NEVADA DEPARTMENT OF TRANSPORTATION STRATEGIC PLAN

A Roadmap to the Future





TABLE OF CONTENTS

A MESSAGE FROM THE DIRECTOR	1
NDOT STRATEGIC PLANNING FRAMEWORK	2
GOAL 1: SAFETY FIRST	3
GOAL 2: CULTIVATE ENVIRONMENTAL STEWARDSHIP	5
GOAL 3: EFFICIENTLY OPERATE AND MAINTAIN THE STATE TRANSPORTATION SYSTEM	8
GOAL 4: ENHANCE INTERNAL AND EXTERNAL COMMUNICATIONS 1	.1
GOAL 5: ENHANCE ORGANIZATIONAL AND WORKFORCE DEVELOPMENT 1	.4
GOAL 6: CONSISTENT AND EFFECTIVE DATA MANAGEMENT1	.7
ADDITIONAL STRATEGIC PLANNING RESOURCES2	20

VEVADA DOT SAFE AND CONNECTED

A MESSAGE FROM THE DIRECTOR



The Nevada Department of Transportation (NDOT) is responsible for the planning, construction, operation, and maintenance of the 5,400 centerline miles and over 1,000 bridges that make up the state highway system. NDOT employs over 1,800 full time employees as well as seasonal employees located throughout the State who work around the clock to ensure our transportation system operates safely and efficiently for Nevada families, commerce, and our visitors.

Transportation projects are not just roadways. Projects focus on an integrated system of travel by automobile, rail, bike, air, or bus in addition to sidewalks and other facilities for pedestrians. Mobility trends are also changing as COVID-19

has shown that there may be long-term changes to travel patterns as more people work and study remotely.

Transportation systems are also becoming smarter, with technology playing an increasingly important role. Intelligent transportation systems help manage traffic patterns and provide messaging and information to assist motorists in avoiding crash sites and construction areas and keep traffic flowing safely. Strategic investments in technology are being made to keep the traveling public safe and informed with Active Traffic Management (ATM) signs on recent projects on I15 and the Spaghetti Bowl, Wrong Way Detection systems being piloted across the state, and other mobility applications.

We work with many partners, including the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, Federal Railroad Administration, local and tribal government agencies, utility companies, businesses, the public, and other state, regional and local entities to coordinate transportation efforts and improve results for the traveling public and communities.

This strategic plan highlights the Department's mission, vision, goals, objectives, and strategies that tie to the Governor's mission of creating a child and family-centered government to improve outcomes for all Nevadans. Planning strategies anticipate future developments in technology, communications, and infrastructure that will keep Nevada families and children safe and connected everywhere on the transportation system.

We are committed and available 24 hours per day, seven days per week, to keeping our transportation system safe for the traveling public and the goods and services that drive our economy.

I am very proud to be part of such an exciting future.

Regards,

Kristina Swallow, PE

Director, Nevada Department of Transportation



NDOT STRATEGIC PLANNING FRAMEWORK

Vision Statement

To be a leader and partner in delivering effective transportation solutions for a safe and connected Nevada.

Mission Statement

Provide, operate, and preserve a transportation system that enhances safety, quality of life and, economic development through innovation, environmental stewardship, and a dedicated workforce.

Values

Goals

- 1. Safety First
- 2. Cultivate Environmental Stewardship
- 3. Efficiently Operate and Maintain the State Transportation System
- 4. Enhance Internal and External Communications
- 5. Enhance Organizational and Workforce Development
- 6. Consistent and Effective Data Management

VEVADA DOT SAFE AND CONNECTED

GOAL 1: SAFETY FIRST

Tie to Nevada's Strategic Framework

Prioritizing safety practices in all aspects of Department planning, design, construction, operations, and maintenance to keep Nevada's families, commuters, commerce, and NDOT employees safe on the Transportation System.

