

THE UNIVERSITY OF TEXAS AT AUSTIN CENTER FOR TRANSPORTATION RESEARCH

Technical Memorandum 1

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Subject:	DPS-CTR IAC Contract – Technical Assistance to TxDPS Driver License Division, Technical Memorandum 1: Literature Review
Date:	March 2, 2020; Updated August 17, 2020

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Executive Summary

This technical memorandum contains four major chapters:

- Chapter 1 introduces current DLD practice in Texas, as well as driver license programs in other U.S. states. Basic statistics for DLD are presented.
- Chapter 2 summarizes the findings from a review of the literature, including long wait time complaint, and the various efforts made by agencies to reduce the wait time and improve efficiency.
- Chapter 3 summarizes the key findings of this technical memorandum.

The study team carefully categorized, thoroughly analyzed, and systematically documented all the information obtained from the literature review, using the resulting synthesis to arrive at the key findings presented in this technical memorandum:

- A thorough review of driver license programs in Texas and other states is performed;
- Although driver license programs are managed and operated by different agencies across the U.S., complaints about long wait times are a common issue;
- The Federal REAL ID citizenship and lawful presence documentation requirements have significantly impacted wait and transaction times in Texas and most other states;
- Various factors have been identified to cause long customer wait time;
- Various actions have been taken by agencies to reduce wait time, including optimizing workflow and process, employing self-check in kiosks, recruiting more employees, etc.; and
- Certain actions could potentially be adopted by DLD to reduce wait time

This technical memorandum will serve as a solid foundation for this project, on which we can conduct such activities as surveys and safety impact quantification.

Chapter 1. Driver License Division (DLD) Practices

1.1. History and Scope of DLD

The Texas Department of Public Safety (DPS) Driver License Division (DLD) operates and manages the Driver License Program in Texas. The original driver license law took effect on February 14, 1936 (Senate Bill 15, 44th Legislature, Second Called Session, 1935), requiring each driver to possess a license issued by the Department or by the County Tax Collector. In 1937 (House Bill 16, 45th Legislature, Regular Session), DPS took full responsibility for all the functions concerning the licensing of drivers. By 1950, the DLD gave tests to applicants for original licenses, examined those with suspended licenses, issued renewals, and analyzed records of careless/reckless drivers as a basis for suspension or cancellation. The Division maintained an examining service in each of the 254 county seats, and in the larger cities. After the 1957 reorganization, the Division's name was changed to Driver License Service. As of February 2000, the Division oversaw the issuance of Texas driver's licenses and identification cards, maintained driver record files, administered all driving examinations, and coordinates services related to driver improvement, safety responsibility, and customer service. Prior to 1970, the Division was placed under the Traffic Law Enforcement Division, where it remained until the late 1990s, when it was again made an independent division (TxDPS, 2020). Today, DLD has become the second largest division in DPS with 231 driver license offices (DLOs) and testing sites and about 2,900 full-time employees (as of October 15, 2019) across the state. DLD is committed to "creating a faster, easier, and friendlier driver license experience and a safer Texas" (TxDPS 2017).

The major responsibilities of DLD are to issue Texas driver licenses and identification cards; collect, maintain, and provide driver records; and investigate and prevent identity fraud related to licenses and identity cards (Sunset Advisory Commission, 2009). According to Texas Comptroller of Public Accounts, about 23.7 million Texans hold a Texas driver license or a DPS-issued identification card. In FY2018, nearly 7.5 million transactions were completed by DLD involving licenses and identification cards, including issuance, renewals, and replacements, 5.9 million of which were face-to-face transactions (Texas Comptroller of Public Accounts 2019).

