Denver Regional Council of Governments

Coordinated Transit Plan

Draft for TAC Review: January 25, 2016







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1. Introduction

Transit is a vital part of the DRCOG region's multimodal transportation system. In 2014, more than 105 million one-way trips were provided by public transit agencies. Transit provides mobility by connecting people to jobs, schools, shopping, medical care, and recreation. It also promotes independence and economic development. The region's transit system must also increasingly address major trends, such as a rapidly aging population, new technology, an evolving economy, and changing residential and workplace preferences. Transit services are available throughout the DRCOG region in rural, suburban, and urban areas.

Though the region is making unprecedented investments in transit service and facilities through FasTracks and other efforts, the envisioned (desired and needed) transit system far exceeds anticipated revenues through 2040. Thus, coordination is increasingly important to optimize existing funding, services, and facilities. Innovative funding alternatives, technology, and other new approaches are also important.

A. Plan Purpose & Federal Requirements

The DRCOG Coordinated Transit Plan is the:

- 1. Transit component of DRCOG's Metro Vision Regional Transportation Plan (MVRTP), and
- 2. Federally-required Coordinated Public Transit Human Services Transportation Plan (CPTHSTP) for the DRCOG region.

The Coordinated Transit Plan inventories existing transit services and identifies fiscally constrained and envisioned transit service and system needs for the DRCOG region. It looks at both general public transit and human service transportation. These services are not mutually exclusive. For example, while many older adults and individuals with disabilities will be served by transit modes specifically designed for their needs, many more will use general public transit. This plan integrates transit modes intended for specific populations and for the general public. The Federal Transit Administration (FTA) requires that projects selected under the FTA 5310 grant program (Enhanced Mobility for Seniors and Individuals with Disabilities) be included in a Coordinated Transit Plan like this one.

The purpose of this plan is to improve mobility for older adults, individuals with disabilities, low-income individuals, and others with mobility challenges. Existing service providers are identified, service gaps

are forecasted, and strategies are identified to address mobility needs. As the CPTHSTP, the Coordinated Transit Plan also addresses the following FTA requirements:

- An assessment of available services that identifies current transportation providers (public, private, and non-profit);
- An assessment of transportation needs for individuals with disabilities and older adults. (This
 assessment can be based on the experiences and perceptions of the planning partners, and/or
 on more sophisticated data collection efforts, and gaps in service.);
- Strategies, activities, and/or projects to address the identified gaps between current services and needs, as well as opportunities to achieve efficiencies in service delivery; and
- Priorities for implementation based on resources, time, and feasibility for implementing specific strategies and/or activities identified¹.

As noted previously, FTA requires projects funded in the FTA 5310 program be included in the Coordinated Transit Plan. However, "FTA maintains flexibility in how projects appear in the Coordinated Plan. Programs and projects may be identified as strategies, activities, and/or specific projects addressing an identified service gap or transportation coordination objective articulated and prioritized in this plan²." For example, a proposed 5310 project to expand transportation services for individuals with disabilities is consistent with the section of the Coordinated Transit Plan defining the needs for expanded services for that population.

B. Public and Stakeholder Outreach

Public and stakeholder participation was essential in preparing this plan. Older adults; individuals with disabilities; representatives of public, private, and nonprofit transportation and human service providers; and other members of the public actively participated in developing this plan.

Staff received valuable input from key partners, including the Denver Regional Mobility and Access Council (DRMAC), the Regional Transportation District (RTD), and the Colorado Department of Transportation (CDOT). A variety of techniques were used to provide information and solicit public comment, including public forums and meetings, surveys, and community planning sessions. Major outreach and engagement activities that helped develop the Coordinated Transit Plan include:

¹ FTA Circular C 9070.1G Enhanced Mobility of Seniors and Individuals with Disabilities Program Guidance and Application Instructions- June 6, 2014

² FTA Circular C 9070.1 G Enhanced Mobility of Seniors and Individuals with Disabilities Program Guidance and Application Instructions- July 7, 2014

DRCOG and DRMAC Forum

DRCOG and DRMAC jointly hosted a public forum in 2014 to solicit input for the Coordinated Plan. More than 30 people attended and more than 20 organizations directly involved in serving older adults, individuals with disabilities, and low-income individuals were represented.

2016-2019 DRCOG Area Plan on Aging – Public Input from Community Conversations

The DRCOG Area Agency on Aging (AAA) conducted 17 Community Conversations and talked with almost 500 people between February and May of 2015. In each Community Conversation, the role of the AAA was described, service categories were explained and examples given of services in each category. Participants identified services most needed to increase or sustain independence for older adults in their community.

CDOT Statewide Transit Plan and DRCOG Open House

DRCOG and CDOT jointly hosted an open house for CDOT's Statewide Transit Plan and DRCOG's Metro Vision Regional Transportation Plan in 2014.

CDOT Statewide Transit Survey of Older Adults and Adults with Disabilities

For its Statewide Transit Plan, CDOT conducted a statewide survey of older adults (65 years or older) and disabled (18 years or older) residents of Colorado regarding their travel behavior, transportation priorities, needs, and preferences. Of the 3,113 participants statewide, 626 were from the DRCOG region. Please refer to <u>CDOT's Statewide Transit Plan</u> for more information.

Local Coordinating Councils

A Local Coordinating Council (LCC) is a formal, multi-purpose, long-term alliance of community organizations, individuals, and interest groups that work together to achieve common goals regarding human service transportation. LCCs promote efficient, accessible, and easy to arrange transportation options in their communities.

There are LCCs representing each county in the DRCOG region. These organizations are in various stages of assessing and prioritizing needs. In 2013, DRMAC partnered with four LCCs in the DRCOG region and the University of Colorado-Denver to develop needs assessments and service gaps analyses. Studies were prepared for the LCCs in Adams, Arapahoe, Boulder, and Broomfield Counties. Douglas and Jefferson Counties completed needs assessments with help from consultants. All of the needs assessments and gaps analyses were reviewed as important input for this plan.

Community Assessment Survey for Older Adults (CASOA™)

DRCOG's AAA contracted with the National Research Center to conduct a CASOA[™]. The 2015 CASOA[™] is a statistically valid survey of the needs of older adults as reported by older adults themselves in communities throughout the DRCOG AAA's planning area. The Boulder and Weld County AAAs both conducted their own surveys.

County Council on Aging Surveys

DRCOG AAA staff conducted this survey at County Council on Aging meetings for each of the eight counties the DRCOG AAA serves. The survey provides important input for:

- Developing the AAA Four Year Plan (2015-2019);
- AAA 2015-2017 Older Americans Act/State awards for Senior Services, and
- This Coordinated Transit Plan.

The Boulder and Weld County AAAs also conducted similar surveys.

2013 RTD Paratransit Customer Satisfaction Survey

A random sample of about 6,800 certified paratransit customers (approximately 50 percent of the active user database) participated in the survey. The survey is important because RTD uses its results to:

- learn customers' overall perceptions;
- compare service types or service areas;
- monitor the success of improvement efforts, and
- prioritize projects.

United States of Aging Study of Denver Region

The United States of Aging Study was created by the National Council on Aging, the National Association of Area Agencies on Aging, and United Health Care in 2012 to study community preparedness for an aging population. Each year, different metropolitan areas across the country are chosen to be oversampled in a national survey. The 2015 survey conducted a more thorough sampling and analysis for the Denver region. DRCOG staff served on the Local Engagement Committee.

DRMAC Membership Meetings

DRMAC holds regular membership meetings which are open to the public. The members represent specialized transportation providers, riders, advocacy groups and funders.

DRCOG Board & Committee Meetings

All DRCOG meetings are open to the public. The meetings provide a forum for citizens to provide input on various topics including transportation topics covered in this plan.

RTD Board & Committee Meetings

RTD is governed by a 15-member publically elected Board of Directors. Directors are elected to a fouryear term and represent a specific district. Each RTD Board and committee meeting (several per month) includes time for public input.

RTD FasTracks Citizens Advisory Committee

RTD's Citizens Advisory Committee meets quarterly to advise RTD on FasTracks implementation. Committee members are appointed by the RTD Board of Directors to three-year terms. The meeting venue alternates around the region to make it easier for stakeholders to offer input.

RTD Local Government Meetings

RTD holds regular meetings with its local government planning partners including municipalities, counties other transit providers, community based organizations, and DRCOG.

C. Definitions and Acronyms

Several important terms and acronyms are used throughout the Coordinated Plan and are defined in Figures 1 and 2.

