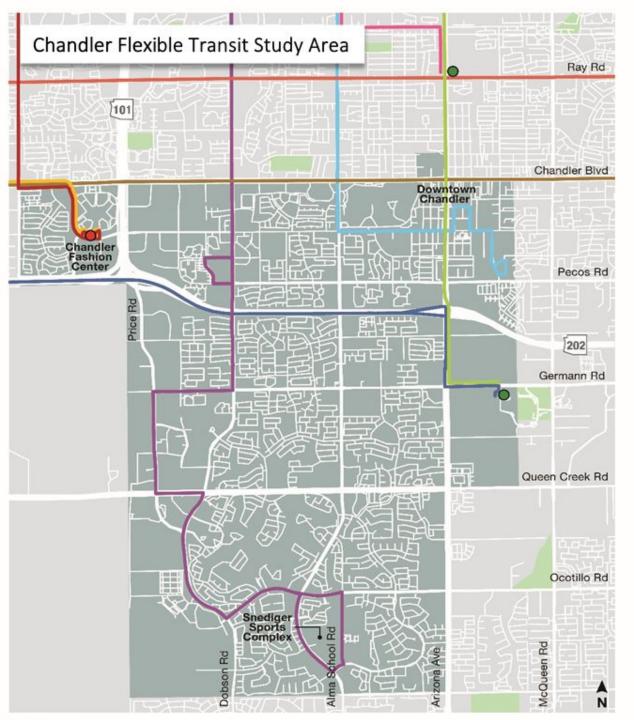
# Price Road Flexible Transit Study





## Flexible Transit METRO Study Area Coverage

# Valley Metro Bus Routes Scottsdale Rd/Rural (72) Country Club/Arizona Ave (112) Chandler Blvd/Williams Dobson (96) Field Rd (156) Hayden/McClintock (81) Chandler Express 1 (541) Ray Road (140) Chandler Express 2 (542) Alma School (104)

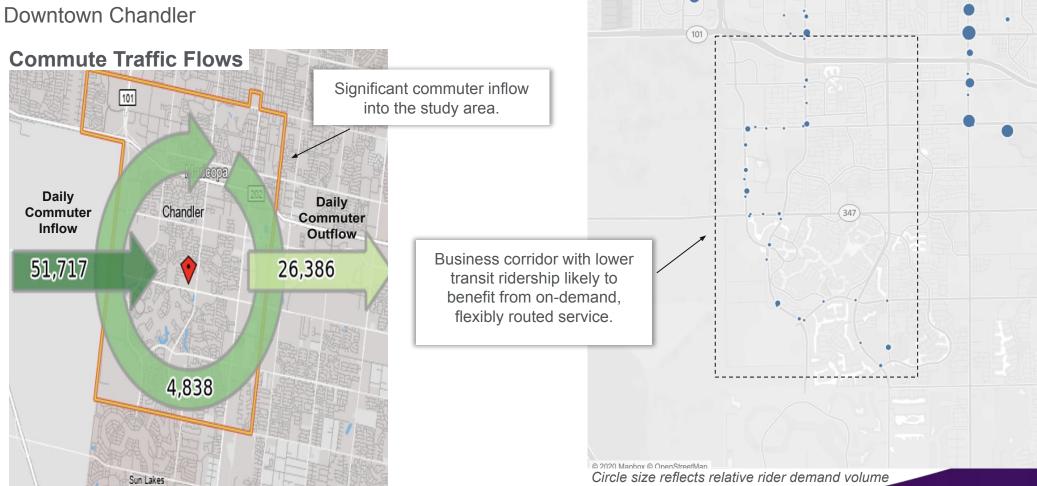
- Transit Center
- Park-and-Ride
  - Flexible Transit Study Area