Success Measures

- Reduction in 5-year rolling average of traffic fatalities and serious injuries by 1 or more
- Reduction in 5-year rolling average of non-motorized fatalities and serious injuries by 1 or more
- Reduction in workplace injuries and fatalities (2% per year)

Strategies and Actions

1. Develop and implement NDOT Team Safety Plan

- Assess current safety plan effectiveness
 Retain safety consultant to perform assessment of current team safety plan and provide improvement recommendations.
 (Q4 FY 2021)
- Develop enhanced team safety plan
 Develop team safety plan for all types of construction, operations, and maintenance work on the transportation system. (Q2 FY 2022)
- Implement enhanced team safety plan
 Develop and conduct mandatory safety training programs to address safety needs of staff performing field work.
 Update department-wide safety standards periodically for all field activities. (Q3 FY 2022)
- Ongoing measurement of safety plan implementation
 Identify and implement measurements, such as reduction
 in injuries and fatalities, and establish rewards for safe
 practices in all workplaces. (Q4 FY 2022)

2. Implement the Strategic Highway Safety Plan (FY 2021-2025)

Update the Strategic Highway Safety Plan for FY 2021-2025
Update the Strategic Highway Safety Plan that will guide
Nevada's traffic safety efforts for the next five years. Update the plan strategies and actions in the six critical emphasis areas: seatbelts, lane departures, impaired driving, pedestrians, motorcycles, and intersections. These represent the greatest opportunity to save lives and reduce the number of severe crashes and injuries.

(Q3 - FY 2021)

SAFETY & LOSS CONTROL ACHIEVEMENTS

- New program for injured workers to bring them back to work sooner
- Partnership with
 Districts to review
 equipment visibility

13% reduction in

traffic fatalities
in 2019 over

2018 (includes
non-motorized
and unrestrained
fatalities)



- Develop and implement speed management policy
 - Identify and collect data to evaluate effect of speed on roadway safety and research international best practices for speed management. Develop speed management policy that addresses implementation of best speed management strategies statewide to reduce future loss of life and injury. (Q3 FY 2021)
- Develop and implement passing/climbing lane prioritization process
 Conduct a study to establish a process to identify and prioritize feasible locations where a passing or climbing lane would provide benefit to the travelling public. Incorporate process into roadway project planning and design process.
 (Q2 FY 2021)

3. Support Nevada transportation highway safety legislation

Support safety-related bills for the 2021 Legislature
 Identify specific safety-related bill drafts and bill draft requests by the Department or other agencies for the 2021 Legislature. Provide legislative testimony in support of safety bill passage. (Q2 – FY 2021)

Early Safety Measures



Clear roadway markings save lives

2020s Safety Measures



#Orange4Safety work zones

Associated Planning Resources (see Page 20 for additional info and hyperlinks)

- Strategic Highway Safety Plan
- Nevada Statewide Bicycle Plan
- NDOT Employee Safety Manual
- One Nevada Plan
- Emergency Operations Plan

VEVADA DOT SAFE AND CONNECTED

GOAL 2: CULTIVATE ENVIRONMENTAL STEWARDSHIP

Tie to Nevada's Strategic Framework

Implementing policies and best practices to reduce greenhouse gases (GHG); increasing effectiveness of stormwater management; and optimizing environmental review for environmental protection will improve public health and enhance the quality of life for Nevada families and all users of the transportation system.

Success Measures

- Implementation of policies to reduce GHG in design, construction, and maintenance of Transportation System (using NCFRP Guidance to meet Level 2 status)
- Increase number of Sustainability Assessments for GHG reduction on major projects (1% per year)
- Reduction of illicit discharge and reportable spills over 25 gallons at NDOT-staffed maintenance facilities (rolling 3-year average)

Strategies and Actions

- 1. Implement GHG emission reduction strategies in project design, construction, and maintenance
 - Establish baseline GHG emission inventory for NDOT operations
 - Conduct survey to identify current areas of GHG emissions and identify targets for reduction strategies. (Q1 FY 2021)
 - Conduct research on procedures and materials to reduce GHG emissions during design, construction, and maintenance Identify low-carbon material mixes, sources, and practices to standardize in design specifications. Evaluate procedures that improve traffic flow and reduce congestion and engine idling during construction and maintenance. (Q2 – FY 2021)
 - Evaluate sustainability assessment tools supporting GHG emission reduction and air quality improvement
 Review and recommend sustainability assessment and rating tools in the planning, design, and delivery of NDOT projects, and to improve air quality in maintenance and non-attainment areas. (Q2 – FY 2021)
 - Adopt GHG emission reduction strategy plan for NDOT operations