Figure 1: Definition of Terms

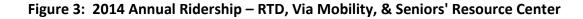
- demand response: any non-fixed route system of transporting individuals that requires advanced scheduling by the customer, including services provided by public entities, nonprofits, and private providers
- door-through-door services: personal, hands-on assistance for persons who have difficulties getting in and out of vehicles and buildings
- **fixed route:** a system of providing designated public transportation in which a vehicle is operated along a prescribed route according to a fixed schedule
- **general public transportation:** regular, continuing shared-ride surface transportation services that are open to the general public
- human service transportation: shared-ride surface transportation services (often demand response) that are open to segment(s) of the general public defined by age, disability, or low income
- Local Coordinating Council (LCC): an alliance of community organizations and individuals that work together to achieve common goals regarding human service transportation
- **paratransit:** complimentary transportation service required by the ADA for individuals with disabilities who are unable to use fixed route transportation systems
- public transportation: regular, continuing shared-ride surface transportation service (demand response or fixed route) that are open to the general public and/or segment(s) of the general public defined by age, disability, or low income
- Regional Coordinating Council (RCC): an alliance of community organizations and individuals that works together to identify and fulfill the public and human service transportation needs of their region focusing on travel across local jurisdictional boundaries
- transit: transportation by a conveyance that provides regular and continuing general or special transportation to the public
- transit dependent person: someone who must use public transportation for his/her travel

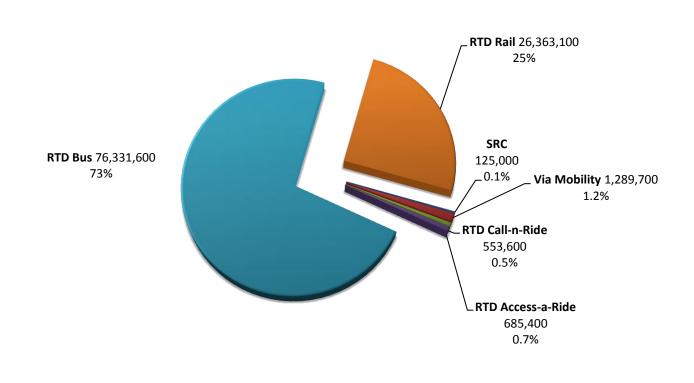
Figure 2: Acronyms

- AAA: Area Agency on Aging
- ADA: Americans with Disabilities Act
- BRT: Bus Rapid Transit
- CDOT: Colorado Department of Transportation
- CPTHSTP: Coordinated Public Transit-Human Services Transportation Plan
- DRMAC: Denver Regional Mobility and Access Council
- FTA: Federal Transit Administration
- FHWA: Federal Highway Administration
- JARC: Job Access- Reverse Commute
- LCC: Local Coordinating Council
- MAP-21: Moving Ahead for Progress in the 21st Century
- NEMT: Non Emergent Medical Transportation (for Medicaid clients)
- RCC: Regional Coordinating Council
- RTD: Regional Transportation District
- SRC: Seniors' Resource Center
- TCS: Transportation Coordination Systems
- TNC: Transportation Network Company
- US DOT: United States Department of Transportation

2. Assessment of Available Transit Services

This section profiles existing transit services and facilities in the DRCOG region and their ridership. The region's transit services include general public transportation, paratransit, and human service transportation. RTD is the major operator of general public transportation and paratransit. Conversely, human service transportation is provided by several non-profit, for-profit, and volunteer organizations. Figure 3 shows the total annual boardings for RTD and the region's two largest human service transportation providers (Via Mobility³ and Seniors' Resource Center⁴). In 2014, the three agencies provided more than 105 million one-way trips on all transit modes (fixed route, light rail, human service, and others), with RTD comprising more than 98 percent of the total.





³ Includes contracted RTD services

⁴ SRC 2014 data from FTA 5310 Application; Via Mobility 2014 data from Via *2014 Annual Report to the Community* (includes regular services and contract services – duplication with RTD subtracted from RTD totals); RTD 2014 Data from *Service Performance 2014 Networked Family of Services*

A. Bus Service

RTD Fixed Route

The largest operator of public transportation in the DRCOG region is the Regional Transportation District (RTD). RTD serves 2.8 million people within its 2,340 square mile district that includes all or parts of eight counties. RTD has almost 150 local, express and regional fixed bus routes serving approximately 10,000 bus stops and more than 70 Park-n-Rides with 30,000 parking spaces. There were almost 77 million boardings on RTD's fixed route bus system in 2014.

RTD Bus Rapid Transit

The term "Bus Rapid Transit" (BRT) is not easy to define. It refers to a variety of operational service, and technology characteristics that enable greatly improved bus service. RTD currently operates bus service in several corridors that include BRT features. Examples include the 16th Street MallRide in exclusive ROW, bus routes in designated lanes on Broadway and Lincoln with signal priority, and as of January 2016, Flatiron Flyer BRT service between Boulder and Denver in managed lanes along US 36 and I-25.

RTD Call-n-Ride

RTD's Call-n-Rides offer personalized bus service within defined areas. It is a hybrid of fixed route and demand response bus service that is open to the general public and generally operates in more suburban settings. Customers call to reserve a trip within each Call-n-Ride service boundary. RTD offers subscription service for the Call-n-Rides. Select Call-n-Ride service areas offer flex route service. The flex routes offer commuters a reservation-free ride during morning and evening rush-hours at scheduled stops and times along the route. There were over a half million Call-n-Ride boardings in 2014.

Other Fixed Route

Boulder Community Transit Network

The Boulder Community Transit Network is a network of bus routes throughout Boulder and connecting to surrounding cities and RTD's regional routes. The network has 10 bus routes: HOP, SKIP, JUMP, LONG JUMP, BOUND, STAMPEDE, DASH, BOLT, CLIMB, and H2C (Hop to Chautauqua, summer only). All routes are part of the RTD system and are operated by RTD except the HOP and CLIMB, which are operated by Via Mobility.

Englewood Art Shuttle

The City of Englewood provides a free circulator shuttle with 19 stops between the Englewood light rail station, downtown Englewood, and several hospital and medical buildings. Englewood contracts with RTD to operate the service, which operates every 15 minutes on weekdays between 6:30 am and pm.

University of Colorado at Boulder (Buff Bus)

The Buff Bus is a transportation service for students living in residence halls. The shuttle connects students with the Main Campus when classes are in session.

Black Hawk Tramway

Black Hawk Tramway connects major destinations in Black Hawk seven days a week. The free service is supported by the city's casinos.

Lone Tree Link

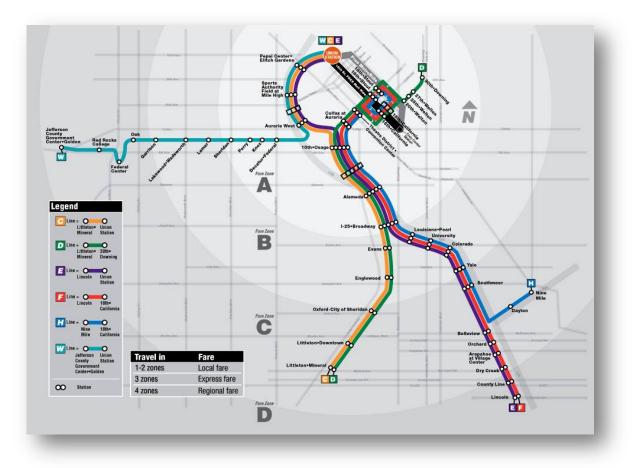
The Lone Tree Link (initiated in 2014) is a free shuttle service connecting major employment centers along Park Meadows Drive with restaurants, retail, and the RTD system. The Link is funded through a public private partnership of businesses, non-profits, and local government.

Intercity and Regional Bus

Other regional and intercity transit services include Amtrak service, Greyhound, CDOT's Bustang service, and other intercity bus service. Intercity and regional buses link the DRCOG region to the rest of the state and beyond.

B. RTD Rail

RTD currently operates six light rail routes using 173 vehicles, 48 miles of track and 46 stations. There were about 26 million boardings in 2014. Figure 4 shows RTD's existing (2015) light rail routes.





C. Intermodal Facilities

Denver Union Station (DUS)

At the heart of RTD's bus and rail network is Denver Union Station (DUS). DUS is a major intermodal passenger terminal connecting commuter rail, light rail, Amtrak, RTD buses, intercity buses, cars, taxis, trucks, bicyclists, and pedestrians.

Other Major Facilities

Several park-n-ride lots and transit stations exist for people to access transit via car, walking, or bicycling. Examples of major stations serving as key transfer points include:

- Civic Center Station
- Boulder Transit Center and Boulder Junction
- Peoria Station
- I-25/Broadway
- An additional 70+ Park-and-Ride lots spread across the region

D. Paratransit, Human Service Transportation, and Other Services

RTD Paratransit (Access-a-Ride)

Under the Americans with Disabilities Act (ADA), transit agencies must provide complementary transportation services for people with disabilities who are unable to use fixed route bus or rail services. ADA complementary paratransit service must be provided within ¾ of a mile of a bus route or rail station, at the same hours and days, for not greater than twice the regular fixed route fare. RTD's service is branded as Access-a-Ride. Under contract with RTD, Easter Seals evaluates potential clients to determine ADA eligibility. Access-a-Ride provided almost 700,000 boardings in 2014.

Other Human Service Transportation

Several agencies provide human service transportation throughout the region. Many offer services that go beyond the requirements of ADA: door-through-door services and in areas not covered by paratransit. Human service transportation includes specialized services for older adults and individuals with disabilities. It can also include services for persons with low-income offered in areas where there is limited or no fixed route services. Major providers of human service transportation in the region include Via Mobility, Seniors' Resource Center (SRC), and Douglas County (contracts with multiple providers).

Via Mobility is a private, non-profit agency that offers a variety of transportation services. Their portfolio includes demand responsive and fixed route. Via Mobility's transportation services operate in 19 communities in five counties, including Boulder and Boulder County, Brighton, rural Adams and Arapahoe Counties (Watkins, Strasburg, Bennett, Byers, and Deer Trail), and other communities. Via also conducts travel training: a comprehensive, intensive instruction designed to teach participants how to travel safely and independently on public transportation.