DLD provides the following major services:

• Driver license services:

- Apply for a driver license (12 types of licenses or learner permits, including 3 types of commercial licenses). In addition, special driver licenses are issued for individuals based on legal or medical factors.
- Renew/replace a driver license
- Move to Texas (Transferring a valid license or obtaining a new license or ID Card when moving to Texas from another state)
- Change your address/name
- Out-of-state renewals
- o Manage additional requirements for Drivers 79 years & older
- Veteran services (check disability verification documents and provide veteran designation for driver licenses and ID cards)
- Administer the Federal REAL ID program for Texas including electronic copying and database storage of proper documentation verifying US citizenship
- o Vision Test
- o Take thumb prints
- o Photo service
- During driver license or ID card processing ask the customer if they want to donate to 4 charities; collect information if necessary
- During driver license or ID card processing ask the customer if they want to become an organ donor; collect information if necessary
- During driver license or ID card processing ask the customer if they want register to Vote; collect information if necessary
- Collect Selective Service System information when issuing a driver license or ID card to males ages 18 to 25. Transmit information to the Selection Service System on a weekly basis.
- Determine and document Endorsements & restrictions
- Maintain Driver License System database (DLS) which contains all Driver Records and transactions
- Manage Impact Texas Drivers (ITD) Program, including Impact Texas Teen Drivers (ITTD) program and Impact Texas Young Drivers (ITYD) program to improve safety through awareness and education
- Manage Third Party Skill Testing (TPST) Program to reduce wait time to take Class C non-commercial driving test. DLD evaluates

qualifications/credentials to issue certificate to qualified Driver Education schools. The certification process includes:

- Testing of the Driver Education school instructors
- Audit and approval of the drive route used for the drive test
- o Obtain and document Emergency Contact Information
- Identification card (ID) services
 - Apply for/renew/replace ID card
 - Change address
 - Out-of-state renewals
 - Veteran services

Thirty-one DPS DLOs provides commercial driver license (CDL) services:

- CDL driving test
- Apply for/renew/replace a CDL
- CDL Handbook (both English and Spanish, online)
- Apply for a non-domicile CDL
- Manage CDL third-party skill testing (TPST) program, which authorizes qualified companies certified by DLD to administer the driving skills examination for Class A, B, and C CDL applicants. A certified TPST provider must have a Designated Responsible Person and an Examiner certified by the Department.
- Endorsements & restrictions:
 - An endorsement allows a commercial vehicle driver to operate certain types of commercial motor vehicles and transport specific items. In total, there are 6 types of endorsements, which are listed in Table 1:

Endorsement Code	Description
	Allow driver to transport hazardous materials, such as
Н	flammable or combustible liquids, gases, or explosives. A
11	comprehensive state and federal background check is
	required
Ν	Allow driver to operate a tank vehicle, which is designed to
11	safely transport liquid or liquefied gaseous materials
Р	Allow driver to operate a vehicle that carries a specific
1	number of passengers
S	Allow driver to operate a school bus
Т	Allows driver to tow a double or triple trailer
v	Combination of N and H, which allows driver to transport
Λ	hazardous materials in a tank vehicle

 Table 1. Six Types of Commercial Driver License Endorsements

• A restriction code may be placed on any type of driver license (both non-commercial and commercial) to make the individual a better driver. For example, one of the most common restriction codes is Code A—with corrective lenses. See the complete list of 66 restrictions:

https://www.dps.texas.gov/DriverLicense/endrsRestrictions.htm

- Medical certification
- CDL instruction videos (online)

It is apparent from this list of functions that DLD performs several activities that are not directly related to issuing a driver license or ID card, but are required to be performed under state or Federal law.

In addition, the DLD website also provides customers the options of 'getting in line at local office online' to reduce wait time and to renew a driver license and ID card online if the individual is eligible. According to the DLD website, the following online services are provided:

- Driver license and ID Renewal:
 - How-to Videos: Provide YouTube Videos to assist customers and provide information on some of the most frequently asked questions, including the following: 1. How to check the status of your driver license or ID; 2. How to obtain a driver license if it has been expired for more than two years; 3. How to apply for a Texas driver license; and 4. How to get in line online before you arrive at the office.
 - Renew your driver license or ID online application
 - Change your address on your driver license or ID online application