#### Commuter & Transit Traffic

The proposed zone covers key employment

#### centers:

- Intel, Wells Fargo, and Paypal campuses
- **Chandler Fashion Center**



**Fashion Center -**

**Transit Ridership** 

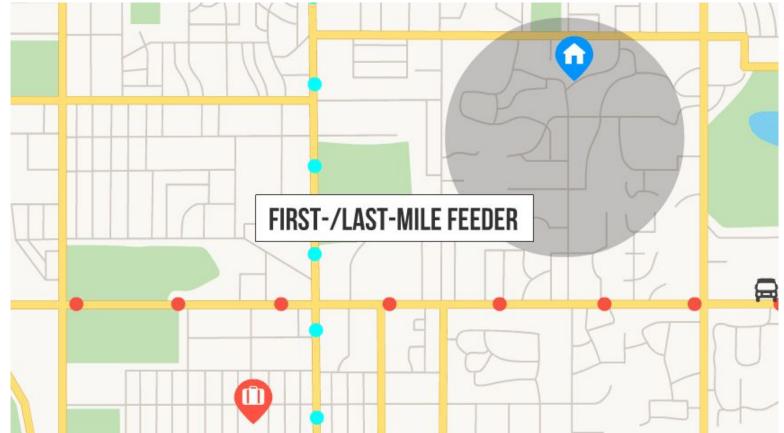


Downtown



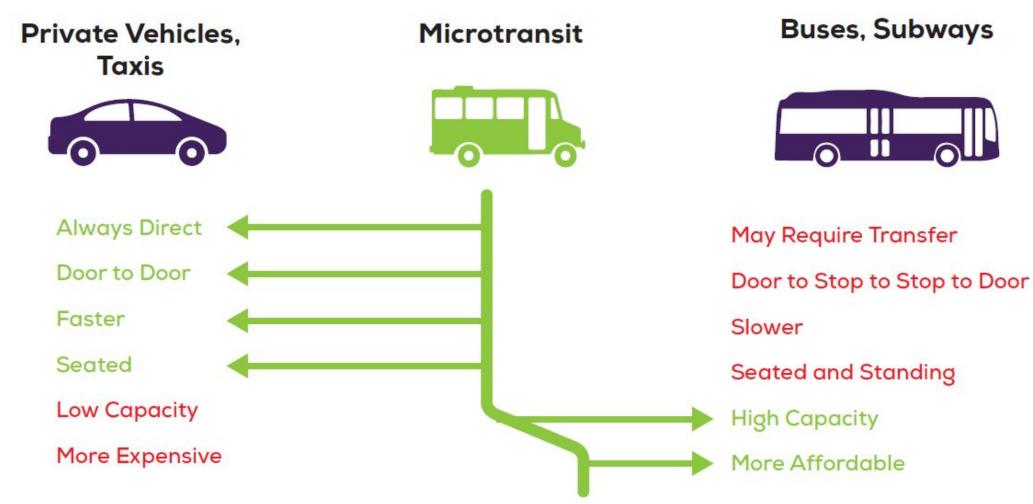
## What is Microtransit?







### What is Microtransit?



## Public Input – Service Feature Interest



Would you be interested in using a transit service if... (select all that apply)
40 Responses



## Public Input – Wait Time Preference



X

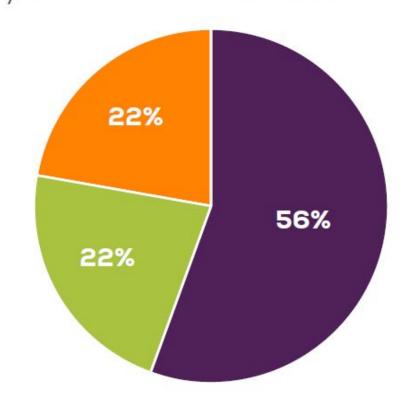
When using a ride hailing service, what is the highest wait time you would consider

acceptable?

18 Responses



- 15 to 20 minutes
- 20 to 30 minutes
- 30 to 40 minutes
- 40 to 50 minutes



## Public Input – COVID Travel Impact



Have you transitioned to teleworking due to COVID-19?

18 Responses



By the end of 2021, would you feel comfortable sharing a ride with one or two individuals in a 10-to-15 passenger vehicle?



