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### Capturing the Ride: Exploring Low-Density Flexible Transit Alternatives in Salem-Keizer

Darwin Moosavi Portland State University

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### Capturing the Ride: Low-Density Flexible Transit in Salem-Keizer

119

May 23, 2014 PSU Transportation Seminar Darwin Moosavi, PSU MURP Candidate

# Portland State



E Ford

THE USED CAR MEGASTORE



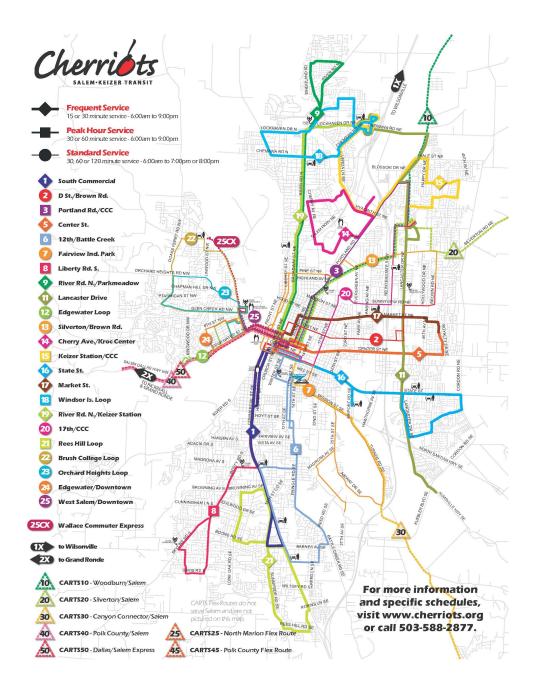
# PARADIGM PLANNING

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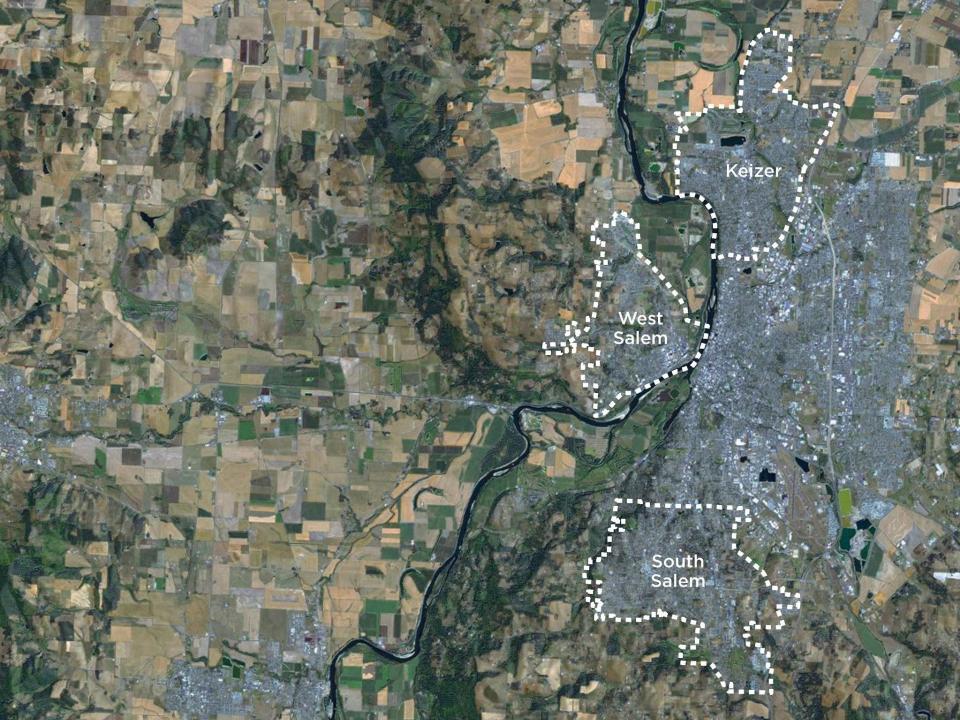




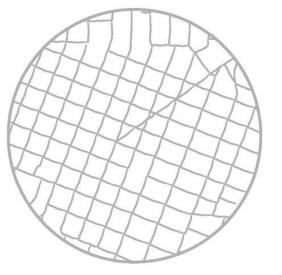
### SALEM-KEIZER TRANSIT



The mission of this project is to allow greater accessibility to transit by expanding coverage with flexible transit solutions, while also ensuring that the needs of transit-dependent populations, seniors, and people with disabilities are accommodated.



