



- Introductions
- Connection between GHG emissions and transportation
- What can be done in Juneau?
- What's next?



Introduction

Who am I?

- Originally from Sweden
- Been biking all my life (main mode of transportation growing up in Sweden)
- Picture from my latest bike tour (North Macedonia -> Sweden)

What does a Statewide Bike-Pedestrian coordinator do?

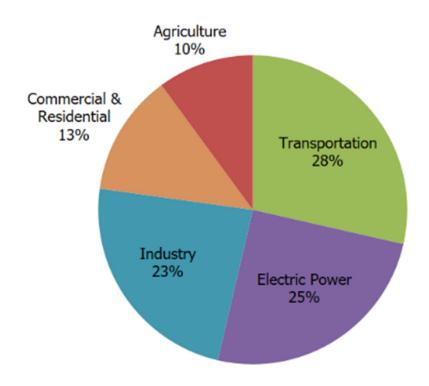
- Recommendations in the Alaska Statewide Active Transportation Plan (ASATP)
- Coordinates Alaska's Transportation Alternatives
 Program (TAP)
- Addresses statewide challenges/barriers to active transportation
- Implements strategies and processes to make active transportation safer in Alaska



Slide 3

BJA(0	What is AT plan? Bates, Julie A (DOH), 2022-09-26T19:58:40.974
BJA(0 0	Assuming it's "Active Transportation plan"? If so, let's spell it out in the first bullet. Bates, Julie A (DOH), 2022-09-26T19:59:39.943
FKJ(0 1	Agreed, what is AT? Fink, Karol J (DOH), 2022-10-11T15:14:15.563
FKJ(0 2	If it is alternative transportation - please don't use that term. Walking and biking shouldn't be an alternative. Fink, Karol J (DOH), 2022-10-11T15:15:08.329

Green House Gases (GHG) and Transportation

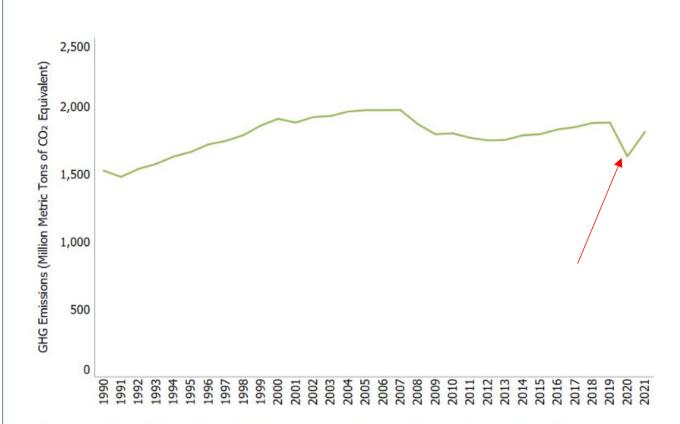


Total U.S. Greenhouse Gas Emissions by Economic Sector



Greenhouse Gas Emissions from Transportation

Greenhouse Gas Emissions from Transportation, 1990-2021



Emissions involved in the use of electricity for transportation activities are included above, but not shown separately (as was done for other sectors). These indirect emissions are negligible, accounting for less than 1% of the total emissions shown in the graph. All emission estimates from the <u>Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2021</u>.



National Travel Household Survey

 Nearly half of all trips Americans take are within 3 miles, or a 20-minute bicycle ride, and more than 20% of all trips are within a 20-minute walk

 Car trips under one mile long add up to about 10 billion miles per year.

• If we reduced these trips by half, and instead biked or walked, we would save around \$575 million in fuel costs each year and reduce carbon emissions and about 2 million metric tons of CO2 per year.



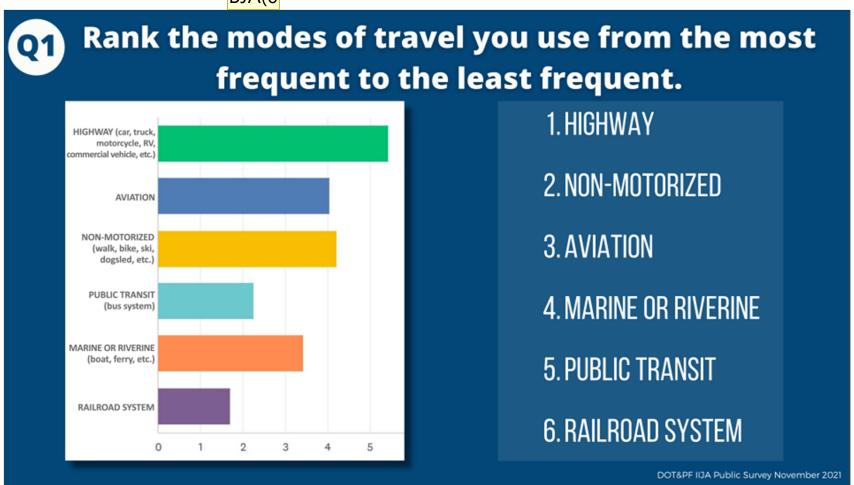
National Travel Household Survey

Over 60% of trips by automobiles are shorter than 6 miles and 75% of trips are shorter than 10 miles long. Better connected biking and walking networks will help shift some of these shorter car trips to walking and biking. Shifting some of these trips from driving to walking or bicycling can reduce pollution and traffic congestion while increasing physical activity levels and enhancing mobility for people with disabilities.



