

## **Road Usage Charges**

Joseph Simon, Principal Analyst, LFC July 5, 2022

## What Are Road Usage Charges?

- Payments assessed to drivers based in proportion to how much they are using public roadways
- Differ from tolls, which are payments to access a specific road or bridge
- Generally, a set amount per mile of driving
- Often designed as a replacement for gasoline taxes

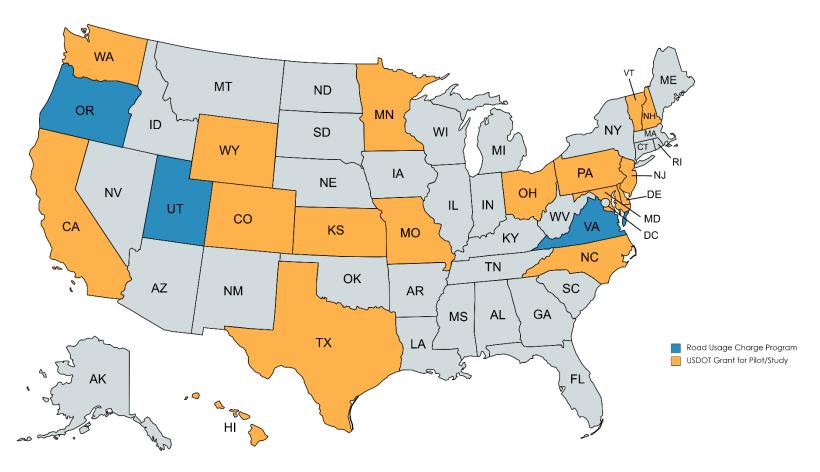


## Why Road Usage Charges?

- Nationally, road construction and maintenance are highly dependent on gasoline taxes for funding
- Increases in fuel efficiency have challenged this funding model
  - Average fuel economy for model year 2020 vehicles was 25.7 miles per gallon, up 29 percent from the model year 2005 average of 19.9



# Who Is Considering Road Usage Charges?





## General Characteristics of Current Programs

- States are starting small
- Restricted to high fuel efficiency vehicles: electric, plug-in hybrid, or gasoline hybrid vehicles
- Participants are volunteering for the programs
  - States have adopted a supplemental registration fee for high efficiency vehicles;
     volunteers opt-in to a program to replace the flat fee with a per mile charge
  - Maximum road usage charges are capped at the flat fee amount to encourage participation



### Identified Issues

- How much do you charge per mile?
  - Generally between 1¢ and 2¢ per mile
  - Indexed?
- Do the fees apply to travel on out-of-state or private roads?
- How do you collect mileage totals?
  - Manual readings of odometers? By vehicle owner or by official?
  - Onboard telematics
  - Smartphone applications



### Identified Issues

### Administrative costs

- Federal funds available in the short term
- Does starting now save the state in the future?

### Privacy Issues

- Pilot programs evidence suggests a GPS-enabled device (smartphone, on-board telematics) isn't a concern for some
- In one pilot program, about ½ of users chose a option involving location-based mileage reporting, about ½ of users chose an option that did not involve GPS.
- Privacy protections can be built into enabling legislation



## Federal Funding

- Federal grant money is available for states
  - Funds have been available since 2016, but federal officials think high matching requirements (50 percent) may have discouraged applicants.
- Infrastructure Investment and Jobs Act includes two programs; the federal share of costs increased to 80 percent
  - Strategic Innovation for Revenue Collection: \$15 million per year for 5 years, to test the feasibility of a road user fee and other user-based alternative revenue mechanisms.
  - National Motor Vehicle Per-Mile User Fee Pilot: \$10 million per year for 5 years, to demonstrate a national motor vehicle per-mile user fee.



