



REGIONAL TRANSPORTATION PLAN

SUSTAINABLE COMMUNITIES STRATEGY

2018-2042



The Fresno Region

Heart of the San Joaquin Valley

Fresno County is located in the heart of California within the Central San Joaquin Valley. It is the tenth most populous county in California and the sixth largest in size. Agriculture is the primary industry making it the number one agricultural county in the nation.

Fresno County was formed in 1856 from parts of Mariposa, Merced and Tulare counties. Originally much larger than it is today, parts of the county's territory were given to Mono County in 1861 and to Madera County in 1893. The original county seat was along the San Joaquin River in the foothill community of Millerton, but was moved to the rapidly growing city of Fresno on the newly built Southern Pacific Railroad line after a flood destroyed much of the town. Today the city of Fresno is the fifth largest city in California. Fresno County now has 15 incorporated cities and many other towns and smaller communities.

Transportation planning has relied heavily in the past upon the analysis of separate and discrete transportation modes. However, as we try to deal with congestion and the problems of air pollution, there is a growing awareness that solutions must be evaluated within the context of an integrated system, rather than by individual mode only. This approach is helped by looking at the characteristics of our County which may affect travel demands.

Major watercourses are the San Joaquin River, Kings River, Delta-Mendota Canal, Big Creek, Friant Kern Canal, Helm Canal and Madera Canal. Fresno County is bordered on the west by the Coast Range and on the east by the Sierra Nevada, with four National protected areas residing in part within Fresno County. State Route 41 north out of the Fresno-Clovis Metropolitan Area (FCMA) is the primary corridor to Yosemite, one of the two most visited national parks in the nation.

The county is crossed by two north-south corridors, Freeway 99 and Interstate 5. Each of them is key to the statewide network. Recreational trips are also served by several state highways: Routes 33, 41, 168, 180, 99, and Interstate 5.

As the largest producer of farm commodities in the world, Fresno County has a strong "farm to market" travel demand affecting local roads and the state highway system. Movement of goods occurs throughout the County, as farm and other commodities are brought to market and to inter-regional routes.

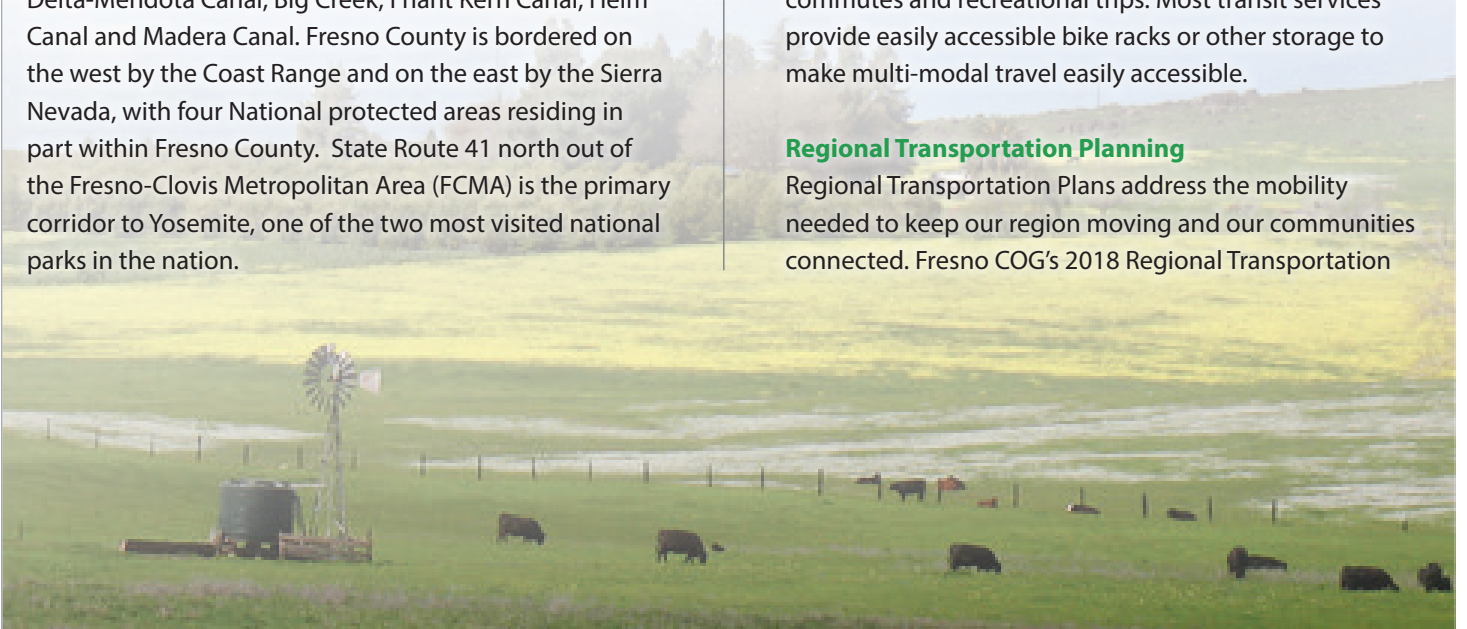
Fresno-Yosemite International Airport provides a hub airport service to its service area of six counties, while Fresno is also served by Amtrak, which has experienced increasing ridership. Existing rail lines also offer potential for an expanding share of commodity movement.

The distances between local destinations have encouraged automobile usage, yet there is a large rural and urban population within Fresno County in need of public transit service. The systems that are in place are in need of increased, stable financing as well.

The climate and terrain within the Fresno County region are compatible with bicycle use and walking for short commutes and recreational trips. Most transit services provide easily accessible bike racks or other storage to make multi-modal travel easily accessible.

Regional Transportation Planning

Regional Transportation Plans address the mobility needed to keep our region moving and our communities connected. Fresno COG's 2018 Regional Transportation



Plan (RTP) charts the long-range vision of Regional Transportation through the year 2042. As we address new requirements for reducing greenhouse gas emissions it has been and will remain our goal to plan in partnership with our communities throughout the region, providing transportation choices that encourage and cultivate thriving economies and cultural richness. This RTP identifies existing and future transportation related needs, while considering all modes of travel, analyzing alternative solutions, and identifying what can be completed with anticipated available funding for the over 3,000 projects and multiple programs included within it. It contains a variety of different elements or chapters, augmented by additional documentation contained in the Appendices.

People, Choices, Community

Through an extensive outreach effort spanning a two year period of time, we presented ideas, solicited comments, and considered concerns communicated to us in a wide variety of ways. We spoke with community, government and business representatives at public events and workshops, and during many standing committee meetings. We received feedback through surveying, online communications, workshop comment forms, in face to face meetings and via mail and email.

Metropolitan Planning Organizations

MPOs are federally mandated and federally funded transportation policy-making organizations in the United States that are made up of representatives from

local government and governmental transportation authorities. Congress created MPOs in order to ensure that existing and future expenditures of governmental funds for transportation projects and programs are based on a continuing, cooperative, and comprehensive ("3 C") planning process. In other words, the federal government wished to see federal transportation funds spent in a manner that has a basis in metropolitan region-wide plans developed through intergovernmental collaboration, rational analysis, and consensus-based decision making.

Fresno Council of Governments - A region of diverse partners, building a progressive future with one voice

Fresno COG was formalized in 1969 through a Joint Powers Agreement between the incorporated cities in Fresno County and the County of Fresno. As the Metropolitan Planning Organization for Fresno County, we address issues of mutual concern to the county and the cities in the Fresno County region, while satisfying Federal and State transportation planning and programming mandates.

Fresno COG is a consensus builder, developing acceptable programs and solutions to issues that do not respect political boundaries. We undertake comprehensive regional planning with an emphasis on transportation, facilitating collaboration of governments, interested parties, and residents in the planning process.

