



Kimley»Horn



LARAMIE COUNTY BOARD OF COUNTY COMMISSIONERS MEETING

DECEMBER 1, 2020



AGENDA

- Project Overview
- LRTP Document Tour
- Supplemental Regional Planning Tools



PROJECT OVERVIEW



LRTP PURPOSE

- Federally-required document for all MPOs
 - Must be updated every five years
 - Requirement for allocation of federal funding
 - Projects must be in the LRTP to receive federal funding
- Provides a long-term blueprint for transportation investments
 - Establishes high-level goals and targets for transportation performance
 - Involves extensive public and stakeholder engagement
 - Prioritizes transportation projects for future TIP cycles
 - Defines future study and policy needs



CONNECT 2045 SCHEDULE



LRTP DOCUMENT TOUR











DOCUMENT OVERVIEW



1. INTRODUCTION



- Background
 - Cheyenne Region Overview
 - Cheyenne MPO History
- Planning Process
- Guiding Principles
 - 8 Project Goal Statements
 - Alignment with Federal and State Goals

Goal	Goal Statement
 Safety	Transportation facilities provide safe travel options for all residents and visitors .
 Growth	Stimulate growth in the economy, development, and tourism by providing a transportation system that accommodates current and future demand for the movement of residents, visitors, and goods .
 Integration	Integrate transportation and land use decisions to create and preserve neighborhoods that promote vibrant community character and encourage active living .
 Choices	Provide travel choices that are accessible to all travelers , promote local mobility, and reduce the impacts of transportation on the environment and neighborhoods.
 Efficiency	Optimize the use of existing infrastructure and opportunistic funding options to make prudent investments in the transportation network to maintain system predictability.
 Connectivity	Develop and maintain a multimodal transportation system that provides direct, continuous, and safe connections between local and regional destinations and services.
 Resiliency	Design transportation facilities and networks so they are secure and resilient to impacts from manmade or natural disasters .
 Maintenance	Extend the life of the transportation system and promote fiscal responsibility by emphasizing maintenance over system expansion.

2. COMMUNITY AND STAKEHOLDER OUTREACH



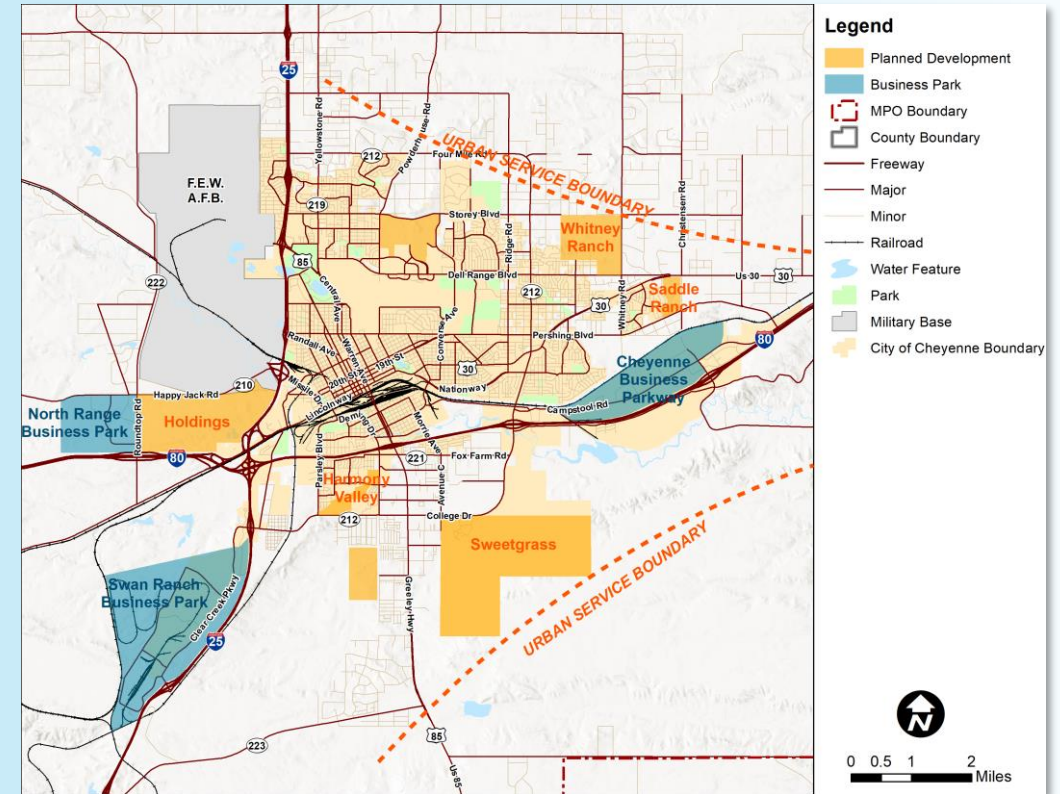
- Round 1 – Information Gathering
 - Online Survey and Community Input Map
 - Community Open House
 - Focus Group Meetings
 - Pop-Up Events at Holiday Craft Fair and La Rosa Market
 - SWOT Analysis of Themes
- Round 2 – Virtual Survey
 - MetroQuest Survey and Results
- Round 3 – Virtual Open House
 - Feedback on prioritization and initial fiscally constrained projects list
- Round 4 – Public Hearings
 - To be filled in after public hearings in November