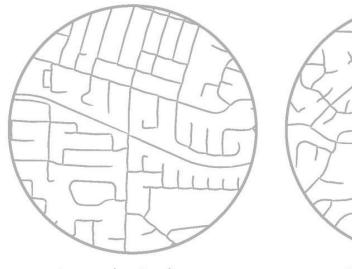




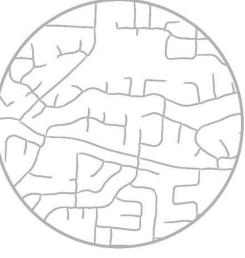


Downtown

Keizer

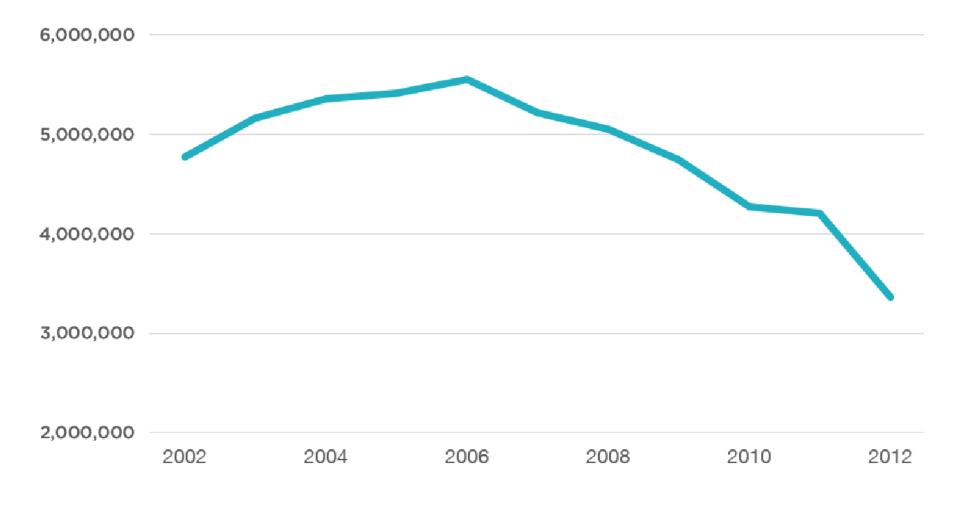


South Salem



West Salem

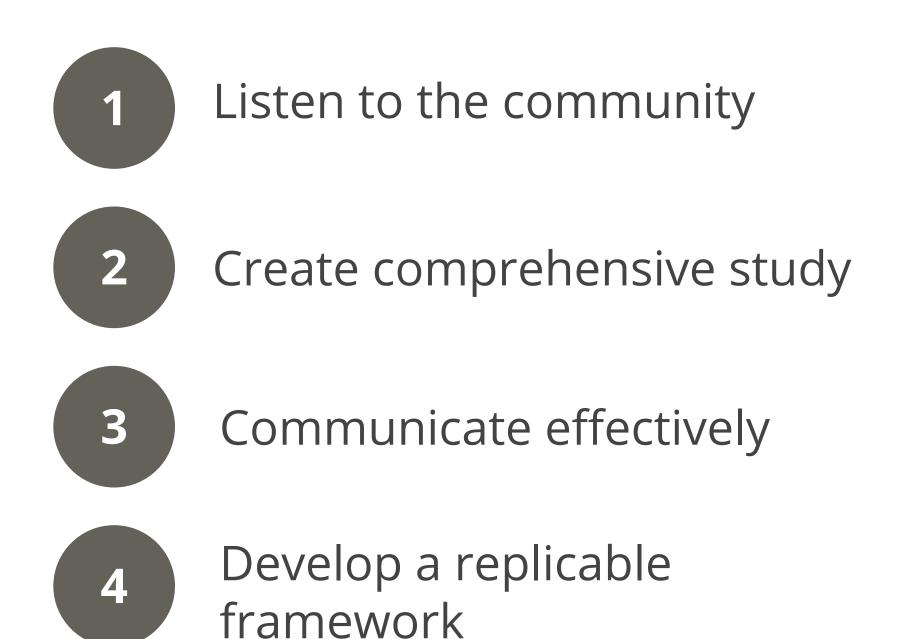
### **Cherriots Ridership 2002-2012**

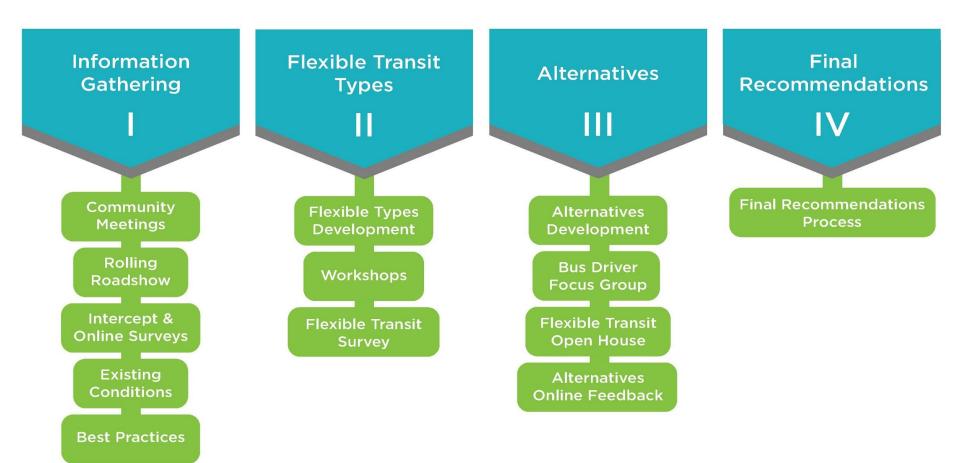


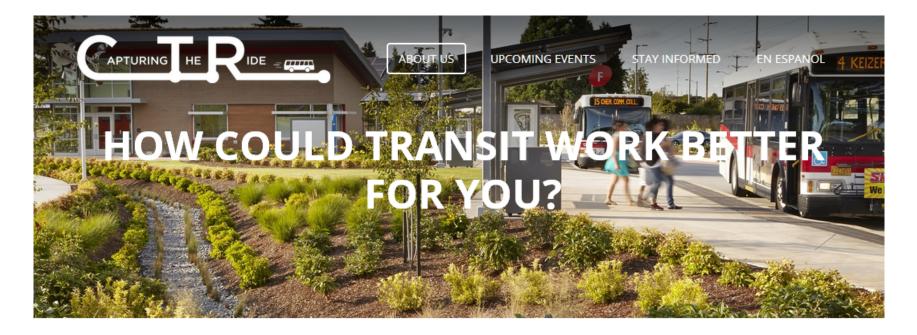
	Keizer	South Salem	West	Salem-Keizer Region
Population	36,402	39,192	20,486	225,933
<b>Population Density (Per Sq Mile)</b>	5,135	4,672	3,352	3,719
<b>Median Household Income</b>	\$51,708	\$56,520	\$62,668	\$45,837
Seniors (65 and Over)	13.5%	14.5%	14.2%	12.4%
Minority (Non-White)	25.4%	16.9%	19.6%	31.6%
<b>Households with No Car</b>	7.2%	5.4%	6.3%	9%
Families in Poverty	12.2%	7.7%	8.2%	14.7%



#### FLEXIBLE TRANSIT







#### DIDN'T HAVE A CHANCE TO ATTEND ONE OF OUR TRANSIT WORKSHOPS THIS MONTH? TAKE OUR SURVEY TO LEARN ABOUT FLEXIBLE BUS SERVICE AND LET US KNOW WHAT YOU THINK!