SRC is also a private, non-profit agency that provides human service transportation among other services. SRC directly transports and/or brokers transportation in multiple counties: Adams, Arapahoe, Broomfield, Denver, Douglas, Jefferson, Clear Creek, Gilpin, and Park. SRC also operates A-Lift

transportation via contract with Adams County for county residents who are 60+ or are mobility challenged, regardless of age.

Douglas County contracts with a wide range of providers in a brokerage model for transportation for older adults, individuals with disabilities, and low-income individuals. Contracted providers include:

- Castle Rock and Parker Senior centers;
- Love, INC of Littleton, and Neighbor Network volunteer driver programs;
- SRC; and
- To the Rescue.

Each entity (Via, SRC, and Douglas County) integrates FTA 5310 funding, federal Older Americans Act funding, other federal funds, local funds, and other sources to pay for services.

A recent DRMAC study (Transportation Coordination Systems or TCS) notes the "region appears to be divided into three or four natural sub-regions: Boulder County, Denver metro and environs (Jefferson County, Broomfield, Adams, Denver, and Arapahoe counties), and Douglas County." Each sub-region has a primary human service transportation agency that directly provides and often brokers trips with other smaller providers.

Other agencies that currently receive federal funding to provide human service transportation include but are not limited to:

- City and County of Broomfield (Broomfield Easy Ride)
- Lakewood Rides
- Developmental Pathways
- Developmental Disabilities Center (Imagine!)
- Easter Seals Colorado
- Boulder County

In addition, the following agencies provide human service transportation and are members of DRMAC:

- Amazing Wheels
- Boulder County CareConnect
- Colorado Cab Company
- First Transit
- Littleton Omnibus and Shopping Cart

- Metro Taxi and South Suburban Taxi
- Town of Castle Rock
- Veterans Helping Veterans Now (receives FTA funding through Via Mobility)

It is important to note the list of providers currently receiving or potentially eligible to receive federal funding to provide human service transportation is always changing. This is because federal eligibility requirements change and because providers evolve over time (existing ones change, new ones are created). The Colorado Association of Transit Agencies (CASTA) maintains a database of transit agencies in the Denver region and across the state. DRMAC maintains a web-based interactive tool to help connect clients with service providers, called Transit Options. DRMAC also annually publishes the *Getting there Guide* which lists transportation providers and resources.

Volunteer Drivers

A significant portion of trips for the transit-dependent population are provided by volunteer drivers. Volunteer drivers include friends, neighbors, and relatives providing transportation in informal arrangements (such as taking a home-bound neighbor to a doctor appointment). It also includes formalized volunteer driver programs. SRC, Douglas County, and others also coordinate volunteer driver programs with their other services. They often reimburse volunteer driver mileage with grant funding through programs like FTA 5310.

E. Other Transit Services

Gilpin Connect

Gilpin Connect is a demand response service for people to access health care and other destinations outside of Gilpin County. This service is funded by gaming revenues.

Taxi Cabs

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Taxi services play an important role in the provision of transit in the DRCOG region. This includes RTD's Access-a-Cab program and job access taxi voucher programs. Access-a-Cab is offered to current eligible Access-a-Ride customers as an alternative. Access-a-Cab does not meet the requirements for complementary paratransit service under the ADA and is not meant to replace the Access-a-Ride program. However, Access-a-Cab provides a more flexible schedule and is often less costly to RTD and the user. Douglas County and the Town of Castle Rock offer employment access trips using a taxi voucher program. This enables people who live and/or work where RTD service is limited or unavailable one way to get to and from work.

Transportation Network Companies

Transportation Network Companies (TNCs) like Uber and Lyft supply prearranged transportation services for a fee using an online-enabled application or platform (such as smart phone apps) to connect drivers using their personal vehicles with passengers. The State Public Utilities Commission (PUC) regulates these services.

Other Private Operators

Several private operators offer transportation for recreational travelers to the mountains. Many ski resorts have shuttle services for their employees. Additionally, many private operators provide rides to ski areas. Multiple providers offer bus service from the metro area to the casinos in Black Hawk and Central City; scheduled trips are made daily to the gaming communities. Super Shuttle and other airport shuttles provide service to and from Denver International Airport (DIA). Colorado Mountain Express (CME) offers shuttle service from DIA to mountain resorts.

3. Funding and Coordination

Funding for transit is complex. The US Department of Health and Human Services has conducted two inventories to ascertain how many federal programs provide funding that can be used for public transportation. The most recent inventory found 70 programs across 14 federal departments or independent agencies. This section provides an overview of local, state, and federal transit funding sources and how they are used in the DRCOG region.

Table 1 shows the major federal and state transit funding programs, and the "typical" annual allocation from each program for the DRCOG region. Each funding program is described in more detail later in this chapter. The region directly receives about \$73 million annually through federal allocations. Transit agencies and providers in the region are eligible to compete for a portion of another \$27 million annually in federal and state funds that are competitively awarded statewide. The largest single federal funding source is the FTA 5307 program, which funds capital and operating assistance in urbanized areas; RTD directly receives FTA 5307 funds as an annual formula allocation.

Transit funds can be categorized in three broad terms:

- How the funds are distributed: Federal and state transit funding is provided either directly through a specific <u>allocation</u>, such as through formula funding programs (FTA 5307, 5310, etc.), or is awarded <u>competitively</u> through a merit-based program (such as CDOT's FASTER transit program). In a complicated twist, formula funding programs can also be competitive. For example, the DRCOG region has a history of awarding FTA 5310 funds competitively. Conversely, competitive funds can be awarded by formula RTD directly receives \$3 million annually from CDOT's FASTER transit program and is eligible to compete for additional FASTER transit funds.
- Where/how the funds can be spent: All transit funds have some restrictions on eligible activities, and many come with geographic restrictions. For example, the DRCOG region's FTA 5310 large urban funds can be spent only on specific eligible activities in the Denver-Aurora urbanized area.
- Who controls the allocation of funds to specific projects/services: RTD directly receives FTA 5307 funds from FTA. It also controls FTA 5307 funds for the small urban areas in the DRCOG region. In contrast, FTA 5310 large urban funds for the Denver region are currently allocated by CDOT, but must be spent within the Denver-Aurora Urbanized Area. And while RTD receives FTA 5307 funds directly, CDOT competitively awards FTA 5311 rural funds statewide.

FTA Formula Funding for DRCOG Region		
Drogram	Estimated Annual	
Program	Allocation	
FTA 5307 for Denver-Aurora Urbanized Area	\$48 million	
FTA 5307 for Boulder Urbanized Area	\$3.4 million	
FTA 5307 for Lafayette-Louisville-Erie Urbanized Area	\$1.1 million	
FTA 5307 for Longmont Urbanized Area	\$2.3 million	
FTA 5310 for Denver-Aurora Urbanized Area	\$1.6 million	
FTA 5337 High Intensity Fixed Guideway State of Good Repair	\$8 million	
for Denver-Aurora Urbanized Area		
FTA 5337 High Intensity Motorbus State of Good Repair for	\$800,000	
Denver-Aurora Urbanized Area		
FTA 5339 for Denver- Aurora Urbanized Area	\$4.5 million	
Total	\$69.7 million	

Table 1: Estimated DRCOG Region Annual Transit Funding Amounts

FTA Formula Funding Controlled by CDOT (projects in DRCOG region may be eligible to compete)		
Drogram	Estimated Annual	
Program	Allocation	
FTA 5310 for Urbanized Areas under 50,000 population	\$550,000	
FTA 5310 for Urbanized Areas 50,000 to 199,999 population	\$970,000	
FTA 5311 for the entire state	\$11 million	
FTA 5339 for Urbanized Areas under 50,000 population	\$1.3 million	
FTA 5339 for Urbanized Areas 50,000 to 199,999 population	\$1.2 million	
Total	\$15 million	

Statewide FASTER Transit Funding	
Drogram	Estimated Annual
Program	Allocation
FASTER Statewide and Regional Pool⁵	\$10 million
FASTER Local Pool	\$5 million
Total	\$15 million

⁵ RTD and Bustang each receive a \$3 million set aside from this pool annually.

A. Human Service Transportation

Human service transportation includes a broad range of service options designed to meet the needs of the transportation disadvantaged, including persons with disabilities, low income individuals, and older adults. These individuals have different needs and require a variety of transportation services to ensure quality of life. Typically, these services are separate from those available to the general public and are often available only to qualified persons based age, disability, and/or income. Key funding sources are described below.

Local Entities

Municipalities, counties, non-profits, and other local entities typically contribute towards the cost of providing human service transportation. Many state and federal grants require a local match. Local project sponsors can provide matching funds or may choose to contribute resources above and beyond grant requirements. Some local services are provided solely with local funds, forgoing state and federal grants. Fares and donations also make up an important part of local funding.

FTA Section 5310 (Enhanced Mobility for Seniors and Individuals with Disabilities)

The FTA 5310 program funds transportation for older adults and individuals with disabilities. In the DRCOG region, project funding decisions are currently made by CDOT through a competitive funding process in consultation with DRCOG and other stakeholders. FTA has the following specific project-type criteria for allocating 5310 funds:

- At least 55 percent of program funds must be used on capital or "traditional" 5310 projects. Examples include:
 - Buses and vans; wheelchair lifts, ramps, and securement devices; transit-related information technology systems including scheduling/routing/one-call systems; and mobility management programs.
 - Acquisition of transportation services under a contract, lease, or other arrangement. Both capital and operating costs associated with contracted service are eligible capital expenses. User-side subsidies are considered one form of eligible arrangement.
- The remaining 45% is for projects formerly allowed under the 5317 New Freedom program. Capital and operating expenses for new public transportation services and alternatives beyond those required by the ADA, designed to assist individuals with disabilities and older adults are eligible under this category. Examples include:
 - Travel training; volunteer driver programs; building an accessible path to a bus stop including curb-cuts, sidewalks, accessible pedestrian signals or other accessible features; improving signage, or way-finding technology; incremental cost of providing same day service or door-todoor service; purchasing vehicles to support new accessible taxi, rides sharing and/or vanpooling programs.
- Mobility Management is an allowable expense in both categories.