3. CURRENT AND FUTURE DEMOGRAPHICS



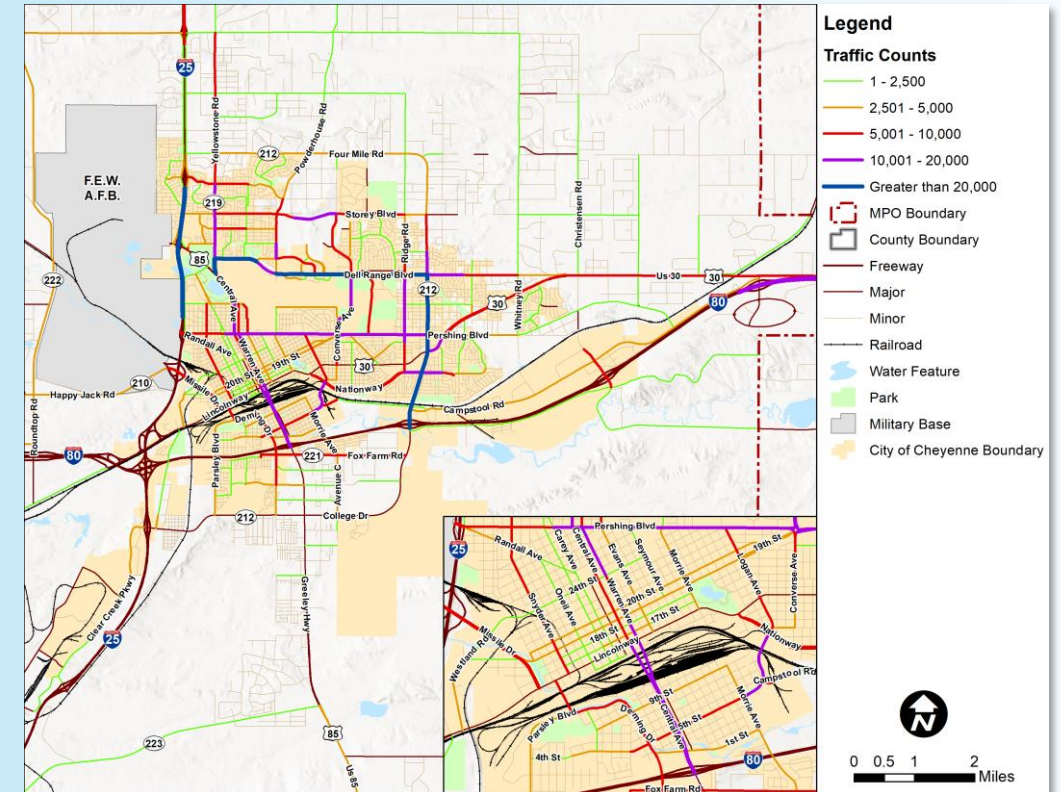
- Current Population and Employment
 - Historic population and household growth
 - Historic employment growth and industry concentrations
- Forecasted Population and Employment
 - Regional control totals for population and employment through 2045
- Regional Land Use and Demographics
 - Existing land use and densities
 - Future land use and densities
- Commuting Trends
 - Growth in commuters from outside of the Cheyenne region



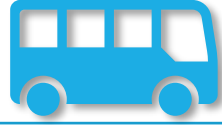
4. REGIONAL ROADWAYS



- Functional Classifications
 - How roads are supposed to function in Cheyenne
- Current Traffic Volumes and Congestion
 - Traffic counts and base year from travel demand model
- Forecasted Traffic Volumes and Congestion
 - 2045 traffic forecasts and congestion from the travel demand model
- Interchange and One-Way Street Analyses
- Safety
 - Crash trends and hot spots
- Roadway Capital Recommendations
 - List of projects that will be prioritized in later chapters



