2019-2050 REGIONAL TRANSPORTATION PLAN







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TransPlan50 is the regional transportation plan for urbanized Utah County. The proposed projects and programs are a coordinated system of capital-intensive roadway projects, transit improvements, and pedestrian/bicycle facilities needed over the next thirty years. The plan attempts to minimize impacts on society and the environment while providing for enough capacity and transportation choices to ensure the region's economy continues to grow.

#### **METROPOLITAN PLANNING**

Mountainland Association of Governments (MAG) serves the governments and citizens of Summit, Utah, and Wasatch Counties. As part of this association, Mountainland Metropolitan Planning Organization (MPO) has the task of planning for the urban Utah County regional transportation needs. Located at the southern end of the Wasatch Front region of Utah, the MPO encompasses the rapidly growing Provo/Orem Urbanized Area and includes all 25 Utah County municipalities and contiguous unincorporated areas. Urbanization and the locations of major transportation facilities are constrained by physical boundaries including steep mountain terrain to the east and west and by the large, centrally located Utah Lake. The urban area is roughly bisected by I-15, the only freeway currently within Utah County. The MPO creates the forum bringing together urban leaders with state and federal transportation officials, opening dialogue, and providing a process for all to be involved in planning and funding the transportation needs of the area. MAG has a strong history of working together with stakeholders and accomplishing results.

TransPlan50 follows the guidelines of the last federal transportation bill - Fixing America's Surface Transportation Act (FAST Act) - and embodies them philosophically as well as technically. The Federal Highway Administration (FHWA) requires each MPO to address ten specific planning factors. FAST Act states that the metropolitan planning process shall be continuous, cooperative, and comprehensive. The process will also provide consideration and implementation of projects, strategies, and services to address the following factors:

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

- Increase the safety of the transportation system for motorized and nonmotorized users.
- 3. Increase the security of the transportation system for motorized and non-motorized users.
- 4. Increase accessibility and mobility of people and freight.
- 5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- 6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
- 7. Promote efficient system management and operation.
- 8. Emphasize the preservation of the existing transportation system.
- 9. Improve the resiliency and reliability f the transportation system and reduce or mitigate stormwater impacts of surface transportation.
- 10. Enhance travel and tourism.

#### A GROWING REGION

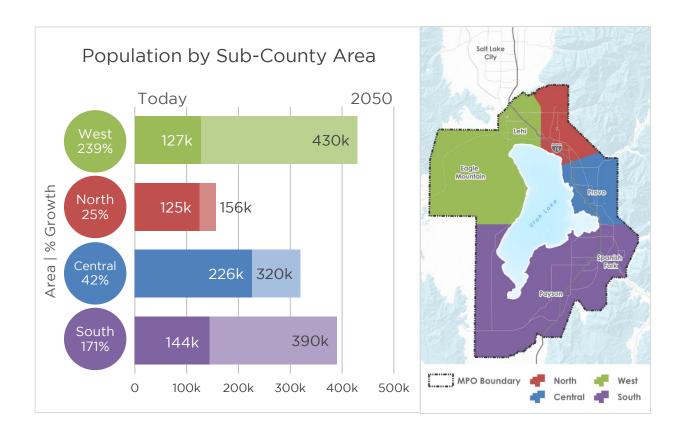
Historically, population growth in Utah County has been robust, rising by 40 percent in each of the last two decades, and surpassing one-half million people in 2009. More recently, the Provo/Orem area was the 4th fastest growing metro area in the country with the population now exceeding 630,000. While the mainly rural transportation system had been over-taxed and unable to sustain such rapid growth, early this decade, the state and county invested nearly \$4 billion in highway and rail projects, making a significant impact towards easing congestion and creating better connectivity.

The cities of Provo and Orem have always been the urban core of Utah County, but this is changing. The two largest metropolitan areas in the state, Salt Lake City and Provo/Orem, converge at the Point of the Mountain, creating a natural center for high growth in both jobs and population.

**West Area:** Since the year 2000, the West Area (including Lehi, Eagle Mountain, and Saratoga Springs) has been the epicenter of statewide population growth, adding more than 102,000 people. Future growth explodes in the West Area. It is forecasted to add 303k more people reaching 430,000 population by 2050. All of Utah County was 430,000 in 2004.

**North Area:** This area includes American Fork, Highland, and Pleasant Grove. With less developable land and high real estate values, it still added over 49,000 new people since 2000 and is proposed to add another 31,000 by 2050.

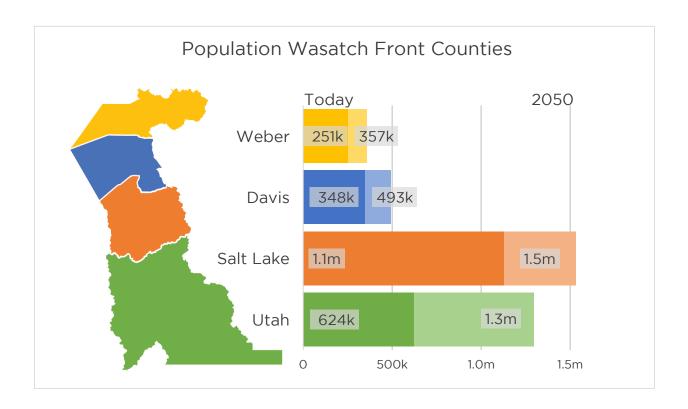
**South Area:** The largest geographically and with densities mostly at rural values, the South Area is also growing. Most of the 55, 000 new residents since 2000 pushed development outward from the historic city cores. The area is forecasted to add another 246,000 growing to 390,000 by 2050.





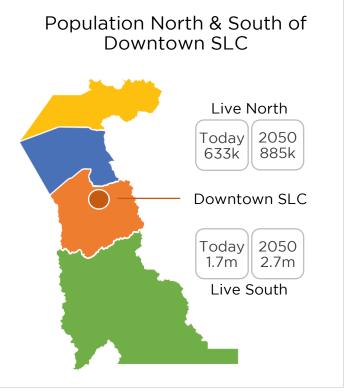
**Central Area:** Provo, Orem, and the high growth area of Vineyard encompass the Central Area. Most of Provo and Orem are developed established areas that have increased in density since 2000, adding 32,000 new people. Another 96,000 people are forecasted to move to the area, with increased density and Vineyard building up and out.

**Regional Growth Trends:** By 2050, Utah County will double in population adding over 660,000 more people, surpassing 1.3 million, slightly larger above the current day population of Salt Lake County. This equates to 100 percent growth and is more than double any other Wasatch Front county. During this period, Utah County's growth is larger than the other three Wasatch Front counties combined. By 2065, Utah and Salt Lake counties are near the same size.



Development along the Wasatch
Front has historically favored the
areas south of downtown Salt Lake
City. Today, 633,000 people live
north of downtown, 1.7 million live
south of it. By 2050, 885,000
people live north of downtown and
2.7 million south of it. Areas north of
downtown add the population of
current day Weber County through
2050, areas south will add an
equivalent of 11 Weber counties.

Employment mimics population trends for all four Wasatch Front counties. Utah County's employment growth is projected to



almost double from 300k jobs today to 600k in 2050. However, even with these additional jobs, Salt Lake City will remain the major urban employment center.

Prior growth trends show that Utah County's development had been tied to incounty employment, but over the last ten years, the two metro areas (Provo/Orem and Salt Lake City) have begun to converge, creating the highest employment growth area in the state. A large, highly educated workforce, abundant developable land, and convenient access to highways, rail, airports, and active transportation has drawn and will to continue to focus economic attention on the area. New job growth will reinforce the attraction of new residents, and with such growth, Utah County's importance in the region increases. Utah County's share of the total Wasatch Front population increases from 20 percent today to 26 percent in 2050.

As growth mounts, the population and employment distribution will continue to increase outside the historical center of Provo/Orem. In 2050, Provo/Orem will still be the urban core, but northward along the I-15 corridor and into Salt Lake County,



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similar densities begin to develop. Areas west of I-15 densify and become self-sustaining (more jobs, fewer long commutes), and show more urban characteristics. South of Provo, communities fill in with development and spread out from historic city cores, although densities remain low with suburban characteristics.

#### **TRAVEL DEMAND**

Predicting where future transportation facilities are needed in high-growth areas is a continuous effort. Changes in political leadership, anticipated funding, land-use patterns, and many other factors change the dynamics of an area and require constant study. TransPlan50 is updated every four years to stay relevant. This frequency of updates allows the MPO to remain current with emerging trends and policy changes. The work is also collaborative, bringing federal, state, county and city agencies together into one deliberative body. The MPO uses a sophisticated travel demand model co-managed with Wasatch Front Regional Council (Salt Lake/ Ogden MPO) that accounts for these adjoining metro areas to best predict where future transportation improvements are needed. Socio-economic data and land-use are two key inputs to the travel demand model. Socioeconomic data includes household and employment level forecasts for each city. The municipalities and the county produce general plans that influence future land-use growth. MPO staff develop models of region-wide development patterns from these local land-use plans.

Many land-use plans only project for the next 10 to 15 years, leaving a gap between local planning horizons and the needs of long-range regional transportation planning. MPO staff meet with each municipality and the county to review their plans and to gain additional insight into where future growth could occur. The local plans are used to gauge future development on vacant land, infill and redevelopment areas. Most local land-use plans continue historic low-density land-use policies leading to many of the core cities running out of buildable land by 2035. To address the long-range needs to 2050, a regional vision process called Wasatch Choice 2050 is on-going. It is a cooperative regional visioning effort, taking input from transportation stakeholders to coordinate key regional transportation, local land-use, and economic development strategies that aim to achieve regional goals of mobility, connectivity, transportation choices, and quality of life. The land-use outputs of Wasatch Choice

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2050 augment TransPlan50 by fostering this creative thinking concerning land-use policies going forward. It proposes denser clusters of housing, retail, and employment in key strategic centers along the Wasatch Front.

#### **FUNDING AND COSTS**

Funding assumptions for TransPlan50 are based on coordination between Utah MPOs (Cache, Dixie, Mountainland, and Wasatch Front), UDOT, and UTA. Utah follows an advanced practice in the development of a statewide Unified Transportation Plan (summary of all MPO, UDOT and UTA plans). To ensure consistency within the Unified Plan, each individual plan follows a standard set of demographics, financial revenue, cost estimating, and related assumptions. TransPlan50 funding assumptions are developed for planning purposes only. Transportation funds are generated from several sources, including sales tax, tolls, bonds, and state, local, and federal excise taxes on various fuels, and credit assistance sources. The following planning assumptions are used to determine a "reasonable" future revenue assumption as required by federal law.

Statewide Funding Assumptions
All Auto Related Sales Tax to Transportation
Federal Funds Growth Rate of 3.49% & 1.5%
10-cent Motor Fuel Tax in 2030 & 2040
Motor Fuel Growth Rate of 2.4% & 1.48%
Special Fuels Growth Rate of 3.02%
\$10 Vehicle Registration Fee in 2021,2031,2041

Regional Funding Assumptions
\$5 Vehicle Registration Fee in 2026, 2036, 2046
Vehicle Reg. Fees Funds Growth at 3.03%
New 1/4-Cent Sales Tax in 2023, 2030, 2040
B&C Funds 30% to local governments
Regional Funds Growth at 5.52%



#### TOTAL REVENUE, CONSTRAINED COSTS, NEED

In summary, revenue expected within the MPO area through 2050 is proposed at \$18.8 billion, \$13.5 billion toward highway operations, preservation, and projects, and \$5.3 billion for transit operations, maintenance, administration, and projects.

All highway capacity projects are placed in the phases when needed, with available funding and bonding used to fund construction. Highway capacity projects are fully funded in the plan when needed, as is state preservation and operation's needs (though there is a deficit for local preservation needs of \$177 million.)

New capacity rail and other major projects are generally not funded when warranted leaving \$4 billion unfunded. Preservation and operations are underfunded at \$2 billion. For air quality conformity compliance, unfunded capacity projects are not considered a part of the fiscally constrained plan.

