



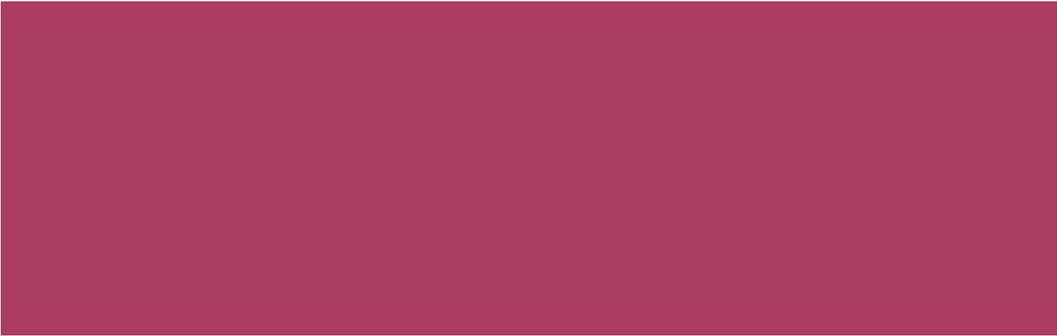
YOUR *Safety*



YOUR *Mobility*



YOUR *Economic Opportunity*



# IDAHO PUBLIC TRANSPORTATION PLAN

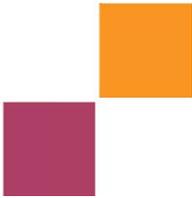
Appendix E

Transit Toolbox

Final April 2018



Idaho Public  
Transportation Plan



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# Idaho Public Transportation Plan

Your Safety | Your Mobility | Your Economic  
Opportunity

## Transit Toolbox

### Introduction

The Idaho Public Transportation Plan evaluates local public transportation services across a broad range of service types, service areas and rider markets. There is no “one-size-fits-all” approach to identifying strategies and solutions to help local communities meet their public transportation needs. Demands change and each community has a unique combination of resources to deliver and maintain public transportation services.

This appendix describes a “transit toolbox” of possible solutions for policymakers, stakeholders and transit managers to consider. The toolbox offers information that—along with estimates of future needs and agency assessments—can be used to engage stakeholders in meaningful conversations about the types of services best suited to their communities. Engaging state and local partners can help ensure that resources are strategically applied and build sustainable public transportation systems.

The toolbox includes both service design options, and program approaches. Some tools are grouped and described together for clarity. The tools can be combined in many implementation scenarios, and are not mutually exclusive.

The transit toolbox includes four main families of service: fixed-routes, demand-response, flexible routes, and intercity service. The programs and policies section describes non-traditional transit services, including:

- Vanpool
- Park-and-Ride, Kiss-and-Ride, and Park-and-Pool
- Private shuttles
- Taxi vouchers
- Shared mobility
- Dynamic rideshare
- Ride-sourcing / ride-hailing

The information included in the toolbox provides descriptions useful for broad planning and discussions about future needs. The information is based on industry best practices and generalized applications, and does not represent an exhaustive list.





