## Alcohol and Drug Use by Drivers: Findings From Five Roadside Surveys

#### **Doug Beirness**

**CanDART** 



# Background

- 5 Jurisdictional Surveys (Sept 2016 Sept 2018)
- Provide current, reliable and valid estimate of prevalence of alcohol and drug use by drivers
- Provide information on temporal, geographic and demographic characteristics of those involved
- Together, can be used to establish a baseline of cannabis use by drivers prior to legalization



## Locations

- 1. Manitoba Sept 2016
- 2. Ontario June/Sept 2017
- 3. British Columbia June 2018
- 4. Yukon June 2018
- 5. Northwest Territories Sept 2018

#### Cities

- Winnipeg, Brandon, Portage la Prairie, Thompson, Steinbach
- London, Renfrew County (Pembroke, Petawawa, Renfrew, Arnprior) North Bay, Timmins, Trenton, Peterborough, Peel Region
- Vancouver, Victoria, Abbotsford, Kelowna, Prince George
- Whitehorse
- Yellowknife

# **Roadside Surveys**

- CCMTA Protocol
- □ Wed Sat nights
- □ 9PM 3 AM
- 4 locations per night (90 min each)
- □ 4-5 interviewers
- Police assist with traffic
- □ Voluntary!

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Allows data to be merged



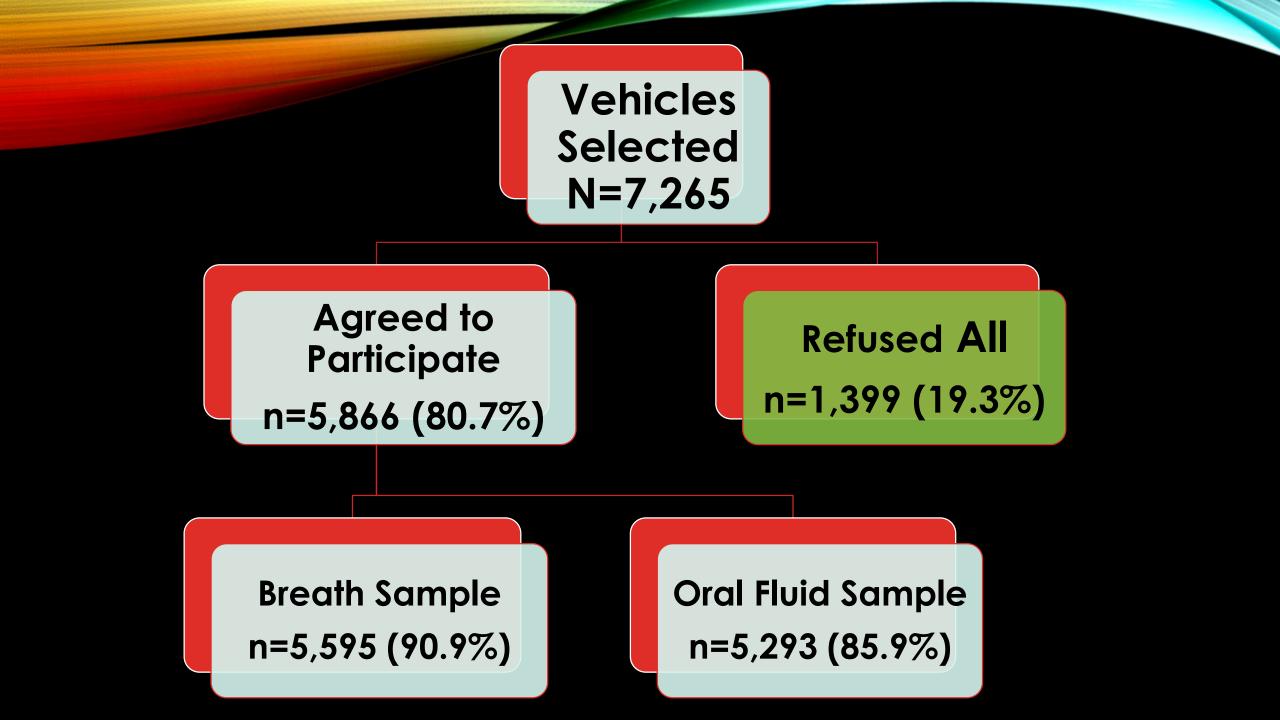
# Breath and Oral Fluid Samples



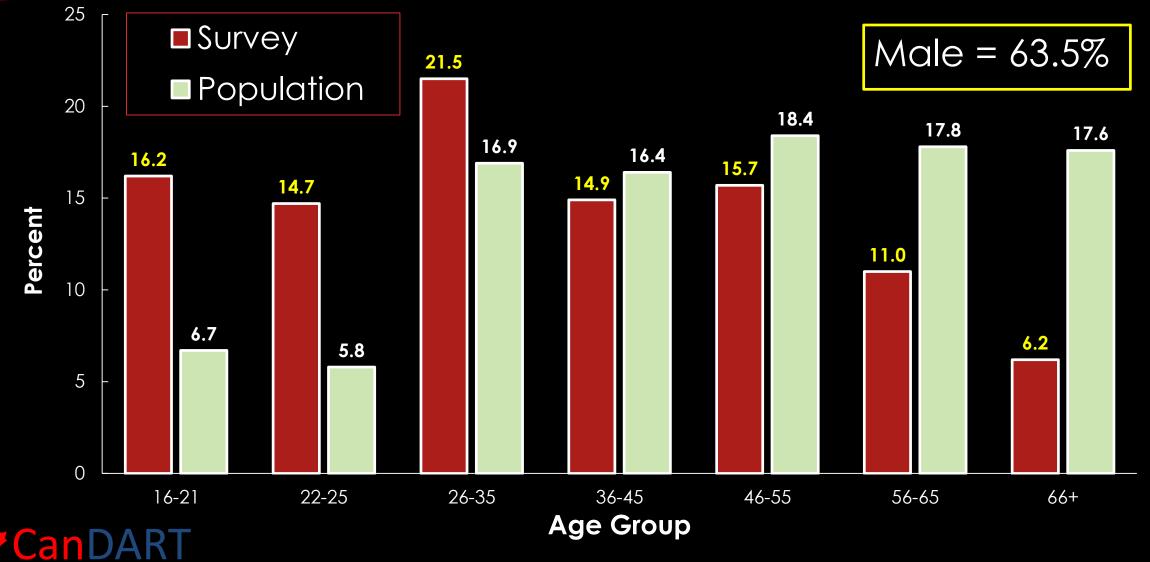
# Oral Fluid

Quantisal oral fluid collection kit □ 2 minutes to collect 1mL OF Sent by courier to lab Screened with immunoassay; confirmed by LC/MS-MS measures recent use parent drug vs metabolites □ \$10 Gift Card