#### **Total Revenue, Constrained Costs, Need**

Funds showed in millions in 2019 dollars

Category	Phase 1 2019- 2030	Phase 2 2031- 2040	Phase 3 2041- 2050	Total Funds				
Highway								
Revenue	5.2b	4.1b	4.3b	13.5b				
Need	5.2b	4.0b	4.1b	13.4b				
Revenue Less Need	-57m	57m	106m	106m				
Transit								
Revenue	1.7b	1.7b	1.8b	5.3b				
Need	2.6b	4.2b	3.5b	10.3b				
Revenue Less Need	-902m	-2b	-2b	-5b				
Total Ok								
Revenue	6.9b	5.8b	6.1b	18.8b				
Need	7.9b	8.2b	7.7b	23.8b				
Revenue Less Need	-959m	-2b	-2b	-5b				

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#### **REGIONAL GOALS**

TransPlan50 focuses on building a robust, intermodal, urban transportation system. The primary goals within the plan have evolved to keep pace with our rapidly expanding population and travel demands. In developing TransPlan50, transportation summits were held in the north, central, and southern areas of the county. Transportation stakeholders were invited to share their plans and insights into what the future transportation system should become. Stakeholders included mayors, city council members, planning commissioners, city and agency staff, members of the business community, legislators, and citizens. Their ideas were modeled, and similar meetings were held to go over the results. From these efforts, five overarching goals have emerged.



Goal 1
Update the Regional Highway
System to a Metropolitan
Grid-based Network



Goal 2 Explore Additional Freeways, Add Capacity



Goal 3 Create a Robust Transit System



Goal 4
Build a Regionally
Connected Active
Transportation System



Goal 5 Preserve what we have

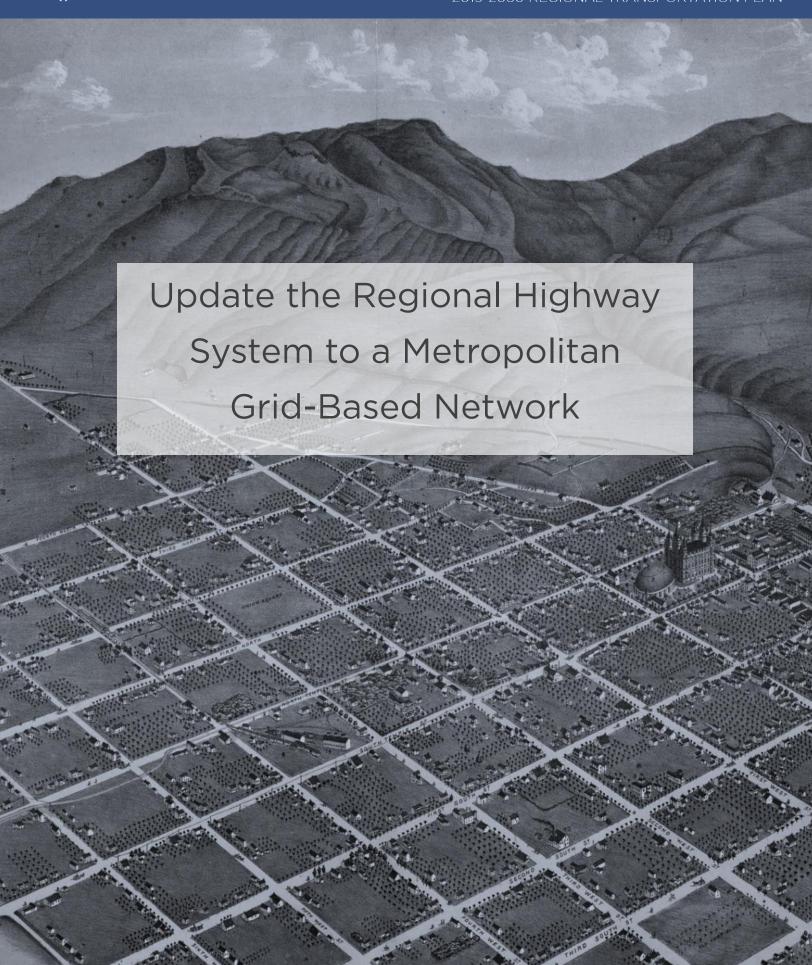








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#### GOAL 1 UPDATE THE REGIONAL HIGHWAY SYSTEM TO A METROPOLITAN GRID-BASED NETWORK

Utah County has a rural highway system. The county grew in a nodal, town by town form with each town focusing on its own road systems. The state built the main connecting highway between the cities. As the towns grew and began adjoining each other, the proper sizing and spacing of regional highway connections, in most cases, did not occur - the local street network was not complemented by a regional grid.



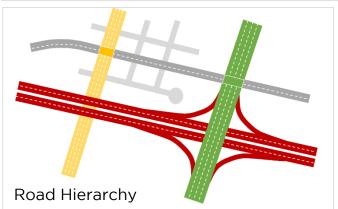
**Greenfield Development:** Rural, greenfield areas on the fringe urban development usually grow slowly, until seemingly overnight, they explode with new development that does not account for nor contribute to an efficient grid system. Congestion starts overwhelming the few existing through streets and highways. Immobility replaces mobility as congestion worsens. Vast areas end up saddled with the consequences of an uncoordinated transportation system. The North Area, for example, has experienced high growth with limited highway connections. East-west corridors between American Fork Main Street and Timpanogos Highway is non-existent. Main Street has a much higher than normal traffic burden. Timpanogos Highway had to be over-built to almost a freeway-type standard to compensate for the lack of an area grid network. With future growth pushing outward, the western and southern areas of Utah County are now at most risk for impacts on developed areas for not having a connected grid network built with growth.

**Regional Highway Grid Spacing:** Recognizing the challenges greenfield areas face as they urbanize, the Institute of Transportation Engineers (ITE) created a Best Practice recommendation for macro-level network spacing, that if adhered to, would minimize congestion on any given facility. The thought is that having a grid of properly spaced roads that can handle different types of trips (local to sub-regional to regional), that

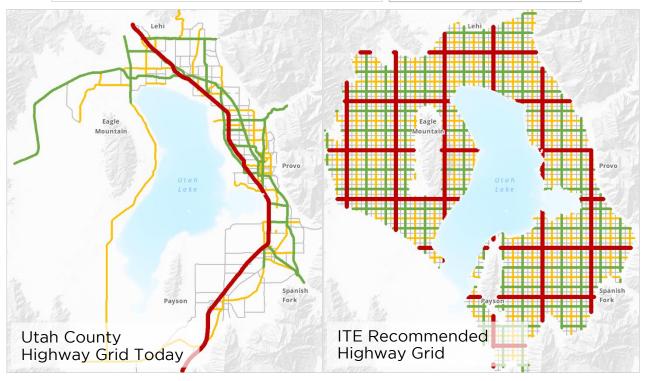


traffic would be spaced out easing congestion and dispersing traffic more evenly throughout the area avoiding placing all traffic on just a few major corridors.





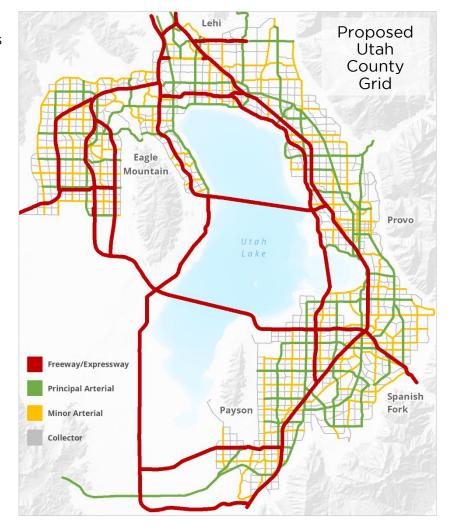




The hierarchy of a regional highway network starts with Freeways and Expressways. These major corridors have characteristics that include grade-separated interchanges (Expressways can have signaled intersections), higher traffic volumes, higher speeds, and are ideally 5 miles apart. Principal Arterials are the major roads carrying regional traffic, high volumes, generally have controlled access (fewer driveways), and higher speeds. Minor arterials have lower speeds and more access points. Collectors lower volumes and more access.

Proposed Utah County Grid: To create a grid network of arterial and collector highways in Utah County, MPO staff worked with municipal staff to draft a plan that allows for properly spaced corridors within greenfield and developed urban areas. In

many cases corridors within the developed areas are mostly complete, connections to adjoining roads in neighboring municipalities are only needed. Some proposals would require little to no neighborhood disruption; others could be more complicated. The proposed grid plan is a starting place to begin the discussion. The proposal is to work with each municipality and the county through their planning processes to vet what corridors can work, what corridors would need adjustment, and what will not work.









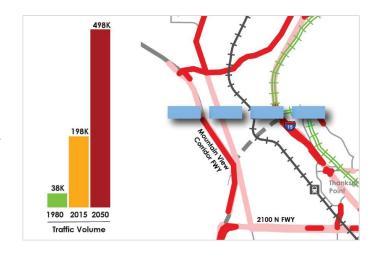


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Utah County Grid Potential Costs and Impacts: It is estimated that completing the county-wide urban grid network as proposed requires an additional 1,000 miles of new lanes. A quarter of these lanes are in current built-up urban areas with the remainder in greenfield areas. The proposed grid also removes about 750 structures, more than half of which are located in rural areas and will most likely be incorporated into future developments. The total cost of the grid network is estimated at upwards of \$2 billion dollars, not including projects already proposed and funded in TransPlan50. Of this cost, \$500 million is anticipated within the built-up urban areas. Most of the \$1.5 billion to build the grid in the rural areas will be funded by private development if properly planned for. Moving forward, MAG will work with our stakeholders to identify which projects can be adopted into municipal and regional plans. More importantly, funding to construct the collectors proposed in the grid network will have to be identified. Currently, only local and regional funds can be used in funding these types of facilities, with these funds already stretched thin. State-wide solutions will most likely need to be sought to these regional non-stateowned roads in the future.

**Transportation Choke Points:** Utah County has a unique geography with its towering mountains, lakes, and wetlands. These features create a unique geographic environment making transportation connections a challenge. In the county, there are five areas where transportation corridors must traverse within narrow strips of land bordered by these features called transportation choke points.

Lehi Choke Points: The Lehi area has some of the most challenging issues to transportation in the region. There are multiple choke points in Lehi impacting both north/south and east/west regional traffic. This couple with high residential and commercial growth and being the center point of two metropolitan areas converging, only add to the problem. The Point of

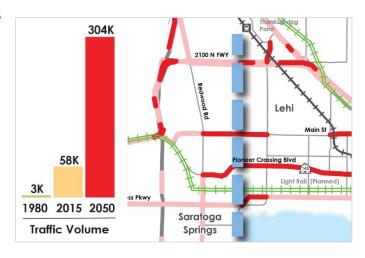




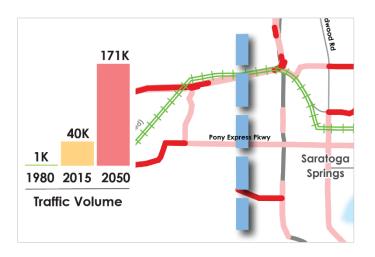
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the Mountain Choke Point is the narrow strip of land between Salt Lake and Utah counties. In the future, this area has more traffic, and people traverse it than any other area in the region. Future projects proposed within TransPlan50 include improvements to I-15 and FrontRunner Commuter Rail, constructing the Mountain View Freeway, and light rail.

East/west travel through Lehi with its numerous wetlands, the Point of the Mountain to the north and Utah Lake to the south, all limit transportation, creating the Lehi Choke Point. In the future Lehi 2100 North becomes a freeway. South of Lehi Main Street, freeway volumes are projected requiring a future facility proposed in the plan. Future study will identify its location.



