KRB/JC

19-0450

SENATE STATE OF MINNESOTA NINETY-FIRST SESSION

S.F. No. 2020

S: SENJ	EM)
D-PG 635	OFFICIAL STATUS Introduction and first reading Referred to Transportation Finance and Policy
	D-PG

1.1	A bill for an act
1.2 1.3 1.4	relating to transportation; establishing microtransit rideshare pilot program; establishing a microtransit rideshare account; requiring a report; appropriating money.
1.5	BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA:
1.6	Section 1. MICROTRANSIT RIDESHARE PILOT PROGRAM.
1.7	Subdivision 1. Pilot program established. The Department of Transportation, in
1.8	coordination with the Metropolitan Council, the University of Minnesota Center for
1.9	Transportation Services, local government entities, and private business organizations, must
1.10	develop a microtransit rideshare pilot program to provide needed mass transit options to
1.11	underserved areas of the state, offer more flexible mass transit options, and explore the use
1.12	of autonomous vehicles to deliver mass transit to the people of Minnesota.
1.13	Subd. 2. Definitions. (a) For purposes of this section, the following terms have the
1.14	meanings given.
1.15	(b) "Autonomous vehicle" means a motor vehicle equipped with an automated driving
1.16	system, designed to function without an operator, and classified as level four or level five
1.17	by the "Taxonomy and Definitions for Terms Related to Driving Automation Systems for
1.18	On-Road Motor Vehicles" published by SAE International in September 2016.
1.19	(c) "Commissioner" means the commissioner of the Minnesota Department of
1.20	Transportation.
1.21	(d) "Department" means the Minnesota Department of Transportation.

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2.1	(e) "Elect	ric vehicle" has th	e meaning given i	n Minnesota Statutes, se	ection 169.011,
2.2	subdivision 2	<u>.6a.</u>			
2.3	(f) "Flexit	ole-route" means a	a vehicle route upd	lated by algorithm-based	1 software using
2.4	<u> </u>		•	on traffic or ride request	
2.5	to a singular	path between orig	in and termination	points.	
2.6	(g) "Geo-1	targeted advertisir	ng" means deliveri	ng electronic advertisen	nents to potential
2.7	program user	s based on their g	eographic location	<u>S.</u>	
2.8	<u>(h) "Great</u>	ter Minnesota" me	eans the area of the	e state outside the metro	politan area.
2.9	(i) "Metro	politan area" has	the meaning given	in Minnesota Statutes,	section 473.121,
2.10	subdivision 2	' <u>•</u>			
2.11	(j) "Natur	al gas vehicle" me	eans a motor vehic	le capable of being prop	elled by natural
2.12	gas, including	g compressed natu	aral gas and liquef	ed natural gas.	
2.13	<u>(k)</u> "On-d	emand" means a r	ide may be reques	ted at any time during re	egular operation
2.14	hours by a us	er, causing a vehi	cle within a predet	ermined zone to deviate	from its current
2.15	route to pick	up the user. On-de	emand does not in	clude vehicle stops at pa	rticular locations
2.16	at predetermi	ned times.			
2.17	<u>(1) "Servic</u>	ce area" means an	area of no more th	an five square miles in	the metropolitan
2.18	area or 15 squ	uare miles in great	ter Minnesota desi	gnated by the department	nt within which
2.19	the microtran	sit rideshare prog	ram operates.		
2.20	<u>Subd. 3.</u> F	Request for propo	sals. (a) Consisten	t with subdivisions 4 and	5, the department
2.21	must issue a 1	request for propos	als to vendors to d	esign, launch, and main	tain:
2.22	(1) algorit	thm-based softwar	re designed to crea	te and update flexible ro	outes, dispatch
2.23	vehicles to or	1-demand ride req	uests, and provide	drivers with turn-by-tu	m directions to
2.24	complete use	rs' on-demand ride	es; and		
2.25	<u>(2)</u> a mobi	ile device applicat	ion to serve as a us	er gateway into the micr	otransit rideshare
2.26	program.				
2.27	(b) Final v	vendor selection a	nd contracts for se	rvices are subject to Mi	nnesota Statutes,
2.28	chapter 16C.				
2.29	<u>Subd. 4.</u>	Software develop	ment. (a) The algo	orithm-based software re	equired under
2.30	subdivision 3	must be capable	of completing at le	east the following tasks:	
2.31	<u>(1) map ro</u>	outes to all verifie	d pick-up and droj	o-off sites within a servi	ce area;