Contents

Clovis, California - Country sunset

Table of Contents

Introduction

i	Table of Contents.....	iii
ii	Fresno Council of Governments Committees and Staff.....	iv
iii	Glossary.....	vi
iv	List of Figures, Tables and Sources.....	vii

Chapter 1 Building the RTP: Putting the Pieces Together

1.1	Building the RTP.....	1-2
1.2	Scope of the Plan.....	1-3
1.3	The Region.....	1-3
1.4	Regional Planning Assumptions and Forecasts.....	1-7
1.5	Land Use Projections for Traffic and Air Quality Modeling.....	1-10
1.6	Regional Planning Process.....	1-11
1.7	Making the Transition to Interactive Regional Planning.....	1-12

Chapter 2: Policies: Foundations of the Plan

2.1	Mission and Vision.....	2-2
2.2	Introduction.....	2-2
2.3	Goals and Objectives of the RTP.....	2-2

Chapter 3: Sustainable Communities Strategy: People. Choices. Community.

3.1	Sustainable Communities Strategy.....	3-2
3.2	SCS Co-benefits.....	3-3
3.3	San Joaquin Valley Blueprint.....	3-4
3.4	Targets for Reducing Greenhouse Gas Emissions.....	3-5
3.5	Creating the SCS Scenarios.....	3-5
3.6	SCS Public Participation.....	3-8
3.7	Scenarios and Outcomes.....	3-9
3.8	Scenario Outcomes.....	3-12

3.9	The SCS Land Use Pattern.....	3-15
3.10	Protecting Resources and Farmland.....	3-16
3.11	Resilience and Reliability of the Transportation System Under Climate Change.....	3-19
3.12	Transportation Strategies.....	3-20
3.13	Consultation with the Local Agency Formation Commission.....	3-25
3.14	Considering Social Equity in the SCS.....	3-25
3.15	Considering Public Health in the SCS.....	3-26
3.16	Streamlining the CEQA Process.....	3-27
3.17	What is next?	3-29

Chapter 4: Actions: Assessing Our Transportation Needs

4.1	Moving People and Goods.....	4-2
4.2	Multimodal.....	4-3
4.3	Highways, Streets and Roads.....	4-10
4.4	Urban Mass Transportation.....	4-22
4.5	Fresno County Rural Area Public and Social Service Transportation.....	4-35
4.6	Aviation.....	4-50
4.7	Active Transportation.....	4-64
4.8	Rail.....	4-71
4.9	Specific Transportation Strategies and Management Systems.....	4-82
4.10	Air Quality.....	4-89
4.11	Integrated Land Use Transportation Planning.....	4-98

Chapter 5: Financing Mobility: Funding Our Transportation System

5.1	Introduction.....	5-2
5.2	RTP/SCS Revenue Projections.....	5-2
5.3	Project Evaluation Criteria.....	5-11
5.4	Project Scenarios.....	5-12
5.5	RTP Call for Projects.....	5-13
5.6	Analysis of the Chosen Project Scenario.....	5-13
5.7	Maintenance and Rehabilitation.....	5-14
5.8	Other Potential Revenue and Funding Opportunities.....	5-15
5.9	Sustainable Infrastructure Planning Grant Program.....	5-19
5.10	From Planning to Programming.....	5-19

Chapter 6: Public Participation: Working Together for a Better Plan

6.1	Public Participation.....	6-2
6.2	Fresno COG RTP/SCS Advisory Committees.....	6-2

6.3	Fresno COG Mini Grant Outreach Program.....	6-5
6.4	Community Workshops.....	6-6
6.5	Additional Public Participation.....	6-12
6.6	Public Comment.....	6-12
6.7	Consultation.....	6-12

Chapter 7: Environmental Justice Report: Ensuring Meaningful Involvement for All People

7.1	Introduction.....	7-2
7.2	Title VI and Environmental Justice Review.....	7-2
7.3	Fresno COG’s Role.....	7-3
7.4	Plan Development Process.....	7-4
7.5	Outreach and Public Engagement Efforts.....	7-5
7.6	Fresno County Demographic Profile.....	7-7
7.7	Environmental Justice Population Definition.....	7-8
7.8	Measuring the Benefits and Burdens.....	7-11
7.9	Conclusions.....	7-18
7.10	Next Update to the EJ Analysis.....	7-18

Chapter 8: Performance Measures

8.1	Performance Management.....	8-2
8.2	Safety Performance Measures.....	8-4
8.3	Historical Safety Performance in Fresno County.....	8-5
8.4	Setting Safety Performance Targets.....	8-9
8.5	Regional Efforts to Improve Safety and Achieve the Targets.....	8-10
8.6	Transit Asset Management Targets.....	8-12

Appendices

A	RTP Checklist
B	Valleywide Information
C	Financing Mobility: Reference Materials
D	Program Environmental Impact Report (PEIR)
E	Public Review and Adoption Materials
F	Congestion Management Program
G	Public Participation: Reference Materials
H	Environmental Justice Report
I	Sustainable Communities Strategy: Reference Materials
J	Actions: Reference Materials

Fresno Council of Governments

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A complete listing of committee members and their affiliations is included in Table 6-1 on page 6-3 of RTP Chapter 6: Public Participation

Glossary of common acronyms and definitions

ACRONYM	TERM	DEFINITION
AASHTO	American Association of State Highway and Transportation Officials	AASHTO is a nonprofit, nonpartisan association representing highway and transportation departments in the 50 states, the District of Columbia, and Puerto Rico. Its primary goal is to foster the development, operation, and maintenance of an integrated national transportation system.
AB 120	Assembly Bill 120	AB 120 required that social transportation services be consolidated and established Consolidated Transportation Service Agencies.
AB 2419	Assembly Bill 2419	AB 2419 (1996) allowed local agencies to collectively opt out of congestion management programs.
AB 32	Assembly Bill 32	Signed into law on September 26, 2006, it requires that the state's global warming emissions be reduced to 1990 levels by 2020. This reduction will be accomplished through an enforceable statewide cap on global warming emissions that will be phased in starting in 2012. In order to effectively implement the cap, AB 32 directs the California Air Resources Board (CARB) to develop appropriate regulations and establish a mandatory reporting system to track and monitor global warming emissions levels.
ABM	Activity Based Model	Activity-based models are based on the principle that travel demand is derived from people's daily activity patterns. Activity-based models predict which activities are conducted when, where, for how long, for and with whom, and the travel choices they will make to complete them.
Active Transportation		A mode of transportation that includes walking, running, biking, skateboarding, and other self-propelled forms of transportation
ADA	Americans with Disabilities Act of 1990	Guarantees equal opportunity for individuals with disabilities in public accommodations, employment, transportation, state and local government services, and telecommunications. It prescribes federal transportation requirements for transportation providers.
ADT	Average Daily Traffic	Total daily volume of vehicle traffic of a highway or road
AHSC	Affordable Housing and Sustainable Communities	Administered by the Strategic Growth Council and implemented by the Department of Housing and Community Development (HCD), the AHSC Program funds land-use, housing, transportation, and land preservation projects to support infill and compact development that reduce greenhouse gas ("GHG") emissions. Funding for the AHSC Program is provided from the Greenhouse Gas Reduction Fund (GGRF), an account established to receive Cap-and-Trade auction proceeds.
AIA	Airport Influence Area	The area around an airport that includes the overflight, noise and safety zones that the Airport Land Use Commission uses to determine compatibility of land uses surrounding the airport.
AIP	Airport Improvement Program	The Airport Improvement Program (AIP) provides grants to public agencies — and, in some cases, to private owners and entities — for the planning and development of public-use airports that are included in the National Plan of Integrated Airport Systems (NPIAS).
AITs	Agricultural Industries Transportation Services	The AITS Needs Assessment Project, under the management of e21 corp, embarked on a statewide assessment and analysis of the unmet transportation needs of agricultural workers in major growing regions throughout California. The contract with e21 corp also called for the evaluation the existing AITS Transportation Pilot Project in the Central Valley Counties of Kings, Tulare, Fresno, and Kern.
ALP	Airport Layout Plan	A graphic representation of the current conditions and the future long-term planned development for an airport that airports must keep up to date in order to receive federal assistance.