Incorporate prioritized GHG reduction policies, implementation strategies, guidance, and schedule in NDOT GHG Emission Reduction Strategy Plan. (Q2 – FY 2021)

ENVIRONMENTAL STEWARDSHIP ACHIEVEMENTS

Implemented
Elementary School

Internship Program
for Stormwater
Pollution Plan

Award--winning video on NDOT projects to reduce vehicular/wildlife collisions and injuries

https://youtu.be/ NK-mvhPMokY



 Develop partnerships to support state-wide transportation GHG emission reduction strategies

Explore opportunities for partnerships with federal, state and local agencies, industry, and other stakeholders to develop and implement GHG emission reduction strategies in the entire Nevada transportation sector. (Q4 – FY 2021)

- 2. Enhance environmental program through integrated GIS and data management tools
 - Develop and implement Environmental GIS system
 Establish the requirements for the Environmental GIS System to meet regulatory requirements and be compatible with NDOT business processes. Develop and implement integrated GIS solutions and tools to streamline and create efficiencies in environmental review and clearance tracking. (Q4 FY 2021)
 - Upgrade environmental data management to facilitate mobile access in the field
 Migrate the existing Environmental Clearance mapping to the cloud in ArcGIS
 Online and build the mobile application. This will provide a real-time source of data
 from the evaluation of project and material sites that can be used in land-use and
 material site decision making. (Q4 FY 2022)
 - Integrate GIS and data management tools
 Complete migration of all GIS mapping and mobile applications from the cloud to the on-premises NDOT Enterprise GIS Environment in IT. This integration will provide better support for Quality Assurance, Quality Control and includes an automated asset change management tool. (Q4 FY 2023)
- 3. Increase effectiveness of Stormwater Management Program
 - Advance stormwater compliance review within NDOT and statewide
 Upgrade the Stormwater Compliance Technology System through enhanced stormwater GIS technology. The system will enhance the compliance review and inspection reports for NDOT design, construction, maintenance and operations, outfalls, and material source sites discharging to the waters of the United States Conduct workshops on the Stormwater Management Program (SWMP) plan and Facilities Pollution Prevention Plan (FPPP) in all NDOT Districts as part of the state-wide outreach program. (Q4 FY 2021)
 - Enhance Best Management Practices (BMPs) and stormwater management tools
 Evaluate existing USGS software for use in NDOT stormwater infrastructure planning
 and management to assist with BMP implementation of temporary and permanent
 pollution control measures on NDOT construction and maintenance projects. (Q4 FY 2021)
 - Increase environmental and stormwater management awareness through public outreach

Refine and implement the stormwater and environmental outreach campaign, in coordination with NDOT Communications Division, to include environmental education content based on stormwater management program data. The broadcast outreach will be primarily through social media platforms with web/virtual outreach during COVID-19 or similar restrictions. In addition, develop and broadcast new stormwater PSAs on television and radio. (Q4 - FY 2021)



Deer Migration Patterns Cross NDOT Systems



Significant crash fatality risk for humans and wildlife

Wildlife Crossings Built Over Migration



Wildlife and traffic separation for safer travel on roads

Associated Planning Resources (see Page 20 for additional info and hyperlinks)

- Stormwater Management Plan
- One Nevada Transportation Plan
- one Nevaua Transportation Fi
- Landscape and Aesthetics Master Plan and Individual Corridor Plans
- ADA Transition Plan

VEVADA DOT SAFE AND CONNECTED

GOAL 3: EFFICIENTLY OPERATE AND MAINTAIN THE STATE TRANSPORTATION SYSTEM

Tie to Nevada's Strategic Framework

Cost effectively optimizing transportation system resources to deliver safe, timely, and smooth travel for Nevada's families, commuters, and commerce.