# Questions?

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#### PERFORMANCE REPORT CARD

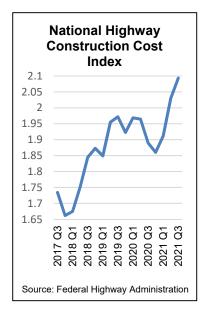
Department of Transportation Third Quarter, Fiscal Year 2022

#### **ACTION PLAN**

Submitted by agency? Yes

Timeline assigned? No

Responsibility assigned? No



Economic data shows construction costs increasing significantly in calendar year 2021, including road construction costs. Preliminary data from the Federal Highway Administration shows a 10.9 percent year-over-year increase in road construction costs nationally.

In recent years, the Legislature has made significant nonrecurring appropriations to the Department of Transportation (DOT) for road construction and maintenance in response to deteriorating road conditions as pavements age and maintenance funding is insufficient to maintain or improve the condition of the transportation network. DOT has done well managing projects as illustrated in the department's consistent ability to complete projects on-time and on-budget. The supplemental performance information, attached to this report, includes additional information on the significant nonrecurring investments made by the Legislature.

#### **Project Design and Construction**

To judge the performance of the department's project planning and execution, measures covering the ability of the department to plan and complete projects on-time and within budget are tracked. The department has significantly improved its ability to put projects out to bid as scheduled. Of the 34 projects year-to-date, the department has put 33 out to bid as scheduled, improving significantly from prior year performance. Although construction costs continue to climb, cost overruns remain below the target of 3 percent; with construction projects closing in the third quarter over budget by \$1.8 million.

Decreases in the number of projects completed on schedule are of note, particularly due to the significant resources made available to the department for projects. Global supply chain issues and increases in the number of construction projects generally may pose operational challenges for the department.

<b>Budget:</b> \$613,837.9 FTE: 368	FY20 Actual	FY21 Actual	FY22 Target	FY22 Q1	FY22 Q2	FY22 Q3	Rating
Projects put out for bid as scheduled	75%	77%	67%	100%	93%	100%	G
Projects completed according to schedule	92%	94%	88%	100%	88%	77%	Y
Final cost-over-bid amount on highway construction projects	1%	1.8%	3.0%	-0.3%	1.9%	1.2%	G
Program Rating	G	G					G

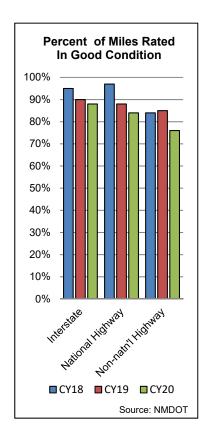
#### **Highway Operations**

Maintenance activity typically slows during the third quarter, as road crews transition to cold-weather operations; however, the department is on track to substantially surpass the FY22 target for roadway preservation. Overall, the number of bridges rated in poor condition remains below target; in future years the department will have access to additional federal and state funds to remediate the 4 percent of bridges currently listed in poor condition.

Budget: \$250,882.6 FTE: 1,859.7	FY20 Actual	FY21 Actual	FY22 Target	FY22 Q1	FY22 Q2	FY22 Q3	Rating
Statewide pavement miles preserved	3,970	3,852	3,000	2,031	1,304	205	G
Bridges in fair condition or better, based on deck area	96%	96%	90%	96%	96%	96%	G
Program Rating	G	G					G

#### PERFORMANCE REPORT CARD

Department of Transportation Third Quarter, Fiscal Year 2022



DOT assesses all New Mexico roads each calendar year using a Pavement Condition Rating (PCR) score to measure roadway condition. For calendar year 2020, road condition data show New Mexico roadways deteriorated significantly from the prior year with lane miles in deficient condition increasing 54 percent year-over-year. Calendar year 2021 data will not be available until May 2022.

A PCR score of 45 or less indicates a road in poor condition. In 2020, the average PCR score for the state was 54.9, down from 57.4 the prior year. The annual decline of 2.5 shows that funding was insufficient to maintain, let alone improve, the condition of New Mexico roadways. Additionally, because there are so many lane miles in fair condition with PCR scores less than 50, it is likely that, without significant investment, lane miles in poor condition will continue to see rapid growth.