Recent DOT survey about Alaskans modes of travel

BJA(0





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Missing words here - Not sure, but should it include "it mean" to read "What does it mean to increase opportunities for active transportation in Alaska?"

Bates, Julie A (DOH), 2022-09-26T20:01:07.943

RKL(0 0 I think you're right: I added "What does it mean to..."

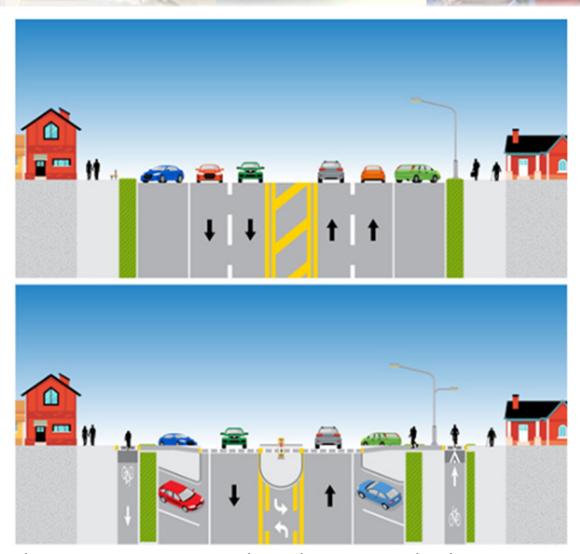
Reilly, Katie L (DOH), 2022-10-03T21:31:29.297

Potential projects

What tools can be used to encourage the use of transit or walking/biking year-round?

- Complete Streets policy JCOS review board for Active Transportation Projects
- Safe Routes to School
- Winter Mobility Taskforce meeting w. prioritization of plowing routes
- Assist in the update of plans such as;
 - Juneau's non-motorized plan (2009)
 - Juneau Trails Plan
- Potentially updating land-use codes
- Seasonal tourism strategy how can we accommodate pedestrians and bicyclists year-round?

Complete Streets Policy



Source: FHWA These cross-sections show how a rural 4-lane principal arterial Main Street could be converted to improve safety and access for all road users.



What could a Complete Street look like?

4-Lane Roadway (Base Condition)



FHWA. Bikeway Selection Guide



After





Safe Routes to School Program (SRTS)

- What is the SRTS Program?
 - Safe Routes to School (SRTS) is an approach that promotes walking and bicycling to school through infrastructure improvements, enforcement, tools, safety education, and incentives to encourage walking and bicycling to school. Nationally, 10%–14% of car trips during morning rush hour are for school travel, which can be compared with the year 1969 then half of all kids walked or biked to school.
 - Extensive resources are available through a national center, including an <u>SRTS Guide</u>, <u>parent surveys</u> and <u>student tallies</u>, and simple strategies, such as the <u>walking school bus</u>, that schools can use to support bicycling and walking.

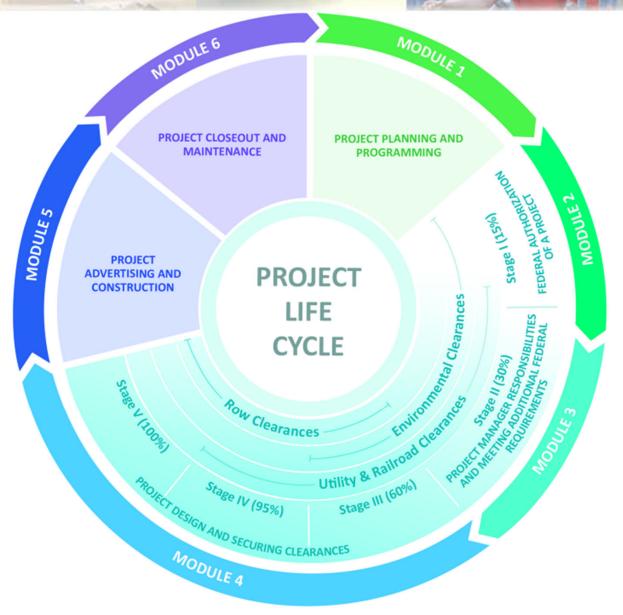


Transportation planning 101 - Where does one start?





Project lifecycle







Guiding Regulations and Funding

- Federal Highway Governing Bill
 - Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL)
 - https://www.fhwa.dot.gov/bipartisaninfrastructure-law/
- State Regulations
 - **17 AAC 05.155-990**



Dalton Highway





Questions?