Success Measures

- Improve travel time reliability (percent of Person Miles Traveled that are reliable)
- Truck travel time reliability (percent of Person Miles Traveled that are reliable)
- NDOT facilities and buildings assessed, repaired, and maintained (2% per year)
- Percent of state roadways maintained in "Fair or Better" condition (goal per roadway category)

Strategies and Actions

1. Continue implementation of the One Nevada Transportation Plan

- Adopt FY 2021-2024 Statewide Transportation
 Improvement Plan (STIP) and Annual Work Program
 Formalize program, project, and harmonization processes.
 Refine the harmonization process to determine if additional critical project types can be included in the Multi-Objective Decision Analysis (MODA) to prioritize projects across various program areas. Project types to consider include betterment projects that maintain the condition of lower-volume state roads, and projects that address needs such as performance measures, safety, or ADA. Submit proposed FY 2021-2024 STIP and Annual Work Program for approval.
 (Q1 FY 2021)
- Integrate performance-based planning throughout NDOT Institutionalize performance-based planning through the following strategies: (Q4 – FY 2024)
 - Policy and process guidance
 - Improve analytical capabilities with program tools, models, resources
 - Optimize resource allocation among program areas
 - Improve data quality, coverage and reporting across region
 - Stakeholder engagement in decision-making
 - Integration of MODA with existing modal and program data
 - Staff training on the process
 - o Effective Department-wide communication and coordination of information

SYSTEM OPERATIONS & MAINTENANCE ACHIEVEMENTS

Updated Pavement
Condition goals

✓ approved by
Transportation
Board of Directors

EAMS
Implementation
funded by NV
Legislature

Phase 1 of One
Nevada Plan - datadriven performancebased project
prioritization
process developed



2. Implementation and optimization of enterprise asset management system (EAMS):

Continue development and implementation of EAMS modules
 Complete the system implementation of the pavement data module, including uploading pavement data from equipment driving around the state and inspection of roads for cracking and distresses. The module will be further developed to compare pavement data and to develop and rank prioritized projects in the One Nevada Transportation Plan. (Q3 - FY 2021)

Implement module for Structures (Bridges) Input and refine the inventory of statewide bridges. Develop deterioration curves and prediction models for all types of bridges. Develop long-term strategy for predicting overall bridge condition. (Q3 – FY 2021)

Implement remaining EAMS modules
 Complete the system implementation for remaining modules including Stormwater and Hydraulics. (Q4 – FY 2021)

3. Develop building and facility maintenance and repair plan

Develop inventory of condition of existing facilities
 Catalog the condition, level of urgency, and occupancy data for all existing buildings and facilities. Input the data to the Department's DecisionLens software for review and comparison of maintenance and repair options, and to prioritize facility needs statewide. (Q2 – FY 2021)

 Develop annual facility maintenance and repair plan
 Develop first annual plan including maintenance and repair options in alignment with the designated approved funding. (Q4 - FY 2021)

Develop long-term facility maintenance and repair strategic plan
 Develop building deterioration prediction models to determine future building and
 facility upgrade requirements to meet system needs and protect department assets.
 Include alternative options in a long-term strategic plan for the maintenance and
 repair of NDOT facilities statewide. (Q2 – FY 2022)

4. Predict and address mobility trends

Conduct transportation demand scenario planning study Identify and evaluate future types of travel and demands on the transportation system, considering the temporary and permanent changes in business operations and lifestyle due to COVID-19 or any future pandemic. In addition, evaluate the effect of Nevada greenhouse gas (GHG) reduction and other environmental goals on travel modes. (Q4–FY 2021)

Track land use and development in urban areas
 Develop GIS maps with current and proposed regional land use and roads under all ownership. Track proposed developments through scheduled urban planning meetings. (Q4 – FY 2021)



• Use travel demand forecasting as input to land use planning

Utilize land use and development data and trends along with Traffic Operations and Traffic Information in transportation planning. This input and recommendations can be provided to the Local Public Agency's for selection and approval of future developments in their jurisdictions. (Q4 – FY 2022)

Early System Operations & Maintenance



Highway maintenance equipment

2020s System Operations & Maintenance



Maintaining safe roads in all conditions

Associated Planning Resources (see Page 20 for additional info and hyperlinks)

- One Nevada Transportation Plan
- State Highway Preservation Report
- Performance Management Report
- Emergency Operations Plan
- Statewide Transportation Improvement Program
- Transportation Asset Management Plan



GOAL 4: ENHANCE INTERNAL AND EXTERNAL COMMUNICATIONS

Tie to Nevada's Strategic Framework

Proactive customer service and up-to-the-minute communication on transportation updates, travel disruptions, and alternative options so that Nevada's families, commuters and commerce can reliably plan and adjust their travel to be safe, smooth and on time to their destinations.