- Renew or Replacing Your driver license or ID While You Are Outof-State Step-by-step Instruction
- Track a driver license or ID that you recently renewed or changed online application
- New Texas driver license or ID:
 - Link to all required documentation for a Texas Driver License or ID
 - o Check Lawful Presence Status online application
- Driver Record:
 - Driver record request online application
 - Check your driving eligibility and see if you owe fees online application
- Schedule before you go to a DLO:
 - Schedule a driving test online application
 - "Get in line" online application
- Surcharges and the Driver Responsibility Program:
 - Provide a link to Driver Responsibility Program (Surcharge) Repeal frequently asked questions where customers can obtain very comprehensive information
- Enforcement Actions:
 - Pay reinstatement fees online application
 - Find court information for failure to appear or failure to pay online application
 - Request a hearing for a license suspension, cancellation, revocation, denial, or disqualification online application
 - Request an Administrative License Revocation (ALR) hearing for a breath or blood test failure or refusal online application
- Teen and Adult Driver Education:
 - Provide link to Parent Taught Driver Education Programs managed by Texas Department of Licensing and Regulation
 - Provide link to Adult Driver Education Programs managed by Texas Department of Licensing and Regulation
 - Provide link to Impact Texas Drivers (ITD Program) managed by DPS

- Provide detailed information on Impact Texas Drivers (ITD Program)
- Crash Records:
 - Provide link to Crash Records Information System (CRIS) managed by Texas Department of Transportation, where customers can search for and purchase crash reports
- CDL How to Videos:
 - Provide links to a series of YouTube videos on CDL instructions, including engine start, school bus, engine components, the exterior, the axles, and the coupling systems
 - Provide the procedures and requirements on how to get a CDL

1.1.1. Federal REAL ID Compliance

In 2005, the United States Congress passed the REAL ID Act, which requires states to adopt and implement uniform standards for the issuance and production of stateissued driver licenses and identification cards if they are to be accepted as identity documents by the federal government. This Act strengthens the integrity and security of state-issued cards in an effort to reduce identity fraud and terrorism, and improve the reliability and accuracy of state-issued identification document. Beginning October 1, 2020, only state-issued driver licenses and identification cards that are fully compliant with the REAL ID Act will be accepted for official federal government purposes, such as entering secure federal buildings or boarding domestic flights. The cards will be marked with a gold circle with an inset star located in the upper right-hand corner. DLD began issuing REAL ID compliant cards on October 10, 2016. To reduce customer's exposure to identity theft and fraud, ensuring the validity of the information and documentation, DLD utilizes a nationally recognized driver license and ID issuance process, which involves verifying your identity, residency, and US Citizenship or lawful presence. According to DLD, the following documents are required when applying for a Driver License or ID card in Texas:

- Proof of citizenship or lawful presence (photocopies are not accepted) can include the following documents: US passport book or passport card; birth certificate or birth record issued by the appropriate state Bureau of Vital Statistics or equivalent agency from a US state or local government, a US territory, or the District of Columbia, etc.
- Proof of Social Security Number (SSN): Social Security card, W-2, paystub with the applicant's name and SSN on it, etc.

- Proof Texas residency: utility bill statement dated within 90 days of the application date; mail from a federal, state, county, or city government agency dated within 90 days of the application date, etc.
- Proof of identity (documents must be original or a copy certified by the issuing agency; photocopies are not accepted) can be provided through primary identification documents, secondary identification documents, and supporting documents.
 - Primary documents include Texas driver license or photo ID within two years of expiration; Unexpired US passport book or passport card, etc.
 - Secondary documents. For example, Original or certified copy of a birth certificate or birth record issued by the appropriate State Bureau of Vital Statistics or equivalent agency from a US state or local government, a US territory, the District of Columbia, or a Canadian province
 - Supporting documents include Expired Texas driver license or ID card (expired more than two years—actual card), school records, military records, etc.
 - If a customer cannot show a document from the Primary Identification Documents list, he/she can present either two documents from the Secondary Documents or one document from the Secondary Documents list and two documents from the Supporting Documents list
- Texas Vehicle Registration and Proof of Insurance, which includes Proof of Insurance for each vehicle, and Evidence of Texas Vehicle Registration for each vehicle (customer has the option to sign a statement to affirm if he/she does not own any vehicles).

A complete list of required document types can be found on the DPS website: https://www.dps.texas.gov/internetforms/FormDetail.aspx?Id=2281&FormNumb er=DL-57.pdf.

DLD staff receive extensive training on the nine-step process to issue new licenses and the eight-step process for renewals. The federal REAL ID Act establishes minimum security standards for state-issued driver licenses and IDs, including the requirement that applicants prove lawful presence in the U.S.