What is The Deviator? What about The Hopper? Explore innovative flexible bus options and tell us which bus characteristics would work best for your transportation needs! We are focusing our efforts on learning more from residents of West Salem,

## Website & Facebook

# Neighborhood Meetings





# **Rolling Roadshow**

### How could transit work better for you? Help us discover ways to improve bus service in West Salem, South Salem, and Keizer.

We are a group of urban planning graduate students known as Paradigm Planning. Our project, Capturing the Ride, is focusing on these neighborhoods because current service is underperforming. We believe there are ways to improve the system for current bus riders and potential new riders, and we want to hear what you think at our upcoming workshops.



#### **UPCOMING WORKSHOPS**

The state of

Keizer April 2, 5-7 p.m. Keizer Transit Center (5860 Keizer Station Blvd NE)

South Salem April 9, 5-7 p.m. South Salem Senior Center (6450 Fairway Ave SE)

West Salem April 9, 5-7 p.m. **Roth's Fresh Market** (1130 Wallace Rd NW)







Take our survey at capturingtheride.com

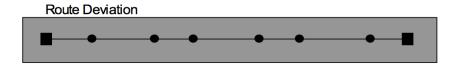
# Intercept Surveys

FSV

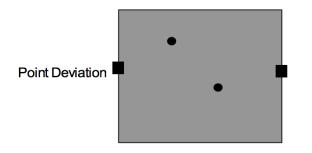


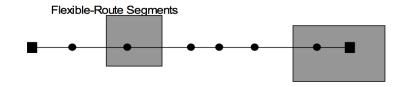
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Surv	eyMonkey, Inc [US] https://www.surveymonkey.com/s.aspx?PREVIEW_MODE=DO_NOT_USE_THIS_LINK_FOR_COL
	PTURING HE RIDE =
	Cost
	Convenience
	Reliable
	No car
	Weather
	Subsidized by work or school
	Other (please specify)
_	general, what matters most to you when you ride transit?
_	Frequency
$\bigcirc$	Convenience (close to home/destinations)
$\bigcirc$	Reliability (Bus runs on time)
$\bigcirc$	Clean buses
$\bigcirc$	Relative cost
$\bigcirc$	Safety
$\bigcirc$	Other (please specify)
Г	