Success Measures

- Increase in customer service survey ratings (3% per year)
- Reduce negative/neutral media sentiment by (2% per year)
- Increased engagement on social media platforms (5% per year)
- Increase virtual public engagement attendance (hosting 4+ virtual activities per year)

Strategies and Actions

1. Improve internal and external customer service

- Full implementation of Zendesk™ system
 Complete the implementation of the Zendesk customer service tracking management system of customer interactions. (Q2 FY 2021)
- Implement customer service survey process
 Customize monthly customer service surveys via Zendesk™ to solicit input and provide ratings of ongoing customer service satisfaction levels. Develop and conduct a bi-annual comprehensive public survey to solicit input on a range of customer service areas from a broader audience.
 (Q2 FY 2021)

2. Build a cohesive state-wide communications program

Develop and implement external communications plan
 Conduct online survey on communication needs and preferences for external stakeholders and partners; followed by detailed in-person interviews with selected stakeholders.
 Develop report with SWOT analysis and short- and long term recommendations for external communications.
 Develop and implement external communications plan.
 (Q4 – FY 2021)

INTERNAL & EXTERNAL COMMUNICATION ACHIEVEMENTS

Successful Public

✓ Education Plan for Project Neon

> Maintained Customer

Service
Satisfaction
Rate of Over
75%

Increased Positive

Coverage by 15% since 2018



Improve social media communications

Evaluate DOT social media programs in other states to categorize and identify pros and cons of the program types, structures and content strategies. Update NDOT social media plan to include strategies that best meet Nevada's needs and enhance the public's and stakeholders' experience on all social media platforms. Develop and rollout enhanced social media platforms and promote enhancements to the public and stakeholders. (Q2 – FY 2021)

• Modernize public engagement for the post-COVID world

Review other states' DOT and RTC public engagement strategies updated as a result of COVID-19 challenges and consider which have changed permanently and which could return to pre-COVID engagement activities. Analyze public engagement best practices in general around the U.S. Select strategies that best align with NDOT goals, experience to date dealing with COVID-19, and Nevada statute requirements. Develop and implement the updated public engagement plan. (Q4 – FY 2021)

3. Evaluate and update Communications structure and policies

Assess Communications team roles and responsibilities

Review other states' DOT and RTC communication team structures and best practices to identify those that align with NDOT government affairs and communications needs and staffing levels. Develop and implement an updated Communications organizational structure and associated roles and responsibilities. (Q3 – FY 2021)

 Increase leverage of Public Information Office (PIO) and Multimedia divisions capabilities

Conduct a SWOT analysis of both PIO and multimedia divisions for current practices and capabilities. Identify future goals and priorities reconciling current practices with evolving practices nationwide. Develop a business product plan that identifies and enhances products in alignment with goals and updated multimedia guidelines. Develop and implement a comprehensive communications plan including product tracking, communication calendars, collaboration tools and engagement goals. (Q4 – FY 2021)

• Create more predictability and structure in all communications

Review communication organizational processes within each department. Identify which of the most common and important tasks and processes need to be documented in defined policy documents. Evaluate process flowcharts for consistency and reference by new or back-up team members. Implement and track application of policies and flowcharts and update on a periodic basis. (Q3 - FY 2021)



Early Communication Method



Temporary road closure signage

2020s Instant Communication



Breaking news on Facebook

Representative Work Products

- NevadaDOT Social Media (Facebook, Twitter)
- Press Releases: nevadadot.com/news
- Public Meetings:
 https://www.nevadadot.
 comdoing-business/public-involvement-information



GOAL 5: ENHANCE ORGANIZATIONAL AND WORKFORCE DEVELOPMENT

Tie to Nevada's Strategic Framework

Providing an exceptional workforce and fully performing organization that provides consistent, reliable, and cost-effective services to all Nevada families.