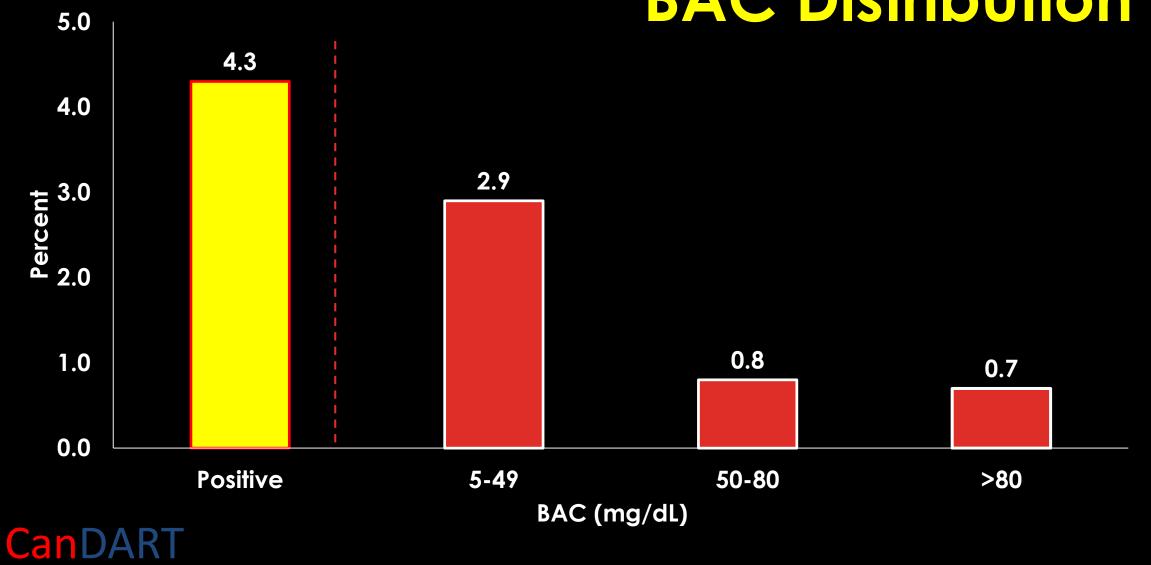


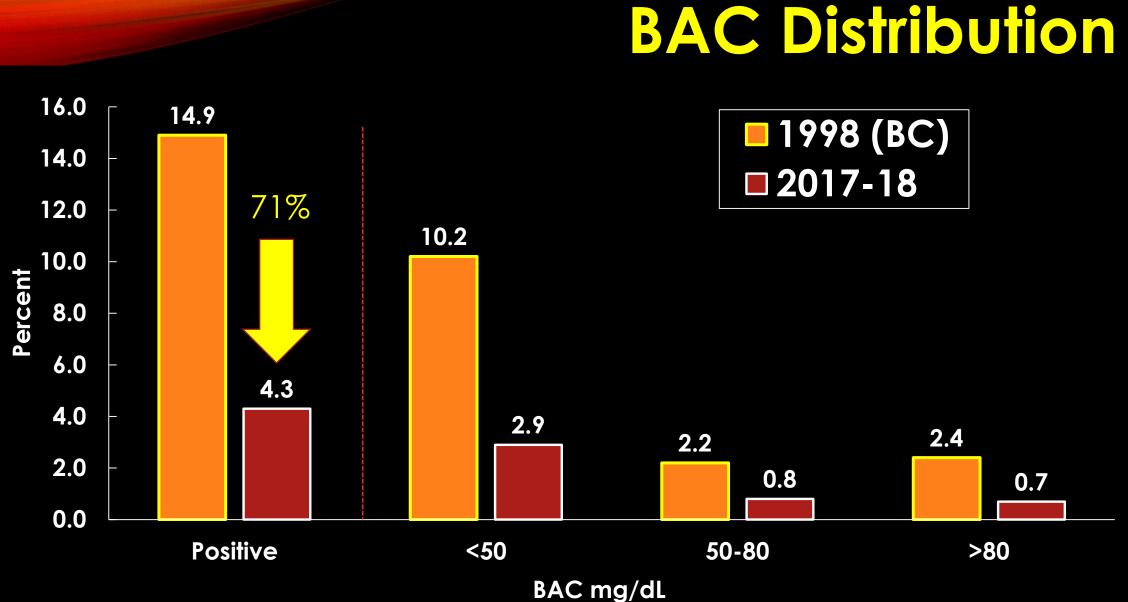


# Age Distribution



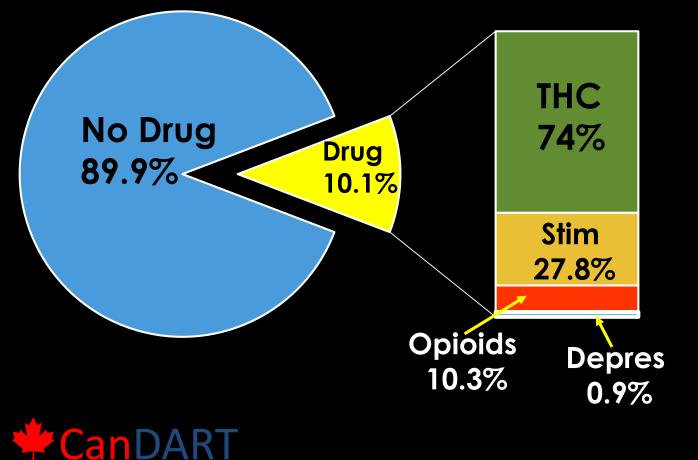
**BAC Distribution** 





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## Drugs