Area Agencies on Aging (Older Americans Act Funding)

Area Agencies on Aging (AAA) were established under the Older Americans Act (OAA) of 1965 to respond to the needs of Americans 60 plus years of age. The DRCOG AAA covers the DRCOG region except for Boulder and southwest Weld Counties, who each have county-run AAAs. The Boulder County AAA is a division of the Boulder County Community Services Department. The Weld County AAA is the County's Department of Human Services.

All three AAAs administer Title III Federal OAA and Older Coloradans Act State funding. A significant portion is available for transportation for adults over the age of 60. The DRCOG AAA contracts with counties and transportation agencies in the DRCOG region for transportation. The Boulder and Weld County AAAs manage OAA transportation funding in their counties.

Medicaid - Non-Emergent (Emergency) Medical Transportation (NEMT)

NEMT is transportation for Medicaid clients with no other means of transportation to and from Medicaid medical appointments. In addition to directly paying for transportation, reimbursement also may be given for gas, bus tokens, and bus passes.

In the DRCOG region, the Colorado Department of Health Care Policy and Financing (HCPF) contracts with a private company to broker this service. This contract covers Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, Jefferson, Larimer, and Weld counties.

Coordination of Funding Sources for Human Services Transportation

Figure 5 paints a broad – but simplified – picture of funding sources for transit in the DRCOG region. It shows key federal funding sources, where they come from, and how they are distributed from the federal to the local level. However, it is not an exhaustive list. For example, many local sources of funding are not included, such as RTD's sales and use tax revenue.

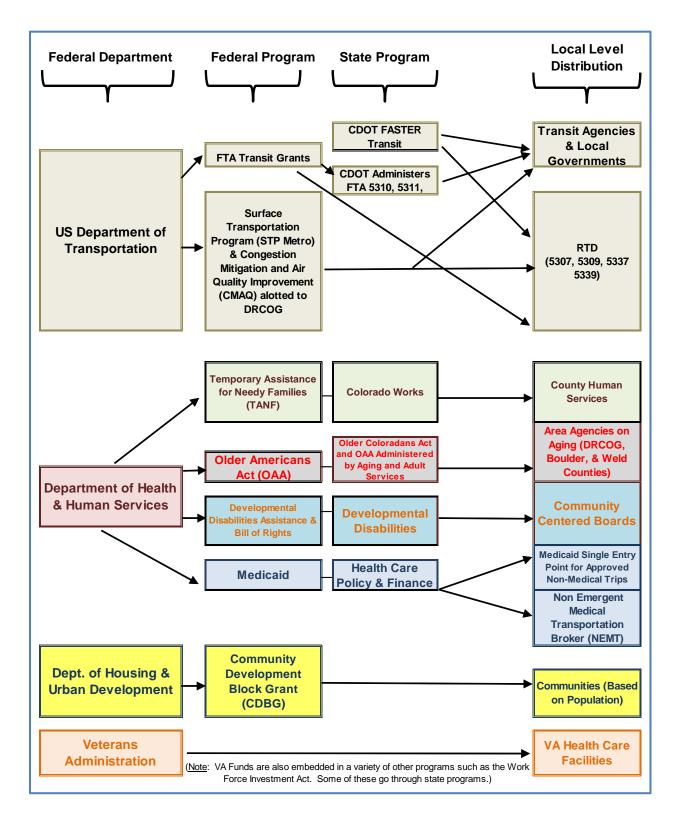


Figure 5: Schematic of Federal Funding Sources, Distributers, & Recipients

It is important to emphasize the FTA allows non-US DOT federal funds to be used toward the required local match for FTA grants in many circumstances. Of significance to the DRCOG region is the ability to use Older Americans Act funds as local match for FTA funds. In the October 16, 2012 Federal Register in the 5310 Section under the subheading of "Local Match" it states the following:

"Funds provided under other Federal programs (other than those of the Department of Transportation, with the exception of the Federal Lands Transportation Program and Tribal Transportation Program established by sections 202 and 203 of title 23 U.S.C.) may be used for local match for funds provided under section 5310, and revenue from service contracts may be used as local match."

Figure 6 is federal policy guidance on co-mingling of federal and local transportation funds. Co-mingling of eligible funds is encouraged by the federal government, and is a key strategy identified in Section VI to improve human service transportation.

Figure 6: Policy Statement Summary on Resource Sharing from the Federal Interagency Coordinating Council on Access & Mobility

Background:

Often Federal grantees at the State and local levels restrict transportation services funded by a Federal program to clients or beneficiaries of that Federal program. Some grantees do not permit vehicles and rides to be shared with other federally-assisted program clients or other members of the riding public. Federal grantees may attribute such restrictions to Federal requirements. This view is a misconception of Federal intent.

Purpose:

This policy guidance clarifies that Federal cost principles do not restrict grantees to serving only their own clients. To the contrary, applicable cost principles enable grantees to share the use of their own vehicles if the cost of providing transportation to the community is also shared. This maximizes the use of all available transportation vehicles and facilitates access for persons with disabilities, persons with low income, children, and senior citizens to community and medical services, employment and training opportunities, and other necessary services.

Applicable Programs:

This policy guidance applies to Federal programs that allow funds to be used for transportation services. This guidance pertains to Federal program grantees that either directly operate transportation services or procure transportation services for or on behalf of their clientele.

Federal Cost Principles Permit Sharing Transportation Service:

A basic rule of appropriations law is that program funds must only be used for the purposes intended. Therefore, if an allowable use of a program's funds includes the provision of transportation services, then that Federal program may share transportation costs with other Federal programs and/or community organizations that also allow funds to be used for transportation services, as long as the programs follow appropriate cost allocation principles.

None of the standard financial principles expressed in any of the OMB circulars or associated Federal agency implementing regulations preclude vehicle resource sharing, unless the Federal program's own statutory or regulatory provisions restrict or prohibit using program funds for transportation services. For example, one common financial rule states the following. "The grantee or sub grantee shall also make equipment available for use on other projects or programs currently or previously supported by the Federal Government, providing that such use will not interfere with the work on the project or program for which it was originally acquired. First preference for other use shall be given to other programs or projects supported by the awarding agency. User fees should be considered if appropriate."

In summary, allowability of costs is determined in accordance with applicable Federal program statutory and regulatory provisions and the cost principles in the OMB Circular that applies to the entity incurring the costs. Federal cost principles allow programs to share costs with other programs and organizations. Program costs must be reasonable, necessary, and allocable. Thus, vehicles and transportation resources may be shared among multiple programs, as long as each program pays its allocated (fair) share of costs in accordance with relative benefits received.

Source: Federal Interagency Coordinating Council on Access and Mobility Final Policy Statement. October 1, 2006

B. General Public Transportation

General public transportation is not restrictive to the type of user. It can be fixed route or demand responsive. The ADA does require that public transportation be accessible for individuals with disabilities.

RTD

Sales and Use Tax

A one penny sales tax within the RTD District helps pay for RTD services: \$0.04 funds FasTracks and \$0.06 funds RTD's base system (all services excluding FasTracks). This revenue accounts for almost 60 percent of RTD's base system operating budget.

Fares

Passenger farebox revenues (known as farebox recovery) account for about 25 percent of RTD's base system operating budget revenue. Farebox recovery is the second-largest source of revenue after the sales and use tax.

Local Governments

Douglas County, the Town of Parker, and RTD formed a partnership to save RTD's Call-n-Ride service in Parker from elimination. The agreement includes financial and in-kind contributions from Douglas County and the Town of Parker in order to fund the service, and an agreement to collaborate to improve and promote the service to grow ridership.

The Longmont Free Fare Pilot Program provides free rides on local Longmont bus service. This program is managed and paid for by Boulder County and the City of Longmont, through grants and the voter-approved Transit and Trails sales tax. The program is designed to benefit income-limited residents and increase ridership on the local Longmont transit routes. Some communities, such as Boulder, also fund "buy ups" of RTD service to provide more service (such as better headways) than what RTD can afford on a particular route.

State

FASTER Transit

The Funding Advancements for Surface Transportation and Economic Recovery Act of 2009 (FASTER) provides \$15 million annually to transit projects. Of this total, \$5 million is competitively awarded to "local" projects and \$10 million to state and regional projects. RTD and Bustang each receive a \$3 million set-aside from the state-wide and regional pool. FASTER is for capital projects only, with the exception of the set-aside for Bustang and a small allocation for interregional operating assistance.

Federal

FTA Section 5307 (Urbanized Area Formula Program)

Funds are for urbanized areas with more than 50,000 people. The funding formula takes population and population density into account. This program is generally used for transit capital expenditures, but under certain circumstances, funds may also be used for operating assistance and transportation planning. Additionally, up to 10 percent of formula funds can be used for ADA service. Projects previously eligible under the Section 5316 Job Access Reverse Commute (JARC) program are now eligible under Section 5307. RTD is the Designated Recipient for the Denver-Aurora Urbanized Area. RTD also receives funding for the small urbanized areas within the RTD District: Boulder, Louisville-Lafayette, and Longmont. In total, RTD is typically allocated about \$50 million annually, which it typically uses for vehicle maintenance and procurements.