5. REGIONAL TRANSIT



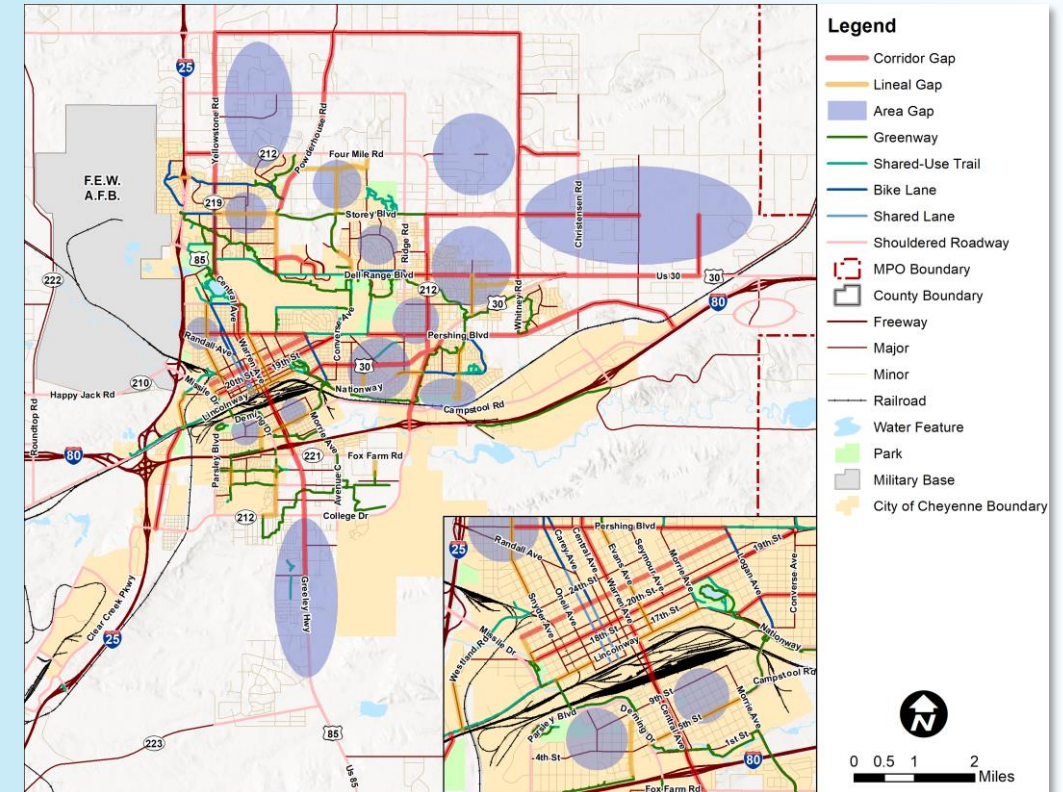
- Overview of Cheyenne Transportation Program
- System Performance Overview
 - Ridership characteristics
 - Performance metrics
 - Peer comparison to similar systems
- Transit Recommendations
 - Update Transit Development Plan
 - Potential priorities of future planning



6. REGIONAL BICYCLE AND PEDESTRIAN SYSTEM



- Existing Bicycle and Greenway Network
 - Existing facilities
 - Bicycle Level of Traffic Stress Analysis
- Existing Pedestrian Network
- Bicycle and Pedestrian Gaps Analysis
- Bicycle and Pedestrian Recommendations
 - Facility selection guidelines
 - Recommended bikeways and trails
 - Recommended pedestrian priority areas



7. REGIONAL AVIATION AND FREIGHT



- Aviation
 - Historic passenger totals at Cheyenne Airport
 - Aviation recommendations
- Freight
 - Freight routes
 - Freight recommendations



8. LIVABILITY AND ECONOMIC GROWTH



- Livability Principles
 - Livability goals and initiatives
 - Alignment between Connect 2045 goals and livability principles
- Travel and Tourism
 - Historic and forecasted tourism economic impact
 - Recommendations to promote increased tourism
- System Resiliency and Reliability
 - Flooding impacts on roadway system
 - Pavement conditions
- Emerging Transportation Technology
 - Shared mobility recommendations (bikeshare, carshare, scooters, etc.)
 - Connected and automated vehicles recommendations
- Unincorporated Enclaves
 - Incentives to encourage enclaves to incorporate into Cheyenne
- Ordinance Modifications
 - Recommendations to Cheyenne Unified Development Code
- Air Quality Recommendations