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3.1	(2) identify and cordon off zones within a service area where a limited number of vehicles
3.2	are assigned by the software to operate, thus maximizing the efficiency of pick-ups and
3.3	drop-offs within the service area;
3.4	(3) receive and prioritize on-demand requests from the user application developed under
3.5	subdivision 5;
3.6	(4) dispatch the nearest vehicle to a pick-up site nearest the most recent on-demand
3.7	request within the vehicle's operation zone within the service area, including alerting the
3.8	driver that a new pick-up site has been added to the route;
3.9	(5) reroute a vehicle in real time based on new, on-demand requests;
3.10	(6) reroute a vehicle in real time to accommodate previously scheduled pick-ups;
3.11	(7) reroute a vehicle in real time to new pick-up sites within a zone within a service area
3.12	up to the passenger capacity of the vehicle and prioritize the route to drop-off sites to ensure
3.13	ride times of no more than 20 minutes per user;
3.14	(8) track individual ride times;
3.15	(9) reroute a vehicle in real time based on traffic patterns to ensure the quickest possible
3.16	route to the next destination is taken;
3.17	(10) alert the driver when the route is being recalculated; and
3.18	(11) give the driver audible, turn-by-turn directions to complete the current route.
3.19	(b) The software must be capable of operating on a small to midsize tablet or other
3.20	mobile device that can be mounted on the dashboard of the vehicle.
3.21	Subd. 5. User application development; data privacy. (a) The user application required
3.22	under subdivision 3 must allow users to perform at least the following tasks:
3.23	(1) review a map of their service area, including pick-up and drop-off sites;
3.24	(2) set up a user profile;
3.25	(3) securely store credit or debit card information;
3.26	(4) request an on-demand ride;
3.27	(5) schedule a ride up to seven days in advance;
3.28	(6) pay fares;
3.29	(7) receive text message or e-mail alerts when the rideshare vehicle is near the pick-up

3.30 location; and

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(8) provide feedback about the user's experience with the rideshare program, including	ng
feedback about the driver, vehicle, rideshare punctuality, ride time; quality and convenien	
of pick-up and drop-off sites, and overall satisfaction.	
(b) All personal data about the user collected under this section are private data subject	ect
to Minnesota Statutes, chapter 13.	
Subd. 6. Service areas. (a) The department must select four initial pilot service areas	<u>S</u>
to introduce the microtransit rideshare program, including two service areas in the	
metropolitan area, one service area in Rochester, and one service area in greater Minneso	ta.
The department must determine service area eligibility based on the following criteria,	
specific to each service area:	
(1) current access to mass transit options;	
(2) need for additional mass transit options;	
(3) current mass transit ridership;	
(4) whether current mass transit options are operating at or below capacity;	
(5) whether the addition of flexible-route, on-demand mass transit may alleviate tran	sit
concerns; and	
(6) availability of additional local, state, and federal funds.	
(b) After the initial launch of the microtransit rideshare program, the department may	<u>y</u>
designate additional service areas. The department must expand the program in both the	2
metropolitan area and greater Minnesota as equally as is practicable. Additional service	
areas must be determined by the criteria in paragraph (a).	
Subd. 7. Vehicles and drivers. (a) The department must procure a fleet of vehicles f	or
each service area. Metropolitan service areas must be served by no fewer than ten vehicle	es.
Greater Minnesota service areas and the Rochester service area must be served by no few	<u>er</u>
than three vehicles. Program vehicles must seat no more than 20 passengers, including t	he
driver, and may either be purchased new as funds are available or may be refurbished surpl	us
vehicles.	
(b) The department is encouraged to include electric vehicles and natural gas vehicle	<u>25</u>
in each fleet when the program launches. By 2024, one-half of each fleet must consist o	f
electric or natural gas vehicles.	
(c) The department is encouraged to immediately begin testing the use of autonomou	<u>15</u>
vehicles within at least one service area at launch. By 2026, at least one service area mu	st