ACRONYM	TERM	DEFINITION
ALUC	Airport Land Use Commission	The Commission assists local agencies in ensuring orderly development around airports and discouraging incompatible land uses, including limiting the public's exposure to excessive noise and health and safety hazards.
ALUCPP	Airport Land Use Compatibility Policy Plan	Required by the State Aeronautics Act for all public use airports. Also known as a CLUP - Compatibility Land Use Plan - a policy planning tool that details the safety and noise compatibility criteria for development around airports, and is developed and used by Airport Land Use Commissions to conduct reviews to determine compatibility of proposed land uses on and around airports.
AMP	Airport Master Plan	An Airport Master Plan is a study used to determine the long-term development plans for an airport. Because air transportation is a vital community industry, it is important that the requirements for new or improved airports be anticipated.
AMTRAK	National Railroad Passenger Corporation	Publicly funded railroad service operated and managed as a for-profit corporation.
APCD	Air Pollution Control District	The Fresno area is under the auspices of the San Joaquin Valley Air Pollution Control District (SJVAPCD) which works with state and federal air quality agencies to attain health air in the San Joaquin Valley Air Basin.
ARB	Air Resources Board (also referred to as CARB, California Air Resources Board)	This is the state level air quality agency which works with local and federal air quality agencies to attain healthier air in California.
ATCT	Airport Traffic Control Tower	The primary method of controlling the immediate airport environment is visual observation from the airport control tower. The tower is a tall, windowed structure located on the airport grounds. Air traffic controllers are responsible for the separation and efficient movement of aircraft and vehicles operating on the taxiways and runways of the airport itself, and aircraft in the air near the airport, generally 5 to 10 nautical miles (9 to 18 km) depending on the airport procedures.
ATP	Active Transportation Plan	A plan that identifies strategies and facilities to encourage people to travel by active transportation, such as walking and biking.
Authority	California High-Speed Rail Authority	The California High-Speed Rail Authority (Authority) is responsible for planning, designing, building and operation of the first high-speed rail system in the nation.
AVA	Abandoned Vehicle Abatement	A means to remove abandoned vehicles that create a public nuisance and a health or safety hazard.
AVCRAD	Aviation Classification Repair Activity Depot	An AVCRAD performs two combat service support (CSS) functions executed at the depot level: maintenance and supply. It is responsible for limited depot aircraft maintenance, component repair, pass-back aviation intermediate maintenance (AVIM), and operation of a supply support activity (SSA).
Base Year		The year 2008, used in the RTP performance analysis as a reference point for current conditions.
BNSF		Burlington Northern and Santa Fe Railway Company
BRT	Bus Rapid Transit	Bus transit service that seeks to reduce travel time through measures such as traffic signal priority, automatic vehicle location, dedicated bus lanes, limited stop service, and faster fare collection policies.
BTA	Bicycle Transportation Account	Annual program providing state funds for city and county projects that improve safety and convenience for bicycle commuters.
CAA	Clean Air Act (Federal)	The Clean Air Act (CAA) is the comprehensive federal law that regulates air emissions from stationary and mobile sources.
CAAP	California Aid to Airports Program	Provides grants to public agencies — and, in some cases, to private owners and entities — for the planning and development of public-use airports that are included in the National Plan of Integrated Airport Systems.
CALCOG	California Association of Councils of Government	Association made up of the 35 Metropolitan Planning Organizations and Regional Transportation Planning Agencies in California.

ACRONYM	TERM	DEFINITION
Caltrans	California Department of Transportation	State of California government agency whose mission is to maintain, repair and improve roads and highways throughout the State.
Caltrans Headquarters	Caltrans Headquarters	Sacramento division of Caltrans that oversees state activities and Local Assistance.
Caltrans Local Assistance	Caltrans Local Assistance	Division of Caltrans that assists local and regional agencies by ensuring specific program requirements are met, project applications are processed, and projects are delivered in accordance with Federal and State requirements.
CalVans	California Vanpool Authority	The California Vanpool Authority (also known as CalVans) is a Joint Powers Authority formed in 2012. The Authority evolved from a vanpool program established by Kings County in 2001. The Authority's vanpool services connect residents in areas with low population density. CalVans currently serves the following California counties: Fresno, Imperial, Kern, Kings, Madera, Merced, Monterey, Riverside, San Benito, Santa Barbara, Santa Cruz, Tulare, and Ventura.
CARB	California Air Resources Board	See definition for ARB on previous page
CANG	California Air National Guard	The California Air National Guard (CANG) is the air force militia of the U.S. State of California. It is, along with the California Army National Guard, an element of the California National Guard.
CASP	California Aviation System Plan	The means by which continuous aviation system planning is conducted by the State.
CCAA	California Clean Air Act	The Clean Air Act (CAA) is the comprehensive state law that regulates air emissions from stationary and mobile sources.
CCR	California Code of Regulations	The official compilation and publication of the regulations adopted, amended or repealed by state agencies pursuant to the Administrative Procedure Act (APA).
CEQA	California Environmental Quality Act	State law providing certain environmental protections that apply to all transportation projects funded with state funds.
CHP	California Highway Patrol	The California Highway Patrol is a law enforcement agency of the state of California. The primary mission of the CHP is to ensure safety and enforce traffic laws on all California highways and county roads in unincorporated areas.
CHSTP	Coordinated Human-Services Transportation Plan	Federal transit law requires that projects selected for funding under the Enhanced Mobility for Individuals and Individuals with Disabilities (Section 5310) Program be "included in a locally developed, coordinated public transit-human services transportation plan," and that the plan be "developed and approved through a process that included participation by seniors, individuals with disabilities, representatives of public, private, and nonprofit transportation and human services providers and other members of the public" utilizing transportation services. These coordinated plans identify the transportation needs of individuals with disabilities, older adults, and people with low incomes, provide strategies for meeting these needs, and prioritize transportation services for funding and implementation.
CIP	Capital Improvement Program	7-year program to maintain or improve traffic Level of Service (LOS) & transit performance and to mitigate impacts identified by the Congestion Management Program.
CMAQ	Congestion Mitigation and Air Quality	Federal funding account designated for projects that improve air quality and reduce congestion.
CMP	Congestion Management Program	Established by Proposition 111 in 1990, requires each county to develop and adopt a CMP that includes highway and roadway system monitoring, multimodal system performance analysis, transportation demand management program, land-use analysis program and local conformance.
CNG	Compressed Natural Gas	Is an alternative fuel for use in combustion-can reduce some criteria air pollutants.