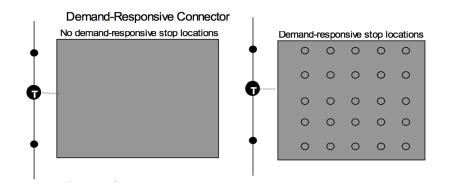
# **Online Survey**



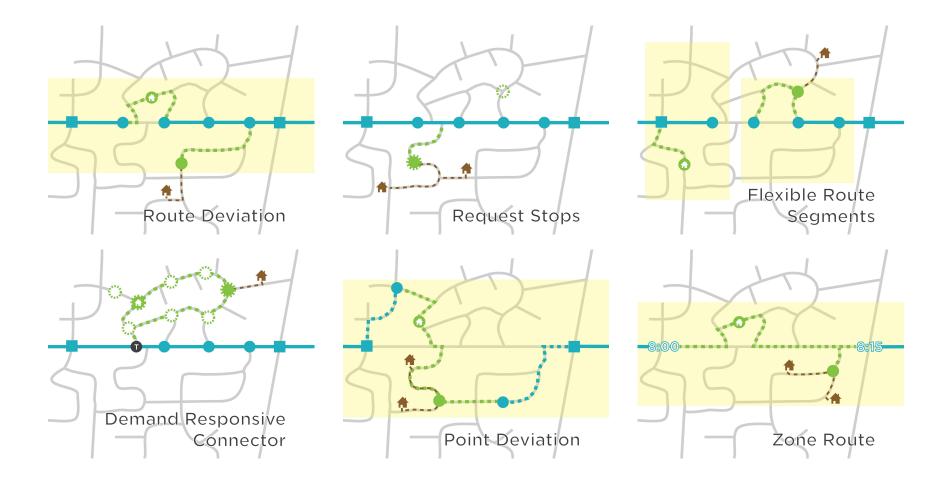






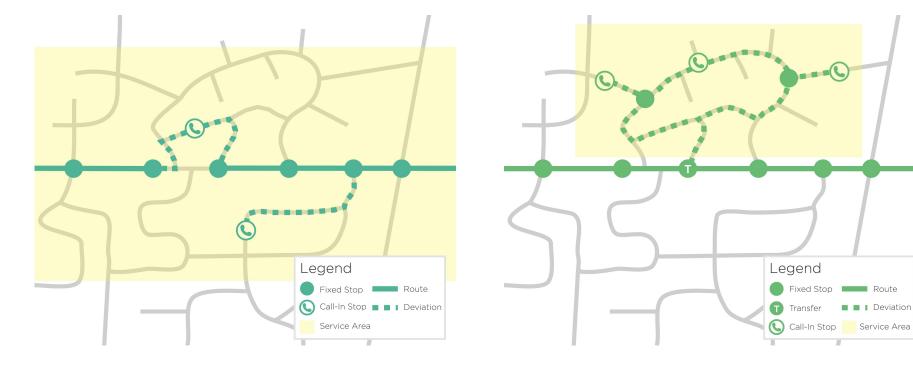






### **The Deviator**

## **The Hopper**



### Regular Bus

Cherriots is the good old-fashion bus service that everyone is familiar with. The bus follows the same route and makes the same stops each day. If you want to ride the bus, you can show up at the nearest stop and expect it to arrive at a scheduled time.

### The Deviator

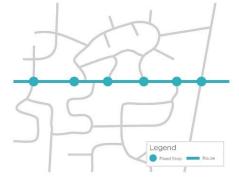
The Deviator is the most like regular bus service. The bus goes on the same route and makes similar stops. The biggest difference is that it will go off of the normal street when needed or requested to pick people up and drop people off.

### The Hopper

The Hopper is less like a regular bus and more like dial-a-ride service (a shared taxi). There are fewer regular bus stops for jumping on and off, but the bus can go anywhere in the neighborhood or any defined area with some kind of notice.

### Dial-a-Ride

Not as well known because it's restricted to seniors and people with disabilities. CherryLift buses are a lot like shared taxis, in that they will pick you up (and anyone else along the way) and take you anywhere you want to go in Salem or Keizer. There are no bus stops or schedules, instead you have to call in advance to make reservations.















# Workshops







St. Joseph, Missouri The Ride

Woodbridge, Virginia PRTC

Burnsville, Minnesota MVTA



Royal Oak, Michigan SMART



Jacksonville, Florida JTA



Richland, WA Ben Franklin Transit













# Keizer Workshop

Transit Network Design Workshap Cherridets

Time In the



## South Salem Workshop



### West Salem Workshop

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SurveyMonkey, Inc [US] https://www.surveymonkey.com/s.aspx?PREVIEW\_MODE=DO\_NOT\_USE\_THIS\_LINK\_FOR\_COL