Success Measures

- Critical function back-up coverage list maintained (100%)
- Increased Employee Satisfaction Survey Ratings (2% increase annually)
- Increased employee retention (Benchmark)

Strategies and Actions

- 1. Conduct proactive organizational change process to address emerging trends
 - Conduct organizational study
 Conduct consultant study to assess impact of emerging trends in transportation and business on the NDOT organizational structure and positions. Develop recommendations for organizational changes, timeframes to meet future needs, and the associated change management processes. (Q4 FY 2021)
 - Track and implement organizational plan
 Track emerging trends for triggers to implement
 organizational study recommendations, change
 management process and plan updates. (Q4 FY 2022)
- 2. Ensure Business and Operational Continuity
 - Identify critical functions and gaps in responsible positions
 Create a list of critical functions with associated current and back-up responsible positions. Identify gaps in coverage and additional positions for coverage. (Q2 FY 2021)
 - Develop and implement cross training for critical function positions
 Develop online desk manuals and training plans for identified function areas using the institutional knowledge and experience of the current incumbents of those responsible positions. Conduct cross training for all back-up position staff and new responsible staff as they are designated. (Q4 FY 2022)

ORGANIZATIONAL & WORKFORCE ACHIEVEMENTS

- Implemented

 ✓ onboarding

 program
 - Created workforce
- development coordinator position
 - Increased training
- ✓ compliance from 70% in FY 2015 to 90% in FY2020



3. Consistent administration of Department policies and procedures

- Assess effectiveness of current policy and procedure administration
 Identify areas and causes of inconsistency in the application of Department policies and procedures. Clarify and remove any inconsistencies between documents in the identified areas. (Q2 FY 2021)
- Develop and implement plan for consistent policy and procedure administration
 Develop a plan to improve equal and fair administration of policies and procedures
 including training and use of multiple communication methods. The application of
 policies and procedures will be tracked for consistency and follow-up coaching
 offered where needed. (Q4 FY 2022)

4. Retain and enhance mid-career talent

- Conduct study on mid-career talent programs
 Retain consultant to complete a SWOT analysis and recommend the most effective program to retain and promote mid-career talent in conjunction with the goals of the State Division of Human Resource Management and the unions. (Q3 FY 2021)
- Adopt and implement program to retain and promote mid-career talent
 Identify program sponsor and owner responsible for the program and cross-functional (SCRUM) team, which will create the product and be responsible for project success. Develop policy and procedures for the program with participation of stakeholders and union representatives. Conduct training for stakeholders prior to implementation of program. (Q4 FY 2022)

5. Improve employee satisfaction

- Assessment of employee satisfaction
 Analyze trends in areas of improvement and successes from annual employee surveys and employee exit interviews. Create a plan including strategies to address low satisfaction areas and reinforce areas of high satisfaction to improve overall employee satisfaction and retention. (Q2 FY 2021)
- Implement and track plan to increase employee satisfaction
 Implement plan recommendations and track employee satisfaction and retention
 levels. Periodically make plan adjustments based on tracking data. (Q4 FY 2021)



Very Early Workforce



Pioneering work teams

2020s Diverse Workforce



IT team members

Associated Planning Resources (see Page 20 for additional info and hyperlinks)

• Executive Budget

- NDOT Employee Satisfaction Report
- Performance Management Report



GOAL 6: CONSISTENT AND EFFECTIVE DATA MANAGEMENT

Tie to Nevada's Strategic Framework

Providing accessible, accurate traffic and infrastructure data that drives strategic investment decisions on improving the transportation system so that Nevada families, workers, and commerce experience safe, reliable, and timely travel.

Success Measures

- Improve travel time reliability (percent of Person Miles traveled that are reliable)
- Truck travel time reliability (percent of Person Miles traveled that are reliable)
- Level of effort to acquire data for decision-making and reporting (Minor, Reasonable, Significant)
- Mobility Data Inventory List maintained

Strategies and Actions

- Develop Department-wide (Enterprise) data and analytics program
 - Develop roadmap for data and analytics program
 Develop the strategy, governance, and organizational structure for the data and analytics program. Create program criteria and prioritization processes for efficient program rollout and reporting. Identify list of key business and infrastructure priorities to be addressed by the program. Develop an Enterprise Communication Plan so the Department Enterprise System understands the data and analytics program, activities, and policies and procedures. (Q2 FY 2021)
 - Develop program policies and procedures
 Develop resource and operational model policies and procedures in alignment with the governance and organizational structure. Define data ownership and stewardship aligned with all business priority areas. (Q4 FY 2021)
 - Establish demand management processes and systems
 Develop procedures for tracking data requests and projects in alignment with the established business priorities.
 (Q4 FY 2021)

