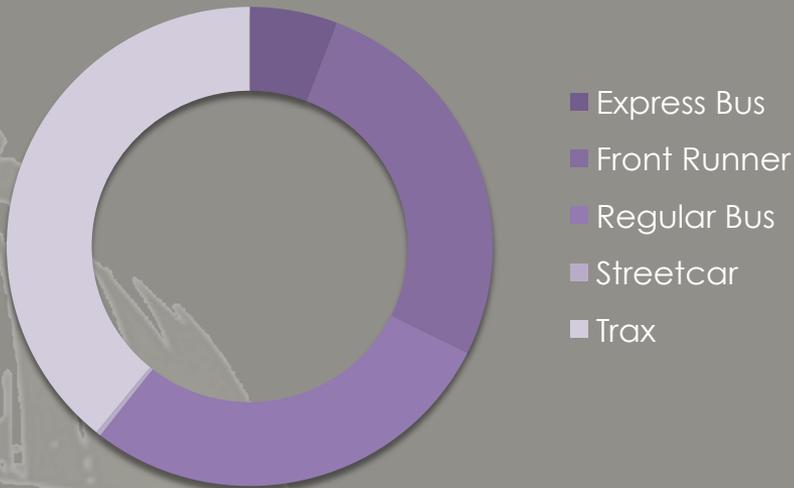
Reduces Risk and Manages  
Trainings

High Quality Online Meeting  
and Collaboration Tools

# Stewardship In State Government Transportation Choices



## State Agency Eco Pass Transit Trips



595,717

Trips in FY 2016

# 141 Tons

of Emissions Saved During the  
Agency Winter Challenges

**STATE OF UTAH AGENCIES  
WINTER TRAVELWISE CHALLENGE 2016  
JANUARY 18 - FEBRUARY 15**

Track and Compete at [travelwisetracker.com/s/state](http://travelwisetracker.com/s/state)  
Skipped Trips, Teleworking, Carpools, Transit,  
Biking, Walking, Trip Chains

**YOU ARE PART OF THE 2016  
CLEAN AIR RESOLUTION**

# Strategy Opportunities Carpool Network & EV Incentives



168,951 Miles

\$92,923

6,625 gal of Gasoline

128,535 lbs CO<sub>2</sub>

71,635 g VOC

90,895 g NO<sub>x</sub>

1,858 lbs CO

36,831 g PM

11,995 g SO<sub>2</sub>

4000  
Person  
Network to  
Clean Air



# Stewardship In State Government Active Transportation Fleet Option



## Capitol Hill E-Bike Partners



DIVISION OF  
FLEET OPERATIONS

**UCAIR**  
UTAH CLEAN AIR PARTNERSHIP

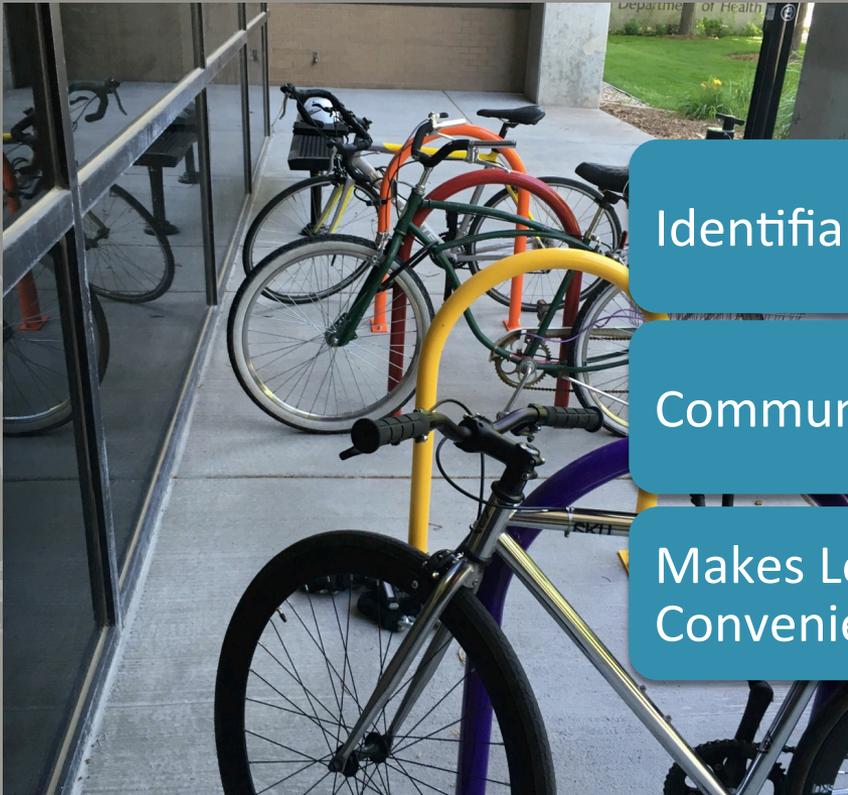
PARTNER



**First and Last Mile  
Solutions**  
Connecting for Clean Air



# Strategy Opportunities Multi-Modal Amenities



Identifiable

Communicates Transportation Choice

Makes Low-emitting Transportation More Convenient

# On Demand Services

## CARshare



## GREENbike



# Strategy Opportunities Make Choices Fun



No-Drive Lunch Reduces Trips

An Understanding of Air Quality  
is Not Needed to Participate

# Stewardship In State Government Fleet On-Demand Motor Pool



Right Size Fleet  
Every Day

Right Size  
Vehicle For the  
Job

Quicker  
Transition to  
Tier 3 Vehicle  
Use

# Funding Resources



## Clean Fuel and Vehicle Technology Grant and Loan Program

- *“Clean Fuel” is defined by Statute as electricity, natural gas, or propane.*
- Eligible projects:
  - Vehicle conversions to a clean fuel (50% of conversion cost)
  - Clean fuel vehicle purchase (50% of incremental cost)
  - Refueling equipment (Cost of equipment)
  - This program will be accepting applications until December, 2016

## Utah Clean Diesel Program

Targets Diesel Engines. Eligible On-highway and Non-Road projects include:

- Vehicle/equipment replacements -up to 25%
- Exhaust control devices - up to 100%
- Idle-reduction technologies, aerodynamics, and low-rolling resistance tires if bundled with exhaust control – up to 100%
- Engine repowers – up to 40%
- For more information about these funds contact Lisa Burr in the Division of Air quality at [lburr@utah.gov](mailto:lburr@utah.gov)

UCAIR

CMAQ

STEP RMP EV Incentives

# Contact



Thank you.

[das.utah.gov/resource-stewardship](https://das.utah.gov/resource-stewardship)

@utahsteward