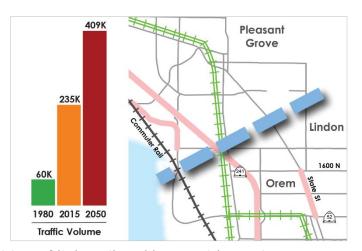
Cedar Pass Choke Point: The narrow connection between Lehi and the Cedar Valley through the mountains create the Cedar Pass Choke Point. The area bordering this choke point is projected to have over 200,000 people by 2050. Because of the limited options for transportation corridors, SR73 is proposed in the plan to be converted into a freeway before 2040.





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Lindon Choke Point: The Lindon Choke
Point today has the highest traffic volumes
in the valley with a significant commuter
movement between the central and
northern areas of the county. With only
three highway corridors, State Street, I-15,
and Geneva Road, as well as FrontRunner
Commuter Rail, this is an important area to
focus on relieving congestion. TransPlan50
proposes improvements to I-15 and



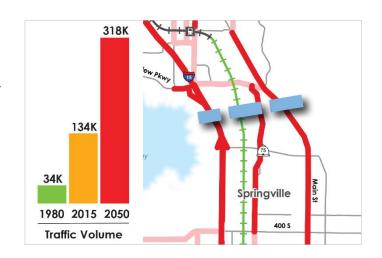
commuter rail in this area as well as the addition of light rail and bus rapid transit along State Street.

# future, the area between Provo and Springville becomes the most congested choke point in the county. It currently only has two regional connections, State Street and I-15. There are very limited transportation solutions due to Provo Bay, wetlands, and the Wasatch Mountains. Future solutions include a parallel freeway

over Provo Bay, FrontRunner Commuter

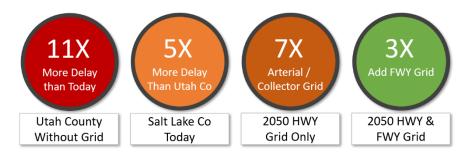
Rail, additional lanes on I-15, and light rail.

Provo/Springville Choke Point: In the

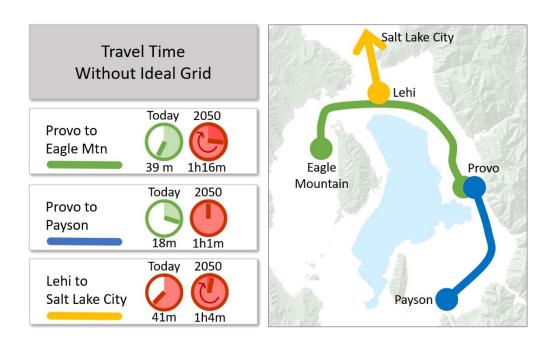


**Congestion Relief:** The benefits of relieving regional congestion by completing the grid network and the projects listed in TransPlan50 are great. With the proposed growth to 2050, overall travel delay in the region increases elevenfold compared to 2018. To put this in perspective, Salt Lake County in 2018 had five times more congestion related delay than Utah County. Modeling shows that with a connected arterial and collector grid network (no additional freeways) 2050 travel delay would only grow to seven times that of today. With the addition of the proposed freeways

in the plan, congestion rises to only three times the current delay, well within acceptable limits of a metropolitan area of 1.3 million people.



**Travel Time:** Another way to understand future network conditions is with travel time. In 2018 a trip by automobile between Eagle Mountain and Provo took about 39 minutes. With no improvements, by 2050 the same trip takes 1 hour and 16 minutes; Provo to Payson 18 minutes versus 1 hour, and Lehi to Salt Lake City 41 minutes versus 1 hour.



**Spreading Traffic Out:** The reason a network of arterial and collector roads works is its ability to spread out traffic. Today the North and Central areas are connected by three main corridors, all state routes; I-15, State Street (US 89), and Geneva Road (SR



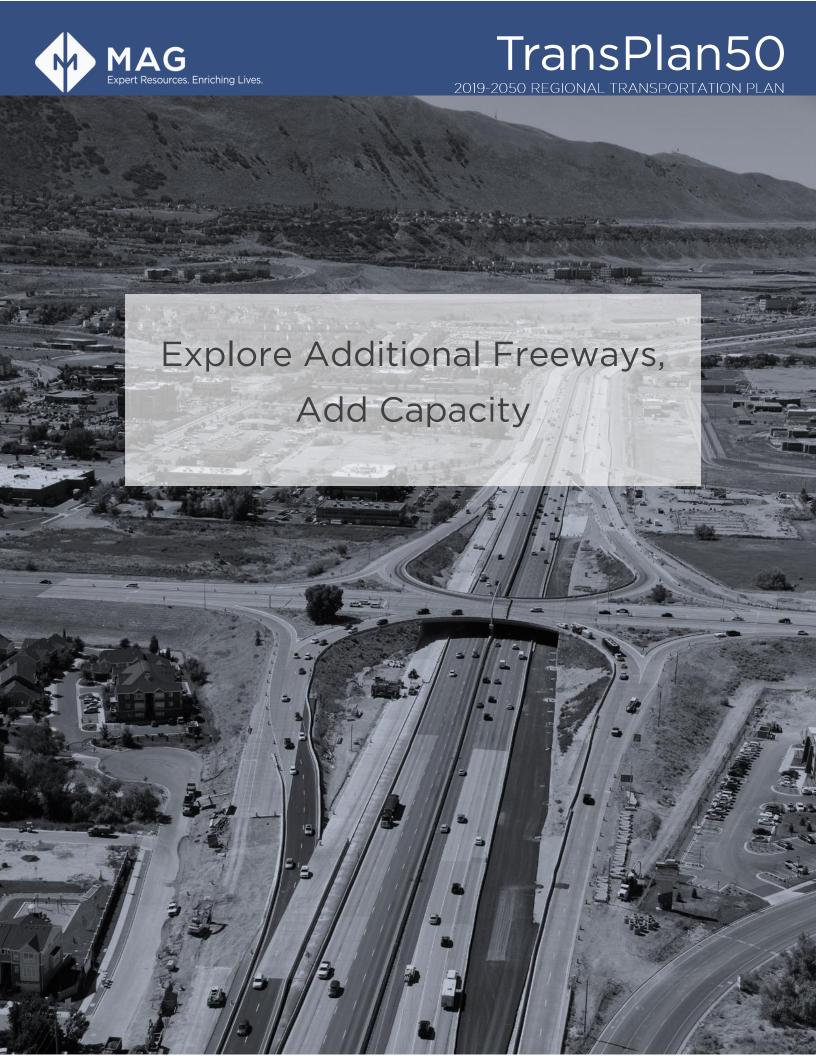
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114). By creating additional connections of smaller roads in this area, localized trips would no longer be required to traverse the major roads, thereby reducing congestion. Connecting collectors and arterials do not necessarily lead to heavy traffic on these roads, rather, by spreading trips out, the total volumes of traffic on a single corridor can be reduced.











#### **GOAL 2 EXPLORE ADDITIONAL FREEWAYS, ADD CAPACITY**

The I-15 freeway is the economic and mobility lifeline of Utah County and most of the Wasatch Front. Running from Canada to Mexico, our regional economy, as well as our quality of life, is directly tied to it. In 2012, the I-15 CORE project began a multi-year and multi-project effort to rebuild and widen the freeway from American Fork to Payson. Lanes vary from six lanes south of Spanish Fork, ten lanes between Spanish Fork and Provo, and twelve lanes between Orem and American Fork. In 2016 the freeway was widened to twelve lanes from north Lehi to Draper. Currently, the I-15 Freeway is being reconstructed through Lehi bringing a total of twelve lanes through this area.

I-15 Freeway: Due to the lack of a regional grid, the current system funnels all regional trips and many local ones onto I-15, increasing congestion. The practical maximum number of lanes of a freeway in each direction is six, or a total of twelve lanes. Beyond six, drivers encounter great difficulties maneuvering to exits and shoulders. By 2050, even at twelve lanes, anticipated growth reduces service levels on the freeway to highly congested during peak hours. The areas between Springville and Provo, Lindon, and the Point of the Mountain form geographic chokepoints in the system. These areas will experience the worst congestion.

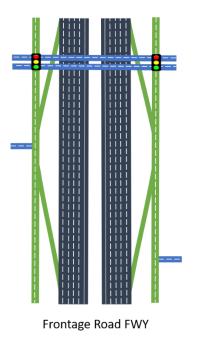
Options for the I-15 corridor include widening the freeway south of Orem to twelve lanes; building a frontage road system or collector-distributor system on each side of the freeway or adding divided

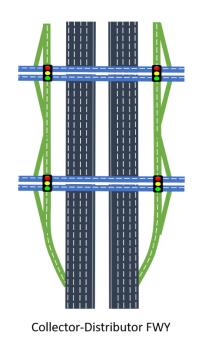


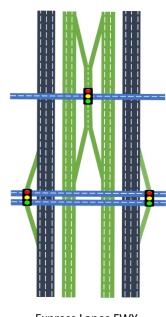


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express lanes road down the middle of the freeway. Another option would be to construct a parallel facility along the corridor, like Legacy Parkway in Davis County. Each of these different solutions has benefits and impacts. All require additional study and collaboration with the various transportation stakeholders along the corridor.







Express Lanes FWY

TransPlan50 proposes that improvements to I-15 occur sometime between 2031 and 2040, phase two in the plan. It does not identify a specific solution; instead, it recommends that a future study should be conducted to determine preferred solutions. Solutions could be one of the four options mentioned, a combination of them, or something completely different. I-15 is the lifeline and backbone of Utah County traffic and its economy. Improvements to I-15 as creating a grid system of collector and arterial roads as well as adequately spaced new freeways, as discussed in the grid discussion in the previous section of this document, will help better handle future traffic volumes and spread traffic more evenly throughout the valley.



Mountainview, Lehi 2100 North, and SR-73 Freeways: The Mountainview Freeway and Lehi 2100 North Freeway were included in the past regional transportation plan, TransPlan40. They handle traffic and proposed growth in the far north of the county traversing the Point of the Mountain. With Utah County growing to 1.3 million in 2050 and 1.6 million by 2065, a more connected freeway network is required. TransPlan50

proposes multiple new freeways creating the five-mile spacing of a proper grid network.

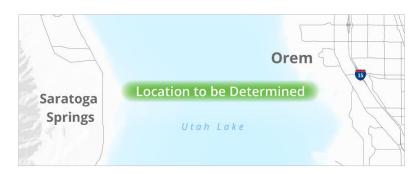
The extension of the planned
Mountainview Freeway south through
Saratoga Springs, as well as converting
SR-73 through Eagle Mountain into a
freeway are included TransPlan50. Narrow
strips of land connect these communities,
making it difficult for a grid system,
requiring larger facilities to take their



place. Studies for both corridors have been completed, and the needed corridor preservation is ongoing. Around 2035, many of the I-15 corridor cities between Provo and American Fork are approaching housing capacity, leaving infill and higher density to fuel their growth. Most growth is forecast in the northwest and southern areas of the county.

**Utah Lake Bridge:** Utah County is home to Utah Lake, a natural lake large in surface area but shallow, with an average depth of 10.5 feet. This body of water complicates creating the freeway grid. For many decades, a highway over the lake has been

proposed, but the need had not been demonstrated until now. TransPlan50 proposes that the bridge be built after 2040. The location of the bridge/freeway, as shown in the plan, needs further study





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but is warranted based on projected traffic flows. One concern is that the freeway connection to I-15 not exacerbate congestion in already congested areas. The farther south toward Provo the eastern connection can go, the better, as traffic volumes are more easily dispersed. Design and construction of a bridge may prove challenging. Can or should an earthen causeway be built? With the sediment in the lake, can a bridge be constructed? Could a floating bridge work? All these and more will be studied with future work.