9. PROJECT PRIORITIZATION



- Roadway Capital Prioritization Elements
 - Datasets used in project prioritization
 - Alignment between prioritization and Connect 2045 goals
 - Prioritization results
- Bicycle Network Prioritization
 - Methodology and results
- Transit Prioritization
 - Reiteration of recommendation to update TDP
- Transportation Funding Sources
- Forecasted Funding through 2045
 - Roadway capital, roadway maintenance, active transportation, transit

Urban/ Rural

- Project inside or outside the urbanized area boundary

Safety & Security

- Number of crashes by severity (five most recent years)
- Pedestrian and bicycle crashes

Operational Efficiency

- Current volume to capacity ratio
- Forecasted 2045 no-build volume to capacity ratio
- Forecasted 2045 build-out volume to capacity ratio

Preservation & Resiliency

- Known flooding issues impacting the classified road system
- Pavement condition data

Livability & Econ. Growth

- Within a major growth area
- Within 1/4 mile of a school or park

Multimodal Integration

- Includes bike/pedestrian element
- On a planned bike route, freight route, or transit route

Bonus

- Public priority (as indicated by survey results)
- Steering Committee priority

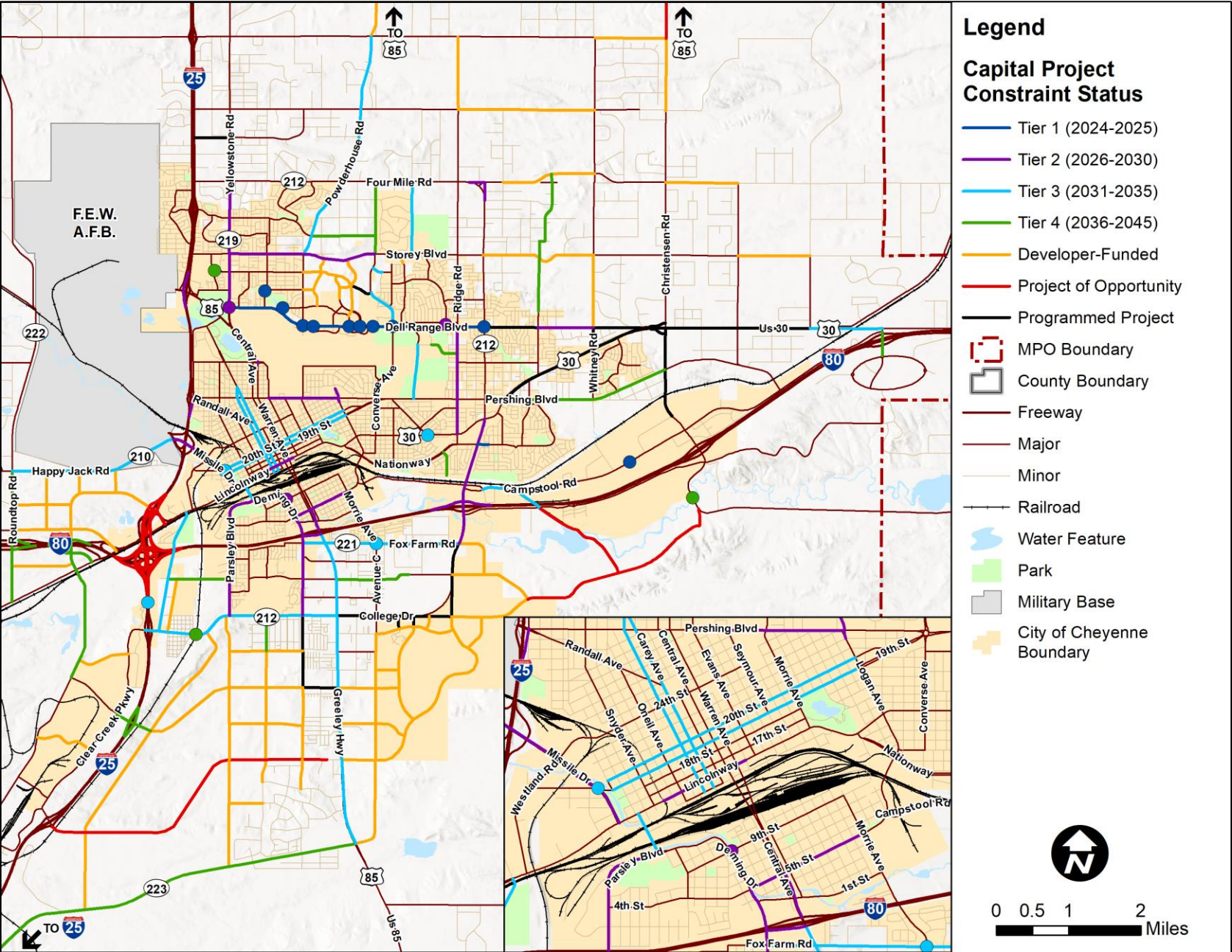
10. IMPLEMENTATION PLAN



- Roadway Capital Projects
 - Fiscally constrained projects list by funding band
 - Metropolitan Transportation Plan map
- Transit Projects
- Pedestrian/Bicycle-Only Projects
- Policies
- Future Studies



PROJECT FUNDING STATUS



TRANSIT AND PEDESTRIAN/BICYCLE RECOMMENDATIONS



- **Transit.** Update the Transit Development Plan
 - Improve the efficiency of paratransit
 - Evaluate the feasibility of express service
 - Evaluate service expansion to current gaps and future growth areas
 - Identify ways to limit transfers downtown to streamline trips
- **Greenway and On-Street Bicycle Projects.** Organized into 3 timeframes:
 - Short-term (0-5 years)
 - Mid-term (5-15 years)
 - Long-term (15-25 years)



POLICIES AND FUTURE STUDIES



■ Policies

- Complete streets policies
- Micromobility regulation
- Expand 5G ordinance
- Supplemental guidance on TIS/TIA requirements
- Expand Cheyenne UDC Article 4 to include additional multimodal facilities
- Encourage urban infill, redevelopment, adaptive reuse, affordable housing, and transit-oriented development in UDC Article 5
- Update parking minimums in UDC Article 6
- Policies to encourage incorporation into City of Cheyenne

■ Future Studies

- Transit Development Plan Update
- Bicycle and Pedestrian Plan Update
- Freight-Oriented Corridor/Intersection Plans
- Truck Parking Study
- Transloading Study
- Curbside Management Plan

11. SYSTEM PERFORMANCE REPORT



- Federal Performance Reporting Requirements
- Role of the System Performance Report