Pockets of the DRCOG region, mostly in southern Douglas County, were added to the Denver-Aurora Urbanized area based on the 2010 Census, but are outside RTD boundaries. Those communities are eligible to receive this funding through RTD, or become an additional designated recipient.

Section 5309 (Transit Capital Investment Program)

Fixed Guideway Capital Investment Grants (New Starts, Small Starts, and Core Capacity)

This program funds new and expanded rail, bus rapid transit, and ferry systems that reflect local priorities to improve transportation options in key corridors. Eligible projects include:

- New fixed-guideways or extensions to fixed guideways (projects that operate on a separate right-of-way exclusively for public transportation, or that include a rail or a catenary system);
- Bus rapid transit projects operating in mixed traffic that represent a substantial investment in the corridor, and

• Projects that improve capacity on an existing fixed-guideway system.

The New Starts and Small Starts programs fund new and expanded rail and BRT systems. Projects with total net capital cost of less than \$300 million are eligible to apply for up to \$100 million from Small Starts. Core Capacity, a new category of projects, funds projects that expand capacity by at least 10 percent in existing fixed-guideway transit corridors that are already at or above capacity today, or are expected to be at or above capacity within five years. Grant awards are competitive, not formula based.

The Eagle P3 Project (East Rail Line, Gold Line, and Northwest Rail Phase I), the West Rail Line, and the Southeast Extension have received or are receiving grants from this program, as follows:

- Approximately \$1 billion for the Eagle P3 Project
- Approximately \$300 million for the West Rail Line
- Approximately \$92 million for the Southeast Rail Extension

Section 5311 (Formula Grants for Rural Areas)

This program provides capital, operating, and administrative assistance for general public transit in areas with fewer than 50,000 people. Transit services in rural portions of the DRCOG region are eligible; applicants must apply through CDOT. Both SRC and Via Mobility have received funding for service in rural parts of the DRCOG region, such as rural Jefferson and Boulder Counties. As with the FTA 5307 program, projects previously eligible under the FTA 5316 JARC program are now eligible under FTA 5311. CDOT coordinates with DRCOG in selecting projects in the DRCOG region.

Section 5337 (State of Good Repair)

The formula-based State of Good Repair program is FTA's first stand-alone initiative dedicated to repairing and upgrading the nation's rail transit systems and other rapid transit such as BRT. Transit systems in urbanized areas with fixed guideway public transportation facilities operating for at least seven years are eligible. RTD plans to use this funding to upgrade existing rail corridors and the 16th Street Mall.

Section 5339 (Bus and Bus Facilities Program)

This program allocates capital funding to replace, rehabilitate, and purchase buses and related equipment and to construct bus-related facilities. RTD receives most of the funds in the DRCOG region and uses them for vehicle purchases and improvements to transit stations. Under MAP-21, the FTA 5339 program replaced the portion of the FTA 5309 program that used "earmarks" for distributing bus and bus facility capital funds. Colorado previously submitted one unified 5309 application, and earmarks typically totaled about \$8-13 million annually. This program now distributes funds to states on a formula basis. Colorado receives about \$1.75 million for small urban and rural areas. The three large urbanized areas (Denver-Aurora, Colorado Springs, Fort Collins-Loveland) each receive their own formula funding. RTD receives about \$3 million annually for the Denver-Aurora urbanized area.

Public Private Partnerships

RTD pioneered efforts to generate revenue for FasTracks through public private partnerships. The Eagle P3 project is a nationally-renowned example of a public private partnership. RTD contracts with a "concessionaire" selected through a competitive process to design, build, finance, operate, and maintain the Eagle project, with RTD making an annual payment to the concessionaire. This allows RTD to spread out large upfront costs over approximately 30 years. The Eagle project is comprised of RTD's East Rail Line, Gold Line, Commuter Rail Maintenance Facility and Northwest Rail Line Westminster segment. Other FasTracks projects that use public private partnerships are North Metro, Southeast Extension, and US 36.

At the local level, the Lone Tree Link, mentioned in Section II, is funded through a public private partnership of businesses, non-profits, and local government.

4. Demographics and Forecasted Growth

DRCOG staff forecasted the growth for major populations groups that may be more likely than the general public to need and use transit services in the future. The population groups identified are: individuals with disabilities, older adults, youth, zero car households, low income, minority, and limited English proficiency. Each group is analyzed separately with acknowledgement of overlap between groups (such as a disabled older adult without access to a car).

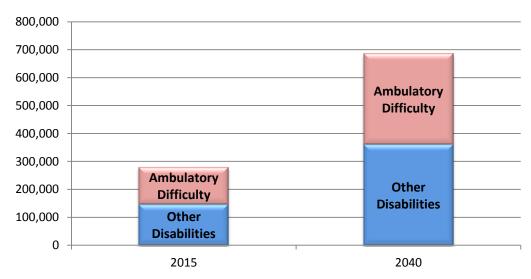
A. Individuals with Disabilities

Individuals with disabilities often lack transportation options. Many rely on public transit, human service transportation, or other means to fulfill activities of daily living. The ADA requires public transportation to be accessible and complementary paratransit to be available for individuals with disabilities when barriers prevent them from riding fixed route.

The current (2015) population for individuals with disabilities in the Denver region is about 280,000, or roughly 9 percent of the region's total population. Of those with disabilities, more than 130,000 have an ambulatory difficulty. About one-third of all people in the Denver region older than 65 have a disability. This percentage is more than double the percentage of those under 65 with a disability. If the proportion of persons with a disability in each age group remains the same, by 2040 the region could have over 685,000 persons with a disability. Over 325,000 of those could have an ambulatory disability if the proportion remains the same. These data are shown in Figure 7.

Figure 7: Individuals with Disabilities in the DRCOG Region

Sources: 2015 – Colorado Demography Office; 2040 – DRCOG Forecast with proportional increase by age group



In 2008, the US Census Bureau introduced new questions related to disabilities. These new questions enable the Census to classify the following disability types:

- Hearing difficulty
- Vision difficulty
- Cognitive difficulty
- Ambulatory difficulty
- Self-care difficulty

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• Independent living difficulty

Table 2 shows the estimated population in the DRCOG region by disability type.

Disability Type	Total
With a hearing difficulty	92,134
With a vision difficulty	52,471
With a cognitive difficulty	65,446
With an ambulatory difficulty	133,111
With an independent living difficulty	91,675
With a self-care difficulty	50,724
Total persons with a disability	
(not equal the sum of all disability types because some have more than one disability)	91,675

Table 2: Estimated 2015 Population in the DRCOG Region by Disability Type

Source: 2009-2013 American Community Survey 5-Year Estimates

Figure 8 shows disability types by age group in the DRCOG region. The number of people within disability categories is roughly the same in both the 18-64 and 65+ age groups.

B. Older Adults

Many older adults are reluctant to stop driving for fear of losing their independence. Like individuals with disabilities, many older adults that do not drive rely on public transportation and other means to maintain their independence.

The older adult population is increasing much faster than the general population. While the 60+ population is expected to almost double, the population under 60 is expected to grow by roughly a third. As shown in Figure 8, more than a half million residents in the DRCOG region are currently 60 years old or older. Between 2010 and 2015, this group grew by 27 percent as Baby Boomers (born between 1946 and 1964) entered this age group. The 60+ population in the region is anticipated to increase to over one million by 2040. By then, one in four persons in the region will be over the age of 60. Further, the population of adults age 75 and older is forecast to be 476,000 by 2040, an increase of about 200 percent from 2015.

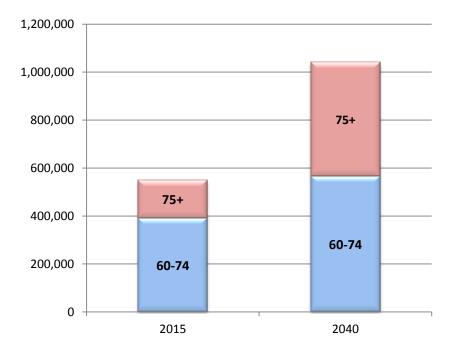


Figure 8: Forecast Growth of Age 60+ Population in the DRCOG Region

Sources: 2015 – Colorado Demography Office; 2040 – DRCOG Forecast with proportional increase by age group

2013 RTD Paratransit Survey Demographic Profile

A recent survey of paratransit users was conducted by RTD. The following demographic information obtained is noteworthy for planning purposes:

- RTD paratransit customers tend to be older than users of other RTD service types. 56 percent of Access-a-Ride customers and 59 percent of Access-a-Cab customers are 65 years of age or older, compared to 7 percent for fixed route riders.
- RTD's paratransit services frequently provide transportation for low income populations. About 50 percent of Access-a-Ride and 60 percent of Access-a-Cab customers report household incomes of less than \$15,000 per year, compared to about 26 percent for fixed route riders.
- Paratransit customers tend to have lower education levels when compared to customers using other services. Nearly half of all customers indicated they graduated high school or have less than 12 years of formal education, compared to 28 percent of fixed route riders.
- About 86 percent of paratransit customers are retired or are unable to work; about 10 percent of fixed route riders indicated they are retired or are unable to work.