South Lehi Freeway: Lehi sits at the confluence of the two metropolitan areas, Provo/Orem and Salt Lake City. It has become an economic powerhouse with the Silicon Slopes employment center and I-15. North/south traffic between the two metro areas, as well as east/west traffic connecting the high growth areas of Cedar Valley to Utah Valley, make creating the right regional transportation



network paramount. At Lehi, there are distinct splits in the traffic flow. Today and in the future, traffic from Cedar Valley is split about 50/50, half traveling north into Salt Lake County and half south toward Provo. Lehi 2100 North Freeway and Mountain View Freeway handle the northern movement, but freeway volumes south of Lehi Main ST are projected. The current and planned arterials of Pioneer Crossing and Pony Express Parkway cannot accommodate these volumes. By 2050, Pioneer Crossing has over 50,000 trips a day. To put this in perspective, Bangerter Highway in Salt Lake County currently has 45,000 trips a day and is currently being converted into a grade-separated freeway with interchanges. The growth in the area and potential environmental and social impacts make widening the current corridors or creating a new corridor challenging. TransPlan50 proposes a freeway through this area. Further study is needed with extensive work with the stakeholders and citizens in the area.



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US-6 Freeway: US-6 through Spanish
Fork is proposed to be grade separated in
the future. Today there is more traffic
entering and exiting I-15 at US-6, at
freeway volumes, than there is continuing
south on I-15 toward Payson. Many
alternatives have been studied to by-pass
this corridor, but with its direct access to
Spanish Fork Canyon and on to Denver, as



well as the high residential and commercial growth potential along the corridor, necessitate the planned improvements. Preliminary design work has shown a narrow freeway design with frontage roads to minimize disruption to surrounding businesses.









# TransPlan50 2019-2050 REGIONAL TRANSPORTATION PLAN

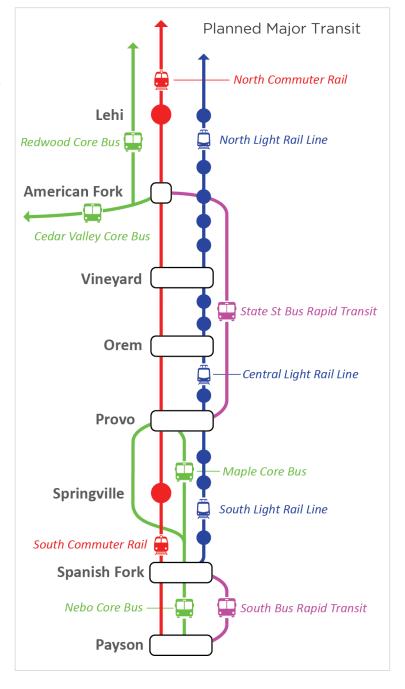




#### GOAL 3 CREATE A ROBUST REGIONAL TRANSIT NETWORK

Currently, transit in Utah County is evolving. The bus system currently serves with both coverage and frequency in the Provo and Orem areas with less service in the north and south county. Low-density residential in the north and south areas and a lack of clustered job centers makes transit less efficient and underutilized. Future growth plans, especially in the north and west areas of the county, should provide for better efficiencies.

TransPlan50 shows two scenarios for transit, when service is warranted and when, with current funding projections, can service be added. The Utah State Legislature created a new funding account for transit called the Transit Transportation Investment Fund in 2018. This is the first time in Utah history that the state has allocated funding toward transit (all county and federal funding in the past). The only other funding



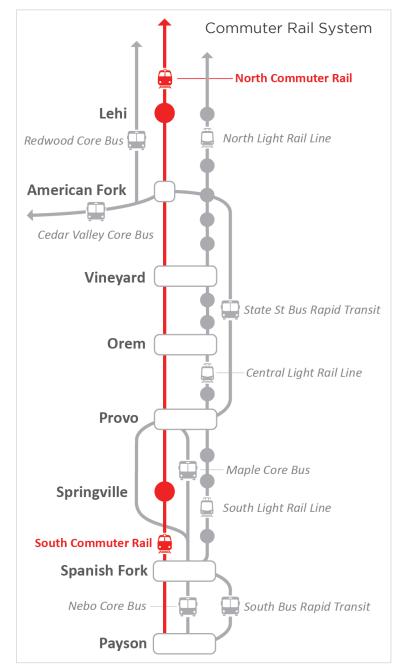
sources include federal funds, local county funds, and fare collection. Even with this additional funding an assuming for federal and county funds to trend upward, funding for major rail expansion into Utah County is lacking. As the county continues

to grow and densify, further discussion of how to fund a regional rail system will need to occur.

#### Commuter Rail: The

FrontRunner Commuter Rail line was constructed initially between Ogden and Salt Lake City and opened for passenger service in 2008. Service between Salt Lake City and Provo later opened 2012. This 40-mile rail extension has added a secure transit backbone to Utah County. It currently carries over 10,000 riders a day and a half hour service most of the day.

TransPlan50 proposes constructing a double track system (currently most sections are single track) to allow for more frequent service. The plan also proposes an expansion of the system to the south county with stops in Springville, Spanish Fork, and Payson. A new station is proposed in Vineyard and is currently funded and planned to be opened in 2020. Another proposal in the future is



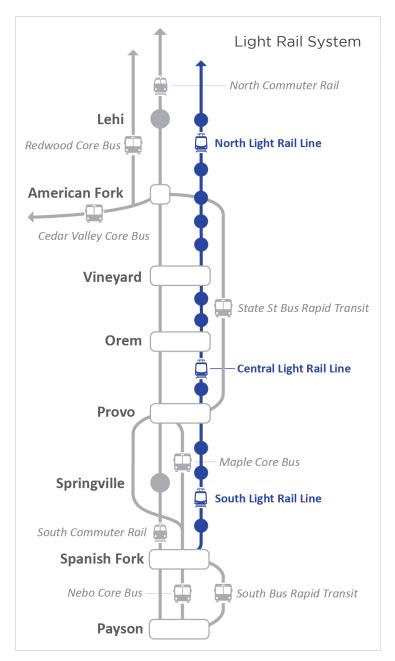
electrifying the system and retiring the diesel trains. Electrification is cleaner for the environment, and the trains are faster, improving efficiency.



2019-2050 REGIONAL TRANSPORTATION PLAN

Light Rail: The Trax Light Rail
System in Salt Lake County is a
success, carrying over 100,000
people per day. Rail service can
work well for Utah County with its
linear development patterns (the
narrow-developed area between
lake and mountains) and planned
denser population and job centers.
In most cases, light rail can evolve
from a bus-type service converting
over to rail in the future.

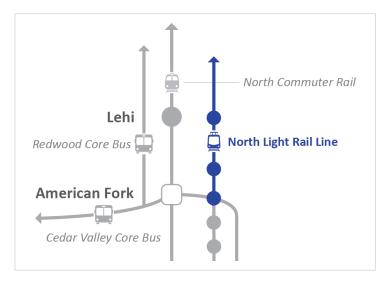
Of note is the difference between light rail and commuter rail service. Both would parallel each other in Orem, both services carry different types of trips. Commuter rail is for long-distance trips such as Provo to Salt Lake City. Commuter rail stops every five to 7 miles taking longer to stop and start than light rail. Light rail is for shorter intra-county trips such as Orem to Lehi. It has frequent stops (usually a mile apart) and is quicker at stopping and starting. TransPlan50 proposes three light rail lines.



**North Light Rail Line - Lehi to American Fork**: This line uses a mixture of current rail and new connecting the high growth and high use areas the north and west county

and Thanksgiving Point into Salt Lake County. This route would be an extension of the current Blue Line that ends in Draper.

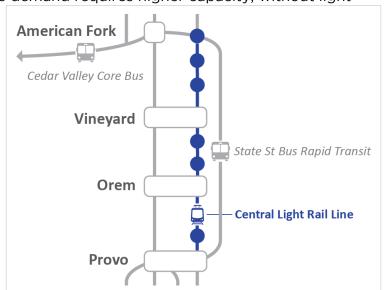
There are proposals in Salt Lake
County to realign the Draper
portion of the Blue Line from the
east side of the city to the west
closer to I-15, connecting to the
future prison site development, and
back across the freeway near the



county line. Further study will also be done on its alignment through Orem near UVU. This line is warranted within the next ten years, current funding limitations limit its construction out 20 years, and only from Draper to Lehi.

**Central Light Rail Line - American Fork to Orem:** This line would extent light rail southward to Provo, converting the current Utah Valley Express (UVX) bus rapid transit line into light rail. The only deviation from the current UVX line staying on University Avenue rather than diverting to 900 E. Because BRT buses have lower capacity than a light rail, and future demand requires higher capacity, without light

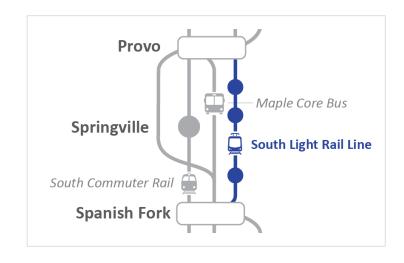
rail as proposed north and south of UVX, there would be a gap in the system. Further study will determine if the Blue Line will extend to Orem or if a break in the line (transfer from the Blue to a new line) will occur. This project is warranted in the next 20 years, although funding beyond today's assumptions would have to be identified.



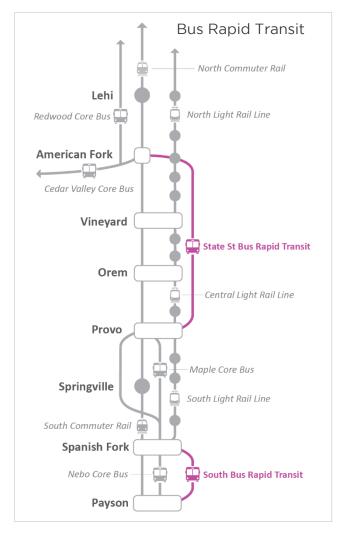


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South Light Rail Line - Provo to
Spanish Fork: Nearing the end of
the plan, light rail is warranted
between Provo and Spanish Fork.
A specific alignment is not
proposed in the plan and will
require further study. Though
warranted by 2050, current
funding assumptions do not
account for constructing this line
due to lack of funding.



**Bus Rapid Transit:** The Utah Valley Express or UVX is a bus rapid transit (BRT) system completed in 2018 connecting the most densely populated areas of Provo and Orem. The system opened successfully with average daily ridership near 10,000 surpassing by three times what the previous bus route did. The system has dedicated stations, high frequency of service, dedicated bus lanes, and large accordion-style buses with high capacity. Part of this success is having the density of two universities on the line and offering free transit passes to students and faculty. A grant has allowed for the service to be free to all riders for the first three years, with discussions of extending this.