- Cheyenne MPO Performance
 - Summary of targets and performance

Priority Area	Measure	Target	Current Condition (2017)	Connect 2045 Investments Contributing to Target
Safety	Number of fatalities	130	123	Types of projects that address safety challenges include access control, bike enhancements, roadway widening, converting one-way streets to two-way streets, bridge reconstruction, construction of new roadways, and intersection realignment.
	Rate of fatalities	1400	1264	
	Number of serious injuries	471	382	
	Rate of serious injuries	5440	3925	
	Number of non-motorized fatalities and number of non-motorized serious injuries	30	28	Implementation of nine projects that are located on roadways with biggest safety concerns would be investment of approx. \$30 million in current dollars.
Infrastructure Condition	Percent of Interstate pavements in good condition	10%	21.4%	Implementation of four projects equating to \$13,750,000 in current dollars would support the region in addressing priorities related to infrastructure condition. Projects include those to reconstruct or widen roadways or specifically mitigate drainage issues on the roadway.
	Percent of Interstate pavements in poor condition	25%	0.5%	
	Percent of non-Interstate NHS pavements in good condition	5%	12.0%	
	Percent of non-Interstate NHS pavements in poor condition	65%	17.4%	
	Percentage of NHS bridges in good condition	30%	14.9%	2 bridge reconstruction projects would result in regional investment of almost \$10 million over the next 20 years, which would support bridge condition improvements.
	Percentage of NHS bridges in poor condition	8%	4.6%	
Congestion Reduction	Percentage of person-miles traveled on the Interstate system that are reliable (LOTTR > 1.5)	94%	99.8%	5 projects located on roadways that have existing congestion challenges would equate to about \$27.5 million.
	Percentage of person-miles traveled on the non- Interstate NHS system that are reliable (LOTTR > 1.5)	85%	90.7%	Projects identified to help address current or future congestion include elevating the functional classification of some roadways to a higher use (i.e. elevating a roadway from a collector to an arterial), widening roadways, and improving intersections.
	Truck Travel Time Reliability Index	1.44	1.24	22 projects involve constructing new roadways, 4 projects that involve converting one-way streets to two-way streets
Transit Asset Management	Rolling Stock Performance – Percentage of vehicles meeting or exceeding useful life benchmark for mileage	50%	68.8%	Through alignment with the TDP and the close coordination with the Cheyenne Transit Program, this LRTP will address and further the transit goals and opportunities for the region.
	Facilities Performance – Percentage of assets with condition rating at or above 3.0 on the FTA TERM scale	100%	100%	