- Nearly two thirds of Access-a-Ride customers and 80 percent of Access-a-Cab customers are female.
- 25 percent of paratransit customers indicated they used a fixed route service in the 12 months preceding the survey.

C. Youth

Growth is also anticipated for the youth cohort (12-20 years of age). High school students receive a discounted rate on RTD buses and often use them to get to and from school. For example, an estimated 2,400 Denver Public high school students use RTD to go to and from school⁶. Between 2015 and 2040, this population is expected to increase by over 20 percent, from approximately 377,000 to 460,000.

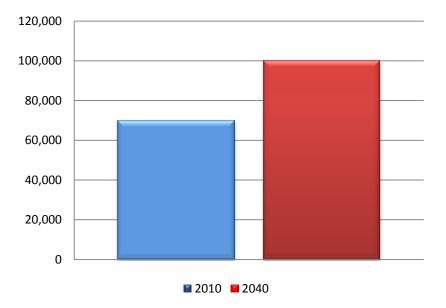
D. Zero Vehicle Households

Households without a motor vehicle are by definition dependent on modes of transportation other than a privately-owned automobile. These modes include transit, walking, bicycling, taxi, carshare, and others. Many zero vehicle households have no vehicle by choice, while other households cannot afford to purchase and maintain an automobile or do not have a resident legally permitted to drive.

Based on 2010 Census (CTPP) data, about 70,000 households in the DRCOG region have no vehicle available. If this number grows proportionately with the overall population, then there could be almost 100,000 zero-vehicle households by 2040 (Figure 9).

⁶ http://www.dpsk12.org/docs/hs_transportation/

Figure 9: Zero Vehicle Households in the DRCOG Region

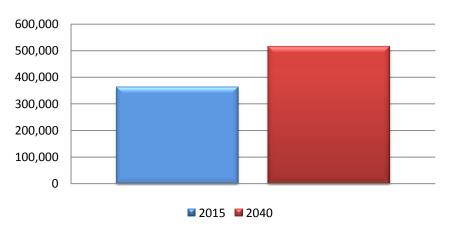


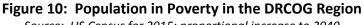
Source: US Census, 2010 Census Transportation Planning Package; proportional increase to 2040

E. Low Income Population

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The current estimate for population below 100 percent of poverty is 363,000, or about 12 percent of the total population for the DRCOG region. 100 percent of poverty is \$11,770 for a one person household; it is \$24,250 for a household of four. If this population is the same proportion of the current total population in 2040, there could be approximately 516,000 low-income individuals in the Denver region (Figure 10).





Source: US Census for 2015; proportional increase to 2040

F. Limited English Proficiency

Limited English Proficiency (LEP) refers to a person who is not fluent in the English language, often because it is not their native language. The most common language spoken at home other than English among the LEP population in the DRCOG region is Spanish or Spanish Creole (161,576 or about 6 percent). The population of individuals that speak English less than "very well" increased significantly between 1980 and 2010 (a twelve-fold increase). However, recent estimates indicate a downward trend. The American Community Survey 2007-2014 estimate for this population is 217,257, or about 7 percent of the total population. Despite a recent downward trend, there will continue transportation need in this community through 2040.

There is also a growing immigrant and refugee population in the DRCOG region. Colorado resettles nearly 2,000 refugees a year; approximately 90 percent settle in the DRCOG region. These newcomers are given legal and permanent status, work authorization, five years of English classes, and access to public assistance to help them obtain financial self-sufficiency. DRCOG's Elder Refugee Program offers assistance and guidance, including transportation assistance, to refugees who are older adults. In partnership with the Colorado Refugee Service Program and the federal Office of Refugee Resettlement, DRCOG's Elder Refugee Program has created a gathering place for elder refugees to decrease social isolation, increase integration and interaction, and build community connections.

G. Minority Population

Minorities (non-Caucasian) make up a significant portion of RTD ridership. On many RTD routes, minority ridership is higher than their proportion of the region's total population. RTD conducted a transit ridership demographic comparison for their 2013-2015 Title VI Report. Figure 1211, adapted from RTD's report, compares the non-Caucasian population with all others for RTD's bus service categories. RTD condensed the minority definitions used for this specific analysis from the definitions the Census uses.

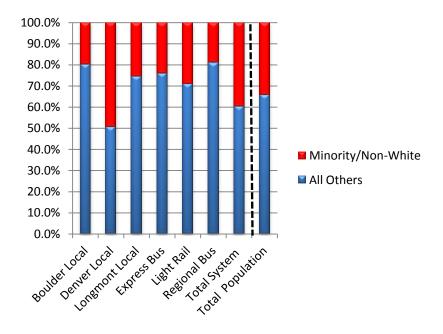


Figure 11: 2011 RTD Minority/Caucasian Ridership

Source: RTD 2013-2015 Title VI Report and 2010 US Census

According to Census data, almost 2 million white non-Hispanic residents live in the DRCOG region, or over two thirds of the total population. About 630,000, or almost a quarter of the population, is Hispanic (all races). Applying the state demographer's statewide growth rates to the 2010 DRCOG region population data, the Hispanic (all races) share grows by 9 percent and the white, non Hispanic share decreases by 13 percent in 2040 (Figures 12 and 13).

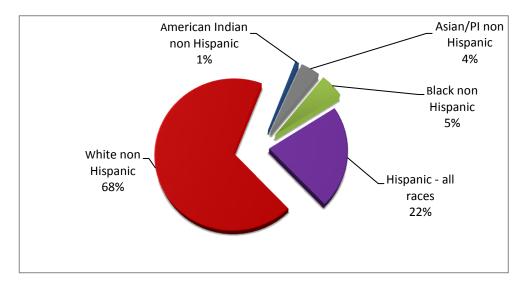
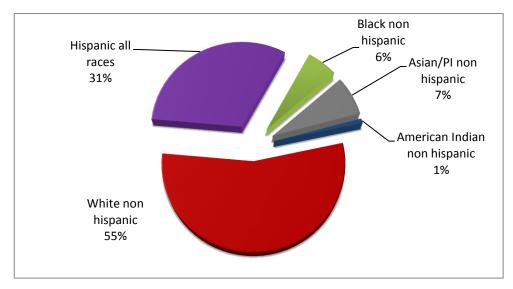


Figure 12: 2010 DRCOG Minority Population







5. Assessment of Transportation Needs

The previous section illustrated in broad terms the potential demand for all types of transit service, particularly human service transportation, by 2040. This section discusses and identifies transit capital, operating, and related needs to assist in responding to the potential demand. FasTracks will help serve this demand, but RTD's base services and service from other agencies must also increase.

A. Transit Agency Capital and Operating Needs

Based on grant-funded projects and interviews with transportation agencies in the region, over-arching needs include vehicles (replacement and expansion), operating assistance (personnel, drivers, maintenance, fuel, etc.) mobility management, and capital expenditures to keep fleet, facilities, and other key assets in a state of good repair.

In 2013, FTA estimated that, nationwide, more than 40 percent of buses and 25 percent of rail transit assets were in marginal or poor condition. Estimates from the National State of Good Repair Assessment identified an \$86 billion backlog in deferred maintenance and replacement needs, a backlog that continues to grow⁷. RTD's State of Good Repair Dashboard indicates a 2014 score of 3.7 (out of 5) for bus vehicle assets and 4.1 (out of 5) for light rail vehicle assets, where a score of 5 is excellent condition.

CDOT has developed a statewide asset inventory database to track transit capital needs and to help inform state and federal grant project funding decisions. The asset inventory database shows that RTD has 89 percent of rolling stock in the DRCOG region (1,023 vehicles). Among other agencies in the region, Via and SRC have the most with 53 and 36 respectively. Transit agencies are also able to use the database to track their capital inventory.

Access to Employment

Where the Jobs Are: Employer Access to Labor by Transit (Brookings Institution – 2012) combined detailed data on employment, transit systems, and household demographics to determine transit accessibility within and across the country's 100 largest metro areas. The share of jobs in the Denver-Aurora Metropolitan Statistical Area in neighborhoods with transit service is 87 percent; this ranked 12th among the 100 largest metros. This coverage is expected to improve when more FasTracks lines and stations open in the next few years. Despite this, there are still pockets of the region where transit-job

⁷ http://www.fta.dot.gov/13248.html

access is needed or can be improved. The Brookings study did not take into account time of day. Many low income workers have jobs with nontraditional hours (e.g. evenings and weekends).

B. Human Service Transportation Needs

Human service transportation needs are more complex and are identified from a variety of input sources, including surveys, studies, and public meetings. Stakeholders and the general public contributed significantly to this process. Key input sources and a high-level summary of major needs are listed below.

Input Sources

- DRCOG and DRMAC Forum
- 2016-2019 DRCOG Area Plan on Aging Public Input from Community Conversations
- County Council on Aging Survey
- Older Americans Act/Older Coloradans Act Transportation Agencies
- CDOT Statewide Transit Survey of Older Adults and Adults with Disabilities
- Local Coordinating Councils (LCCs)
- 2013 RTD Paratransit Customer Satisfaction Survey
- Community Assessment Survey for Older Adults for the DRCOG, Boulder, and Weld AAAs
- United States of Aging Study Oversample of Denver Region

Summary of Needs

- Transportation ranked as a top service priority for older adults and individuals with disabilities
- Affordable fares, especially for older adults, individuals with disabilities and/or low incomes
- More cross-jurisdictional trips, better trip coordination, and more accessibility
- Better regional coordination to build on improving local coordination
- Demand for transportation will increase as the population increases and ages
- Expand volunteer driver programs
- Continue to work with DRMAC to implement the Transportation Coordination Systems (TCS) project and other technological improvements
- Accessible and understandable transportation information and referral services
- Increase service areas, frequency, and service hours (nights and weekends) where gaps exist
- Remove barriers to ride fixed route, including improving access to bus stops and rail stations and providing travel training

6. Strategies and Activities to Address Identified Needs & Service Gaps

A. Future Transit Services

This section identifies strategies and activities to address service gaps between current services and identified needs. Strategies and activities addressed in this section include opportunities to achieve efficiencies in service delivery.