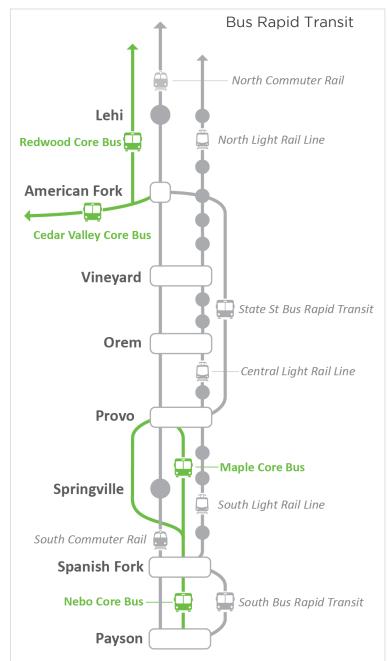


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Two bus rapid transit lines are proposed within TransPlan50. Most likely, the next

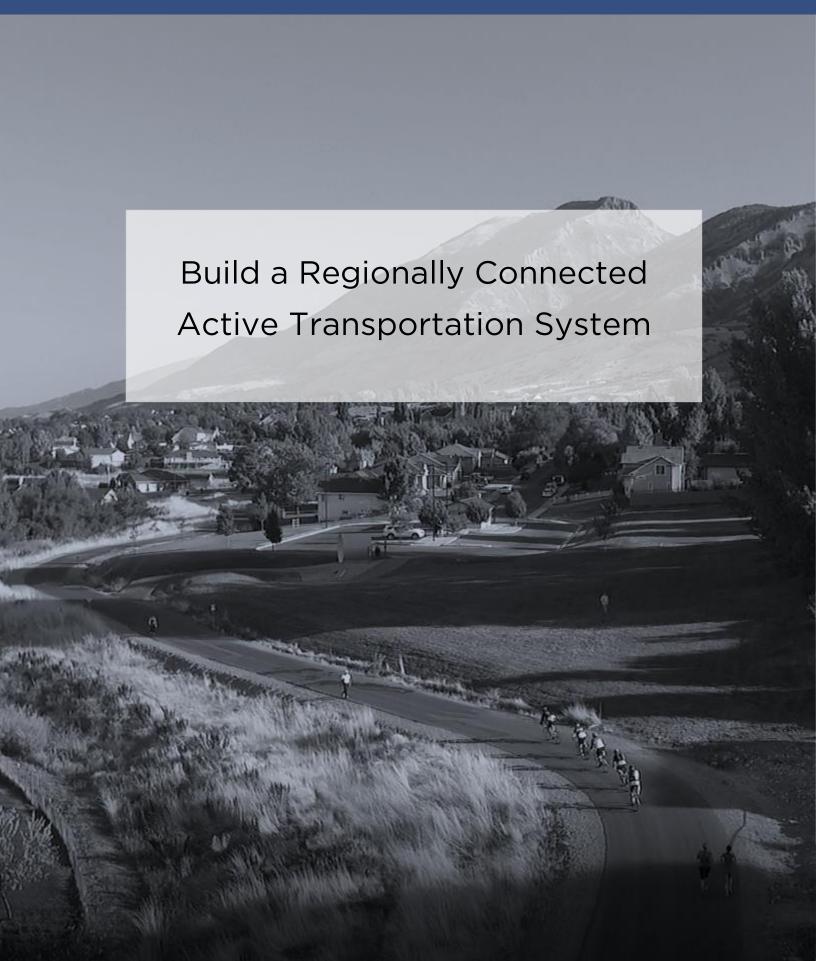
corridor to have BRT would be the State Street corridor between Provo and the north county. Other planned service includes a line between Payson and Spanish Fork tying into the proposed South Light Rail Line between Orem and Spanish Fork. Most of the light rail lines proposed in the plan could potentially start off as BRT.

Core Bus Routes: Core bus routes act similarly to bus rapid transit in frequency but generally share lanes with vehicle traffic and do not have dedicated stations. Routes are planned between Eagle Mountain and American Fork (Cedar Valley CB), Saratoga Springs into Salt Lake County (Redwood CB), Spanish Fork to Provo (Maple CB), and Payson to Provo (Nebo CB). These types of routes could be the pre-cursor to bus rapid transit or light rail service.





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Utah County has over 200 miles of paved multi-use trails and 50 miles of regional bike facilities. Utah County leaders have placed a high emphasis on Active Transportation. Many regional facilities have been funded and TransPlan50 plans for many more. Because of our leadership, Utah County is well ahead of Salt Lake County in Active Transportation facilities.

#### **BUILD A REGIONALLY CONNECTED ACTIVE TRANSPORTATION SYSTEM**

Utah County leaders have acknowledged non-motorized transportation as an integral part of improving air quality, reducing congestion, and reducing travel costs. While major highway and transit facility construction consumes the vast majority of transportation dollars, bicycle and pedestrian access are low-cost and low-impact improvements to a truly multi-modal transportation system. Initial construction costs are low, especially where facilities are included in the design and construction of highway projects, typically less than 5% of the roadway project costs. The goal of the ped/bike system is to reduce vehicle trips and mitigate traffic congestion. During 2014, the MPO documented 2.2 million user trips on nine regional urban trails.

As Utah County continues to grow and urbanize, the need and demand for multi-use paths, neighborhood connections, on-street bike lanes, sidewalks, and pedestrian-friendly development increases. Walking and biking are viable alternatives to driving for short trips, typically under two miles. For longer trips, connections to transit are vital.

TransPlan50 identifies a network that connects population and employment centers, based on projected densities through 2050. One tool that planners have to help locate where regional trails are needed is the Active Transportation Latent Demand Model. This model uses population and employment densities, land use, demographic indicators, and proximity to schools, parks, transit and existing facilities to show where higher ped/bike uses are anticipated. Active Transportation projects proposed in TransPlan50 are based mainly on adopted municipal bike/ped plans.

Regional Trails: The Murdock
Canal Trail spans over 20 miles
from Lehi to Orem, it is over 15
feet wide, and has only a slight
elevation gain. It is wildly popular
with between 3000 and 5000
persons using it per day. Other
trails that make up our regional
backbone include:

- Provo River Parkway Rail traversing Provo from Utah Lake up into Provo Canyon
- The College Connector Trail along University Parkway
- Mapleton Lateral Canal Trail
- Spanish Fork River Trail
- Utah Lakeshore Trail
- Historic Southern Rail Trail in Lehi
- Jordan River Trail connecting into Salt Lake County
- Pony Express Trail connecting Eagle Mountain and Saratoga Springs
- Lindon Heritage Trail connecting the Bonneville Shoreline Trail in the eastern foothills to Utah Lake
- SR 52 Trail connecting Provo Canyon to Geneva Road
- Provo Westside Connector Trail
- Hobble Creek Trail, Springville

These trails constitute, along with multiple standard and buffered bike lanes, the primary backbone for the valley active transportation system totaling over 80 miles. In 2018 the MPO documented 1.6 million user trips on this backbone system. The MPO has funded pedestrian/ bicycle plans for many jurisdictions. These plans help to











2019-2050 REGIONAL TRANSPORTATION PLAN

develop an interconnected network of both on-street and off-road facilities to enhance highway and transit.

**Next Steps:** Improvements to the on-street Active Transportation system such as buffered and protected bike lanes are underway and are planned to continue. These attract a wider audience of commuter and casual riders as users feel more protected and comfortable.

Active Transportation and Transit complement and reinforce each other. Safe and inviting bicycle and pedestrian facilities that connect directly to transit increases the geographic range of biking and walking from local, under 1-mile trips, out to the reach of the transit system. Commuting without a car from home in Provo to work in downtown Salt Lake City becomes convenient and doable.

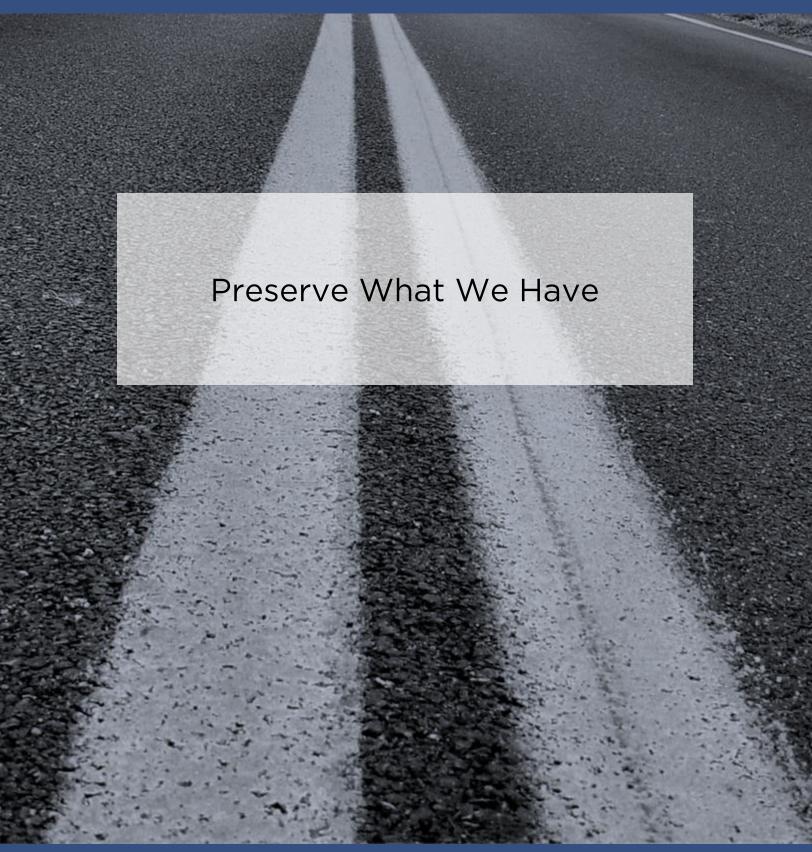
Staff conducted a network analysis of all the stations for FrontRunner and for UVX to understand where connections and gaps between AT facilities and fixed transit centers existed. Filling those gaps has become a significant component of TransPlan50 project selection.

Also, developing technologies and businesses centered on 'Micro-Mobility' such as shared electric scooters and bicycles may significantly increase the market for active transportation, especially when paired with transit. It is vital that both systems design for flexibility in accommodating these and others, not yet understood opportunities.



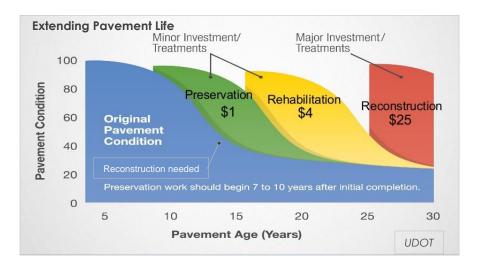


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#### **Good Roads Cost Less**

UDOT manages and preserves over 16,000 highway lane miles across the state, from multi-lane urban interstates to rural two-lane roads. State roads comprise most of the major highways and carry about 75 percent of all traffic. UDOT's philosophy, "Good Roads Cost Less," means that lower cost preservation and rehabilitation projects in the near-term delay more costly reconstruction. However, there is a deficit statewide in preservation funding. It is estimated that UDOT will have the adequate funding needed to preserve roads within Utah County, but will require an additional \$93 million annually for statewide preservation needs. The local jurisdictions of Utah County require \$6 million more annually to keep up on preservation needs, whereas the state needs \$112 million more annually.



#### **Highway System Preservation**

By the year 2050, the grid network of highways, transit, pedestrian, and bikeways will evolve into an urban transportation network. Proper maintenance and preservation can maximize the useful life and effectiveness of the transportation infrastructure. Employing travel demand techniques like ridesharing, telecommuting, and active transportation limits wear and tear by reducing the number of vehicles using the system.

Upkeep of highway pavement provides public infrastructure that is efficient and long-lasting. One of the best ways to accomplish this is through a Pavement





Management program. Maintaining pavement on an extensive regional highway system involves complex decisions about when to schedule resurfacing projects or when to apply other treatments to keep the highway performing, UDOT and most local jurisdictions employ many techniques to maintain their roadways in good condition, and such efforts represent one of the most substantial investments the transportation system.

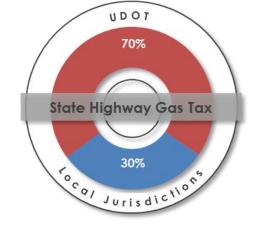
#### **Local Road Preservation**

Preservation needs for local roads are harder to predict due to varying local needs, priorities, and many of the smaller localities not having the staff or means to collect data. The Utah Foundation surveyed Utah's cities and counties to gain a better understanding of local roads, and what these entities would like to see in their transportation network in the future. Many respondents expressed a desire to increase funding to achieve better maintenance and build additional features for pedestrian and bike users. Of the survey's findings, common threads emerged regarding local roads and their contribution to the quality of life. Adequate road capacity to handle traffic demands in urban areas was cited as a critical component of economic development, while better maintenance was a top reason for cost savings among all survey respondents.

Today 30% of the state gas tax goes to cities and counties for road maintenance. It is estimated that this tax covers only a third of local maintenance needs. This means the remaining funds must be made up through city general funds or other means, or

that projects are delayed.