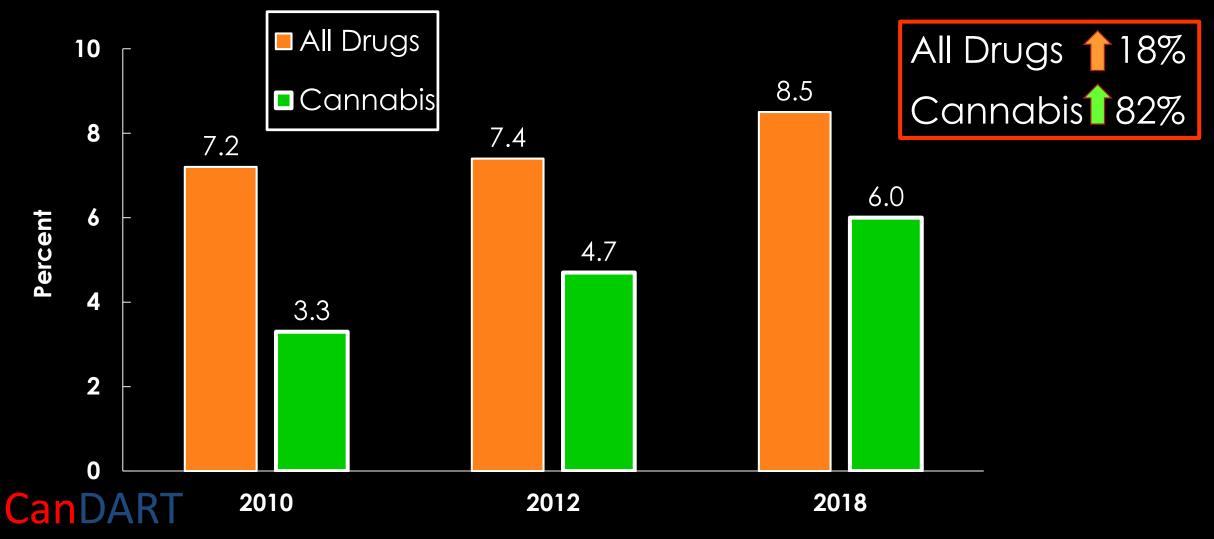


Cannabis = 74% of all drugs

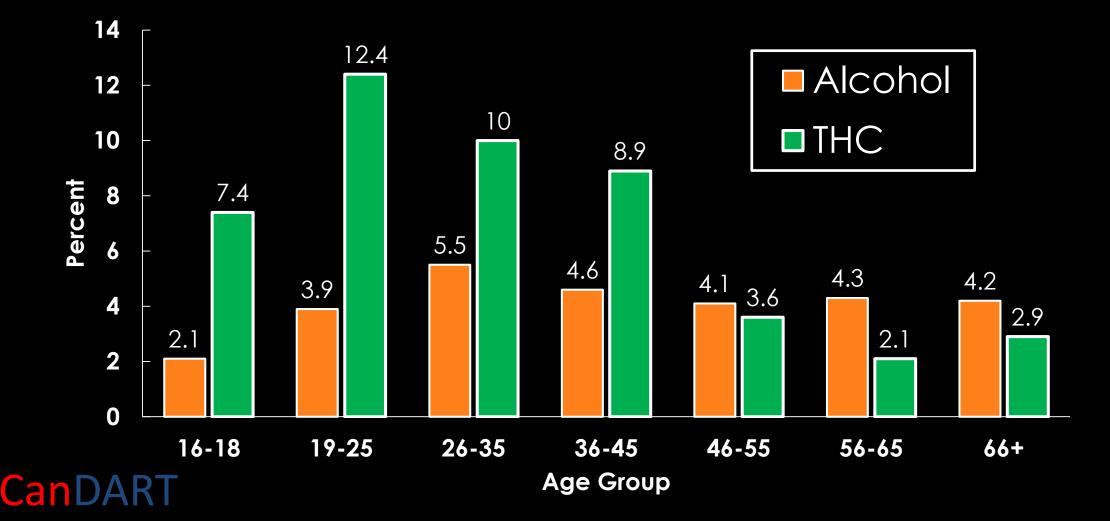
• Alc/Drug or Both= 12.9%

 Among Drinking Drivers, 20% also positive for Drugs