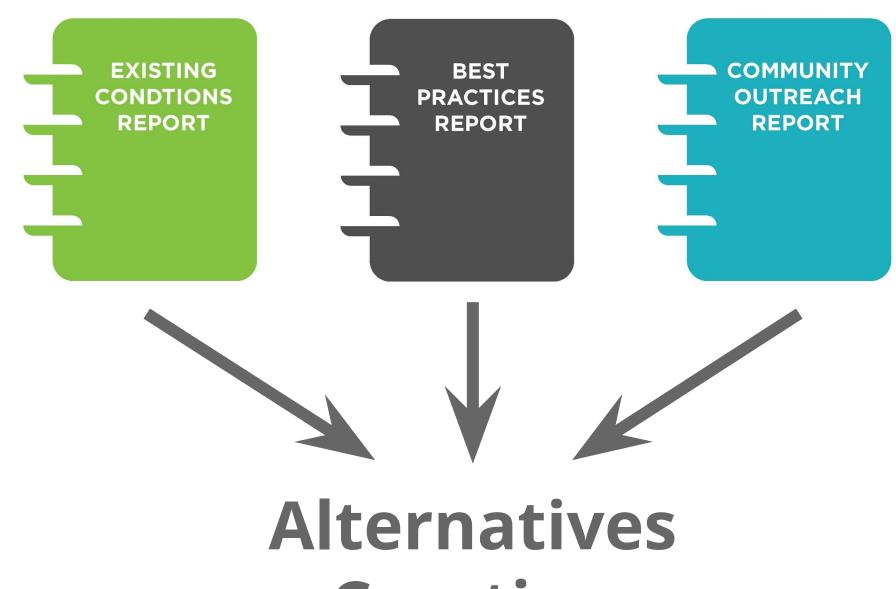
#### Flexible Transit Survey

Currently, the two most common forms of bus transit found in the Salem-Keizer area are regular bus service and dial-a-ride service.

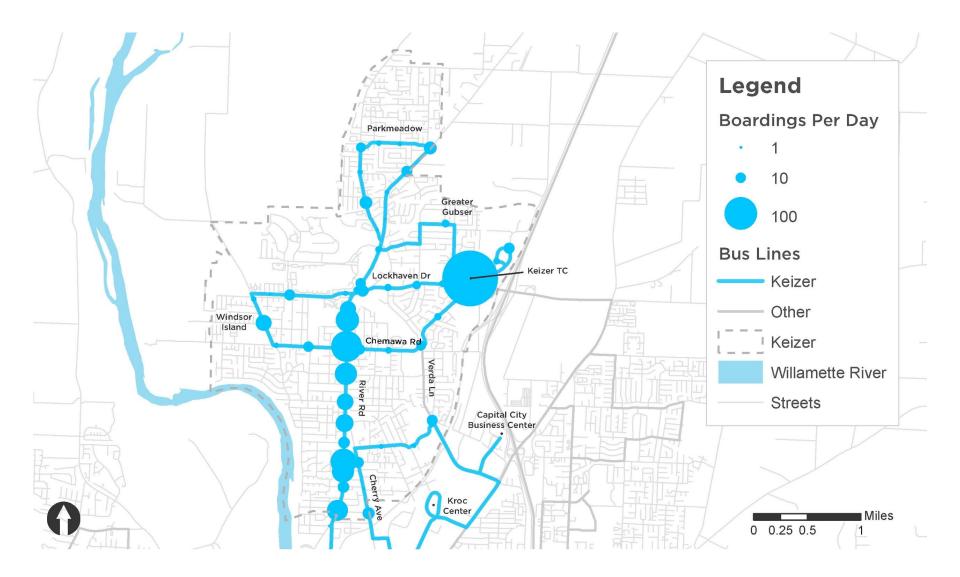
Cherriots is the regular bus service that everyone is familiar with. The bus follows the same route and makes the same stops each day. If you want to ride the bus, you can show up at the nearest stop and expect it to arrive at a scheduled time.