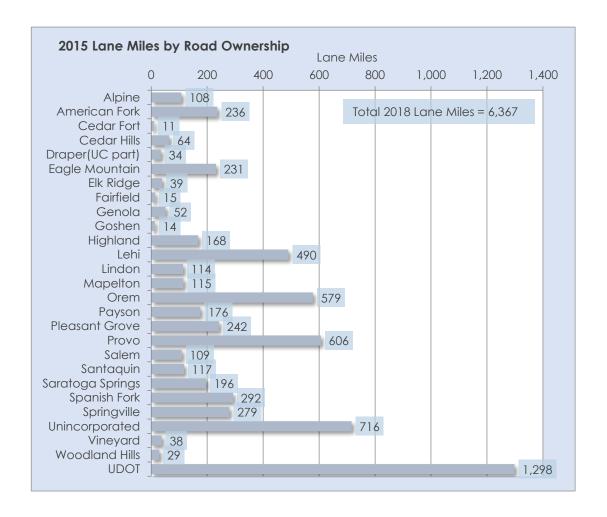
Over 75 percent of Utah roads are under local jurisdiction, and nearly 25 percent of vehicle miles traveled are on local roads, connecting Utahns with their communities, the region, and the interstate highway system. Local connections provide a framework on which cities and counties grow – with roadways being one of the longest lasting pieces of infrastructure that a community will build.



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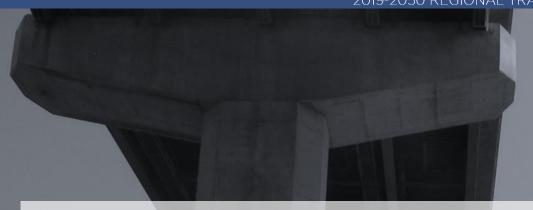
### **Area Highway Network**

There are over 6,000 miles of roads in Utah County. Different routes serve different functions. Most travelers start a trip on a local street and work up to a collector road, to an arterial highway, on to a freeway. Local roads serve access to property and are usually the slower, less used roads. Freeways and arterials have limited access, which helps preserve higher speeds and traffic flow. Municipalities start with a grid network of local roads; the county and state highways create regional connections. The new projects in the last five years have begun the transformation of the regional transportation system from a rural to an urban network. There is still much to do, especially in the far north and south as they develop. Moreover, it all ties into the I-15 Freeway, like tributaries flowing into a large river. Forecasted population growth will place enormous demands on the transportation system.



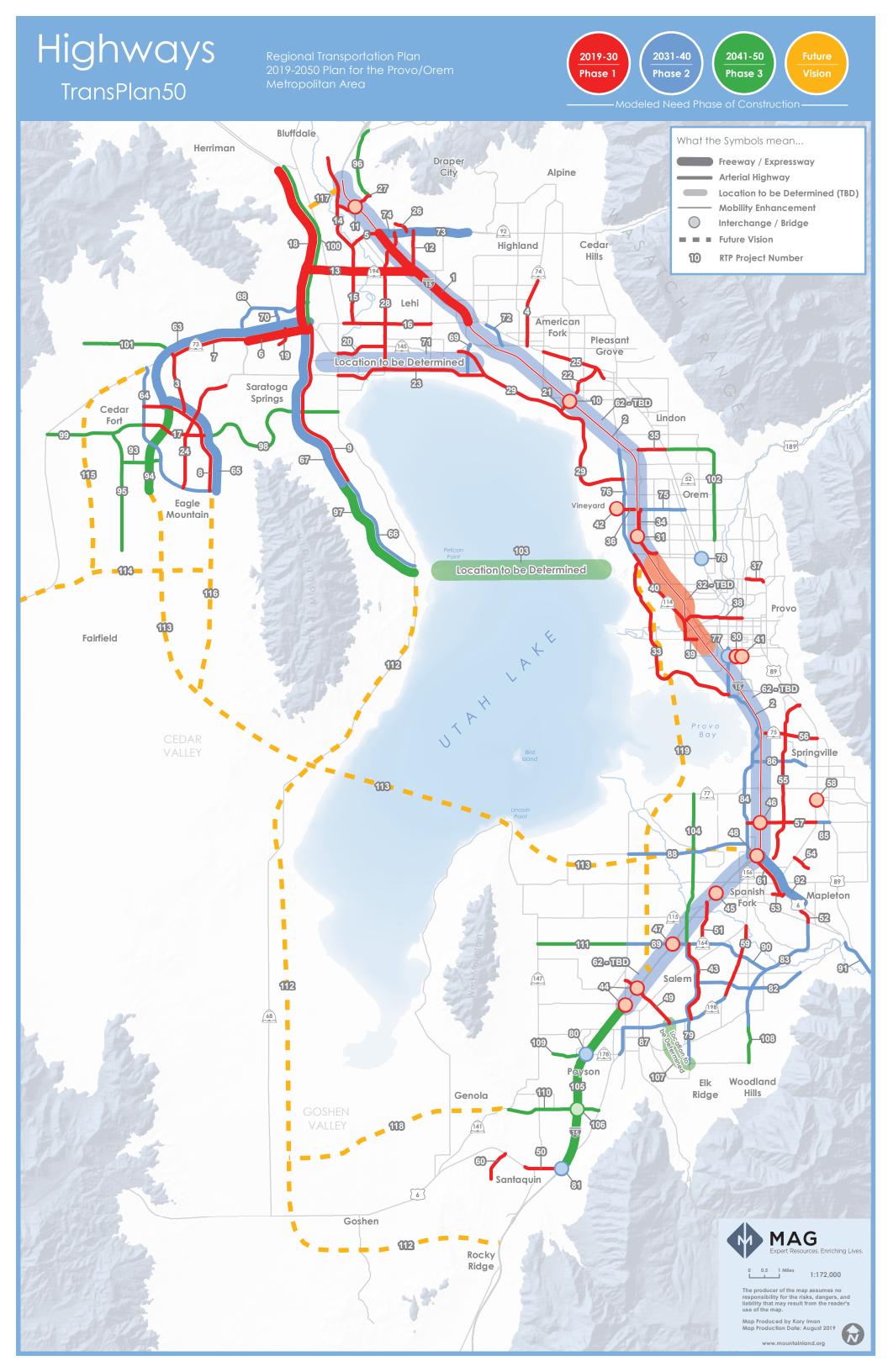


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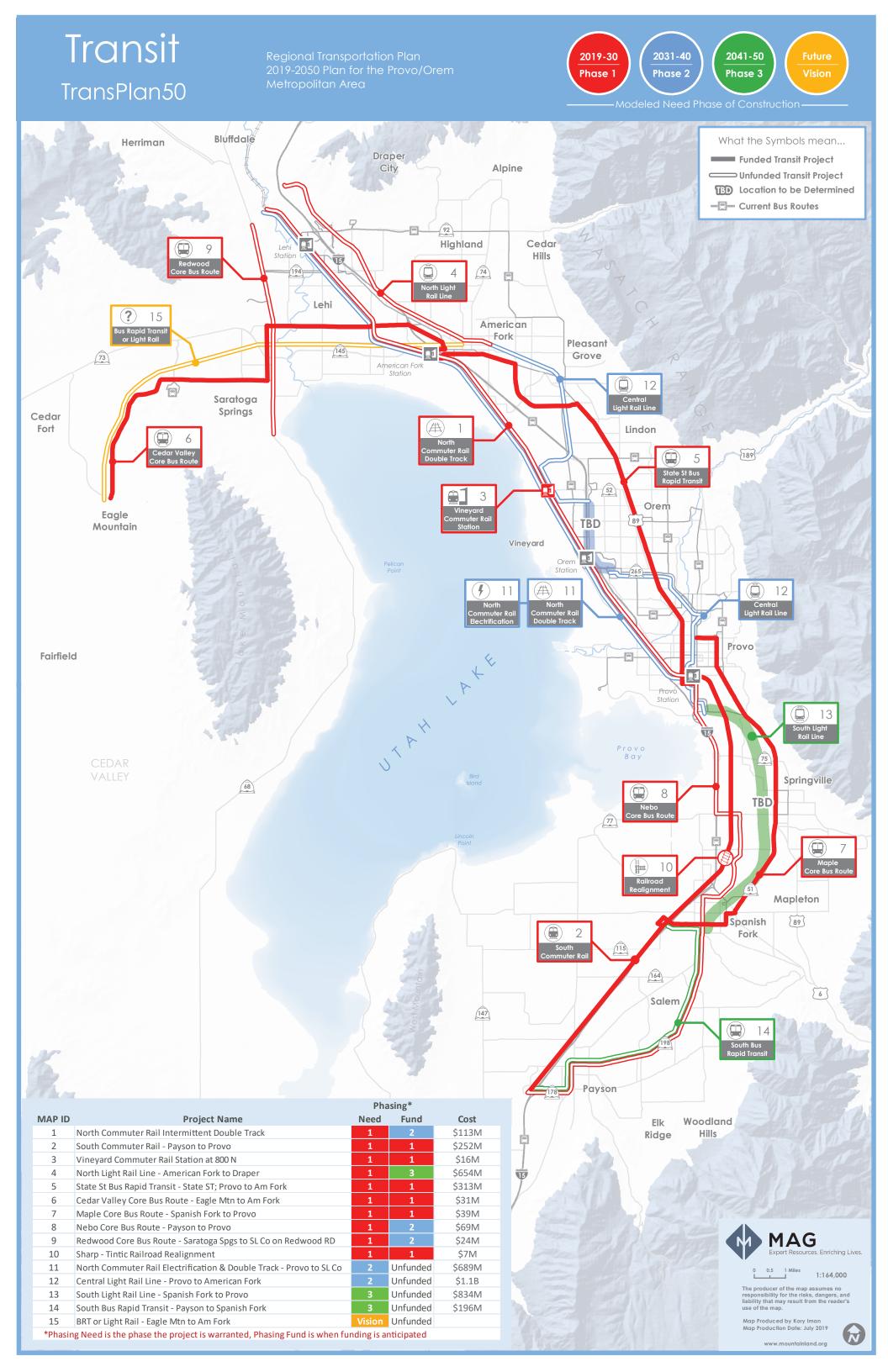