ACRONYM	TERM	DEFINITION
CO	Carbon Monoxide	A colorless, odorless, poisonous gas formed when carbon in fuels is not burned completely. It is a byproduct of highway vehicle exhaust, which contributes about 60 percent of all CO emissions nationwide.
COG	Council of Governments	A governmental agency formed by joint powers agreement by all the member governments within a given region. Specific powers vary by agency, but usually involve transportation issues.
Corridor		In planning, a broad geographical band that follows a general directional flow or connects major sources of trips. It may contain a number of streets and highways, as well as transit lines and routes.
CPUC	California Public Utilities Commission	The California Public Utilities Commission is a regulatory agency that regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies, in addition to authorizing video franchises.
CTC	California Transportation Commission	A board appointed by the governor to oversee and administer state and federal transportation funds and provide oversight on project delivery.
CTSA	Consolidated Transportation Service Agency	Designated under auspices of the Social Services Transportation Improvement Act to achieve the intended transportation coordination goals of that Act.
DAC	City of Fresno Disability Advisory Council	The City of Fresno, Disability Advisory Commission (DAC) was created to improve the quality of life for the disabled community in our area. The Commission will increase the public's awareness of the strengths and successes of people with disabilities by actively participating in community activities and events which incorporate diverse perspectives.
	Disadvantaged Community	Disadvantaged communities are defined as the top 25% scoring areas from CalEnviroScreen along with other areas with high amounts of pollution and low populations. Disadvantaged communities in California are specifically targeted for investment of proceeds from the State's cap-and-trade program. These investments are aimed at improving public health, quality of life and economic opportunity in California's most burdened communities at the same time reducing pollution that causes climate change.
EIR	Environmental Impact Report	An informational document, required under CEQA, which will inform public agency decision-makers and the public generally of the significant environmental effects of a project, possible ways to minimize significant effects, and reasonable alternatives to the project.
EIS	Environmental Impact Statement	National Environmental Policy Act (NEPA) requirement for assessing the environmental impacts of federal actions that may have a significant impact on the human environment.
EJ	Environmental Justice	Environmental Justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.
EPA	Environmental Protection Agency (Federal)	This is the federal level agency which works with local and state air quality agencies to protect the environment to provide healthy living conditions and welfare for the nation.
EPSP	Expedited Project Selection Procedures	Process used to design and construct a project prior to the programmed year shown in the FTIP by moving the funds forward to the current year.
eTRIP	Employer Based Trip Reduction	An employer-based trip reduction program that use various approaches to reduce single occupant car travel to work and the associated greenhouse gas (GHG) emissions. Employers meeting certain requirements in San Joaquin Valley are subject to the eTRIP Rule (Rule 9410).
FAA	Federal Aviation Administration	Federal agency responsible for issuing and enforcing safety regulations and minimum standards, managing air space and air traffic, and building and maintaining air navigation facilities.
FAARC	Fresno Area Residents for Rail Consolidation	A community group with an interest in consolidating the Burlington Northern Santa Fe (BNSF) and Union Pacific (UP) railroad networks through Fresno.

ACRONYM	TERM	DEFINITION
FAST Act	Fixing America's Surface Transportation Act	The Fixing America's Surface Transportation (FAST) Act is a funding and authorization bill to govern United States federal surface transportation spending. It was passed by Congress on December 3, 2015, and signed by President Barack Obama on December 4, 2015.
FAX	Fresno Area Express	Transit system serving the Fresno Metropolitan Area
FBO	Fixed Based Operators	A fixed-base operator (FBO) is an organization granted the right by an airport to operate at the airport and provide aeronautical services such as fueling, hangaring, tie-down and parking, aircraft rental, aircraft maintenance, flight instruction, and similar services.
FCC	Fresno City College	resno City College (FCC or "Fresno City") is a community college in Fresno, California. It is part of the State Center Community College District (SCCCD) within the California Community Colleges system and accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges.
FCMA	Fresno-Clovis Metropolitan Area	The geographical area representing the combined respective spheres of influence of the cities of Clovis and Fresno.
FCRTA	Fresno County Rural Transit Agency	Transit Agency serving the rural areas of Fresno County
FCTA	Fresno County Transportation Authority	The Fresno County Transportation Authority (FCTA) is the entity created by legislation to administer the Measure C Program(s) and ensure the revenue is received and distributed appropriately.
FFY	Federal Fiscal Year	October 1 through September 30
FHWA	Federal Highway Administration	Federal agency responsible for administering the Federal-Aid Highway Program, which provides federal financial assistance to the states to construct and improve the National Highway System, urban and rural roads, and bridges.
FRA	Federal Railroad Administration	Federal agency created to promulgate and enforce rail safety regulations, administer railroad assistance programs, conduct research and development in support of improved railroad safety and national rail transportation policy, and consolidate government support of rail transportation activities.
FSP	Freeway Service Patrol	The CHP, Caltrans and local transportation agencies joined forces to provide emergency roadside services during commute periods. The goal of the program is to remove impediments to traffic to expedite the flow of traffic.
FSTIP	Federal Statewide Transportation Improvement Program	Caltrans' four-year planning document that is updated every two years (made up of all FTIPs in California)
FTA	Federal Transit Administration	The federal agency responsible for administering federal transit funds and assisting in the planning and establishment of areawide urban mass transportation systems. As opposed to FHWA funding, most FTA funds are allocated directly to local agencies, rather than to Caltrans.
FTIP	Federal Transportation Improvement Program	A three-year list of all transportation projects proposed for federal transportation funding within the planning area of an MPO.
FY	Fiscal Year	July 1 through June 30
GHG	Greenhouse Gases	Components of the atmosphere that contribute to the greenhouse effect. The principal greenhouse gases that enter the atmosphere because of human activities are carbon dioxide, methane, nitrous oxide, and fluorinated gases.
GIS	Geographic Information Systems	Powerful mapping software that links information about where things are with information about what things are like. GIS allows users to examine relationships between features distributed unevenly over space, seeking patterns that may not be apparent without using advanced techniques of query, selection, analysis, and display.

ACRONYM	TERM	DEFINITION
GRAT	Ground Water Assessment Tool	The Groundwater Recharge Assessment Tool (GRAT) is a tool developed by Sustainable Conservation and The Earth Genome which integrates hydrologic, agronomic and geologic science with the best available data from local, state and federal source in order to give California's Groundwater Sustainability Agencies (GSAs) the essential insights they need to optimize their potential for groundwater recharge.
HAL	Healthy Air Living	Healthy Air Living is an initiative developed by the San Joaquin Valley Air Pollution Control District that provides education and opportunities to make personal or professional changes that will result in improvements in air quality.
HCD	California Department of Housing and Community Development	HCD is a State agency that provide leadership, policies, and programs to preserve and expand safe and affordable housing opportunities and promote strong communities for all Californians.
HOV	High Occupancy Vehicle	Generally vehicles with more than one occupant.
HPMS	Highway Performance Monitoring System	A federally mandated program designed by FHWA to assess the performance of the nation's highway system.
HSR	High Speed Rail	Intercity passenger rail service that is reasonably expected to reach speeds of at least 110 mile per hour.
ILS	Instrument Landing System	The Instrument Landing System (ILS) is an internationally normalized system for navigation of aircrafts upon the final approach for landing. It was accepted as a standard system by the ICAO, (International Civil Aviation Organization) in 1947.
IOS	Initial Operating System	A segment of the California High Speed Rail network that will be the first to operate.
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991	Federal transportation planning and policy law (1991-1998).
ITA	Interagency Transer Agreement	An agreement between the State of California and the San Joaquin Joint Powers Authority regarding rail service in the San Joaquin Valley.
ITIP	Interregional Transportation Improvement Plan	The portion of the STIP that includes projects selected by Caltrans (25 percent of STIP funds).
ITS	Intelligent Transportation Systems	Intelligent transportation system (ITS) is the application of sensing, analysis, control and communications technologies to ground transportation in order to improve safety, mobility and efficiency. ITS includes a wide range of applications that process and share information to ease congestion, improve traffic management, minimize environmental impact and increase the benefits of transportation to commercial users and the public in general.
KART	Kings Area Rural Transit	Kings Area Rural Transit (KART) is Kings County's public transportation provider.
JPA	Joint Powers Agency	Two or more agencies that enter into a cooperative agreement to jointly wield powers that are common to them. JPAs are a vehicle for the cooperative use of existing governmental powers to finance and provide infrastructure and/or services in a cost-efficient manner.
LAFCO	Local Agency Formation Commission	LAFCOs review proposals for the formation of new local governmental agencies and for changes in the organization of existing agencies.
LOS	Level of Service	A qualitative measurement of traffic flow. Is measured on a scale from A to F in which A signifies the least congested (free flow) while F signifies most congested.
LTF	Local Transportation Fund	Monies distributed to regional transportation planning agencies by the State of California. The annual allocation is the local share of revenues from ¼ cent of the state sales tax rate. COG receives this money and distributes it to the local jurisdictions based on population. The money must first be used to fill any unmet transit needs, and then can be used for local road and street expenses. A small portion of the money is also reserved for pedestrian/bikeway and planning expenditures. Is part of the Transportation Development Act fund.

