

Tables

Table 1: Socioeconomic and Demographic Summary	13
Table 2: Microtransit Simulation Operational Parameter Assumptions	40
Table 3: Projected Microtransit Ridership by Opportunity Zone	42
Table 4: Microtransit Simulation Key Metrics by Opportunity Zone	44
Table 5: Picture Rocks Microtransit Simulation Results	45
Table 6: Vail Microtransit Simulation Results	46
Table 7: Estimated Mode Share of Sun Shuttle General Public Dial-a-Ride	48
Table 8: Projected Dial-a-Ride Ridership by Opportunity zone	48
Table 9: Dial-a-Ride Simulation Key Metrics by Opportunity Zone	49
Table 10: Picture Rocks Dial-a-Ride Simulation Results	50
Table 11: Vail Dial-a-Ride Simulation Results	51
Table 12: Key Performance Measures - Microtransit	62
Table 13: Key Performance Measures – Dial-a-ride	64
Table 14: Comparison of Minority Populations – Disparate Impact	68
Table 15: Comparison of Low-Income Populations – Disproportionate Burden	68
Table 16: Impact to Senior Populations	70
Table 17: Impact to Areas of Persistent Poverty	70
Table 18: Stakeholder Engagement Meetings	72
Table 19: Public Outreach Meetings	75
Table 20: Base Model Prices and Average Price for Minivans by Drivetrain Type (Model Year 2025)	81
Table 21: Number of Vehicles and Vehicle Cost by Drivetrain Type, 2025	82
Table 22: Estimated Microtransit Annual Operating Cost by Opportunity Zone	83
Table 23: Estimated Dial-a-Ride Annual Operating Cost by Opportunity Zone	83
Table 24: Estimated Average Microtransit and Dial-a-Ride VMT per Rider by Opportunity Zone	85
Table 25: Microtransit Future Scenario Annual VMT	86

Tables

Table 26: Dial-a-Ride Future Scenario Annual VMT	86
Table 27: Microtransit New Transit Trips Annual VMT	87
Table 28: Dial-a-Ride New Transit Trips Annual VMT	87
Table 29: Change in Microtransit Annual VMT by Opportunity Zone.....	88
Table 30: Change in Dial-a-Ride Annual VMT by Opportunity Zone.....	88
Table 31: Emissions Conversion Factors	90
Table 32: Annual Emissions Associated with Microtransit Service	90
Table 33: Annual Emissions Associated with Dial-A-Ride Service.....	91
Table 34: Annual Emissions Associated with Expanded Fixed-Route Bus Service in Vail.....	92
Table 35: Annual Emissions Associated with Microtransit Service (Picture Rocks and Vail) and Expanded Fixed-Route Bus Service in Vail	92
Table 36: Annual Emissions Associated with Dial-a-Ride Service (Picture Rocks and Vail) and Expanded Fixed-Route Bus Service in Vail	92
Table 37: Avoided Annual Emissions from Private Vehicle Trips Replaced with Trips via Microtransit and Expanded Fixed-Route Bus Service	93
Table 38: Avoided Annual Emissions from Private Vehicle Trips Replaced with Trips via Dial-a-Ride and Expanded Fixed-Route Bus Service	94
Table 39: Net Annual Emissions from Private Vehicle Trips Replaced by Microtransit and Expanded Bus Service	95
Table 40: Net Annual Emissions from Private Vehicle Trips Replaced by Dial-a-Ride and Expanded Bus Service	95
Table 41: Annual Social Cost of Tailpipe CO2 Emissions from Microtransit and Expanded Bus Service, 2025	96
Table 42: Microtransit Operational Costs	100
Table 43: Microtransit Capital Costs	100
Table 44: Dial-a-Ride Operational Costs	100
Table 45: Dial-a-Ride Capital Costs	100
Table 46: Implementation Roadmap	103
Table 47: Route 110X Northbound/Southbound Schedule	107

Figures

Figure 1: Picture Rocks and Vail in Context.....	10
Figure 2: Population Density by Census Tract in the Picture Rocks Area.....	14
Figure 3: Population Density By Census Tract in the Vail Area	14
Figure 4: Employment Density in Picture Rocks Area by Census Tract	15
Figure 5: Employment Density IN VAIL Area by Census Tract	15
Figure 6: Youth Population in Picture Rocks area by Census Tract	16
Figure 7: Youth Population in Vail area by Census Tract.....	16
Figure 8: Senior Population in Picture Rocks area by Census Tract.....	17
Figure 9: Senior Population In Vail Area By Census Tract.....	17
Figure 10: BIPOC Population in Picture Rocks area by Census Tract.....	18
Figure 11: BIPOC Population in Vail Area by Census Tract	18
Figure 12: Low Income Population in Picture Rocks area by Census Tract	19
Figure 13: Low Income Population in Vail area by Census Tract	19
Figure 14: Limited English Proficiency in Picture Rocks area by Census Tract.....	20
Figure 15: Limited English Proficiency in Vail by Census Tract	20
Figure 16: Zero-Vehicle Households in Picture Rocks area by Census Tract	21
Figure 17: Zero-Vehicle Households in Vail area by Census Tract	21
Figure 18: Transit Propensity in Pima County by Census Tract.....	22
Figure 19: Transit Propensity by Census Tract and Existing Fixed-Route Transit in Pima County.....	23
Figure 20: Transit Propensity By Census Tract In Vail.....	24
Figure 21: Transit Propensity Score By Census Tract in Picture Rocks	25
Figure 22: Replica Trip Activity by One-Square-Mile Hexbins in Tucson Urban area.....	27
Figure 23: Origin-Destination Trip Flows Between Tucson Area Neighborhoods.....	27
Figure 24: Replica Trip Activity by One-Square-Mile Hexbins in Picture Rocks area.....	28
Figure 25: Replica Trip Activity by One-Square-Mile Hexbins in Vail area.....	29

Figures

- Figure 26:** Origin-Destination Trip Flows in Picture Rocks..... 30
- Figure 27:** Origin-Destination Trip Flows in Vail..... 30
- Figure 28:** Location of Picture Rocks and Vail Opportunity Zones 36
- Figure 29:** Picture Rocks Microtransit Simulation 45
- Figure 30:** Vail Microtransit Simulation 46
- Figure 31:** Picture Rocks Dial-a-Ride Simulation..... 50
- Figure 32:** Vail Dial-a-Ride Simulation 51
- Figure 33:** Vail Open house76
- Figure 34:** Advertisement Materials 78
- Figure 35:** Advertising Materials..... 78
- Figure 36:** Implementation Roadmap Timeline 106
- Figure 37:** Route 110X Extension to Vail 108