

Fully Accessible Autonomous Vehicles Checklist

Working Draft. Last Updated May 13, 2018

Humar	n Machine Interface
	Accessible Apps to hail a car (Section 508 compliant)
	Both print/visual (adjustable size/contrast by user) and audio I/O
	Voice-controlled systems (e.g., change route, unlock doors, lower/raise windows, etc.)
	Where's my ride, including finding it when it arrives (how will the car know you are blind? Could it detect
	a dog, or a cane?)
	Micro-navigation needs for Blind riders how will you know the car has arrived?
	Minimally complex directions and control identifiers
	Compatible with portable devices (phones, tablets, 'smart-glasses') with customized assistive technology
	such as paperless Braille display for deaf/blind users
	Accessible operating surfaces (within reach; tactile cues, etc.)
	User enabled remote destination selection and trip monitoring with video and GPS for users with
	intellectual disabilities
	Alternate (accessible) drop off points for access (e.g., near curb ramps)
	Provides information (visual and audio) about environment surrounding the vehicle
	 Location, route, certain landmarks (e.g., Bay Bridge Toll Plaza), etc.
	 Weather, road conditions
	 Accidents, incidents (how will car communicate in an emergency?)
	 Deviations from route or why the ride may be stopping
	Orients user to drop off point including access features, directions to destination with orientation
	landmarks, construction, etc.
Hardw	are
	Compatible with existing hand controls (Levels 2 and 3)
	Space to stow wheelchair if transferring
	Lower floors to accommodate wheelchairs (don't put tech under the floor)
	Lift/ramp and securement system, or support for aftermarket modification
	Accessible securement for non-disabled people with limited upper body mobility, e.g., seat belts
	Accessible door handles, storage spaces (opening and closing the trunk or hood)
	& Legislation
	Anti-discriminatory licensing, insurance & liability requirements (No licensing for Level 5 passengers)
	Anti-discriminatory data & privacy requirements (not sharing disability/health status, or locations
	visited, without their consent) Sthingle considerations (whose life is prioritized in a grash?)
	Ethical considerations (whose life is prioritized in a crash?)
	Funding for fully accessible vehicle R&D
	Fully accessible infrastructure development (sidewalks, curb ramps, complete streets)

Note: Anything that a car maker includes as a feature or enhancement for people without disabilities should be designed to be accessed by people who are blind, Deaf, have mobility disabilities, cognitive disabilities, etc. Please contact Carol Tyson, ctyson@dredf.org, with any questions or comments.