DATA MANAGEMENT ACHIEVEMENTS

- Executive
 Governance
 Committee
 Formed
- consolidation of legacy standalone systems

Progressive

- Implementation of Enterprise
- Asset
 Management
 System (EAMS)
 Modules

- Develop initial data catalog
 - Evaluate all existing information assets to identify gaps and potential future projects. (Q2 FY 2022)
- Research and develop modern data management platform strategy and roadmap
 Establish requirements for data management platform needs and develop an
 implementation plan to be initiated when funding is available (Q4 FY 2021)

2. Consolidate and transform Department data systems

• Consolidate multiple project management systems

Consolidate existing stand-alone legacy systems that are no longer being supported, into one master project management system to track and report project estimating, scheduling, project management, contract management, funding, grant management, e-bidding, and right-of-way processes. (Q4 – FY 2021)

- Consolidate GIS and mapping systems
 - Consolidate multiple GIS and mapping systems into a master GIS and mapping system to facilitate Department-wide information sharing and reporting. (Q2 FY2021)
- Consolidate multiple asset management systems

Consolidate existing stand-alone asset management systems for pavement, maintenance, bridge, and stormwater into a master asset management system to achieve efficiencies and facilitate Department-wide asset reporting. (Q2 – FY 2022)

3. Improve mobility data availability for planning, operations, and performance measurement

- Develop mobility data inventory
 - Document all existing operations process mobility data, its location, means of access, and responsible party. (Q2 FY 2022)
- Develop a mobility regional coordination group

Create a forum for cross-organizational collaboration on data management functions related to roadway travel mobility data. This will include data sharing and integration of roadway travel mobility data within the region to address gaps and redundancies within the Mobility Data Plan. Develop a standard format for mobility data sharing across the region and share upcoming data projects and results of completed projects to identify and establish best practices. (Q2 – FY 2022)

Develop Department mobility data business plan

Assess all existing mobility data to identify strengths, weaknesses, opportunities, and threats (SWOT). Create the framework and governance for the mobility data business plan. Develop performance measurement reports for operations, maintenance, and asset management processes, such as reducing response time to resolve congestion in problem areas or disruption on the system. Create mobility data core groups, coordinators, and stewards responsible for coordination of data programs and adherence to the plan governance and framework. Adopt Mobility Data Business Plan and implementation process to be initiated when funding is available. (Q4 – FY 2022)



Early Data Management in Process



Plans on the ground

2020s Data Management in Practice



Active Traffic Management (ATM) messaging

Associated Planning Resources (see Page 20 for additional info and hyperlinks)

- One Nevada Plan
- State Highway Preservation Report
- Performance Management Report
- Statewide Transportation Improvement Program (STIP)
- Transportation Asset Management Plan (TAMP)



ADDITIONAL STRATEGIC PLANNING RESOURCES

The Nevada Department of Transportation has many planning documents that are an integral part of the strategic planning process. Key plans are listed below with hyperlinks for further details.

ADA Transition Plan

Important Americans with Disabilities (ADA) accessibility improvement projects are listed in this plan.

https://www.nevadadot.com/home/showdocument?id=40

Airport System Plan

This document provides a framework for the continuing discussion of potential statewide actions to protect the investment in Nevada's public use airports from the effects of incompatible development in areas surrounding the airports.

https://www.nevadadot.com/mobility/aviation/nevada-airport-system-plan

Nevada Statewide Bicycle Plan

The Statewide Bicycle Plan focuses on infrastructure and connectivity needs for rural areas outside of the bicycle planning jurisdictions within the following metropolitan planning organization (MPO) areas in Nevada: Carson Area MPO, Regional Transportation Commission (RTC) of Southern Nevada, Tahoe MPO, and Washoe County RTC.

https://www.nevadadot.com/home/showdocument?id=3632

Emergency Operations Plan

The Nevada Department of Transportation Emergency Operations Plan (NDOT EOP) supports the State of Nevada Comprehensive Emergency Management Plan. The purpose of the NDOT EOP is to establish the Department's response and recovery roles during an emergency/disaster.