ACRONYM	TERM	DEFINITION
MAP-21	Moving Ahead for Progress in the 21st Century Act	Federal transportation planning and policy law (2012-2016).
MCC	Model Coordinating Committee	Interagency consultation is generally conducted through the San Joaquin Valley Regional Planning Agencies Interagency Consultation Group (IAC), formerly the San Joaquin Valley Model Coordinating Committee (MCC). The IAC was established by the Regional Planning Agencies' Director's Association to provide a coordinated approach to valley air quality, conformity and transportation modeling issues.
MCTC	Madera County Transportation Commission	Madera County's state designated Regional Transportation Planning Agency (RTPA) and federally designated Metropolitan Planning Organization (MPO).
MJHE	Multi-Jurisdictional Housing Element	California Housing Element law requires every jurisdiction to prepare and adopt a housing element as part of general plans. In California it is typical for each city or county to prepare and maintain its own separate general plan and housing element. However, Fresno County and 12 of the 15 cities in Fresno County, with the help of the Fresno Council of Governments (FCOG), are preparing a Multi-Jurisdictional Housing Element for the fifth round of housing element updates.
MOU	Memorandum of Understanding	A memorandum of understanding is an agreement between two or more parties. It expresses a convergence of will between the parties, indicating an intended common line of action.
MPO	Metropolitan Planning Organization	Federally mandated transportation policy-making organization made up of representatives from local government (required in any urbanized area with a population greater than 50,000).
NAAQS	National Ambient Air Quality Standards	The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment.
NASL	Naval Air Station Lemoore	Naval Air Station Lemoore or NAS Lemoore is a United States Navy base, located in Kings County and Fresno County, California.
NHS	National Highway System	The National Highway System (NHS) is a network of strategic highways within the United States, including the Interstate Highway System and other roads serving major airports, ports, rail or truck terminals, railway stations, pipeline terminals and other strategic transport facilities. Altogether, it constitutes the largest highway system in the world.
NOX	Nitrogen Oxides	When nitrogen is released during fuel combustion it combines with oxygen atoms to create nitric oxide (NO). This further combines with oxygen to create nitrogen dioxide (NO ₂). Nitric oxide is not considered to be hazardous to health at typical ambient concentrations, but nitrogen dioxide can be. Nitrogen dioxide and nitric oxide are referred to together as oxides of nitrogen (NO _x).
NPIAS	National Plan of Integrated Airport Systems	The National Plan of Integrated Airport Systems (NPIAS) identifies nearly 3,400 existing and proposed airports that are significant to national air transportation and thus eligible to receive Federal grants under the Airport Improvement Program (AIP). It also includes estimates of the amount of AIP money needed to fund infrastructure development projects that will bring these airports up to current design standards and add capacity to congested airports. The FAA is required to provide Congress with a 5-year estimate of AIP eligible development every two years. The NPIAS contains all commercial service airports, all reliever airports, and selected general aviation airports.
OWP	Overall Work Program	A list of the tasks that the Council of Governments expects to perform over a given year. The program is used as a management tool.
PAC	Policy Advisory Committee	Fresno COG's standing committee comprised of member agency City Managers.

ACRONYM	TERM	DEFINITION
PAPI	Precision Approach Path Indicator	A precision approach path indicator (PAPI) is a visual aid that provides guidance information to help a pilot acquire and maintain the correct approach (in the vertical plane) to an airport or an aerodrome. It is generally located beside the runway approximately 300 meters beyond the landing threshold of the runway.
PEVCC	Plug-in Electric Vehicle Coordinating Council	The San Joaquin Valley PEVCC is a 28-member advisory group composed of local metropolitan planning organizations, cities, counties, utilities, the San Joaquin Valley Clean Cities Coalition, electric vehicle service providers, local consultants and nonprofit organizations.
PPP	Public Participation Plan	Fresno COG's guiding document to fulfilling federal public outreach requirements.
PL-Funds	Metropolitan Planning Funds	Made available to each Metropolitan Planning Organization (MPO) designated for an urbanized area with a population of more than 50,000 individuals and responsible for carrying out the 3-C (continuing, cooperative and comprehensive) metropolitan planning process.
PM 2.5	Particulate matter smaller than 2.5 microns	Very small specks of particulate matter found to be harmful to human health and welfare. The smaller the particle, the more dangerous it is to human health.
PM10	Particulate matter smaller than 10 microns	Tiny specks of particulate matter found to be harmful to human health and welfare.
PRT	Personal Rapid Transit	Personal rapid transit, also referred to as podcars, is a public transport mode featuring small automated vehicles operating on a network of specially built guideways.
PSR	Project Study Report	Defines and justifies the project's scope, cost, and schedule. Prepared for state highway projects and projects not on the State Highway System.
PTIS	Public Transportation Infrastructure Study	An effort to identify strategies for transportation investments and land use policies that would result in measurable reductions in vehicle miles travelled (VMT) and improve mobility choices for greater Fresno County residents.
PUC	Public Utilities Code/Commission	Regulates privately owned telecommunications, electric, natural gas, water, railroad, rail transit, and passenger transportation companies.
RACM	Reasonably available control measures	A Reasonably Available Control Measure (RACM) is defined by the USEPA as any potential control measure for application to point, area, onroad and nonroad emission source categories that meets the following criteria: The control measure is technologically feasible; The control measure is economically feasible; The control measure does not cause "substantial widespread and long-term adverse impacts"; The control measure is not "absurd, unenforceable, or impracticable"; The control measure can advance the attainment date by at least one year.
RFP	Request for Proposals	A document used to solicit bids for a plan or project.
RHGCP	Railroad Highway Grade Crossing Program	The Railway-Highway Crossings (Section 130) Program provides funds for the elimination of hazards at railway-highway crossings. The Section 130 Program has been correlated with a significant decrease in fatalities at railway-highway grade crossings.
RHNA	Regional Housing Needs Allocation	The Regional Housing Need Allocation (RHNA) is the state-mandated process to identify the total number of housing units (by affordability level) that each jurisdiction must accommodate in its Housing Element.
ROG	Reactive Organic Gases	Organic compounds assumed to be reactive at urban/regional scales. Those organic compounds that are regulated because they lead to ozone formation.
RTIP	Regional Transportation Improvement Program	A seven year listing of proposed highway, transit and airport projects that implement the Regional Transportation Plan. Projects are listed in priority order with costs and funding sources identified. COG and other regional transportation planning agencies must prepare this document and submit it to the California Transportation Commission by December 1st of every odd year. Projects must be listed in the RTIP in order to be considered for funding in the State Transportation Improvement Program (STIP).