Between 2016 and 2020, the proportion of roadways in poor condition increased from 17.4 percent to 23.8 percent. However, road conditions vary significantly by district; in 2020, district 2 had the worst average condition with 28 percent or roads in poor condition while district 6 had the best condition with 10.2 percent of roads in poor condition.

CY20 Road Condition Survey	CY17 Actual	CY18 Actual	CY19 Actual	CY20 Target	CY20 Actual	Rating
Interstate miles rated fair or better	93%	95%	90%	>90%	88%	Y
National highway system miles rated fair or better	89%	97%	88%	>86%	84%	Y
Non-national highway system miles rated fair or better	79%	84%	85%	>75%	76%	G
Lane miles in poor condition	4,606	3,783	4,420	<5,425	6,805	R
Program Rating	G	G	G			Y

#### Modal

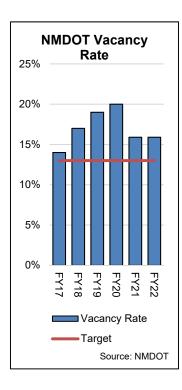
Nationwide, traffic fatalities have increased, with federal data indicating more traffic fatalities in 2021 than in any year since 2005. NMDOT data reflects this increase. Total fatalities are on track to surpass FY21, possibly related to increasing traffic. Data indicates alcohol-related fatalities are down. Pedestrian fatalities and unbelted fatalities remain persistently high. Park and ride and rail runner service was curtailed as a result of stay at home orders and remote work for state agencies. Despite decreased remote work for state agencies, usage remains significantly lower than historic levels.

<b>Budget:</b> \$77,875.2 FTE: 126	FY20 Actual	FY21 Actual	FY22 Target	FY22 Q1	FY22 Q2	FY22 Q3	Rating
Traffic fatalities	424	411	<357	140	117	106	R
Alcohol-related traffic fatalities	176	113	<125	22	15	24	G
Non-alcohol-related traffic fatalities	248	298	<232	118	102	82	R
Occupants not wearing seatbelts in traffic fatalities	158	171	<133	60	46	40	R
Pedestrian fatalities	83	76	<72	29	31	27	R
Riders on park and ride, in thousands	175	53.6	235	22.3	22.3	26.1	R
Riders on rail runner, in thousands*	516	40.9	N/A	70.9	72.4	69.8	
Program Rating	R	R					R

<sup>\*</sup>Measure is classified as explanatory and does not have a target.

### PERFORMANCE REPORT CARD

Department of Transportation Third Quarter, Fiscal Year 2022



#### **Program Support**

The department received exemptions from the statewide hiring freeze and has maintained a stable staffing rate even as vacancy rates across the state increase. The department is on track to experience fewer than 90 injuries and fewer than 35 injuries in work zones. The department notes injuries resulted in no lost days of work.

The department did not report a vacancy rate for the third quarter, but data from the State Personnel Office in April suggests a vacancy rate of about 18 percent.

<b>Budget:</b> \$43,856.7	FTE: 252.8	FY20 Actual	FY21 Actual	FY22 Target	FY22 Q1	FY22 Q2	FY22 Q3	Rating
Vacancy rate in all progra	ims	20.4%	15.9%	13.0%	15.8%	15.9%	NR	R
Employee injuries		54	35	90	19	5	17	G
Percent of invoices paid w	vithin 30 days	93%	93%	90%	93%	93%	93%	G
Employee injuries occurri zones	ing in work	13	11	35	10	2	3	G
Program Rating		G	G					G



#### SUPPLEMENTAL PERFORMANCE INFORMATION

Department of Transportation Third Quarter, Fiscal Year 2022

#### **Department of Transportation Special Appropriations**

In the third quarter NMDOT expended \$42 million from special transportation appropriations, with just over half of appropriations made before the end of FY21 spent. However, less than half of 2019 appropriations for major investments has been spent, though the department did encumber funds for the final project midway through Q4, which is not reflected on this sheet. The department was given 5 years to spend these funds, which will revert at the end of FY24. A list of select major investment projects and project status is attached.