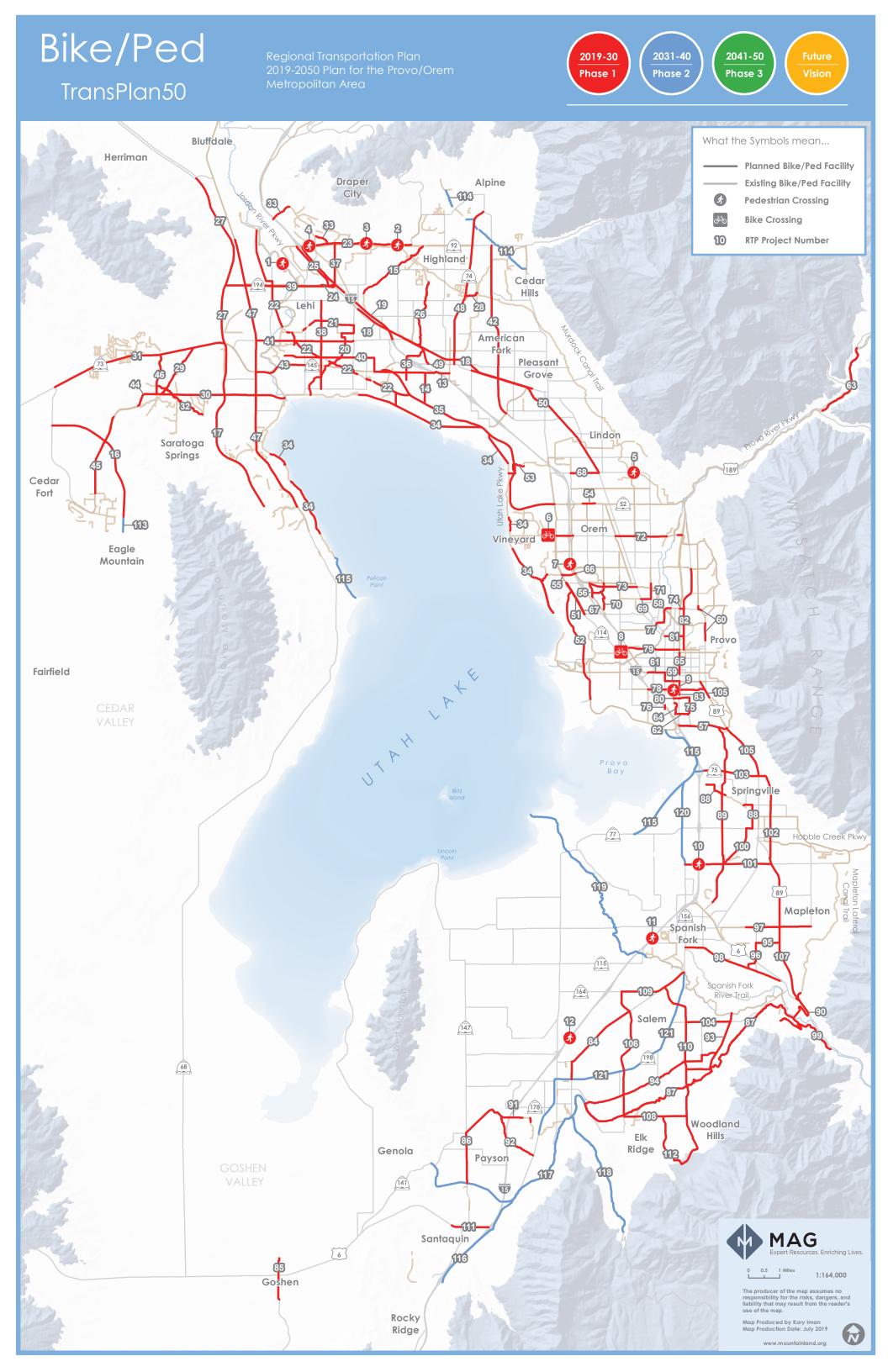
Needed Highway, Transit, and Active Transportation Projects





Map ID	Project Name	Cost	Map ID	Project Name	Cost	Map ID	Project Name	Cost
	Phase 1: 2019-2030		South	n Projects		83	Spanish Fork 2300 E/Nebo Belt RD Spanish Fork 2550 E to Salem 600 S	\$37.9M
				Elk Ridge DR			New 5 lane road Spanish Fork Main ST/Provo 500 W	
Coun	ty-wide Projects		43	UC 8000 S to SR-198 New 3 lane road	\$12.3M	84	Spanish Fork 1400 N to Provo 300 S New and widen to 5 lanes	\$56.7M
1	I-15 Freeway Timpanogos HWY to Lehi Main ST	\$415M	44	I-15/Payson Main ST/Nebo Belt RD Interchange	\$96M	85	Springville 1600 S SR-51 to US-89	\$39.8M
	Reconstruction and Widen  I-15 Freeway			New interchange I-15/Spanish Fork Center ST Interchange	4		New 5 lane road  Springville 500 N	4
2	US-6 to Salt Lake County Operational Improvments	\$84M	45	New interchange	\$60M	86	Springville 2250 W to Springville 400 W New and widen to 3 lanes SR-198	\$25.5M
North	Projects		46	I-15/Springville 1600 S Interchange New interchange	\$50M	87	Salem 400 N to Payson 800 S Widen to 5 lanes	\$19M
3	Airport RD Cory Wride HWY to East Expressway	\$15.3M	47	I-15/UC 8000 S Interchange Reconstruction	\$40M	88	UC 5600 S/Spanish Fork 1900 N UC 3200 W to Spanish Fork Main ST	\$20.2M
_	New 5 lane road  American Fork 100 E/Alpine HWY	\$15.2M	48	I-15/US6 Interchange	\$18M	89	New and widen to 3 lanes UC 8000 S	\$7.5M
4	State ST to Canal BLVD, Highland Widen to 5 lanes Clubhouse DR	\$15.2101	40	Interchange improvements  Nebo Belt RD	\$10IVI	.5	I-15 to UC 3200 W Widen to 5 lanes UC 8000 S/Woodland Hills DR	\$7.5IVI
5	I-15 to Lehi 3600 W New and widen to 5 lanes	\$29.6M	49	Payson Main ST to SR-198 New 5 Iane road	\$62.5M	90	I-15 to Nebo Belt RD New and widen to 5 lanes	\$21M
6	Cory Wride FWY Mountain View Corridor to Ranches PKWY	\$400M	50	Santaquin Main ST US-6 I-15 to Santaquin 500 W	\$9.9M	91	US-6 Powerhouse RD up canyon	\$16.9M
7	New freeway, frontage roads  Cory Wride HWY  Ranches PKWY to Airport RD	\$6.4M	51	Widen to 5 Ianes  Spanish Fork 1550 W  UC 8000 S to I-15	\$18.7M	92	Widen to 5 lanes US-6 FWY I-15 to Spanish Fork 2300 E	\$93.6M
	Widen to 5 lanes <b>East Expressway</b>			New and widen to 3 lanes Spanish Fork 2000 E			Convert to freeway	
8	Eagle Mountain BLVD to Eagle Mountain BLVD New 3 lane road	\$26.6M	52	US-6 to Canyon RD SR-198 \$7.1M  New 5 lane road  Contribute South a ST			Phase 3: 2041-2050	
9	Foothill BLVD Cory Wride FWY to Stillwater DR New 3 lane road	\$46M	53	Spanish Fork Center ST Spanish Fork 900 E to US-6 Widen Fork 5 lanes	\$4.1M	North	Projects	
10	I-15/PG BLVD Interchange	\$85M	54	Spanish Fork PKWY Mapleton Slant RD to SR-51	\$0.9M	93	Aviator AVE Eagle Mountain BLVD to Cedar Fort RD	\$5.1M
	Interchange improvements  I-15/Traverse Mtn BLVD Interchange			New 3 lane road  Springville 1200 W/Canyon Creek PKWY			New 3 lane road Cedar Valley FWY	
11	New Interchange-Frontage Roads  Lehi 1200 W	\$146.9M	55	Market Place DR to US-89  New 5 lane road  Springwill 1400 N SP 75	\$81.7M	94	East Expressway to UC 4000 N New freeway	\$103.2M
12	I-15 to Timpanogos HWY Widen to 5 lanes	\$6.6M	56	Springville 1400 N SR-75 I-15 to Springville Main ST US-89 Widen to 5 lanes	\$49.3M	95	Central Valley RD UC 2400 N to Mid Valley RD New 3 lane road	\$10.6M
13	<b>Lehi 2100 N FWY SR-194</b> Mountain View Corridor to I-15	\$311M	57	Springville 1600 S/Spanish Fork 2700 N Spanish Fork Main ST to SR-51	\$42.9M	96	<b>Draper Gravel Pit RD</b> Traverse Mtn BLVD to Salt Lake County	\$4.4M
	New freeway Lehi 3600 W/Point of			Widen to 5 lanes			New 5 lane road  Foothill FWY	
14	<b>the Mountain Connector</b> Lehi 2600 N to Salt Lake County New 5 lane road	\$32.8M	58	Springville Main ST/US-89 Interchange Reconstruction	\$18M	97	Stillwater DR to Redwood RD Convert to freeway	\$175.3M
15	Lehi 3600 West Lehi Main ST to Clubhouse DR	\$16M	59	SR-198 Arrowhead Trail to Salem 400 N	\$17.8M	98	Hidden Valley RD East Expressway to Redwood RD	\$34.8M
	New and widen to 5 lanes Lehi Main ST			Widen to 5 lanes Summit Ridge PKWY			New 5 lane road  Mid Valley RD	,,,,,
16	Commerce DR to Lehi 500 W Widen to 5 lanes	\$30.5M	60	US-6 to Stone Hollow DR New 3 lane road	\$6.1M	99	Eagle Mountain BLVD to Cedar Fort RD New 3 Iane road	\$6.8M
17	Mid Valley RD Eagle Mountain BLVD to East Expressway New 3 Iane road	\$4.4M	61	US-6 I-15 to Spanish Fork Center ST Widen to 7 lanes	\$5.5M	100	Mountain View FWY Cory Wride HWY to Porter Rockwell Pkwy Widen to 8 Lanes	\$74.4M
18	Mountain View FWY Cory Wride HWY to Porter Rockwell PKWY	\$250.9M		Phase 2: 2031-2040		101	UC 8000 N Cedar Fort RD to UC 17200 W	\$19.5M
	New freeway  Mt. Saratoga BLVD						New 3 lane road	
19	Talus Ridge RD to Cory Wride FWY New 3 lane road Pioneer Crossing	\$2.6M	Coun	ty-wide Projects		Centr	al Projects Orem 800 E/Orem 1600 N	
20	Redwood RD to Lehi 2300 W Widen to 6 lanes	\$5.9M	62	Payson to Salt Lake County Add capacity (location TBD)	\$1.8B	102	Orem State ST to Orem 800 S Widen to 5 lanes	\$42.9M
21	Pleasant Grove BLVD Vineyard Connector to I-15	\$8.6M	North	Projects		103	<b>Utah Lake Bridge</b> Redwood RD to I-15	\$844.6M
22	Widen to 5 lanes Pleasant Grove BLVD	\$2.3M	63	Cory Wride FWY	\$86.4M	South	New freeway bridge (location TBD)  Projects	
	North County BLVD to State ST Widen to 5 Ianes Pony Express PKWY	\$2.5IVI	05	Ranches PKWY to East Expressway New freeway Eagle Mountain BLVD	\$60.4IVI	300011	Elk Ridge DR/UC 1450 W	
23	Redwood RD to Vineyard Connector New and widen to 5 lanes	\$107.5M	64	SR-73 to East Expressway Widen to 5 lanes	\$11.6M	104	UC 8000 S to UC 4000 S New 3 lane road	\$50.5M
24	Pony Express PKWY Sandpiper RD to Eagle Mountain BLVD Widen to 5 lanes	\$10.1M	65	East Expressway Cedar Valley FWY to Eagle Mountain BLVD Widen to 5 lanes	\$9.8M	105	I-15 Freeway Payson Main ST to Santaquin Main ST Widen to 6 lanes	\$111.2M
25	State ST American Fork 500 W to Pleasant Grove 200 S	\$19.8M	66	Foothill BLVD Stillwater DR to Redwood RD	\$48.5M	106	I-15/UC 12400 S Interchange	\$40M
	Widen to 7 lanes Traverse Mtn BLVD			New 4 lane road Foothill FWY			Nebo Belt RD	
26	Timpanogos HWY to Triumph BLVD New 3 lane road Traverse Mtn BLVD	\$4M	67	Cory Wride FWY to Stillwater DR New freeway Harvest Hills BLVD	\$240.4M	107	SR-198 to Elk Ridge DR New 3 lane road (location TBD)  Nebo Belt RD	\$10.9M
27	West Point Connector to East Point Connecotr New 5 lane road	\$19.8M	68	Sunflower WAY to Spring Run DR New 3 lane road	\$7.2M	108	Salem 600 S to Woodland Hills DR New 3 lane road	\$8.6M
28	<b>Triumph BLDV/Lehi 2300 W</b> Timpanogos HWY to Lehi 1900 S	\$24.3M	69	Mill Pond RD Pioneer Crossing to Pony Express PKWY	\$3M	109	<b>Payson 800 S</b> Payson 1700 W to UC 5200 W	\$24.4M
20	New and widen to 5 lanes  Vineyard Connector	\$83M	70	New and widen to 3 lanes  Mt. Saratoga BLVD	\$2.2M	110	New 3 lane road UC 12400 S	\$29.6M
29	Geneva RD to Pioneer Crossing New and widen to 5 lanes	۱۷۱وی	70	Cory Wride FWY to Harvest Hills BLVD New 3 lane road North Lakeshore FWY	۷۵.۵۱۷۱	110	SR-198 to Mountain RD New and widen to 5 lanes UC 8000 S	γευ.UIVI
Centr	al Projects		71	Foothill FWY to I-15 New freeway (location TBD)	\$540.6M	111	UC 3200 W to UC 5600 W New 3 lane road	\$26.5M
30	Freedom BLVD Provo 600 S RR Crossing	\$22M	72	State ST American Fork Main ST to American Fork 900 W	\$3.5M		Vision Projects	
31	New bridge I-15/Orem 800 S Interchange	\$130M	72	Widen to 6 lanes Timpanogos HWY Express Lanes Triumph BLVD to Lehi 1200 E	\$32.6M	Count	y-wide Projects	
-51	New Interchange	PLOUIVI		Widen to 4 lanes Timpanogos HWY Express Lanes	ا۱۱۷ کی	Count	, , , , , , , , , , , , , , , , , , ,	
32	I-15 Improvements Improvements to Freeway (location TBD)	\$130M	74	I-15 to Triumph BLVD New connection to I-15	\$35.4M	112	Saratoga Springs to Santaquin Proposed Freeway	
33	Lakeview PKWY/Geneva RD Provo 500 W to University PKWY	\$42M	Centi	al Projects		113	<b>US-6 to Cedar Valley</b> Proposed Freeway	
34	New and widen to 5 lanes  Orem 1200 W  Sandhill RD to Orem Center ST	\$8.9M	75	Orem Center ST Orem 1200 W to State ST	\$10.8M	North	Projects	
	Widen to 5 lanes Orem 1600 N			Widen to 7 lanes  Orem Geneva RD			Cedar Valley to Tooele County	
35	Orem 1200 W to State ST Widen to 5 lanes	\$20.5M	76	Orem 1600 N to University PKWY Widen to 7 Lanes	\$14.7M	114	Proposed Highway	
36	Orem Center ST I-15 to Geneva RD Widen to 5 Ianes	\$6.4M	77	Provo 500 W Provo 600 S RR Crossing New bridge	\$22M	115	<b>Cedar Valley West Expressway</b> Proposed Expressway	
37	<b>Provo 2230 N</b> Provo Canyon RD to Stadium AVE	\$6M	78	State ST/University PKWY Bridge New bridge	\$46.4M	116	East Expressway Proposed Expressway	
	Widen to 5 lanes Provo 820 N	¢47.0°	Sec. 11	,			Proposed Expressway  Point of the Mountain Connector	
38	Geneva RD to University AVE Widen to 5 lanes Provo Center ST	\$47.8M	South	Projects  Elk Ridge DR		117	Proposed Freeway	
39	Geneva RD to Provo 1600 W Widen to 5 lanes	\$8.5M	79	UC 11200 S to UC 8000 S Widen to 5 lanes	\$8.6M	South	Projects	
40	Provo Geneva RD Provo Center ST to Lakeview PKWY	\$71.2M	80	I-15/Payson 800 S Interchange Reconstruction	\$40M	118	Santaquin to Elberta Proposed Freeway	
41	Widen to 5 lanes University AVE/Provo 600 S	\$27.5M	81	I-15/Santaquin Main ST Interchange	\$40M	119	South Wasatch Corridor Proposed Provo Bay crossing between Provo and	
	Replace UPRR Bridge  Vineyard Center ST RR Bridge	۱۷۱۷، دے۔	OT OT	Reconstruction Salem 760 N			Payson	
42	Vineyard Mill RD to Vineyard RD New bridge	\$8M	82	Elk Ridge DR to Powerhouse RD New and widen to 3 lanes	\$9M			