1.2. Driver License Programs in Other States

The study team performed an extensive literature review to learn how other U.S. states operate and maintain their driver license programs. The review also revealed the priorities and differences between studies performed in other U.S. states.

The following summarizes state driver license programs with regard to the state agency that administers the program (this list includes the District of Columbia as well, and thus totals 51):

- 10 states (California, Connecticut, District of Columbia, Indiana, Nebraska, Nevada, New Jersey, New York, South Carolina, and Virginia) maintain and operate driver license services under a Department/Bureau of Motor Vehicles.
- 12 states (most of them are states located in the South, including Texas) manage driver license divisions under a Department of Public/Highway Safety (Alabama, Florida, Louisiana, Minnesota, Mississippi, New Hampshire, Ohio, Oklahoma, South Dakota, Texas, and Utah) and the Department of Safety & Homeland Security (Tennessee).
- 16 states provide drive license services through a Department of Transportation (Arizona, Delaware, Hawaii, Idaho, Iowa, Kentucky, Maryland, Massachusetts, North Carolina, North Dakota, Oregon, Pennsylvania, Vermont, West Virginia, Wisconsin, and Wyoming).
- 1 state provides driver license services through a standalone agency: Georgia (Department of Driver Services).
- 12 states provide driver license services through other state agencies, including the Department of Administration (Alaska), Department of Revenue (Colorado, Kansas, Missouri, New Mexico, and Rhode Island), Department of Justice (Montana), Secretary of State (Maine, Illinois and Michigan), Department of Licensing (Washington), and Department of Finance and Administration (Arkansas).

Also of interest is the number of states that offer driver license programs and vehicle titling and registration services under one agency: 43 in all (Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).

Figure 1 presents driver license programs by state (whether operated by DMV, DPS, DOT, or other agencies). For ease of reference, the DLD organization types are also listed alphabetically by U.S. state in Table 2.



Figure 1. Driver License Program by State

State	State Agency for Driver License	Verified Link				
Alabama	Department of Public Safety, Driver License Division	https://www.alea.gov/dps/driv er-license				
Alaska	Department of Administration, Division of Motor Vehicles	https://doa.alaska.gov/dmv/ako l/renewal.htm				
Arizona	Department of Transportation, Motor Vehicle Division	https://azdot.gov/motor- vehicles/driver-services/driver- license-information				
Arkansas	Department of Finance and Administration, Driver Services	https://www.dfa.arkansas.gov/ driver-services/				
California	Department of Motor Vehicles	https://www.dmv.ca.gov/portal				
Colorado	Department of Revenue, Division of Motor Vehicles	https://www.colorado.gov/dmv				
Connecticut	Department of Motor Vehicles	https://portal.ct.gov/DMV				
Delaware	Department of Transportation, Division of Motor Vehicles	https://deldot.gov/About/divisi ons/index.shtml				
District of Columbia	Department of Motor Vehicles	https://dmv.dc.gov/				
Florida	Department of Highway Safety and Motor Vehicles*	https://www.flhsmv.gov/				
Georgia	Department of Driver Services	https://dds.georgia.gov/				
Hawaii	Department of Transportation**	http://www.honolulu.gov/csd				
Idaho	Department of Transportation, Division of Motor Vehicles	https://itd.idaho.gov/itddmv/				
Illinois	Secretary of State, Driver Services Department	https://www.cyberdriveillinois. com/departments/drivers/drive rs_license/home.html				
Indiana	Bureau of Motor Vehicles	https://www.in.gov/bmv/				
Iowa	Department of Transportation, Motor Vehicle Division	https://iowadot.gov/mvd/driver slicense				
Kansas	Department of Revenue, Division of Vehicles	https://www.ksrevenue.org/do vlicenses.html				
Kentucky	Kentucky Transportation Cabinet, Division of Driver Licensing	https://drive.ky.gov/Pages/defa ult.aspx				
Louisiana	Department of Public Safety, Office of Motor Vehicles	https://dps.expresslane.org/dri verslicense				
Maine	Secretary of State, Bureau of Motor Vehicles	https://www.maine.gov/sos/bm v/licenses/index.html				
Maryland	Department of Transportation, Motor Vehicle Administration	https://mva.maryland.gov/Page s/driver-licensing- questions.aspx				
Massachusetts	Department of Transportation, Registry of Motor Vehicles	https://www.mass.gov/orgs/ma ssachusetts-registry-of-motor- vehicles				
Michigan	Secretary of State, Customer Service Administration	https://www.michigan.gov/sos/ 0,4670,7-127-1627,00.html				