The department has yet to commit funds appropriated for road projects during the December 2021 special session, but expects to do so in July. The department did commit funds for purchasing electric vehicle charging infrastructure. Recently, the department awarded \$7.3 million for essential air service grants, not shown on the table below. Department staff indicate the two grant recipients—airports in Las Cruces and Gallup—can begin drawing those funds in the fourth quarter.

### Special Transportation Appropriations, 2019 to 2022

Expenditures and Encumbrances through March 2022

						Percent	Reversion
Year	Туре	Appropriation	Expended	Encumbered	Spent in Q3	Expended	Date
2019	for state roads, MIPS	\$175,000,000	\$79,624,865	\$57,235,856	\$6,641,271	45%	6/30/2024
2019	for state roads, maintenance	\$100,000,000	\$94,362,345	\$4,748,358	\$184,081	94%	6/30/2024
2019	for local roads	\$50,000,000	\$45,676,564	\$2,974,523	\$1,701,804	91%	6/30/2024
	Subtotal: 2019	\$325,000,000	\$219,663,775	\$64,958,737	\$8,527,156	68%	6/30/2024
2020	for state roads, maintenance/MIPS	\$135,000,000	\$123,792,377	\$8,817,335	\$3,086,271	92%	6/30/2023
	Subtotal: 2020	\$135,000,000	\$123,792,377	\$8,817,335	\$3,086,271	92%	6/30/2023
2021	for state roads, MIPS	\$170,000,000	\$32,764,115	\$28,022,391	\$13,288,500	19%	6/30/2025
2021	for local roads	\$121,000,000	\$18,748,726	\$102,251,274	\$17,363,414	15%	6/30/2025
2021	for essential air service <sup>1</sup>	\$9,000,000	\$0	\$0	\$0	0%	
	Subtotal: 2021	\$300,000,000	\$51,512,841	\$130,273,664	\$30,651,914	17%	6/30/2025
2021 Sp.	for state roads, MIPS	\$142,500,000	\$0	\$0	\$0	0%	6/30/2025
2021 Sp.	for roadway beautification	\$10,000,000	\$0	\$0	\$0	0%	6/30/2025
2021 Sp.	for regional airports	\$10,000,000	\$0	\$0	\$0	0%	6/30/2025
2021 Sp.	for electric vehicle charging	\$10,000,000	\$0	\$1,498,294	\$0	0%	6/30/2025
	Subtotal: 2021 Special	\$172,500,000	\$0	\$1,498,294	\$0	0%	6/30/2025
2022	for state roads, MIPS	\$247,500,000	\$0	\$0	N/A	0%	6/30/2025
2022	for I-40/I-10 Planning	\$25,000,000	\$0	\$0	N/A	0%	6/30/2025
2022	for regional airports	\$5,000,000	\$0	\$0	N/A	0%	6/30/2025
2022	for equipment/district offices	\$9,000,000	\$0	\$0	N/A	0%	6/30/2025
2022	for the transportation project fund	\$60,000,000	\$0	\$0	N/A	0%	6/30/2025
2022	for rest area improvements	\$20,000,000	\$0	\$0	N/A	0%	6/30/2025
2022	for essential air service	\$5,000,000	\$0	\$0	N/A	0%	6/30/2025
2022	for w ildlife corridors	\$2,000,000	\$0	\$0	N/A	0%	6/30/2025
	Subtotal: 2022	\$373,500,000	\$0	\$0	\$0	0%	6/30/2025

¹NM DOT awarded \$3.8 million to the City of Gallup and \$3.5 million to Dona Ana County, but these funds were not encumbered until Q4.