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ł	have at least one operational autonomous vehicle in its fleet. By 2028, each service area
)	nust have at least one operational autonomous vehicle in its fleet.
	(d) All drivers must be properly licensed and must be trained on the use of onboard
1	evices that utilize the algorithm-based software developed under subdivision 4.
	Subd. 8. Fares; account established. (a) The department must set user fares for the
)	rogram. Fares must not exceed 150 percent of the current metropolitan-area rush-hour bus
	are. All fares collected must be deposited in the microtransit rideshare account created
]	inder paragraph (b).
	(b) A microtransit rideshare account is established in the state transportation fund. Money
1	n the account is annually appropriated to the commissioner for expenditures related to the
	ideshare program under this section.
	Subd. 9. Marketing. Prior to launch, the department must conduct a marketing campaign
	o ensure potential users of the rideshare program are aware of the program and understand
	now to use the service. Advertising materials should include direct mailers to local businesses
	and residences, informational brochures at transit stations and on existing bus and light rail
	outes, and web-based and mobile-based geo-targeted advertising with links to a website
	naintained by the department and dedicated to the microtransit rideshare program.
	Subd. 10. Additional requirements. (a) All pick-up and drop-off sites must be vetted
	or safety by the department. Users must be able to safely walk to and from each site.
	Vehicles must be able to safely load and unload passengers at each site.
	(b) The department must designate a sufficient number of pick-up and drop-off sites to
	ensure users must walk no more than five minutes to or from any site.
	(c) All rides must take no more than 20 minutes from pick-up to drop-off. Ride time
	loes not include walking to or from pick-up and drop-off sites.
	(d) To ensure a smooth launch and for continued testing purposes, the rideshare program's
	nitial operating hours may be restricted to off-peak times, such as 9 a.m. to 3 p.m. on
	weekdays. The department must strive to increase the hours of operation to include weekends
	and rush hour availability.
	(e) The department may establish a call center for users who do not have access to the
	nobile device application or the Internet. Users may call to request an on-demand ride or
	schedule a ride up to seven days in advance. Representatives in the call center may receive
1	users' requests and input them into the user application under subdivision 5 to reserve a ride

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6.1	Subd. 11. User feedback. At least quarterly, the department must review user feedback
6.2	regarding the efficacy of the rideshare program. In consultation with stakeholders and
6.3	vendors, the department must modify the rideshare program to meet user concerns and
6.4	maximize the program's utility for riders. This may include but is not limited to modifying
6.5	the algorithm-based software, expanding or contracting a service area, eliminating service
6.6	areas, adding new service areas, adjusting the features of the application, opening a call
6.7	center, adding or removing vehicles from a service area's fleet, adjusting fares or hours of
6.8	operation, adjusting marketing strategies, increasing user education, or selecting new pick-up
6.9	and drop-off sites.
6.10	Subd. 12. Report. Annually by January 1 the commissioner must submit a report to the
6.11	chairs and ranking minority members of the committees of the legislature with jurisdiction
6.12	over transportation. The report must outline the pilot program's current objectives and
6.13	outcomes; discuss resources, technology, and research required for the next phase of the
6.14	pilot; detail the program's current costs and concerns; and make recommendations for
6.15	legislation to advance the program.
6.16	Sec. 2. APPROPRIATION; MICROTRANSIT RIDESHARE PILOT PROGRAM.
6.17	\$ in fiscal year 2020 is appropriated from the general fund to the commissioner of

6.18 <u>transportation for the microtransit rideshare pilot program under section 1. Any balance in</u>

6.19 the first year does not cancel and is available in the second year.