ID	Project Name	Associated with RTP Road Project	Cost	Map ID	Project Name	Associated with RTP Road Project	Cos
	Phase 1: 2019 - 2030				Central Projects		
	County-Wide Projects			Bike Facili			
Ped Cr	ossing  an River Trail - Pedestrian Bridge Crossing		\$640,080		neva Rd / SR-114 - Bike Lanes em 1600 North - Buffered Bike Lanes	*	
	SR-92 / 1200 E - Pedestrian Crossing		\$040,060		em 1600 S - Bike Lanes		\$33
	SR-92 / Center St - Pedestrian Crossing				em 400 W / 1430 S - Bike Lanes		\$130
	22 Pedestrian Bridge Crossing		\$5,300,000		em 800 E - Bike Lanes		\$50
	m 1600 N / 400 E Roundabout & Pedestrian Crossing		\$1,350,000		em Center St - Bike Lanes		\$236
_	eyard Center ST RR Bridge - Add Bike Lanes	*	\$650,000		em University Pkwy - Bike Lanes		\$15
	/Orem 800 S - Add Multi-Use Path & Grade-Separated Crossing	*	7000,000		ovo 2230 N - Bike Lanes		\$1
	/Provo Bike/Ped Crossing - Add Buffered Bike Lanes	*		<b>75</b> Pr	ovo 350 E - Bike Lanes		\$5
	edom BLVD - Possible Bike/Ped Improvements	*		<b>76</b> Pr	ovo 500 W - Bike Lanes		\$1
I-15,	/Springville 1600 S Interchange - Add Grade-Separated Crossing	*		<b>77</b> Pr	ovo 550 W - Bike Lanes		\$8
I-15,	/Sp Fork Center ST Interchange - Add Grade-Separated Crossing	*		<b>78</b> Pr	ovo 600 S - Bike Lanes and Trail		\$1,98
I-15,	/Payson Main ST/Nebo RD Interchange - Add Grade-Separated Cro	ssing *		<b>79</b> Pr	ovo 820 N - Buffered Bike Lanes	*	
	North Projects			<b>80</b> Pr	ovo 900 S - Bike Lanes		\$5
	North Projects			<b>81</b> Pr	ovo Bulldog Blvd - Protected Bike Lanes		
use Pa	thways				ovo Canyon Rd - Bike Lanes and Trail		\$2,90
Ame	erican Fork 200 S - Trail		\$4,500,000	<b>83</b> Ur	iversity Ave / US-189 - Bike Lanes	*	
	erican Fork 570 W - Trail		\$985,000		South Projects		
_	Creek Trail - Lehi to Highland		\$2,600,000		·		
	Expressway Trail	*		Multiuse F			62.5
_	thill Blvd Trail	*	Ac =====		rowhead Trail Rd		\$3,0
	oric Utah Southern RR Trail - Lehi to PG		\$6,500,000		shen Center St - Trail		\$1,3
	; Improvements at crossing & New Trail	*	62 500 05		shen Valley Rail Trail		\$2,7
_	- Dry Creek South Trail		\$3,500,000		ghline Canal Trail		\$9,0
_	- Waste Ditch Trail		\$1,700,000		bble Creek Trail - Springville		\$1,9
_	/ American Fork - Power Line Trail		\$7,400,000		erCity Connector Trail		
_	/ Highland - SR-92 Trail		\$3,100,000		apleton Lateral Canal Trail - Springville to Sp Fork		\$1,4
_	2100 N / SR-194 - Trail	*			yson South Trail yson Trail		\$1,2 \$1,8
	I-15 Frontage Road - Trail	*	Å2 400 000		lem Trail		\$2,7
_	chell Hollow Trail	*	\$2,400,000		lem Canal Rd Trail		\$4,8
_	untain View Corridor - Trail & Buffered Bike Lanes	T	¢627.000		anish Fork / Mapleton Trail		\$4,8
_	dock Connector Trail - American Fork		\$637,000		anish Fork 2550 E Trail		\$1,0
_	ches Corridor Trail - Eagle Mountain		\$1,850,000		anish Fork 400 N Trail		\$2,0
	th Pony Express Pkwy Trail - Eagle Mtn / SSprings	*	\$3,725,000		anish Fork Canyon Rd - Trail		\$3,2
_	73 - Trail	,	ć2 420 000		anish Fork Canyon Trail		\$2,6
	ville Trail - Eagle Mountain	*	\$2,130,000		ringville - Tintic Rails Trail		\$1,6
_	rerse Mtn Blvd Trail n Lakeshore Trail	*	\$1,200,000		ringville 1600 S / Sp Fork 2700 N - Trail	*	71,0
_	eyard Connector - Trail & Buffered Bike Lanes	*	\$0,076,730		ringville 400 E Trail		\$3,1
acilitie					-75 - Trail & Bridge	*	7-/-
_	erican Fork Meadows - Buffered Bike Lanes		\$206,550		8800 S Trail		\$1,4
	1200 W - Blke Lanes	*	\$200,550		-89 / State St - Trail		\$2,48
_	1700 W - Cycle Track		\$1,494,240	Bike Facili			T-/
_	2100 N / SR-194 - Keep existing Bike/Ped Facilities	*	71,434,240		Ridge Dr; Salem - Buffered Bike Lanes	*	
_	700 S - Cycle Track Connecting to 200 S American Fork		\$2,059,200	<b>107</b> Ma	apleton US-89 / 1600 W - Buffered Bike Lane		\$6
	Main St - Buffered Bike Lanes	*	Ψ2,000,200	<b>108</b> Sa	lem Loop; 11200 S - Bike Lanes		\$20
_	th County Blvd - Buffered Bike Lanes			<b>109</b> Sa	lem Loop; SR-164 - Bike Lanes		\$22
	neer Crossing - Coordinate alternative Bike/Ped			<b>110</b> Sa	lem Loop; Woodland Hills Dr - Bike Lanes		\$45
	rovements with Saratoga Spgs & Lehi	*	\$1,700,000	<b>111</b> Sa	ntaquin Main St / US-6 - Extend existing Bike/Ped Facility	*	
	y Express Pkwy - Bike Lanes / Cycle Track		\$656,304	<b>112</b> W	oodland Hills Trail		\$3,7
	y Express Pkwy - Buffered Bike Lanes		\$382,500		Phase 2: 2031 - 2040		
	ches Pkwy - Bike Lanes / Cycle Track		\$696,960		North Projects		
	58 / Redwood Road - Buffered Bike Lanes				·		
SR-7	74 - Buffered Bike Lanes	*		Multiuse F	•		
Stat	e St / US-89; Lehi Buffered Bike Lanes	*			y Center Corridor Trail - Eagle Mountain		\$49
US-8	39 / State St - Buffered Bike Lanes			114 Pc	werline Trail		\$3,20
	Central Projects				Central Projects		
ıse Pa	thways			Multiuse F	•		
Gen	eva Rd / SR-114 - Trail		\$890,000	<b>115</b> Ut	ah Lakeshore Trail		\$6,6
Lake	eview Pkwy Trail	*			South Projects		
_	lon Heritage Trail		\$440,000		·		
_	m 800 N Trail		\$395,865	Multiuse F	•		62.5
_	m FrontRunner Station Trail - Geneva Rd to UVU Ped Bridge		\$280,000		ghland Dr Trail - Santaquin		\$3,5
_	m Sandhill Rd - Trail		\$410,000		ghline Canal Trail		\$9,0
_	vo 1860 S - Trail		\$1,580,000		yson Canyon Trail - Highline Canal to Four Bay		\$4,3
_	vo 2230 N - Trail		\$178,000		anish Fork River Trail - Spanish Fork		\$7,2
_	vo 500 W / 300 S - Trail		\$750,000		ringville 2600 W Trail		\$2,7
_	vo 900 E - Trail		\$770,000	121 SR	-198 Connector Trail		\$8,1
_	o Center St - Trail		\$560,000				
_	o East Bay Blvd Trail		\$425,000				
Prov	o River Pkwy Trail		\$2,630,000				
Prov	o Towne Centre Trail		\$420,000				
_	vo University Ave / US-189 - Trail		\$705,000				
Prov	ALL THE PROPERTY OF THE LANGE OF THE PROPERTY		2/05/000				