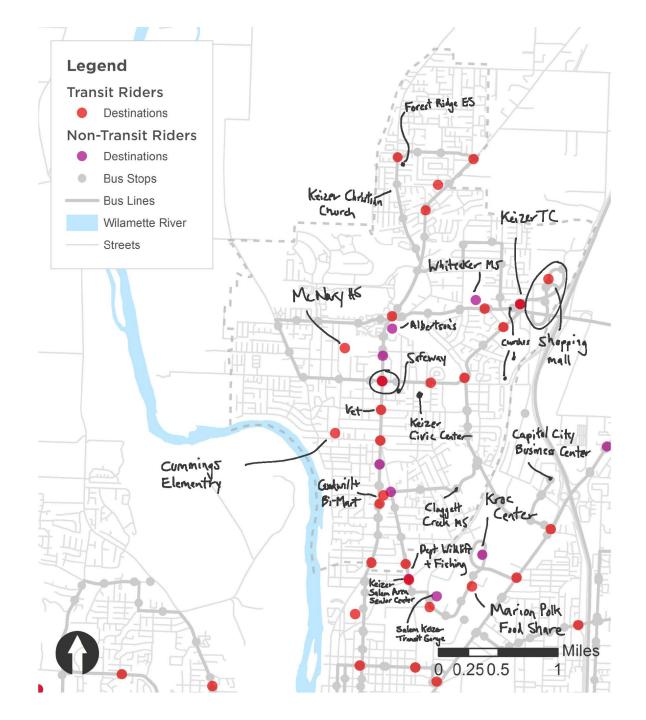


## Flexible Transit Survey



Creation





### Features



Activated Stops



Minibus capacity of 22



3/4 Mile

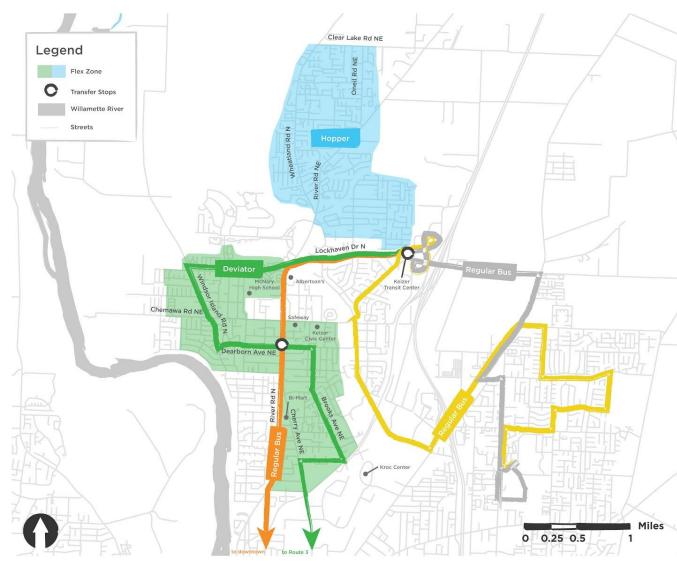


1 Hour between buses



Optional activation

Keizer Alternative 2







### **Deviator Features**



### How to Activate Stops

Step 1: Contact TripLink call center

**Step 2:** Request to activate nearest activation stop and also activate drop-off stop if needed

Step 3: Call center will provide a wait window

Step 4: Walk to your activated stop

Step 5: Bus will pick you up in your wait window

Step 6: Get off bus at any activated or fixed stop

### **Boarding at Fixed Stops**

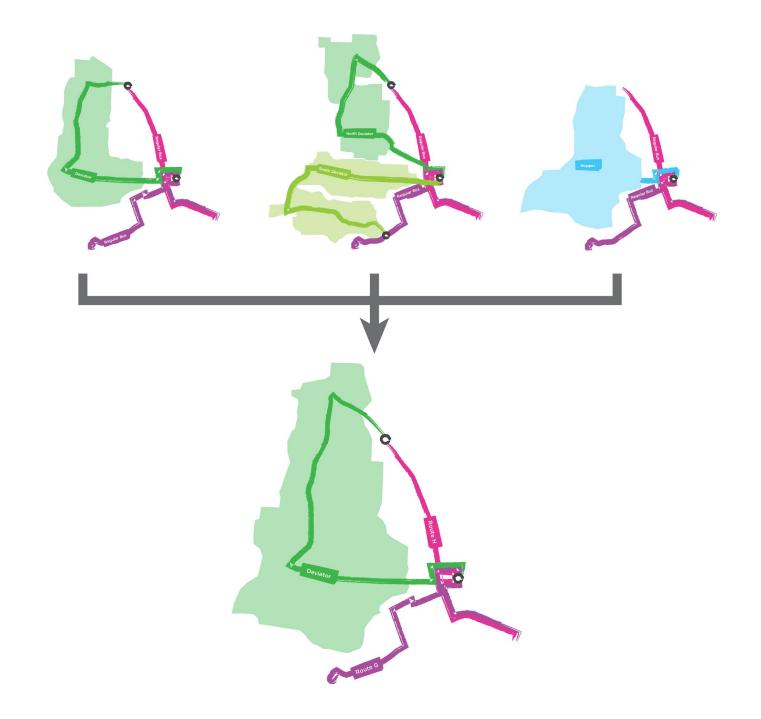
This Deviator can be used like a regular bus line with fixed stops. If you board on a fixed stop, you still have the option of asking the driver to deviate to an activated stop for your destination. The Hopper only has a fixed stop at its end.