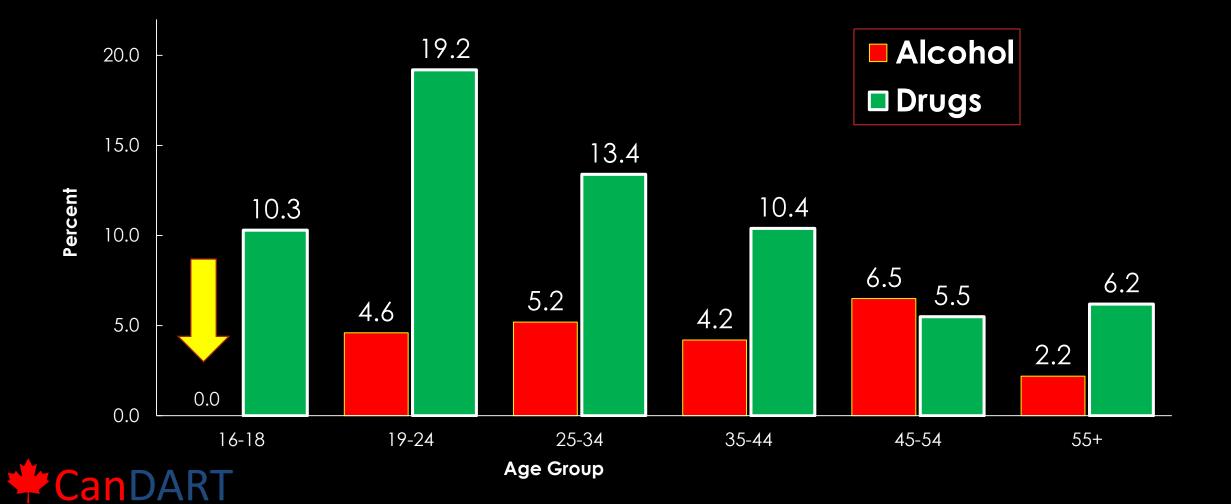
#### Drug Use by Drivers (BC 2010 – 2018)



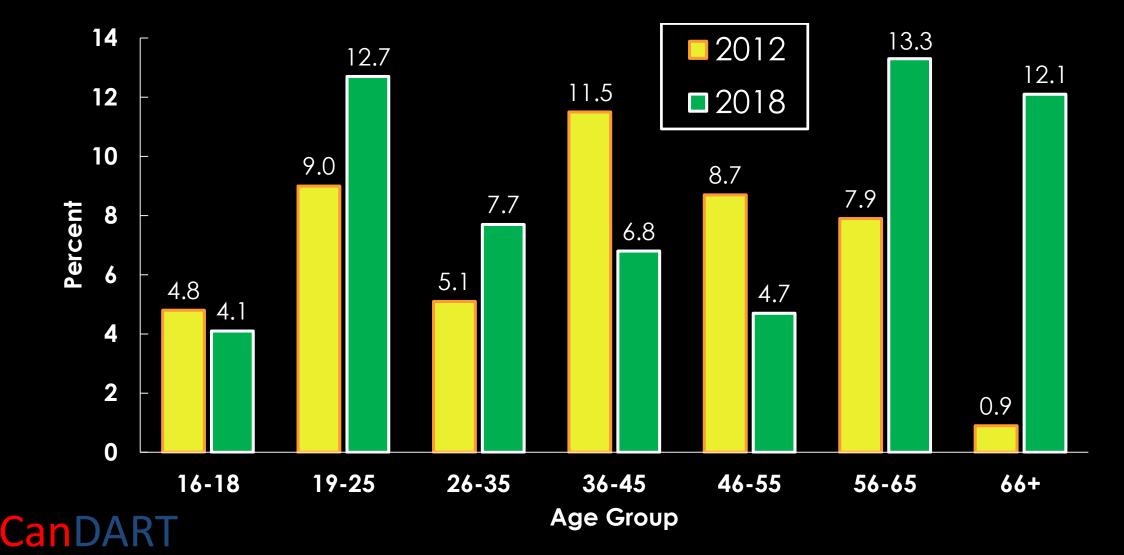
#### Alcohol and THC Positive Drivers According to Age Group