 Table 2. Agencies with Driver License Functions in Different States

State	State Agency for Driver License	Verified Link			
	Department of Public Sefer	https://dps.mn.gov/divisions/d			
Minnesota	Department of Public Safety,	vs/Pages/drivers-license-			
	Driver and Vehicle Services	information.aspx			
Mississinni	Department of Dublic Sefer	https://www.ms.gov/dps/licens			
Mississippi	Department of Public Safety	<u>e_renewal</u>			
Missouri	Department of Revenue	https://dor.mo.gov/drivers/			
Montana	Department of Justice, Motor	https://dojmt.gov/driving/drive			
Womania	Vehicle Division	<u>r-licensing/</u>			
Nebraska	Department of Motor Vehicles	https://dmv.nebraska.gov/dl/dr			
Navada	Department of Motor Vahieles	iver-licensing-services			
Nevada	Department of Motor Vehicles	https://dmvnv.com/nvdl.htm			
New	Department of Safety, Division of	https://www.nh.gov/safety/divi			
Hampshire	Motor Vehicles	sions/dmv/index-original.htm			
New Jersey	Motor Vehicle Commission	https://www.state.nj.us/mvc/lic ense/initiallicense.htm			
		http://www.mvd.newmexico.g			
New Mexico	Taxation & Revenue Department,	ov/apply-for-new-driver-s-			
	Motor Vehicle Division	license.aspx			
New York	Department of Motor Vehicles	https://dmv.ny.gov/			
	Department of Transportation,	https://www.ncdot.gov/dmv/Pa			
North Carolina	Division of Motor Vehicles	ges/default.aspx			
N IDI	Department of Transportation,	https://www.dot.nd.gov/divisio			
North Dakota	Driver License Division	ns/driverslicense/driver.htm			
Ohio	Department of Public Safety,	https://www.bmv.ohio.gov/dri			
Ohio	Bureau of Motor Vehicles	ver-license.aspx#gsc.tab=0			
		https://www.ok.gov/dps/Obtai			
Oklahoma	Department of Public Safety	n_an_Oklahoma_Driver_Licen			
		se_ID_Card/			
	Department of Transportation,	https://www.oregon.gov/odot/			
Oregon	Driver and Motor Vehicle Services	dmv/pages/driverid/licenseget.			
	Driver and wrotor vemere services	aspx			
		https://www.dmv.pa.gov/Drive			
Pennsylvania	Department of Transportation,	r-Services/Driver-			
1 01110 / 1 / 01110	Driver and Vehicle Services	Licensing/Pages/Drivers-			
		License.aspx			
Rhode Island	Department of Revenue, Division of Motor Vehicles	http://www.dmv.ri.gov/			
South Carolina	Department of Motor Vehicles	http://scdmvonline.com/Driver			
		-Services/Drivers-License			
South Dakota	Department of Public Safety	https://dps.sd.gov/driver-			
	*	licensing			
Tennessee	Department of Safety & Homeland	https://www.tn.gov/safety/driv			
	Security, Driver License Services	er-services.html			
Texas	Department of Public Safety,	https://www.dps.texas.gov/dri			
	Driver License Division	verlicense/			
Utah	Department of Public Safety, Driver License Division	https://dld.utah.gov/			
Vomant	Agency of Transportation,	https://dmv.vermont.gov/licens			
Vermont	Department of Motor Vehicles	es			

State	State Agency for Driver License	Verified Link			
Virginia	Department of Motor Vehicles	https://www.dmv.virginia.gov/ drivers/			
Washington	Department of Licensing	https://www.dol.wa.gov/			
West Virginia	Department of Transportation, Division of Motor Vehicles	https://transportation.wv.gov/ DMV/Drivers/Pages/Drivers- Licenses.aspx			
Wisconsin	Department of Transportation, Division of Motor Vehicles	https://wisconsindot.gov/Pages /online-srvcs/online.aspx			
Wyoming	Department of Transportation, Driver Services Program	http://www.dot.state.wy.us/ho me/driver license records/driv er-license.html			

* The Florida Department of Highway Safety operates three DLOs, has a specific driver license services division, and is the coordinating agency for tax collectors who administer driver license services at the county level in all other counties but the three near Miami.