MVRTP 2040 Fiscally Constrained Rapid Transit System & Base Rapid Transit System

Figure 15 shows the fiscally constrained rapid transit system contained in the Metro Vision Regional Transportation Plan (MVRTP). By definition, revenues needed to complete these improvements are reasonably expected to be available by 2040. The majority of the rapid transit network is open to the public or currently under construction. Two BRT corridors (East Colfax and SH-119) must secure programmed funding and complete environmental studies before construction can begin.

The Tier 1 Base Rapid Transit System (depicted in Figure 14) is a 269-mile system of light rail, commuter rail, and BRT corridors and bus/HOV facilities that are operating, under construction, or included in FasTracks (see below). Most of Tier 1 is fiscally constrained through 2040, with the exception of some FasTracks projects funded beyond 2040.

FasTracks

RTD's FasTracks is a multi-billion dollar comprehensive transit expansion plan. This plan includes 122 miles of new commuter rail and light rail, 18 miles of bus rapid transit (BRT), and 21,000 new parking spaces at light rail stations and park-and-rides.

The West Rail line was the first FasTracks corridor to open in spring 2013. Several other corridors are set to open in 2016; two more are scheduled to open by 2019. All FasTracks projects are funded in the FasTracks Plan. However, RTD's current financial forecasts indicate not all projects will be constructed by 2040; these are:

- Central Rail Extension (30th/Downing to 38th/Blake)
- North Metro Rail Line from 124th/Eastlake to 162nd/SH-7
- Northwest Rail Line from South Westminster/71st Avenue Station to Longmont
- Southwest Extension.

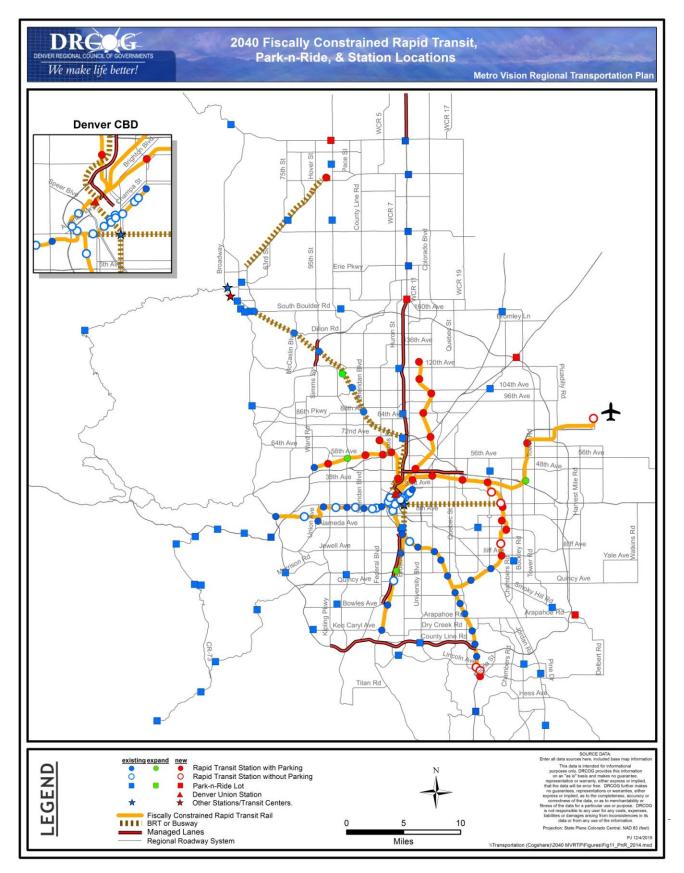


Figure 14: 2040 Fiscally Constrained Rapid Transit, Park-n-Ride, & Station Locations

Additional Envisioned Rapid Transit Corridors

The 2040 vision rapid transit network is an inventory of unfunded projects that are illustrative only. It is separated into three system tiers in Figure 15, including the fiscally constrained portion of the entire envisioned regional transit network. The following tiers, shown in Figure 18, represent relative priorities for implementation based on resources, time, and feasibility:

Tier 2: **Potential Regional and State Intercity Corridors**. Regional corridors that could have future rapid transit include Wadsworth Boulevard, C-470, and Speer/Alameda Avenue. Intercity corridors are envisioned to include rapid transit service west to the mountains (CDOT Advanced Guideway Study or AGS) and north to Fort Collins and south to Colorado Springs and Pueblo along Interstate 25 (CDOT Interregional Connectivity Study or ICS). The approximate mileage for Tier 2 projects within the DRCOG region is 350 miles. Tier 2 also includes arterial BRT projects identified in RTD's Northwest Area Mobility Study (NAMS).

Tier 3: **Conceptual Preservation Corridors**. These future prospective rapid transit corridors are located along major highways or freight railroad lines such as E-470, Jefferson Parkway, and the US-85/I-76 corridor. Projects in this tier would cover about 82 miles, though depicted alignments are very conceptual. Rights-of-way will be preserved to the extent possible in these corridors for potential rapid transit use in the future.

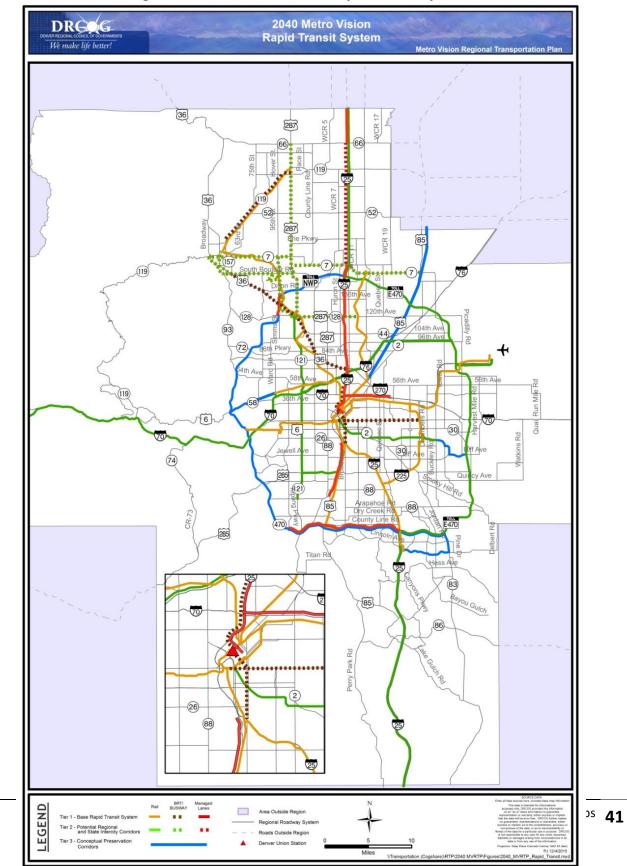


Figure 15: 2040 Metro Vision Rapid Transit System

RTD General Public Bus and Rail System

RTD's 2015-2020 Strategic Plan identifies seven overall strategies serving its mission. Each strategy is accompanied by a goal statement, narrative describing the strategic theme in more detail, and a set of initiatives that articulate short-, medium-, and long-term implementation. Most of these initiatives are ongoing in nature, and will be a continuous effort during the five-year plan time-frame. Below are those strategies and some associated initiatives.

- 1. Deliver Customer Oriented Service
 - Provide a seamless customer interface between RTD and contracted services
 - Enhance policies for accommodating needs of passengers on vehicles
 - Provide opportunities for customer engagement
- 2. Foster a safety culture
 - Build a strong alliance and partnership between management, employees and customers
 - Establish and implement an internal safety audit system for Bus Operations
 - Create training modules for management and supervisory staff focused on safety training, accident prevention, team building, hazard recognition, and safety communication
- 3. Strengthen fiscal resiliency and explore financial innovation
 - Direct funding to highest-priority projects and enhance strategic budget planning
 - Seek innovative funding opportunities to expand revenue sources
 - Preserve financial sustainability and maintain a structurally balanced long-range budget
- 4. Improve customer access and support transit-oriented communities
 - Support and coordinate investments to improve first and final mile connections to transit facilities
 - Foster livable, equitable, and accessible communities at transit facilities
 - Optimize District-wide parking resources
- 5. Optimize service delivery
 - Pursue ongoing enhancements and improvements to the existing transit system (services and facilities)

- Work with partners to develop, fund and complete FasTracks and increase ridership
- Continuously improve service delivery and reliability, including integration of new corridors with existing services
- 6. Use technology to operate efficiently and improve the customer experience
 - Integrate technology systems to automate data transfers and improve service delivery
 - Establish agency-wide information governance strategy
 - Improve the rider experience with easy fare payment options through Smart Card Technology
- 7. Foster a Dynamic and Sustainable Workforce
 - Establish transition paths for workforce as the agency evolves
 - Attract and train skilled workers in key trades
 - Strengthen workforce by building on the success of Leadership Programs

B. Other Future Services

Removing Barriers to Ride Fixed Route

Removing barriers to ride fixed route service can help reduce costs and provide independence. There is significant interest in this objective based on information gathered from public outreach. In addition, DRMAC facilitates a Transit and Accessibility Taskforce that focuses on this issue. Projects that can improve access to fixed route service and decrease reliance by individuals with disabilities on complementary paratransit include, but are not limited to, travel training and construction projects that improve accessibility to transit stops.