### **Alternatives Analysis**

Chandler Blvd

Pecos Rd

202

Germann Rd

101

**PayPal** 

Northrop

差 Walgreens

Wells Fargo

Intel

Campus

Center



#### **Alternative Zone 3**

Chandler

High School

City Hall

Germann R

Queen Creek Rd

Ocotillo Rd

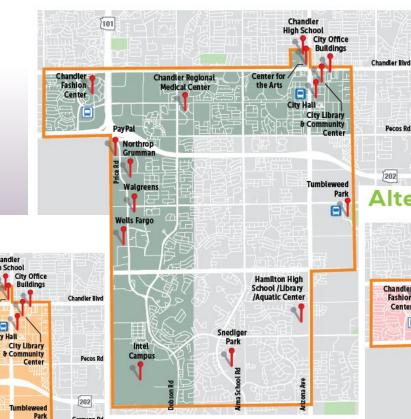
Center for

the Arts

School / Library /Aquatic Center

**Chandler Regional** 

**Medical Center** 





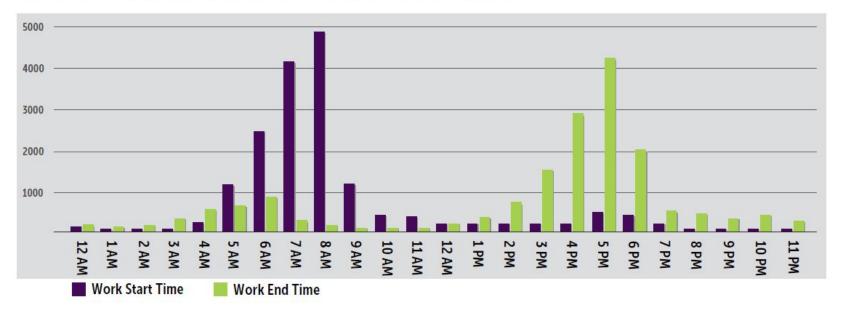
METRO

#### **Alternative Zone 4**

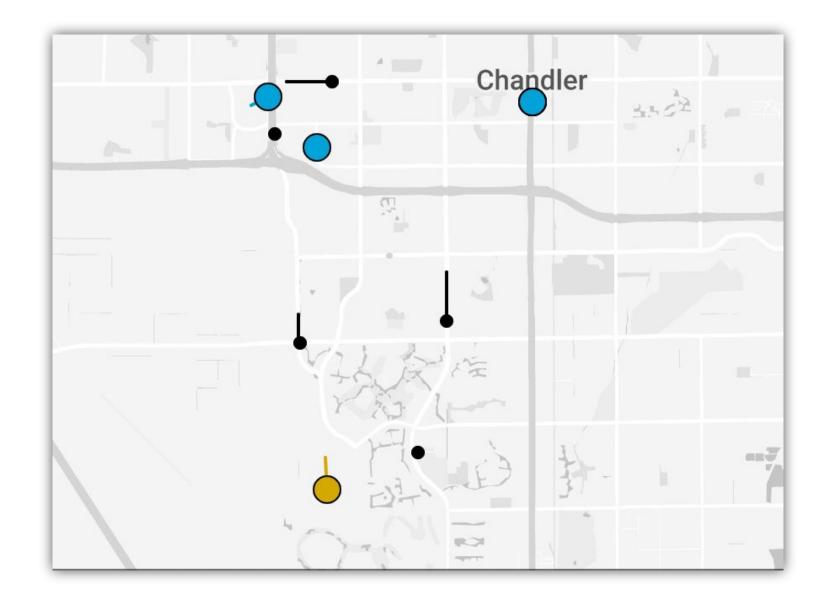
Pecos Rd



Figure 7. Study Area Employee Start & End Work Hour (2019)



Source: Trip Reduction Program 2019



11

Source: Via

	Proposal A  Low Demand	Proposal B  Medium Demand	Proposal C High Demand
Total Number of Vehicle Hours	~14,100	~17,600	~21,200
Days / Week of Operations	6	6	6
Avg. Service Hours / Day	14	14	14
Duration of Deployment (Months)	12	12	12
Non-WAV Vehicles in Fleet	3	4	4
Wheelchair Accessible Vehicles (Included in Price)	1	1	2
Total Vehicles in Fleet	4	5	6
Fixed Upfront Costs	\$16k	\$17k	\$29k
Ongoing Operational (Non-Upfront) Costs	\$0.77M	\$0.90M	\$1.04M
Total Cost (Excl. Expected Fare Revenue Collected)	\$0.85M	\$1.00M	\$1.17M
Expected Fare Revenue Collected	-\$66k	-\$83k	-\$99k
Total Cost (Net of Expected Fare Revenue Collected)	\$0.79M	\$0.92M	\$1.07M
Fully Loaded Cost / Vehicle Hour (Excl. Upfront Costs, Net of Expected Fare Revenue Collected)	\$54.60	\$51.15	\$49.26

Source: Via

Cost Estimate Summary Table				
	TaaS Cost	SaaS Cost		
Est. Annual Vehicle Hours	17,600	17,600		
Peak In-Service Vehicles	5	5		
Upfront Cost	\$17,000	\$450,000 - \$550,000*		
Gross Annual Cost	\$1,000,000	\$800,000 - \$850,000		
Gross Cost per Hour	\$56.81	\$45.45 - \$48.30		
*Includes fleet purchase of 4 passenger vans and 2 cutaway buses				