ACRONYM	TERM	DEFINITION
RTMF	Regional Transportation Mitigation Fee	A fee program intended to ensure that future development contributes to its fair share towards the cost of infrastructure to mitigate the cumulative, indirect regional transportation impacts of new growth in a manner consistent with the provisions of the State of California Mitigation Fee Act.
RTP	Regional Transportation Plan	Metroplitan planning organization (MPO) 25 year transportation planning document that is updated every four years.
RTPA	Regional Transportation Planning Agency	Federally mandated transportation policy-making organization made up of representatives from local government (required in any rural or local area with a population less than 50,000).
SAFETEA-LU	Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy for Users	Signed into law by President Bush on August 10, 2005, it authorized the federal surface transportation programs for highways, highway safety, and transit for the 5-year period of 2005–2009.
SAR	Search and Rescue	Search and rescue (SAR) is the search for and provision of aid to people who are in distress or imminent danger.
SB 1	Senate Bill 1	Senate Bill 1, the Road Repair and Accountability Act of 2017, was signed into law on April 28, 2017. This legislative package invests \$54 billion over the next decade to fix roads, freeways and bridges in communities across California and puts more dollars toward transit and safety.
SB 375	Senate Bill 375	Established to implement the state's greenhouse gas (GHG) emission-reduction goals, as set forth by AB 32, in the sector of cars and light trucks. This mandate requires the California Air Resources Board to determine per capita GHG emission-reduction targets for each metropolitan planning organization (MPO) in the state at two points in the future—2020 and 2035. In turn, each MPO must prepare a Sustainable Communities Strategy (SCS) that demonstrates how the region will meet its GHG reduction target through integrated land use, housing, and transportation planning.
SB 498	Senate Bill 498	Passed in October 2017, SB 498 (Skinner-D) codifies the state's commitment to electric vehicles by requiring that 50 percent of light-duty vehicles purchased for the state vehicle fleet be zero-emission by 2024-25.
SCS	Sustainable Communities Strategy	A plan to reduce greenhouse gas (GHG) emissions through coordinated transportation and land use planning.
SGC	Strategic Growth Council	In September 2008, SB 732 was signed into law, establishing the Strategic Growth Council. The Council is a cabinet level committee that is tasked with coordinating the activities of state agencies to, among other things, improve air and water quality, protect natural resources, promote public health and equity, and improve transportation.
SHOPP	State Highway Operation and Protection Plan	Four year program of projects that have the purpose of collision reduction, bridge and roadway preservation, mobility enhancement and preservation of other transportation facilities
SIP	State Implementation Plan	The planning document prepared to show how the State will attain the national ambient air quality standards.
SJJPA	San Joaquin Joint Powers Authority	To protect the existing San Joaquin Rail Service and to promote its improvement, in 2012, local and regional agencies throughout most of the San Joaquin Corridor (Bakersfield-Fresno-Modesto-Stockton-Sacramento-Oakland) sponsored and supported Assembly Bill 1779 (AB 1779). This bill enabled regional government agencies to form the San Joaquin Joint Powers Authority (SJJPA) to take over the administration and management of the existing San Joaquin Rail Service from the state. AB 1779 was passed by the Legislature on August 30, 2012 with bi-partisan support, and was signed by Governor Brown on September 29, 2012.

ACRONYM	TERM	DEFINITION
SJVAB	San Joaquin Valley Air Basin	The San Joaquin Valley Air Pollution Control District is made up of eight counties in California's Central Valley: San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and the San Joaquin Valley Air Basin portion of Kern. The Valley Air District is governed by an fifteen member Governing Board consisting of representatives from the Board of Supervisors of all eight counties, one Health and Science member, appointed by the Governor, one Physician, appointed by the Governor and five Valley city representatives.
SJVAPCD	San Joaquin Valley Air Pollution Control District	The Fresno area is under the auspices of the San Joaquin Valley Air Pollution Control District (SJVAPCD) which works with state and federal air quality agencies to attain health air in the San Joaquin Valley Air Basin.
SJVRC	San Joaquin Valley Rail Committee	The purpose of the San Joaquin Valley Rail Committee (SJVRC) is to discuss and formulate suggestions and ideas for improvements to the Amtrak San Joaquins passenger train service. The SJVRC was established in 1987.
SOV	Single Occupant Vehicle	Privately operated vehicle that contains only one driver or occupant.
SR	State Route	The state highway system of the U.S. state of California is a network of highways that are owned and maintained by the Highway Division of the California Department of Transportation.
SRTP	Short Range Transit Plan	A Short Range Transit Plan (SRTP) is the document that generally plans out transit services and operations. The SRTP planning period is generally five years, but SRTPs may cover a longer period, typically seven to 10 years.
SSM	Supplemental safety measures	Safety improvements approved by the Federal Railroad Administration, typically in quiet zones, such as gates, median barriers, and channelization.
SSTAC	Social Service Transportation Advisory Council	Committee that reviews transit issues with emphasis on the annual identification of transit needs within Fresno County.
STA	State Transit Assistance	State funding program for mass transit operations and capital projects. Current law requires that STA receive 50 percent of PTA revenues.
STBG	Surface Transportation Block Grant	The Surface Transportation Block Grant program (STBG) provides flexible funding that may be used by States and localities for projects to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals.
STIP	Statewide Transportation Improvement Program	Caltrans four year planning document that is updated every two years.
STP	Surface Transportation Program	Provides flexible funding that may be used by states and localities for projects on any federal-aid highway, bridge projects on any public road, transit capital projects, and intracity and intercity bus terminals and facilities. A portion of funds reserved for rural areas may be spent on rural minor collectors.
TAC	Technical Advisory Committee	A committee that provides ideas and feedback on plans or programs.
TAZ	Traffic Analysis Zones	Zone system used in travel demand forecasting.
TCCR	Transportation Corridor Concept Reports	Transportation Corridor Concept Reports are Caltrans' long range planning documents for each State Highway Route. The TCCR provides information regarding route segments, including high priority projects for the highway over the next 20 years, and existing and forecasted traffic data.
TCM	Transportation Control Measure	A project or program that is designed to reduce emissions or concentrations of air pollutants from transportation sources. TCMs are referenced in the State Implementation Plan (SIP) for the applicable air basin and have priority for programming and implementation ahead of non-TCMs.
TDA	Transportation Development Act	State law enacted in 1971 that provided a 0.25 percent sales tax on all retail sales in each county for transit, bicycle, and pedestrian purposes. In non-urban areas, funds may be used for streets and roads under certain conditions.
TDM	Transportation Demand Management	Strategies that result in more efficient use of transportation resources, such as ridesharing, telecommuting, park-and-ride programs, pedestrian improvements, and alternative work schedules.