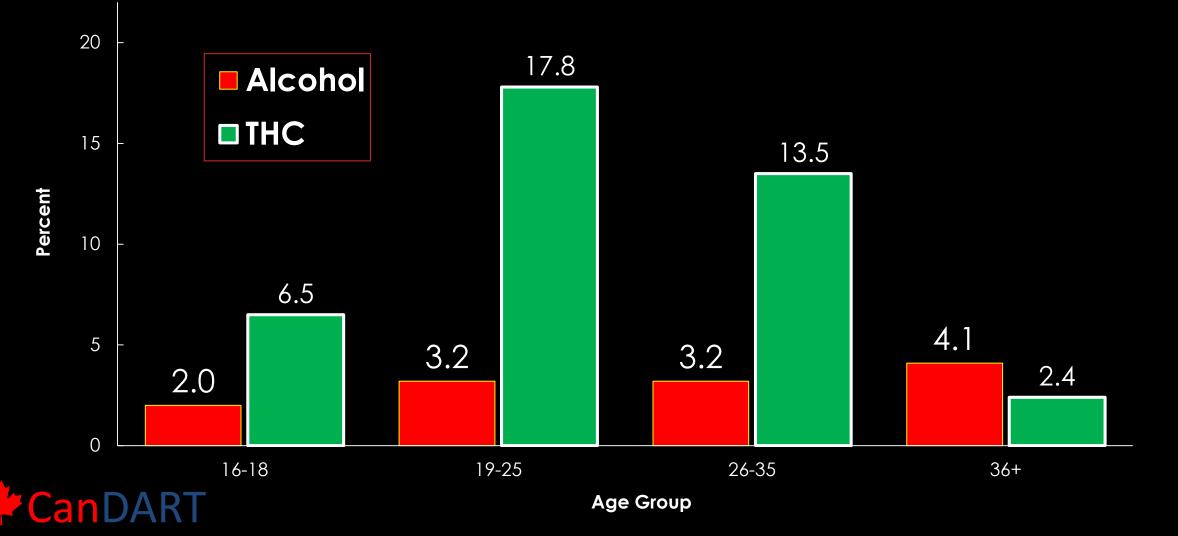
#### Alcohol and THC Positive Drivers According to Age Group (ON 2017)



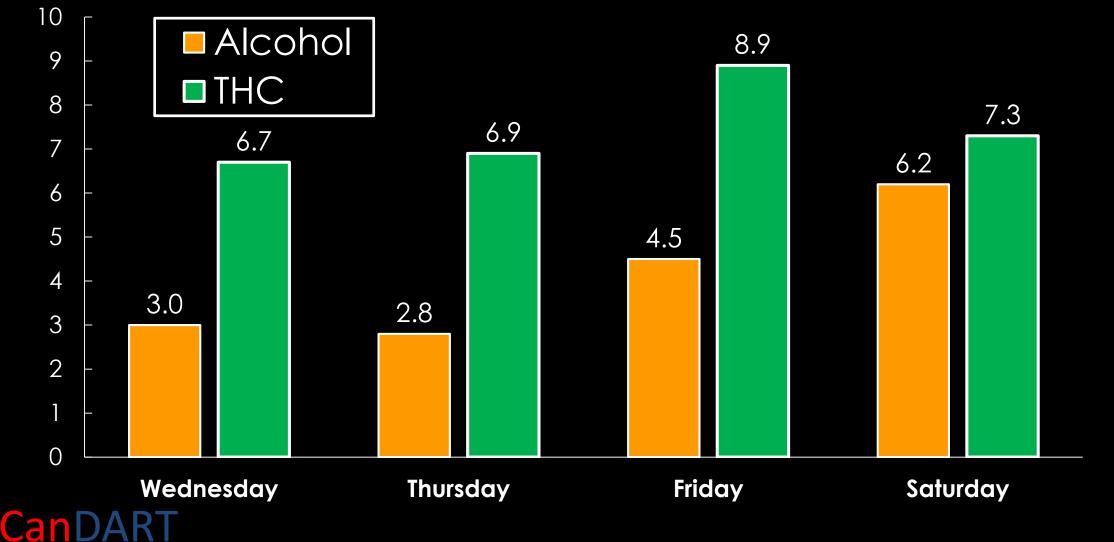
#### Drug Use by Age Group BC (2012 & 2018)