Source: SHARE

### **Department of Transportation Major Investment Projects Status Report, Q3 2022**

						Amount	Amount	
District	Road	Project and Loca	ation	Status N	ote	Expended	Encumbered	Total
111	-10	Lordsburg Bridge Replaceme	nt	Contracto	or is finalizing project.	\$7,267,801	\$4,301,492	\$11,569,293
111	-10	Lordsburg Bridge Replaceme		ises by Quarter			rovement Program	
G			FY21 Q4	\$1,863,827	Statewide 1		Section 9 (2019)	\$4,000,000
			FY22 Q1	\$1,847,897		OAA	Federal Funds	\$2,915,883
l ett	ing Date:	12/18/2020	FY22 Q2	\$2,178,000			Road Fund	\$706,536
	mpletion:		FY22 Q3	\$1,378,077		Tot	al Cost Estimate	\$7,622,419
001	приспоп.	11/3/2022	1 122 QU	\$1,070,077			Section 9 (2020)	\$4,413,837
						OAA.	(2020)	ψ+,+10,001
				Project delay from March	completion estimate:	I		
				under partial suspension				
1 1	NM-404	Bridge replacement at I-10 int	erchange	diadi partiai susperioloi	plans put in place	\$13,357,783	\$7,717,627	\$21,075,410
				nses by Quarter			rovement Program	
R			FY21 Q4	\$4,935,284			Section 9 (2019)	\$9,100,000
			FY22 Q1	\$2,517,795			Federal Funds	\$8,529,65
Lett	ing Date:	8/21/2020	FY22 Q2	\$2,887,994			State Road Fund	\$1,461,700
	mpletion:	8/30/2022	FY22 Q3	\$2,744,713			al Cost Estimate	\$19,091,35
				Project is under construct	tion and progressing	ı		
211	JS-285	US-285 Corridor, Phase 1		however, estimated c		\$24,460,996	\$24,008,234	\$48,469,230
	J3-20J	03-203 Corridor, Friase 1	Evner	l ises by Quarter			rovement Program	
G			FY21 Q4	\$7,819,846	Statewide 1		Section 9 (2019)	\$42,934,243
			FY22 Q1	\$1,851,590			al Cost Estimate	\$42,934,243
l ett	ing Date:	4/24/2020	FY22 Q2	\$2,307,657		100	ai Oost Estimate	Ψ <b>7</b> 2,337,270
	mpletion:		FY22 Q3	\$2,338,641				
001	inpiction.	Not reported	1 122 QU	Ψ2,000,041				
3	-25	Los Lunas Corridor, I-25 Inter W Corridor from I-25 to NM-4	7	NMDOT reports a local been executed; construction	on expected to begin this spring.	\$1,676,740	\$7,677,669	\$9,354,409
		·		ises by Quarter	Statewide T		rovement Program	
Y			FY21 Q4	\$0		GAA	Section 9 (2019)	\$5,000,000
			FY22 Q1	\$0		GAA	Section 9 (2021)	\$15,200,000
			FY22 Q2	\$941,908			Local Funds	\$20,436,427
			FY22 Q3	\$529,314			Federal Fund	\$118,517,050
Lead	Agency:	Village of Los Lunas	<del></del>			Tot	al Cost Estimate	\$159,153,477

#### Department of Transportation Major Investment Projects Status Report, Q3 2022

							Amount	Amount	
District	Road	Project and Location	n	Status I	No	te	Expended	Encumbered	Total
				Projects funds encum	nbe	ered after close of			
				quarter (May 2022); o	cos	sts now estimated			
4	NM-39	Pavement rehabilitation north of L	ogan_			at \$24.4 million	\$0	\$0	\$0
			Expens	ses by Quarter		Statewide T	ransportation Imp	rovement Program	Estimates