Executive Budget

The Department's budget (as well as the entire Nevada Executive Budget) is available for viewing online. This document includes the department's spending plans for current and past biennia.

http://budget.nv.gov/StateBudget/Prior/



Freight Plan

This document describes the framework needed to create the robust and reliable freight transportation infrastructure necessary for Nevada's continued economic growth and diversification. To this end, the plan identifies freight transportation hubs and facilities critical to Nevada's economic growth and recommends appropriate prioritization for investments in these hubs and facilities.

https://www.nevadadot.com/mobility/freight-planning/nevada-freight-plan

State Highway Preservation Report

This report identifies the bridge and pavement conditions, funding, and anticipated condition based on various funding scenarios.

https://www.nevadadot.com/doing-business/about-ndot/ndot-divisions/planning/performance-analysis

Landscape and Aesthetics Master Plan and Individual Corridor Plans

This document provides enhanced visions for the state highway system, and includes policies and guiding principles, describes the planning and design process, and discusses general characteristics that influence landscape and aesthetics planning and design for various classifications of highways, open space, and rest areas. Individual plans contain recommendations for various corridors.

https://www.nevadadot.com/projects-programs/landscape-aesthetics

One Nevada Plan

The One Nevada Plan seeks to meet federal long-range transportation planning requirements and to better align Nevada's various transportation plans and processes and create a framework to make more informed transportation decisions.

https://www.nevadadot.com/projects-programs/road-projects/onenvplan#:~:text=One%20 Vision%2C%20One%20Plan%2C%20One%20Nevada%20The%20One,the%20priorities%20 of%20Nevada's%20public%20and%20transportation%20partners.

Performance Management Report

NDOT's Performance Management Report includes: (1) an annual report of performance measures and general project information, (2) benefit-cost analyses for capacity projects that cost at least \$25 million, (3) information regarding projects funded with Las Vegas Convention and Visitors Authority funding, and (4) general project information for Blue Ribbon Task Force projects and any proposed super and mega (major) highway projects.

https://www.nevadadot.com/doing-business/about-ndot/ndot-divisions/planning/performance-analysis



Nevada State Rail Plan

The Nevada State Rail Plan is a document that sets forth policy involving freight and passenger rail, sets priorities and strategies to enhance rail service in the state to benefit the public, and serves as the basis for federal and state investments within Nevada.

https://www.nevadadot.com/mobility/rail-planning/state-rail-plan

Ramp Metering Performance Measurement Plan

This document presents guidance on how to effectively and consistently monitor, evaluate, and report the operations of ramp meters deployed throughout Nevada.

https://www.nevadadot.com/home/showdocument?id=4722

Strategic Highway Safety Plan

This plan was developed to save lives by addressing the frequency, rate, and primary factors contributing to fatal and severe injury crashes in Nevada.

https://www.nevadadot.com/safety/nevada-strategic-highway-safety-plan

Statewide Transportation Improvement Program (STIP)

This document is the state's transportation capital improvement program. Federally funded and regionally significant projects across the state are included in the STIP.

https://www.nevadadot.com/projects-programs/proposed-transportation-projects

Stormwater Management Plan (SWMP)

The SWMP provides an executive summary and outlines how the Department will conduct business and work to achieve and maintain compliance with the requirements of the Municipal Separate Storm Sewer Systems (MS4) Permit.

https://www.nevadadot.com/home/showdocument?id=11584

Transit - Nevada State Management Plan

The Nevada State Management Plan is the transit plan for Rural and Small Urban Areas of Nevada. The United States Department of Transportation, Federal Transit Administration (FTA) requires that each state adopt policies and procedures to be used in administering various federal rural transit programs.

https://www.nevadadot.com/mobility/transit

Transportation Asset Management Plan (TAMP)

The Department has made a significant investment in its transportation system, with a replacement value of nearly \$23 billion for pavements, bridges, and Intelligent Transportation System assets. This plan proposes a proactive asset preservation strategy to extend the service lives of these assets.

https://www.nevadadot.com/home/showdocument?id=15636