# DREMEAUTONOMOUS VEHICLE?

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Importance rating

for groups of

similar features:

UNNECESSARY

WOULD LIKE TO HAVE

IMPORTANT TO HAVE

# FEATURES

What specific features do parents want AVs to have before they will use them to transport

#### EMERGENCY FEATURES

- No significant difference between parents + non parents (p = .563)
- More important to females than males (p < .0001)
- $\uparrow \uparrow$  More important to participants with female children than to participants with male children (p = .002)

### CHILD RESTRAINT FEATURES -

- No significant difference between parents + non-parents (p = .185)
- More important to females than males (p < .0001)
- No significant difference (p = .082)

### OPERATION OF + ACCESS TO VEHICLE

- More important to parents than non-parents (p < .043)
- More important to females than males (p < .0001)
- $\uparrow$  More important to participants with female children than to participants with male children (p = .002)

### GPS + VEHICLE LOCATION-

- No significant difference between parents + non-parents (p = .161)
- More important to females than males (p < .0001)
- $\uparrow \uparrow$  More important to participants with female children than to participants with male children (p = .004)

#### AUDITORY FEEDBACK OF CHILD-

- More important to parents than non-parents (p < .0001)
- More important to females than males (p < .0001)
- No significant difference (p = .087)

### VISUAL FEEDBACK OF CHILD-

- More important to parents than non-parents (p < .0001)
- More important to females than males (p < .0001)
- $\uparrow \uparrow \uparrow$  More important to participants with female children than to participants with male children (p = .038)

### MISCELLANEOUS: A/C, WINDOWS, TV, CAR GAUGES-

- More important to parents than non-parents (p < .0001)
- More important to females than males (p = .011)
- 👚 🕇 No significant difference (p = .69)

# OVERALL FINDINGS

PARTICIPANTS' WILLINGNESS TO USE A DRIVERLESS CAR TO TRANSPORT CHILDREN WITHOUT AN ADULT

INTHECAR



## 

#### PARTICIPANTS

- 1,335 valid responses
- 42% male 58% female
- 18-82 years old (mean age 37)
- 61% parents of children under 15 years

WOULD DEFINITELY

WOULD NEVER

MIGHT

#### QUESTIONNAIRE

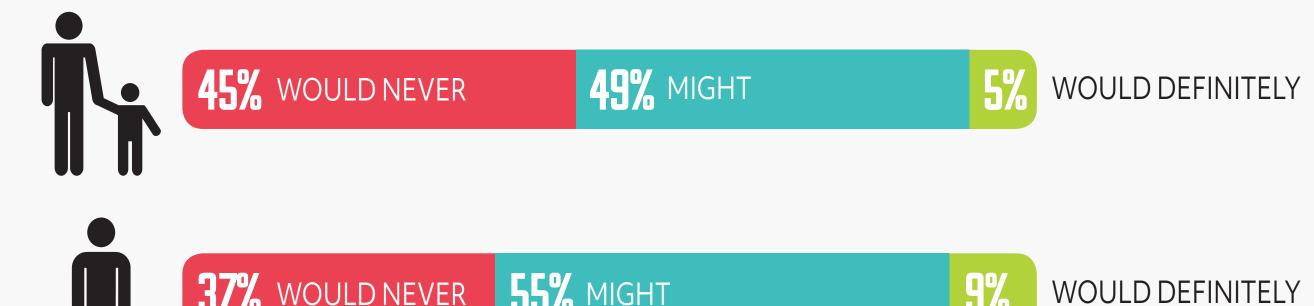
- Qualtrics survey hosted on Amazon Mechanical Turk
- Questions about participant + child demographics, willingness to use AVs to transport children unaccompanied, preferences + opinions of specific car features

## WILLING NESS BY DEMOGRAPHIC

#### SOCIOECONOMIC FACTORS

There were no significant effects for income, race, or education eve on willingness to transport children unaccompanied in AVs.

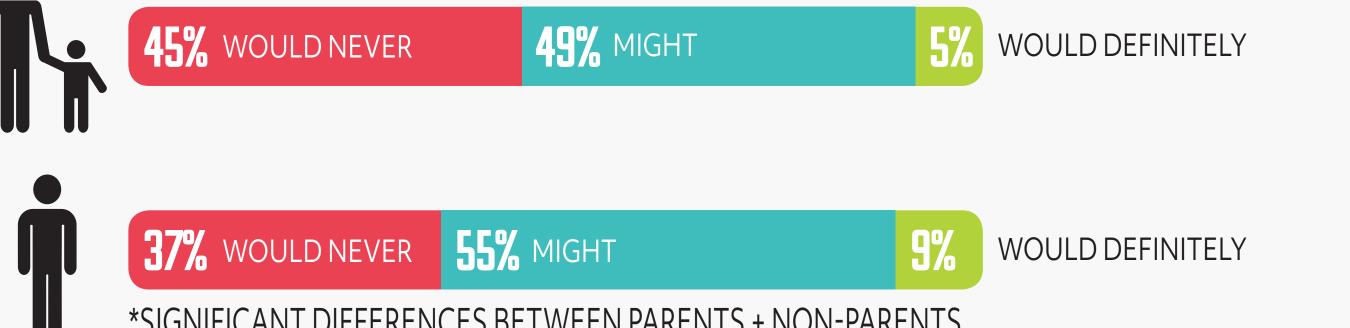
#### PARENTS VS Non-Parents



4	% WOULD NEVER	<b>49%</b> MIGHT	5%	WOULD DEFINITELY
37	% WOULD NEVER	<b>5%</b> MIGHT	9%	WOULD DEFINITELY



### FEMALES VS MALES



# WOULD DEFINITELY

# DISCUSSION

- Participants reported an overall hesitance or unwillingness to transport children in AVs unaccompanied.
- Women were the most reluctant out of all demographic groups.
- Parents were significantly more reluctant than non-parents.
- Socioeconomic factors did not influence willingness to transport children in AVs.
- Most car feature groups were ranked "Important to Have" or "Required" for an AV that transports children unaccompanied.
- mergency safety features ranked most important for child transport, followed by child restraint + control of the child + the vehicle.