Project is under construction, scheduled

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Letting Date: 3/18/2022 Completion: Not Reported

of Tucumcari

Expen	ses by Quarter	S
FY21 Q4	\$0	
FY22 Q1	\$0	
FY22 Q2	\$0	
FY22 Q3	\$0	

	Total Cost Estimate	\$21,910,292			
	Federal Funds	\$777,753			
	State Road Fund	\$132,539			
	GAA Section 9 (2019)	\$21,000,000			
Statewide Transportation Improvement Program Estimates					

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4 US-54

Letting Date:

Completion:

FY22 Q1 FY22 Q2 6/26/2020 FY22 Q3 8/30/2022

Reconstruction and Rehabilitation, East side

Expenses by Quarter						
FY21 Q4	\$1,690,451					
FY22 Q1	\$718,994					
FY22 Q2	\$3,651,741					
FY22 Q3	\$2,170,650					

comp	letion, August 2022	\$19,271,626	\$11,529,102	\$30,800,728
	Statewide T	ransportation Imp	rovement Program	Estimates
0,451		GAA	Section 9 (2019)	\$13,100,000
8,994			Local Funds	\$845,881
1,741			State Road Fund	\$95,796
0,650			Federal Funds	\$7,470,406
		Tot	al Cost Estimate	\$21,512,083

Road reconstruction and bridge rehabilitation, 5 NM-68 miles 7 to 10, north of Alcalde

Project is in construction \$7,957,756 \$10,215,735 \$18,173,491

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 Expenses by Quarter

 FY21 Q4
 \$1,791,642

 FY22 Q1
 \$788,543

 FY22 Q2
 \$1,156,507

 FY22 Q3
 \$928,669

Total Cost Estimate	\$23,614,148	
State Road Fund	\$1,909,421	
Federal Funds	\$11,204,727	
GAA Section 9 (2019)	\$10,500,000	
Statewide Transportation improvement Program Estimates		

Letting Date: 4/17/2020 Completion: Not Reported

	Design and ROW acquistion for Allison	
	Corridor Project, from NM 118 to Kachina	Project is in design; constructi
6 I-40	Road in Gallup	to b

construction estimated to begin in 2023. \$1,646,156 \$1,066,731 \$2,712,887



 Expenses by Quarter

 FY21 Q4
 \$456,941

 FY22 Q1
 \$83,326

 FY22 Q2
 \$291,105

 FY22 Q3
 \$593,195

Statewide Transportation Improvement Program	Statewide Transportation Improvement Program Estimates		
GAA Section 9 (2019)	\$4,500,000		
Capital Outlay (General Fund)	\$1,500,000		
Total Cost Estimate	\$6,000,000		

Letting Date: Not Reported Completion: Not Reported

#### Department of Transportation Major Investment Projects Status Report, Q3 2022

District	Road	Project and Location	Status Note	Amount Expended	Amount Encumbered	Total
		Reconstruction and Rehabilitation of Carbon	Project is under construciton with			
6	US-491	Coal Road and Intersection at US-491, Gallup	estimated completion date in November	\$13,842,889	\$13,707,016	\$27,549,904



Expen	ses by Quarter	Statewide Transportation Improvement Progran	n Estimates
FY21 Q4	\$4,480,361	GAA Section 9 (2019)	\$22,000,000
FY22 Q1	\$2,005,078	State Road Fund	\$190,249
FY22 Q2	\$2,197,993	Capital Outlay (General Fund)	\$11,000,000
FY22 Q3	\$4,014,063	Total Cost Estimate	\$33,190,249

Letting Date: 12/18/2020 Completion: 11/14/2022

#### Notes

Statewide Transportation Improvement Program estimates are provided to illustrate the scope of the project and how the department blends funding from multiple sources to complete projects. The latest estimates may not reflect actual costs due to increases in construction costs.

Completion dates are estimates from NMDOT's active projects website or from NMDOT staff.