** The Hawaii Department of Transportation doesn't offer any driver license services, but serves as a coordination agency for those services. All driver license services are administered at the county level.

Based on the population, workload, demographic information, functions, and services provided by DLD, Florida and New York State have been identified as two peer states to compare. As a comparable peer state to Texas, one of the Florida Highway Safety and Motor Vehicles (FLHSMV) Department's goals is to "maintain a professional and effective driver license program which assures that only those drivers who demonstrate the necessary knowledge, skills, and abilities are permitted to operate vehicles on Florida roads; removes from the highways and/or requires further education for those drivers who demonstrate an abuse of the driving privilege; and assures that drivers are held financially responsible for their actions" (FLHSMV, 2020 (a)).

FLHSMV manages four programs: administrative service program, Florida Highway Patrol program, information services administration program, and motorist services program. Driver license and ID card services are under motorist services program. According to FLHSMV, as of January 1, 2019, there are 17,392,281 licensed drivers in Florida (FLHSMV, 2020 (b)). The fixed number of positions for FLHSMV motorist service program is 1,430, and 1,292.5 of them have been filled (Transparency Florida 2020). The total FY2020–FY2021 biennial budget for Motorist Service Division is \$\$244,288,645 (The Florida Senate 2019; The Florida Senate 2020). In addition, Florida has 208 field offices providing driver license and ID card services in its 67 counties (FLHSMV, 2020 (c)). Florida began issuing REAL ID compliant credentials after January 1, 2010.

The New York State Department of Motor Vehicles' (NYDMV) goals are to "secure identity documents, deliver essential motor vehicle and driver related services, and administer motor vehicle laws enacted to promote safety and protect

consumers." And their vision is "to be a national leader in providing efficient, innovative and responsive government services" (NYDMV 2020 (a)).

NYDMV also provides vehicle registration services. According to New York State Division of the Budget (NYSDB), there are 129 DMV field offices (27 run by State and 102 run by County) in New York State's 62 counties. In FY2020, NYDMV has 2,344 full-time employees (NYSDB 2020 (a)). NYDMV spent \$666 million during FY2019–FY2020 (NYSDB 2020 (b)).

According to NYDMV, as of January 1, 2019, there are 12,014,823 licensed drivers in New York State (NYDMV, 2020 (b)). New York State began issuing REAL ID compliant credentials on October 30, 2017.

By comparison, DLD has about 2,900 full-time employees working in 231 DLOs and testing locations. Texas began issuing REAL ID compliant credentials on October 10, 2016. DLD requested \$700,375,324 for FY2020-FY2021 biennial budget to support the program, but only \$490,644,346 (70.1%) was appropriated by the Legislature³ (TxDPS 2018, Texas Legislature 2019). Table 3 lists the comparison of three states.

³ For FY2020 and FY2021, DLD requested \$245,454,978 for Driver License Services and \$34,886,332 for Enforcement & Compliance. In addition, an exception request of \$420,034,014 was made to improve driver license services. The Legislature appropriated the requested \$280,341,310 budget for Driver License Services and Enforcement & Compliance. For the exceptional request, only 50% was appropriated (\$210,303,036). To summarize, in total, DLD requested \$700,375,324 for FY2020-FY2021 biennial budget and \$490,644,346 was appropriated by the Legislature.

	Texas	New York State		
Agency	Texas	Florida Department	New York	
Managing DLD	Department of Public Safety (DPS)	of Highway Safety and Motor Vehicles (FLHSMV)	Department of Motor Vehicles (NYDMV)	
Vehicle Registration	DPS does not provide this service	FLHSMV provides this service	NYDMV provides this service	
Population in 2018	28.7 million	21.3 million	19.54 million	
Number of state-issued driver license and ID cards*	23.7 million	17.4 million**	12.0 million**	
Number of counties	254	67	62	
Number of field Offices	230 DLOs + 1 CDL testing- only location	208	129	
Number of FTEs	2,900 (DLD)	1,292.5 (Motorist Service)	2,344 (NYDMV)	
Biennial Budget	FY2020–FY2021 \$490,644,346 (DLD)	FY2020-FY2021 \$244,288,645 (motorist service)	FY2019–FY2020 \$666 million (NYDMV)	
REAL ID Issuance Date	Oct. 10, 2016	Jan. 1, 2010	Oct. 30, 2017	

Table 3. Comparison Table with Peer States

Note: *As of January 1, 2019.