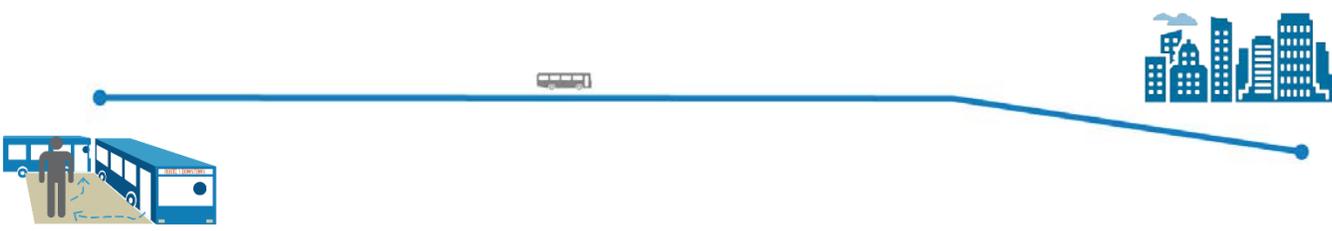
**Figure 2 Demand-Response Service**

<i>Demand –Response</i>			
			
<b>Description</b>	<p><b>Demand-response</b> public transportation, also known as Dial-A-Ride, provides curb-to-curb, door-to-door, or door-through-door trips within a specified service area. Demand-response service is applicable in all development types, whether urban or rural. In rural areas, demand-response is often the most efficient type of service given dispersed origins and destinations. The service may be open to the general public or just to older adults or people with disabilities. In more suburban or urban areas, demand-response may be provided as a supplement to fixed-route services. Demand-response service areas may cover entire counties or jurisdictions, or in some cases may be limited to particular areas of a community. Some communities use demand-response zones to transport customers to fixed-route transit, a model known as “feeder service.”</p> <p>Riders must book trips ahead of time. The service is typically provided with sedans, vans or cutaway buses (buses and vans allow for wheelchair lifts). Due to the high level of trip customization, demand-response fares are typically higher than fixed-route fares.</p> <p>Transit agencies, non-profits, or community organizations (e.g. senior centers) can all provide demand-response service.</p> <p><b>ADA complementary paratransit</b> is an origin to destination demand-response service required to operate when and where (within ¼ mile) fixed-routes are provided. Passengers must be certified as eligible riders and fares can be no more than twice the fixed-route fare.</p> <p><b>Volunteer driver programs</b> transport customers using the volunteer’s personal vehicle. These can be cost-effective ways to engage community members while providing vital travel connections to local services.</p>		
<b>Benefits</b>	<ul style="list-style-type: none"> <li>▪ Supports dispersed locations, large geographic areas, and client-specific trips</li> <li>▪ Can be tailored to serve older adults and people with disabilities</li> <li>▪ Flexible and innovative applications for any size community.</li> </ul>		
<b>Challenges</b>	<ul style="list-style-type: none"> <li>▪ High cost per passenger</li> <li>▪ Varied customer needs and/or long trip lengths can limit capacity and productivity</li> </ul>		
<b>Service applications</b>	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <ul style="list-style-type: none"> <li>▪ Unique (unshared) origins and destinations</li> <li>▪ Fixed route ADA Complementary Paratransit</li> <li>▪ Feeder route connecting riders to fixed-routes</li> <li>▪ Low-demand areas</li> </ul> </td> <td style="vertical-align: top; width: 50%;"> <ul style="list-style-type: none"> <li>▪ Passenger requires travel assistance</li> <li>▪ Human services client transportation</li> <li>▪ Volunteer driver programs</li> <li>▪ See also: deviated fixed-route, shopper shuttle, shared mobility</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>▪ Unique (unshared) origins and destinations</li> <li>▪ Fixed route ADA Complementary Paratransit</li> <li>▪ Feeder route connecting riders to fixed-routes</li> <li>▪ Low-demand areas</li> </ul>	<ul style="list-style-type: none"> <li>▪ Passenger requires travel assistance</li> <li>▪ Human services client transportation</li> <li>▪ Volunteer driver programs</li> <li>▪ See also: deviated fixed-route, shopper shuttle, shared mobility</li> </ul>
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**Figure 4 Intercity Transit**

Intercity Transit   Express Bus   Commuter Bus			
			
<b>Description</b>	<p><b>Intercity transit</b> routes provide direct service along major travel corridors with limited stops. These routes (or segments of routes) typically serve longer distances than local fixed-routes. Between destinations, intercity services typically operate on arterials or interstate roadways. Intercity transit fares are typically higher than other service types, and may require reservations where seating capacity nears rider demand. They may be operated using coach buses with wireless internet and other passenger amenities. Intercity services may provide some circulation through a community before heading to the next destination. In other cases, the bus leaves from one or two downtown central locations. Park and ride facilities provided at departure points may make intercity services more attractive to certain passengers.</p> <p><b>Express and commuter</b> fixed-routes are terms used for services catering to daily workers at centralized locations with travel needs at typical peak traffic times (e.g. 7 a.m. to 9 a.m.). These routes typically serve major employment centers, transit centers, and park &amp; ride facilities. These routes may operate only on weekdays or during morning and evening peak periods only. Express or commuter fares are higher than other fixed-routes. Some commuter shuttle fares are subsidized by major employers or institutions.</p>		
<b>Benefits</b>	<ul style="list-style-type: none"> <li>▪ Provide customers a predictable route service model</li> <li>▪ Efficient service minimizing travel time between points</li> <li>▪ Cost effective (cost per ride) when serving high ridership corridors.</li> <li>▪ Vehicle type may allow for on-board amenities such as wireless internet or padded seats</li> </ul>		
<b>Challenges</b>	<ul style="list-style-type: none"> <li>▪ Limited stops can leave riders with first/last mile travel gaps</li> <li>▪ Traveling long distances on major arterials may subject buses to traffic delays</li> <li>▪ Balancing needs of transit dependent and choice riders</li> </ul>		
<b>Service applications</b>	<ul style="list-style-type: none"> <li>▪ Frequent service between medium to high density activity centers</li> <li>▪ Peak period work trip services</li> <li>▪ Recreational or multipurpose intercity routes</li> <li>▪ Reliable, comfortable service providing connections between rural and urban communities</li> <li>▪ See also: Fixed route, deviated fixed-route, park and ride</li> </ul>		
<b>Average performance</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Cost per trip    \$\$</td> <td style="width: 50%;">Passengers per hour    8-10</td> </tr> </table>	Cost per trip    \$\$	Passengers per hour    8-10
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## Transit Policies and Programs

Figure 5 summarizes public transportation policies and programs that communities can use to address public transportation needs. The policies and programs can be used in place of or to augment public transit service strategies described in the Transit Toolbox. The policies and programs include a brief description and considerations about roles that government agencies may have in implementing the strategy.