ACRONYM	TERM	DEFINITION
TEA-21	Transportation Equity Act for the 21st Century	Federal transportation planning and policy law (1998-2005).
TIRCP	Transit and Intercity Rail Capital Program	The Transit and Intercity Rail Capital Program (TIRCP) was created by Senate Bill (SB) 862 (Chapter 36, Statutes of 2014) and modified by Senate Bill 9 (Chapter 710, Statutes of 2015) to provide grants from the Greenhouse Gas Reduction Fund to fund transformative capital improvements that will modernize California's intercity, commuter, and urban rail systems, and bus and ferry transit systems to reduce emissions of greenhouse gases by reducing congestion and vehicle miles traveled throughout California. The goal of the TIRCP is to provide monies to fund transformative capital improvements that modernize California's intercity rail, bus, ferry and rail transit systems.
TMA	Transportation Management Areas	The Transit and Intercity Rail Capital Program (TIRCP) was created by Senate Bill (SB) 862 (Chapter 36, Statutes of 2014) and modified by Senate Bill 9 (Chapter 710, Statutes of 2015) to provide grants from the Greenhouse Gas Reduction Fund to fund transformative capital improvements that will modernize California's intercity, commuter, and urban rail systems, and bus and ferry transit systems to reduce emissions of greenhouse gases by reducing congestion and vehicle miles traveled throughout California. The goal of the TIRCP is to provide monies to fund transformative capital improvements that modernize California's intercity rail, bus, ferry and rail transit systems.
TNC Transportation Network Company	Transportation Network Company	A transportation network company (TNC), sometimes known as a mobility service provider (MSP), is an organization that pairs passengers via websites and mobile apps with drivers who provide such services. Transportation network companies are examples of the sharing economy and shared mobility.
TOD	Transit Oriented Development	A planning strategy that explicitly links land-use and transportation by focusing mixed housing, employment, and commercial growth around bus and rail stations (usually within ½ mile). TODs can reduce the number and length of vehicle trips by encouraging more bicycle/pedestrian and transit use and can support transit investments by creating the density around stations to boost ridership.
TSM	Transportation Systems Management	The Transportation Systems Management (TSM) approach to congestion mitigation seeks to identify improvements to enhance the capacity of existing system of an operational nature. Through better management and operation of existing transportation facilities, these techniques are designed to improve traffic flow, air quality, and movement of vehicles and goods, as well as enhance system accessibility and safety.
TTC	Transportation Technical Committee	The Transportation Technical Committee (TTC) serves as a standing committee that reviews materials and issues monthly before forwarding them to the Policy Advisory Committee. Membership includes member agency staff and representatives from a wide variety of transportation and community interest groups.
UP/UPRR	Union Pacific Railroad	Union Pacific Corporation (NYSE:UNP) is one of America's leading transportation companies. Its principal operating company, Union Pacific Railroad, is North America's premier railroad franchise, covering 23 states across the western two-thirds of the United States.
VMT	Vehicle Miles Travelled	On highways, a measurement of the total miles traveled by all vehicles in the area for a specified time period. It is calculated by the number of vehicles times the miles traveled in a given area or on a given highway during the time period. In transit, the number of vehicle miles operated on a given route or line or network during a specified time period.
VOC	Volatile Organic Compound	Organic gases emitted from a variety of sources, including motor vehicles, chemical plants, refineries, factories, consumer, and commercial products, and other industrial sources. Ozone, the main component of smog, is formed from the reaction of VOCs and NOx in the presence of heat and sunlight.
YARTS	Yosemite Area Regional Transportation System	A public transit in the Yosemite region, with buses entering Yosemite Valley from Merced, Mammoth Lakes, Sonora, and Fresno—as well as many different towns along the way. YARTS began service in May 2000, and now provides an alternative to driving to nearly 100,000 riders per year.

List of Tables *with sources*

Chapter 1- Building the RTP: Putting the Pieces Together			
Table #	Name of Table	Source	Page
1-1	Population shares of county	1970, 1980, 1990, 2000 and 2010 U.S. Censuses, California State Department of Finance	1-4
1-2	Fresno County Population, Housing and Employment Forecasts	California State Department of Finance and Applied Development Economics	1-9
Chapter 2- Policies: Foundation of the Plan			
Table #	Name of Table	Source	Page
2-1A	General Transportation, Multimodal System - Support and Enhancement of Economy	Fresno Council of Governments	2-5
2-1B	General Transportation, Multimodal System - Future Travel Demands & Financial Resources	Fresno Council of Governments	2-6
2-1C	General Transportation, Environmental Justice	Fresno Council of Governments	2-6
2-1D	General Transportation, Planning Outcomes	Fresno Council of Governments	2-7
2-1E	General Transportation, Regional Transportation Network	Fresno Council of Governments	2-8
2-1F	General Transportation, Intergovernmental Coordination	Fresno Council of Governments	2-8
2-1G	General Transportation, Air Quality	Fresno Council of Governments	2-9
2-1H	General Transportation Safety	Fresno Council of Governments	2-10
2-2A	Highways Streets and Roads, Integrated Network	Fresno Council of Governments	2-10
2-2B	Highways Streets and Roads, Safe and Efficient Goods Movement System	Fresno Council of Governments	2-11
2-2C	Highways Streets and Roads, Transportation Funding	Fresno Council of Governments	2-11
2-2D	Highways Streets and Roads, State of Good Repair	Fresno Council of Governments	2-11
2-3A	Mass Transportation, Fiscal Responsibility	Fresno Council of Governments	2-12
2-3B	Mass Transportation, Safe and Reliable	Fresno Council of Governments	2-12
2-3C	Mass Transportation, Efficient and Effective	Fresno Council of Governments	2-12
2-3D	Mass Transportation, Public Image	Fresno Council of Governments	2-12
2-3E	Mass Transportation, Multimodal	Fresno Council of Governments	2-12
2-3F	Mass Transportation, Land Use and Air Quality	Fresno Council of Governments	2-12
2-3G	Mass Transportation, State of Good Repair	Fresno Council of Governments	2-12
2-4	Aviation Goal	Fresno Council of Governments	2-13
2-5A	Non-Motorized Transportation, Health	Fresno Council of Governments	2-13
2-5B	Non-Motorized Transportation, Multimodal	Fresno Council of Governments	2-14
2-5C	Non-Motorized, Education and Enforcement	Fresno Council of Governments	2-15
2-5D	Non-Motorized, Maintain and Expand	Fresno Council of Governments	2-15
2-6A	Rail, Promote Usage	Fresno Council of Governments	2-16
2-6B	Rail, Goods Movement	Fresno Council of Governments	2-16
Chapter 3- Sustainable Communities Strategy: People. Choices. Community			
Table #	Name of Table	Source	Page
3-1	Greenhouse Gas Reduction Targets	Fresno Council of Governments	3-5
3-2	Forecasts for Fresno County 2014-2042, Preferred Scenario	Fresno Council of Governments	3-6
Chapter 4- Actions: Assessing Our Transportation Investment Needs			
Table #	Name of Table	Source	Page
4-1	Fresno Area Express (FAX) Performance History (1997-2016)	Fresno Area Express	4-34

Chapter 5- Financing Mobility: Funding Our Transportation System

Table #	Name of Table	Source	Page
5-1	Revenues Programmed by Transportation Mode	Fresno Council of Governments	5-13

Chapter 6- Public Participation: Working Together for a Better Plan

Table #	Name of Table	Source	Page
6-1	2018 RTP Roundtable Committee Listing	Fresno Council of Governments	6-2
6-2	2018 RTP Mini Grant Outreach Recipients	Fresno Council of Governments	6-5
6-3	June 2018 Demographic Polling of Outreach Participants	Fresno Council of Governments	6-9
6-4	Participant Ethnicity	Fresno Council of Governments	6-11
6-5	Participant Household Income	Fresno Council of Governments	6-11
6-6	Tables of Agencies Fresno COG Consulted During RTP Development	Fresno Council of Governments	6-13

Chapter 7- Environmental Justice Report: Ensuring Meaningful Involvement for All People

Table #	Name of Table	Source	Page
7-1	Fresno County Demographics	2010-2016 American Community Survey	7-7
7-2	Fresno County Demographics versus California and the United States	2011-2015 American Community Survey	7-7
7-3	Fresno County Demographic Changes	2000 US Census, 2006-2010 American Community Survey, California Department of Finance	7-7
7-4	Accessibility - Cumulative Average Peak Travel Times (Minutes)	Fresno Council of Governments	7-14
7-5	Mobility - Cumulative Average Peak Travel Time (Minutes)	Fresno Council of Governments	7-14
7-6	Percent Average Daily Vehicle Miles Traveled (VMT) LOS E or Worse Conditions (Very Congested)	Fresno Council of Governments	7-15
7-7	Air Contaminant Exposure, Household Units within 150 Meters of Class 1 and Class 2 Roadways	Fresno Council of Governments	7-16

Chapter 8- Transportation Performance Management: Investment Accountability and Efficiency