Infrastructure Improvements

Improving the accessibility of transit stops, especially bus stops, and the surrounding pedestrian infrastructure is a key strategy for enabling older adults and individuals with disabilities to use fixed route transit. Bus stops have been a focal point for many accessibility improvements since the ADA was enacted. The need for accessibility, however, extends beyond the actual stop to the pathways that connect to the stop.

Connections to and from bus stops are not always provided. Transit agencies do not always have the authority or ability to make these improvements. Sometimes improvements are not made due to lack of funding. Incomplete or poorly maintained sidewalks, difficult street crossings, lack of curb cuts, and obstacles in the pathway such as utility poles create barriers for people with disabilities, limiting or preventing access to fixed-route transit service.

First and Last Mile Connections

Another key strategy to remove barriers to riding fixed route transit is providing first and last mile connections. First and last mile connections are improvements that can help better connect people from bus stops and transit stations to final destinations (and vice versa). Such improvements may include infrastructure such as sidewalks, shuttle buses, and bike sharing services.

Travel Training

Travel training is instruction offered to those who need assistance to increase their mobility and travel on public transportation independently. It includes a variety of plans, methods and strategies used by professional trainers to increase the independent travel skills of the people they serve. Via Mobility offers this service to older adults, people with disabilities, and others living with mobility limitations who reside within the RTD system boundaries. In addition to one-on-one training, Via offers an abbreviated travel training program for groups, Seniors on the Move and Train the Trainer programs.

Improvements that remove physical and nonphysical barriers to using transit, making it more accessible for older adults, individuals with disabilities, and the general public, are a key strategy emphasized by this Coordinated Transit Plan.

Affordable Fare Programs

A common theme among public and stakeholder input was a need for affordable transportation for people with low incomes. This is an important but difficult issue to address given limited financial resources for low income riders and for RTD without an influx of additional funding to replace the farebox revenues that would be lost from offering discounted fares. The Free Ride Longmont program provides fare free local bus service in Longmont. In 2012, the town of Nederland, working with Boulder County's transportation department, administered a grant that provided Nederland residents free RTD transit passes. This program was funded through DRCOG's Regional Transportation Demand Management (TDM) Program Pool.

Chapter 6 Strategies and Activities to Address Identified Needs & Service Gaps |

RTD is currently working with non-profits and stakeholders to develop a new income-qualified fare discount program. Details of this program will become available in 2016.

C. Future Human Service Transportation Coordination Efforts and Strategies

Coordination Efforts

Nine Local Coordinating Councils (LCC's) are active in the DRCOG region including the Weld County Mobility Council supported by the North Front Range Metropolitan Planning Organization (NFRMPO). Clear Creek and Gilpin Counties share an LCC. DRMAC serves as the LCC for Denver County and the Regional Coordinating Council for most of the DRCOG region. As the Regional Coordinating Council, DRMAC facilitates coordination between them. The State Coordinating Council supports the LCCs and RCCs across the state. Figure 16 illustrates these relationships.

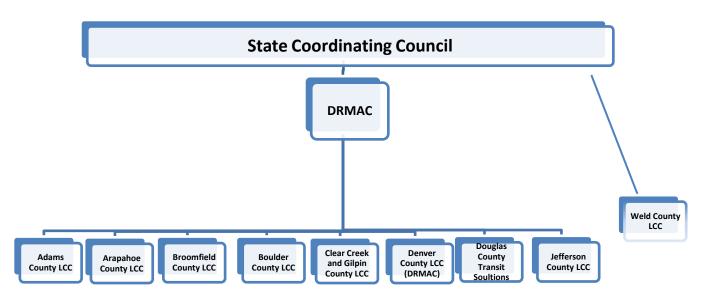


Figure 16: Human Service Transportation Coordination Organizations

The Colorado Interagency Coordinating Council for Transportation Access and Mobility (State Coordinating Council) was created in 2005 in response to the federal *United We Ride* initiative. The State Coordinating Council brings together various state departments with programs that either provide or depend on transportation services for their clients. The Council addresses issues related to funding and regulatory requirements at the state level. The Council's goals include:

- More rides for target populations for the same or fewer assets;
- Simplify access, and
- Increase customer satisfaction.

DRMAC works to ensure people with mobility challenges have access to the community by increasing, enhancing, sharing, and coordinating regional transportation services and resources. DRMAC initiated the Transportation Coordination Systems project (TCS) to improve coordination of human service transportation programs and service delivery in the Denver region. This study examined ways to coordinate trip requests, booking, scheduling. Based on TCS recommendations, DRMAC recently initiated a trip exchange database technology development project. This technology is anticipated to help multiple human service transportation agencies share trips to use existing resources (such as vehicles) more efficiently and provide more and better service.

Strategies

The following are suggested strategies to address human service transit coordination. These strategies are based on public meetings, other plans, surveys, and other input sources.

Fund transit projects that address identified needs and FTA program guidelines

The project selection process for FTA Section 5310 should focus on service needs relative to these and other program goals:

- Enhance mobility for seniors and persons with disabilities;
- Serve the special needs of transit-dependent populations beyond traditional public transportation services and ADA complementary paratransit services, and
- Coordinate human service transportation and transit.

Spend local, regional, state, and federal funds more efficiently

It is important to find ways to do more with existing resources. A key strategy is blending multiple funding sources. Transportation providers and local governments should work with state and regional partners to combine funds like FTA 5310 with Older Americans Act, Medicaid, and others to fill more seats on each vehicle to reduce inefficiencies. In addition, there is also the opportunity to blend federal funds to reduce or eliminate the need for transportation grantees to contribute toward the local match.

Increase human service transportation coordination efforts

Greater coordination is a critical strategy to fund more trips with existing revenues. DRMAC coordinates with many organizations and agencies to better meet the needs of the region by increasing efficiencies. Stakeholders and transportation providers should continue to work with DRMAC and other groups on efforts to improve coordination of human service transportation.

Address cross-jurisdictional, cross service boundary, and interregional trips

Mobility needs do not stop at city, county, or even regional boundaries; residents across the Denver region often travel across jurisdictions to get to their destinations. For example, The Veterans Affairs Medical Center in Denver is a destination that draws veterans throughout the region and beyond. One of the key needs and strategies is to improve service and coordination across jurisdictional boundaries.

The Via Mobility Services and RTD Coordination Pilot Project uses automated, mobile technology to coordinate RTD and Via Mobility demand response services in Longmont. Goals for this ongoing project include increasing trips while maintaining or reducing the combined vehicles in service, decreasing cost, and developing a model that can be used in other places around the region and the country. The initial funding for this pilot program was provided by FTA 5317 (New Freedom), RTD, the City of Longmont, and Via Mobility.

Figure 3 from the 2040 RTP shows workflow patterns into and out of the DRCOG region. One significant commuting pattern that crosses MPO boundaries is between Boulder and Fort Collins. Local agencies are currently collaborating across jurisdictional and MPO boundaries on a project to extend bus service between these two cities. As the project moves forward, those involved are designing a blueprint for similar future projects.

Implement trip exchange technology initiatives from transportation studies

Two studies were recently conducted to evaluate strategies for coordination of human service transportation in the Denver region: the Transportation Coordination Systems (TCS) and the *Evaluation*

of the DRCOG Area Agency on Aging Transportation Support Service Program prepared by BBC Research and Consulting.

Both studies share the same overarching goal: accessible and affordable transportation that is easy to book and meets current and future demand. Shared components recommended by both studies include:

- Leverage funding to support human service transportation
- Offer region-wide support and incentives to all transportation agencies
- Enable electronic data interchange capability within information technology (IT) systems
- Explore new sources of funding with a long term focus
- Foster regional coordination and cooperation
- Strengthen county partnerships

A key difference between the two studies – the structure of a potential regional "one call, one click center" – needs to be further defined. The TCS study recommended a sub-regional brokerage approach, while the BBC study recommended the region explore a single call center for scheduling and dispatch. After the trip exchange database is developed, stakeholders should address other TCS and BBC recommendations and re-evaluate the structure of the one-call-one-click center.

7. Conclusion

In addition to providing a broad view of the region's transit system and serving as the transit component of the Metro Vision Regional Transportation Plan, this document also serves as the Coordinated Public Transit and Human Services Transportation Plan for the DRCOG region (Coordinated Transit Plan). A Coordinated Transit Plan is federally required, particularly in selecting projects for funding in the FTA 5310 grant program. This integrated plan addresses transit geared for specific populations and transit available for the general public because both are important to increase mobility. For example, while many older adults and individuals with disabilities will be served by transit modes specifically designed for their needs, many more will use general public transportation.

Transit is a vital component in the DRCOG Region's multimodal transportation system. It provides mobility and access for many. There are around 350,000 transit boardings each weekday. Not only does transit connect residents, employees, and visitors to jobs, schools, shopping, medical care, and recreation, it promotes independence and economic development. Transit services are available throughout the DRCOG region in rural, suburban, and urban areas.