## **Open House**





## **Bus Driver Focus Group**

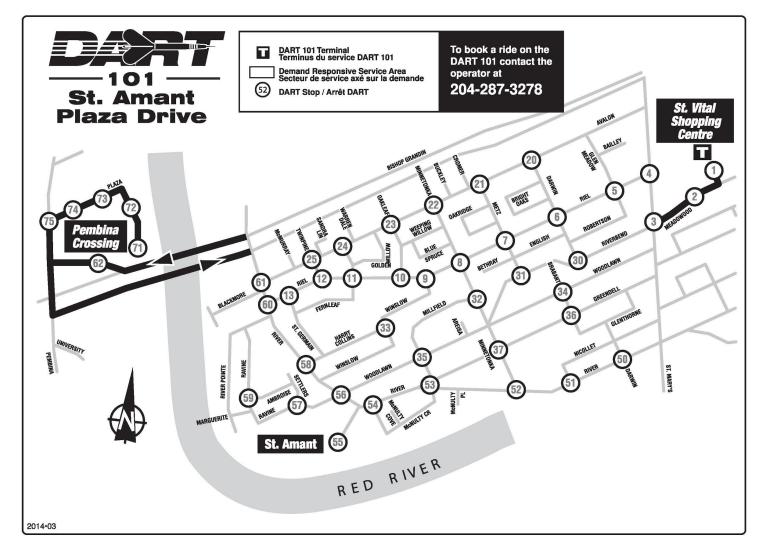


# Vehicle Type



#### **Fixed Stops ROUTE 420** 6/22/2013 esota Valley Transit Authority Rosemount 3 31 **East View** Rosemount Community Center 140th St High School Scott Highlands Middle School Rosemount High School Cedar Ave **Apple Valley** 142nd Apple Valley High School Rosemount Middle School Rosemount Plaza 145th St 145th St Apple Valley 145th St 144th St (42) 0 Path 47th St Blvd CAP 146th St **Biscayne Ave** Villas Agency Emb Canada Ave 147th Ave Cimarron Ave Chippendale Ave Burma Av Galaxie Library Wal-Mart Cameo 150th St 42 (42) 150th St Rainbow **Diamond Path** Pilot Knob Rd Dodd Blvd Home Shannon Pkwy Health Johnny Cake Ridge Rd Depot SRobert Trail Partners 153rd StTarget Galaxie Flagstaff Ave **Rosemount Transit** Whitney Dr Cub 155th Stu Station Foods P 🕷 🔒 (9) 157th St Routes: 420, 476, 478 Cedar 160th St **Apple Valley Transit Station** P 💑 🛱 3 Routes: 420, 440, 442, 475, 477, 480, Red Line

## **Activated Stops**



## **Planning Ahead**



## **Dispatching & Technology**



# **Other Recommendations**

- Education
- Marketing & Branding
- Transit Operator Training
- User Cost
- Signage

- Street Network Layout
- Stop Placement
- Subscription Service
- Advanced
  Reservation Policies
- Real Time Tracking