13

Source: Via



## Vehicle Types and Tradeoffs

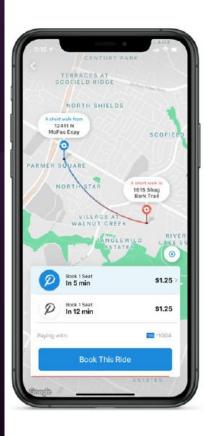


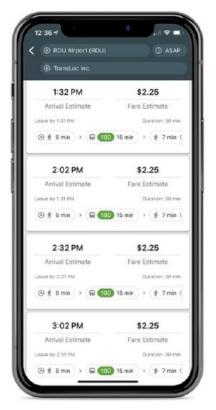


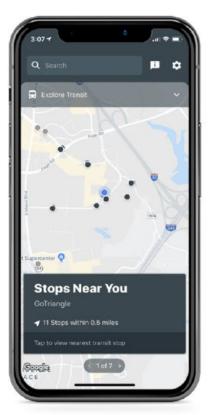


## Vehicle Design and Branding

# There's an app for that...









### Planning Tools and Performance Measures

RECOMMENDED PLANNING TOOLS				
Weekday Average Boardings	Peak & Average Load Factor			
Boardings By Time Of Day	Wait Time Reliability			
Service Connectivity	Transfer Frequency			
Recommended Performance Measure	Recommended Thresholds			
Wait Times	Average: 10 -15 Minutes  Max Acceptable: 20 minutes			
Riders Per Hour	Weekday: 20 Rides /hour Weekend: 15 Rides /hour			
Gross Cost Per Passenger	Weekday: \$10 - \$12 /boarding Weekend: \$15 - \$18 /boarding			

# Demand Long wait times, unable to meet demand Size of agency dedicated fleet Fleet underutilized during low peak times, driving high

costs for agencies



Tempe Public Library 

Mesa Community College

Costco
Dobson Ranch Golf Course

Walmart

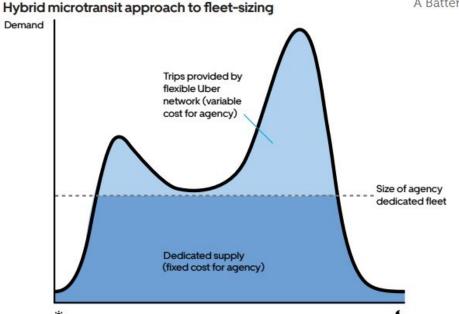
Chandler Sunset Library 

Chandler Fashion Center

Costco

Snedigar Recreation Center •

A Battery Electric Passenger Van Being Plugged in to Charge



## Advancing Efficiency With Technology

Study Options & Recommendations for Service

Service Aspect	Options Explored	Recommendation
Span	Day Type:  • Weekday vs. Weekend  Service Time:	Day Type:  • Weekdays and Saturdays  Service Time:
Span	Peak hour service All day service Late night service	<ul><li>15-hour span</li><li>5AM-8PM</li><li>Weekdays and Saturdays</li></ul>
• Passenger va • Mini van  Fleet Size: • 4-8 vehicles	<ul><li>Cutaway/Minibus</li><li>Passenger van</li></ul>	Vehicles:
	Fleet Size:	Fleet Size:
Service Zone	<ul> <li>Full study area</li> <li>L-shaped zones in eastern and northern portions of study area</li> <li>East of Alma School Road</li> </ul>	Full 18 square-mile coverage zone
Smartphone App Integration	Potential App Features:     Real-time tracking     Touchless fare payment     Transit information & trip planning     Personal use reports     Customer feedback	<ul> <li>Implement App with the functions noted</li> <li>Integrate with regional Valley Metro App</li> </ul>
Fee Structure	<ul> <li>Match local bus fare (\$2/trip)</li> <li>Small boarding fare (\$0.50-\$1)</li> <li>Free fare</li> <li>Transit transfer incentives</li> </ul>	Piloted/initiated with small fare Free for students

## Thank You!

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Follow the study online at <a href="https://www.vallevmetro.org/project/price-road-flexible-transit-study">https://www.vallevmetro.org/project/price-road-flexible-transit-study</a>