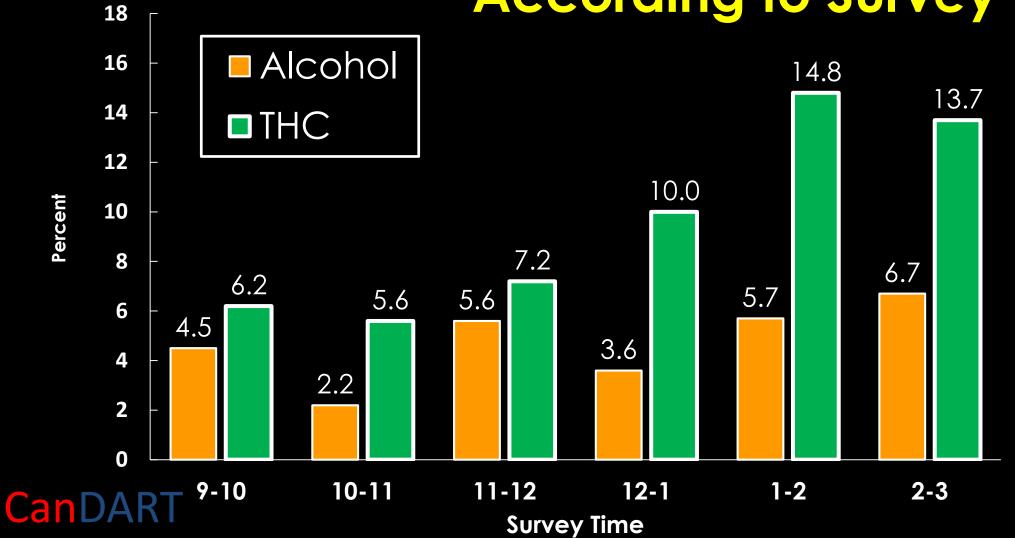
#### Alcohol and THC Positive <u>Novice</u> Drivers According to Age Group



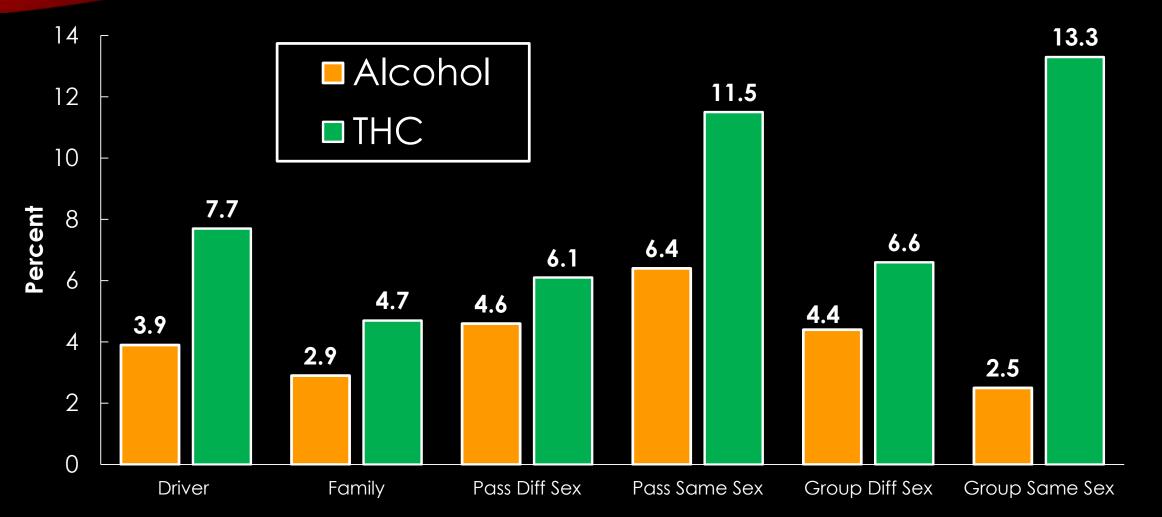
#### Alcohol and THC Positive Drivers According to Survey Night



