INSIGHT TO STRATEGIES AND OPPORTUNITIES FOR EMPLOYEE BASED TRIP REDUCTIONS
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

Source: www.lung.org
Where We Work

State Agency Employee Workplace Demographic

- Salt Lake: 3,543
- Utah: 1,439
- Davis: 272
- Cache: 2505
- Weber: 428
- Tooele: 162
- Box Elder: 76
Where We Work
State Agencies

83.7%
In Non-Attainment Area
Private schools are not included in this figure.
Where We Educate
Higher Education

87.3%
In Non-Attainment Area
Where We Educate K-12

Public School Enrollment

Blue areas are within an attainment county

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

- Industry
- Transportation
- Residences and Commercial Operations
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?

- Time spent traveling
- Cost of transportation option
- Freedom of mobility
- Ability to exercise while traveling
- Ability to work while traveling
- Stress associated with type of travel
- Air quality impacts
- Convenience
- Safety
- Other (please specify)
Commuting Patterns

21 to 30 Miles  Average Round Trip Commute Distance
Travel Habits

- Driving Solo
- Dropping Others
## Reasons for Single Occupancy Vehicle (SOV) Trips

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A (I never drive to work alone)</td>
<td>0%</td>
</tr>
<tr>
<td>Need my car at work for company business</td>
<td>5%</td>
</tr>
<tr>
<td>Need my car at work for personal business</td>
<td>10%</td>
</tr>
<tr>
<td>Prefer to drive for my own business</td>
<td>15%</td>
</tr>
<tr>
<td>Need to transport children</td>
<td>20%</td>
</tr>
<tr>
<td>No reasonable transit option</td>
<td>25%</td>
</tr>
<tr>
<td>Cannot get home in an emergency</td>
<td>30%</td>
</tr>
<tr>
<td>Safety concerns</td>
<td>35%</td>
</tr>
<tr>
<td>Live close to work</td>
<td>40%</td>
</tr>
<tr>
<td>Don’t have anyone to ride with</td>
<td>45%</td>
</tr>
<tr>
<td>Irregular work schedule</td>
<td>50%</td>
</tr>
<tr>
<td>I am often running late</td>
<td>55%</td>
</tr>
<tr>
<td>Lack of proper equipment for bicycle</td>
<td>60%</td>
</tr>
<tr>
<td>Lack of adequate bicycle and walking pathways</td>
<td>65%</td>
</tr>
<tr>
<td>Lack of storage and changing/shower amenities for</td>
<td>70%</td>
</tr>
<tr>
<td>Other (please specify)</td>
<td>75%</td>
</tr>
</tbody>
</table>
Off-Site Meetings per Week

- 0% of weeks have 0 off-site meetings
- 5% of weeks have 1-5 off-site meetings
- 10% of weeks have 6-10 off-site meetings
- 15% of weeks have 11-15 off-site meetings
- 20% of weeks have 15 or more off-site meetings
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

- Improved teleconferencing tools
- Access to lower emitting vehicles
- Access to bicycle or electric bicycle
- Better access to transit services from my workplace
- Other (please specify)
Is Teleworking an Option?

Teleworking Policy
- Yes: 42.6%
- No: 22.9%
- I don't know: 34.5%

Teleconferencing Tools
- Yes
- No
- I don't know
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
- Yes
- No

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

- Express Bus
- Front Runner
- Regular Bus
- Streetcar
- Trax

595,717 Trips in FY 2016

141 Tons of Emissions Saved During the Agency Winter Challenges

YOU ARE PART OF THE 2016 CLEAN AIR RESOLUTION
STATE OF UTAH AGENCIES WINTER TRAVEWISE CHALLENGE 2016
JANUARY 18 - FEBRUARY 15
Track and Compete at 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**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>168,951 Miles</td>
<td></td>
</tr>
<tr>
<td>$92,923</td>
<td></td>
</tr>
<tr>
<td>6,625 gal of Gasoline</td>
<td></td>
</tr>
<tr>
<td>128,535 lbs CO2</td>
<td></td>
</tr>
<tr>
<td>71,635 g VOC</td>
<td></td>
</tr>
<tr>
<td>90,895 g NOx</td>
<td></td>
</tr>
<tr>
<td>1,858 lbs CO</td>
<td></td>
</tr>
<tr>
<td>36,831 g PM</td>
<td></td>
</tr>
<tr>
<td>11,995 g SO2</td>
<td></td>
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</table>

4000 Person Network to Clean Air
Stewardship In State Government
Active Transportation Fleet Option

Capitol Hill
E-Bike Partners

Division of Fleet Operations

First and Last Mile Solutions
Connecting for Clean Air
<table>
<thead>
<tr>
<th>Strategy Opportunities</th>
<th>Multi-Modal Amenities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Identifiable</td>
</tr>
<tr>
<td></td>
<td>Communicates Transportation Choice</td>
</tr>
<tr>
<td></td>
<td>Makes Low-emitting Transportation More Convenient</td>
</tr>
</tbody>
</table>
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
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

UCAIR

CMAQ

STEP RMP EV Incentives
Thank you.

das.utah.gov/resource-stewardship

@utahsteward