**Figure 5 Public Transportation Policies and Programs**

Category	Program	Description	State role
Commuter services	Vanpool	Vanpool programs typically serve commuters in areas where fixed-route transportation is not viable or not fully meeting demand. A group of people who live near each other join together and travel via one van to their common destination. Vanpool members drive the van. Vans can be owned by the transit agency or state and leased out to qualifying non-profits, public agencies, or directly to riders. Vanpools are usually pre-scheduled based on the locations and time of travel. Some vanpool services can be funded by the Federal Transit Administration.	Program funding Program management Technical support Buy and manage vehicle fleet
	Park-and-Ride / Kiss-and-Ride/ Park-and-Pool	Park-and-rides offer access to transit or carpool service. People drive or ride private vehicles to the location and park or are dropped off. They then take transit, carpool, or vanpool to their destinations. These facilities benefit from regular maintenance, safety features, and customer amenities such as shelters, seating and lighting. Parking facilities may be separately located, or part of a shared parking agreement with local facility owners.	Facility construction Facility operation Location information
	Shuttle	Similar to publicly operated on-demand shuttles, shuttles provide a flexible end-to-end transit option that can be more cost efficient than providing fixed-route service for last-mile trips. Some shuttles may include extra passenger amenities to attract riders, particularly when operated in competition with other services. Some flexible shuttles have been accessed by smart-phone enabled dynamic routing.	Technical support
On-Demand	Taxi vouchers	Taxi services are generally available even in very rural communities, but the fare is a financial challenge to many riders. A taxicab voucher is a reimbursement process that effectively lowers the trip price for the individual rider. The service may be provided to the general public or to specific eligible markets, depending on the program goals. Funds for the subsidy can come from a variety of sources, including local taxes or social service agency program funds. This can be a cost effective way to provide curb-to-curb transportation. Some taxi agencies also have lift-equipped vehicles.	Funding programs Multi-agency coordination Enabling policy or regulation
	Flexible vouchers	Flexible vouchers (also called flex vouchers) can be issued or sold to eligible individuals and used to purchase trips from public or private transportation providers, taxicabs, or to reimburse friends/family members and volunteer drivers. Typically, sponsoring agencies subsidize the cost of the trips, so that riders are able to receive service at a reduced cost. Eligibility is based on age, disability, income criteria, or the need for a specific type of trip, such as employment transportation.  Flex voucher programs, particularly those that may be used with any type of service and recognize family members or friends as eligible providers of service, can fill temporal and geographic gaps in fixed-route and demand-response service by providing an affordable and	Funding programs Technical support

	convenient option. Such programs also expand the number of volunteer drivers that are available through other programs to provide rides for eligible individuals.	
Volunteer driver programs	Individuals may be reimbursed by a transportation provider, human service agency, or other entity for using their own vehicles to provide trips for older adults or people with disabilities. A transportation provider may utilize volunteers to drive its buses, vans, or cars. Volunteers may also be used by a transportation provider as call-takers, schedulers, or dispatchers. Volunteer drivers typically, but not always, receive reimbursement for mileage, making this a very cost-effective way of meeting needs when other alternatives are not available, for long-distance or out-of-area trips, or when riders need assistance.	Funding programs Technical support
Shared mobility	Shared mobility ranges from services that are publicly provided and available to the general public to services that are privately provided with exclusive access. As the shared mobility market expands, public agencies have begun reaching out to private companies like Lyft and Uber for partnerships that enhance mobility options. For example, the Dallas, Texas transit agency has integrated Uber into its trip planning app. In other cases, public agencies are beginning to explore subsidizing Lyft fares as a way to transport ambulatory clients (those who do not need a wheelchair lift).	Enabling policy or regulation
Dynamic rideshare	On-demand dynamic rideshare services provide a carpool-like arrangement that does not require pre-scheduling. The services offer a customer-focused, on-demand ride for passengers and sometimes drivers making the same or similar trips. Riders typically use smart phones to schedule and get customized pick-up/ drop-off points.	Enabling policy or regulation Technical support
Ride-sourcing / Ride-hailing	Ride-sourcing or ride-hailing services are on-demand, point-to-point transportation. Ride-source companies are similar to taxis and provide on-demand transportation services for compensation. These companies use an online-enabled application or platform (such as smart phone application). Passengers are connected to drivers who use their personal vehicles rather than vehicles in association with a taxi company.	Enabling policy or regulation Technical support

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