Table #	Name of Table	Source	Page
8-1	Performance Based Planning and Programming Implementation Timeline	Fresno Council of Governments	8-3
8-2	Timeilne of Safety Performance Measures	Fresno Council of Governments	8-4
8-3	Fatalities and Serious Injury Crashes by Jurisdiction (2009-2013)	Fresno Council of Governments	8-8
8-4	Top Contributing Factors for Fatal and Serious Injury Crashes (2009-2013)	Fresno Council of Governments	8-9
8-5	Top Crash Type for Fatal and Serious Injury Crashes (2009-2013)	Fresno Council of Governments	8-9
8-6	Comparison of 2018 Numbers for All Target Options	Fresno Council of Governments	8-10
8-7	Transit Asset Management Targets for 2018	Fresno Council of Governments	8-12

List of Figures *with sources*

Chapter 1- Building the RTP: Putting the Pieces Together			
Figure #	Name of Figure	Source	Page
1-1	The San Joaquin Valley's eight county region	Fresno Council of Governments	1-2
1-2	Fresno-Heart of California	Fresno Council of Governments	1-3
1-3	Population Growth Rate Since 1970	U.S. Decennial Censuses	1-4
1-4	Employment by Industry	2016 US Bureau of Labor Statistics	1-5
1-5	Unemployment Rate	2016 US Bureau of Labor Statistics	1-5
1-6	Educational Attainment	2016 American Community Survey	1-5
1-7	Median Household Income	2016 American Community Survey	1-5
1-8	Percent of Population Under 25 Years of Age	2016 American Community Survey	1-6
1-9	Percent of Minority Population	2016 American Community Survey	1-6
1-10	Fresno County Poverty Concentration	2016 American Community Survey	1-6
1-11	Fresno County Minority Concentration	2016 American Community Survey	1-7
1-12	Demographic Forecast Updates	Fresno Council of Governments	1-8
Chapter 3- Sustainable Communities Strategy: People. Choices. Community			
Figure #	Name of Figure	Source	Page
3-1	Fresno COG's SCS development process and timeline	Fresno Council of Governments	3-3
3-2	SCS Scenario Comparisons	Fresno Council of Governments	3-9
3-3	Greenhouse Gas Emission Reductions compared to 2005	Fresno Council of Governments	3-11
3-4	Housing Types	Fresno Council of Governments	3-11
3-5	Residential Density (units per acre)	Fresno Council of Governments	3-11
3-6	Transit Oriented Development	Fresno Council of Governments	3-11
3-7	Important Farmland Consumed (by SB 375 definition, in acres)	Fresno Council of Governments	3-11
3-8	Criteria Pollutants Emissions (tons per day)	Fresno Council of Governments	3-11
3-9	Active transportation and transit travel (thousand person trips)	Fresno Council of Governments	3-11
3-10	Daily Vehicle Miles Traveled (million miles)	Fresno Council of Governments	3-12
3-11	Premature Deaths Prevented Due to Active Travel	Fresno Council of Governments	3-12
3-12	Accessibility (average PM peak travel time in minutes)	Fresno Council of Governments	3-12
3-13	Accessibility (average AM peak travel time in minutes)	Fresno Council of Governments	3-12
3-14	2035 Land Use Pattern	Fresno Council of Governments	3-13
3-15	Housing Growth Density	Fresno Council of Governments	3-14
3-16	Employment Growth Density	Fresno Council of Governments	3-15
3-17	Farmland	Fresno Council of Governments	3-16
3-18	Critical Habitat	Fresno Council of Governments	3-17
3-19	Wetlands, Riparian Forests and Vernal Pools	Fresno Council of Governments	3-17
3-20	Floodplains and Groundwater Recharge Zones	Fresno Council of Governments	3-18
3-21	Parks and Open Space and Williamson Act Land	Fresno Council of Governments	3-18
3-22	Proposed Investments in the Revenue Constrained Transportation Network in the SCS	Fresno Council of Governments	3-20
3-23	Comparison of 2014 RTP and 2018 RTPs projects programmed by mode	Fresno Council of Governments	3-20
3-24	Capacity Increasing Projects	Fresno Council of Governments	3-22
3-25	Bus Rapid Transit Network	Fresno Council of Governments	3-23
3-26	Bus Rapid Transit Network	Fresno Council of Governments	3-28

Chapter 4- Actions: Assessing Our Transportation Investment Needs

Figure #	Name of Figure	Source	Page
4-1	Intermodal Transportation Network in Fresno County	Fresno Council of Governments	4-5
4-2	High Truck Volumes in Fresno County	Fresno Council of Governments	4-7
4-3	Regionally Significant Road System, Metro Area	Fresno Council of Governments	4-11
4-4	Regionally Significant Road System, Rural Area	Fresno Council of Governments	4-12
4-5	2010 Measure "C" Program, Urban Projects	Fresno Council of Governments	4-13
4-6	2010 Measure "C" Program, Rural Projects	Fresno Council of Governments	4-14
4-7	Fresno-Madera East-West Corridor Study	Fresno Council of Governments	4-17
4-8	Highway 99 Beautification Master Plan	Fresno Council of Governments	4-18
4-9	SR 180 Western Extension Corridor Study	Fresno Council of Governments	4-19
4-10	Transit Services - Urban Area	Fresno Council of Governments	4-24
4-11	FCRTA Services	Fresno Council of Governments	4-35
4-12	Airport Locations in Fresno County	Fresno Council of Governments	4-50
4-13a	Bikeway System - North Fresno	Fresno Council of Governments	4-65
4-13b	Bikeway System - South Fresno	Fresno Council of Governments	4-66
4-13c	Bikeway System - Clovis	Fresno Council of Governments	4-66
4-14	Bikeway System - Fresno County	Fresno Council of Governments	4-67
4-15	Rail Network - Metro Area	Fresno Council of Governments	4-71
4-16	Rail Network - Rural Areas	Fresno Council of Governments	4-72

Chapter 5- Financing Mobility: Funding Our Transportation System

Figure #	Name of Figure	Source	Page
5-1	Transportation Funding Flow Chart	Fresno Council of Governments	5-11
5-2	Scenario Funding Priorities	Fresno Council of Governments	5-12

Chapter 6- Public Participation: Working Together for a Better Plan

Figure #	Name of Figure	Source	Page
6-1	MetroQuest Online Survey Projects Map	Fresno Council of Governments	6-9

Chapter 7- Environmental Justice Report: Ensuring Meaningful Involvement for All People

Figure #	Name of Figure	Source	Page
7-1	Concentration of Minority Population	2012-2016 American Community Survey	7-9
7-2	Concentration of Low Income	2012-2016 American Community Survey	7-9
7-3	Environmental Justice and Vulnerable Community TAZs	Esri, USGS, NOAA	7-12
7-4	SB 535 Designated Disadvantaged Communities	Esri, USGS, NOAA	7-12
7-5	SB 535 Tracts, Environmental Justice TAZs and Vulnerable Community TAZs Map	Esri, USGS, NOAA	7-13
7-6	CalEnviroScreen 3.0, Environmental Justice TAZs and Vulnerable Community TAZs Map	Esri, USGS, NOAA	7-13

Chapter 8- Transportation Performance Management: Investment Accountability and Efficiency

Figure #	Name of Figure	Source	Page
8-1	Transportation Performance Management Areas	Fresno Council of Governments	8-3
8-2	Comparison of Population, VMT, and Fatalities between Fresno County and California	Fresno Council of Governments	8-6
8-3	Recent Year Trends for Each Safety Performance Measure in Fresno County	Fresno Council of Governments	8-7
8-4	Fatal and Serious Injury Crashes in Fresno County (2009-2013)	Fresno Council of Governments	8-8
8-5	Target Options Comparisons for Each Safety Performance Measure in Fresno County	Fresno Council of Governments	8-11