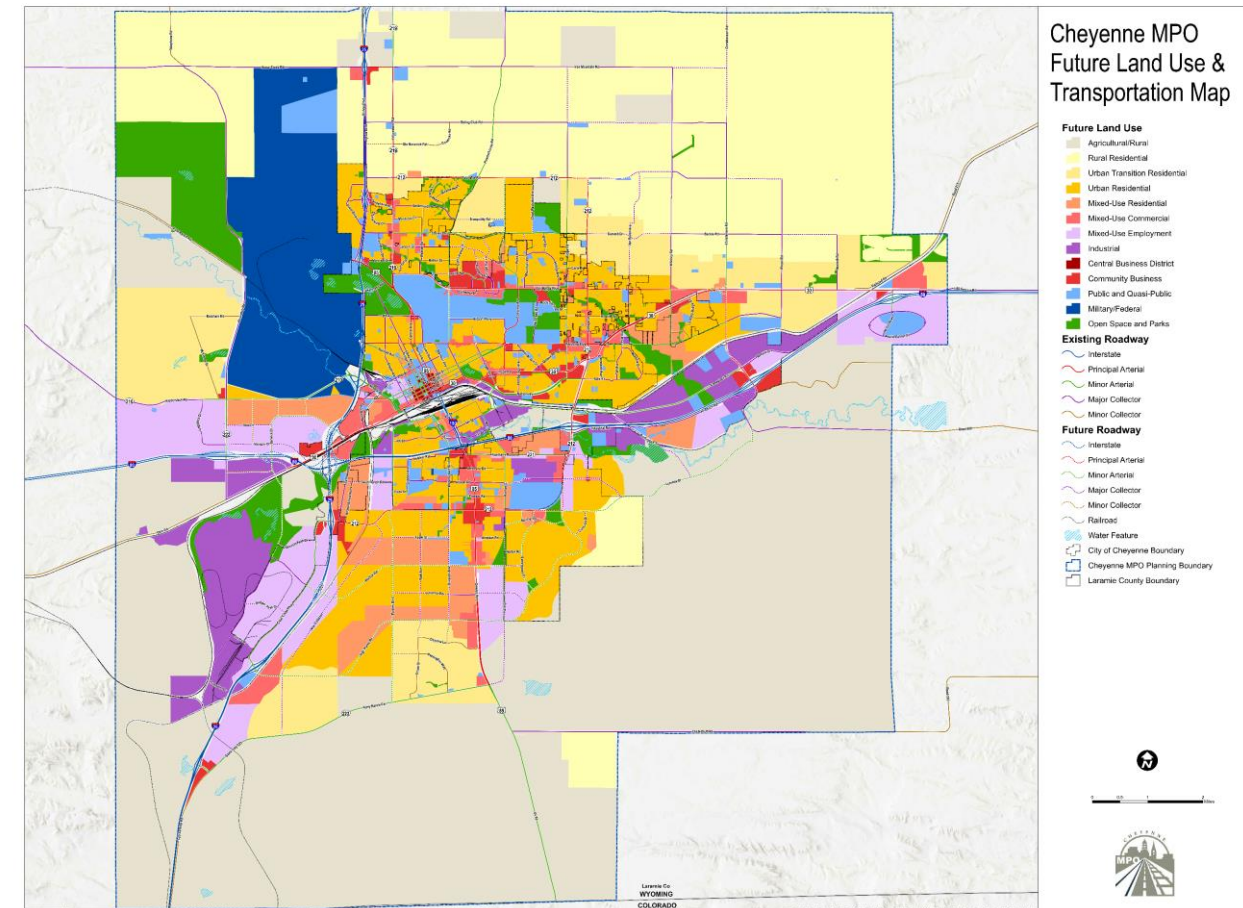
SUPPLEMENTAL REGIONAL PLANNING TOOLS



FUTURE LAND USE AND TRANSPORTATION MAP



- Large-scale map of future land use and roadways by functional classification
- Aids MPO in:
 - Conveying where future roadway facilities are planned
 - Determining if developer proposals are consistent with regional planning
 - Providing right-of-way dedication requirements
- Currently under review by City and MPO staff



THANK YOU!

- Questions?