#### Alcohol and THC Positive Drivers According to Survey Time

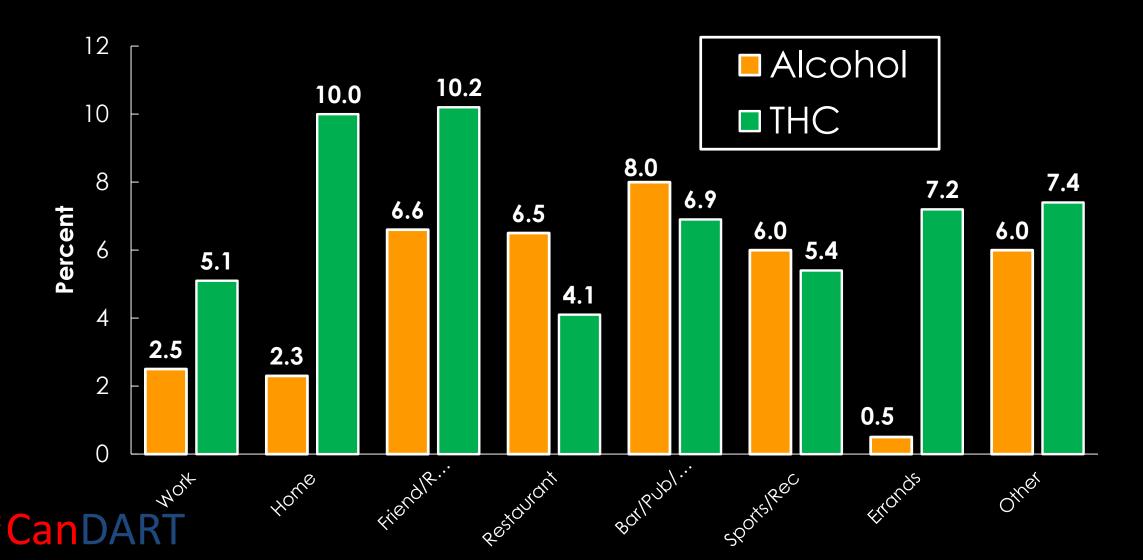


#### Who's in the Vehicle?

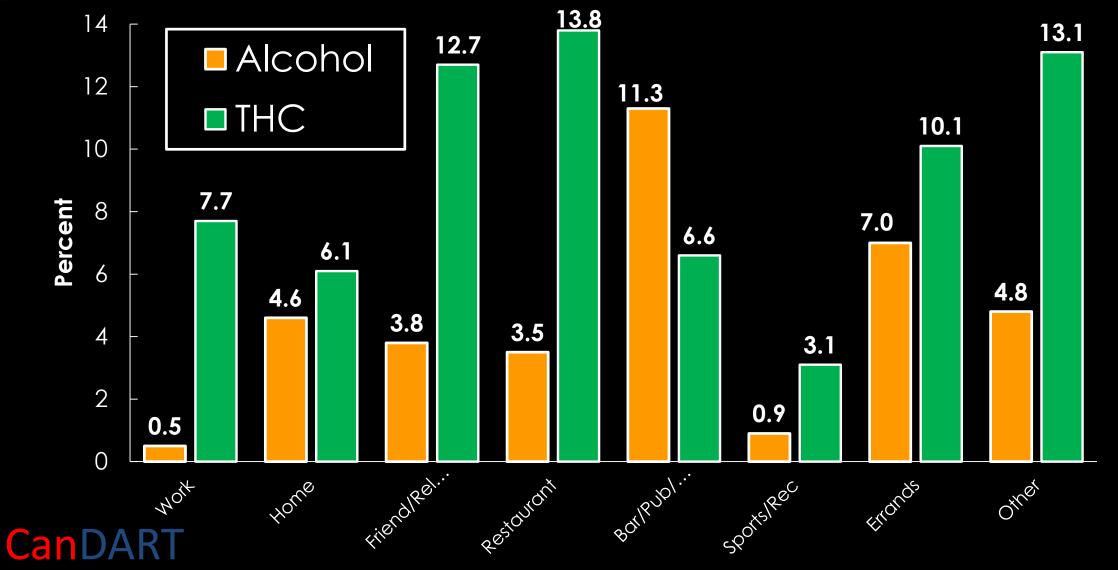


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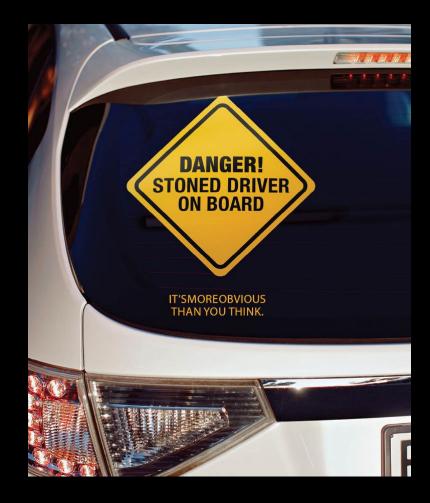


## Where are you going?



# What did we learn?

- Alcohol decreased dramatically
- Cannabis more common than alcohol among drivers increasing
- □ Younger drivers 19-25
- Older Novice drivers (19-25)
- Not just weekends
- Late night
- Groups of younger males



# **Final Word**

# Public interest is high Misinformation/confusion Need to understand patterns of use, social norms

Need to re-assess in 2-3 years to determine impact of legalization





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