** Number represents driver license only. ID card number is not available.

1.3. Basic DLD Information and Statistics

The FY2007 DLD organizational chart was obtained from Sunset Advisory Commission Final Report, which was presented in Figure 2 (Sunset Advisory Commission, 2009).



*Driver Responsibility Program was repealed by the State of Texas (Chapter 708, Transportation Code), effective September 1, 2019.

Figure 2. DLD Organizational Chart (Sunset Advisory Commission, 2009)

The study team noticed that the report was published over ten years ago. A requested of up-to-date DLD organizational chart was made to DPS. DPS provided a chart with numbers of full-time employees (FTEs) in each field, effective October 15, 2019. DPS also mentioned that they were going through an organizational change at the time study team made the request. Therefore, the organizational chart presented in Figure 3 might not represent the finalized chart.



Figure 3. DLD Organizational Chart, effective October 15, 2019

Based on Figure 3, the total number of DLD full-time employee is about 2,900 as of October 15, 2019.

During the relevant literature review process, the study team noticed that several documents list DLD's goals and performance measurements. These goals and performance measurements are summarized and presented in chronological order in Table 4.

Resource	Publish Date	DLD's Goal				
Texas Legislative Budget Board. "Department of Public Safety Driver License Improvement Plan."	January 2013	Reduce DLO transaction times to 45 minutes for original and 30 minutes for renewals				
Texas Sunset Advisory Commission. Texas Sunset Advisory Commission Staff Report with Commission Decisions. 2018– 2019 86th Legislature	September 2018	Complete 82% of driver license and ID cards applications in 45 minutes				
Texas Legislature. House Bill No. 1. General Appropriation Act. 86th Legislature	May 2019	Complete 75% of applications within 45 minutes				
Texas Comptroller of Public Accounts. Fiscal Notes. Texas Driver's Licenses – A Customer Service Challenge.	October 2019	Complete at least three- quarters of its DLO transactions within 45 minutes				

Table 4. DLD Goals and Performance Measurements

The study team obtained access to Driver License System (DLS) managed by DLD. DLS is serves as a database storing all completed transactions in details, including basic information of customers, types of transactions (e.g., new application or renewal), methods to complete the transaction (e.g., in-person, online, by phone, or by mail), and transaction detail (e.g., DLO location), and etc.

In order to investigate the DLD workload, the study team extracted all transactions completed by DLD from FY2011 to FY 2019 and presented in Table 5 and Figure 4, respectively.

	L		
Fiscal Year	Total Completed Transactions	Fiscal Year	Total Completed Transactions
2011	6,364,385	2017	7,306,885
2012	6,586,978	2018	7,451,633
2013	6,889,886	2019	7,694,096
2014	7,123,257	Total	63,393,321
2015	6,992,508	Average	7,043,702
2016	6,983,693		

Table 5. DLD Completed Transactions from FY2011 to FY2019



Figure 4. DLD Total Completed Transactions from FY2011 to FY2019

As can be seen from Table 5 and Figure 4, the number of completed transactions show a steady increasing trend. Approximate 7.7 million transactions were completed in FY2019. During the past 9 years, about 64.4 million transactions were conducted by DLD, with an average of over 7 million every year. In FY2019, DLD also completed 90,332 CDL transactions, including 75,420 original CDL, 8,557 renewal, 3,994 modification, and 2,361 CDL reprint transactions.

In addition, the study team explored the way customers conducted the transactions. Those transactions are categorized as in-person, online, by mail, by phone, and others (e.g., Offender ID Card). The number of each transaction method and corresponding percentage are calculated and listed in Table 6.

Fiscal Year	In-Person Transaction		Online Tran	nsaction	By M Transad		By Pl Transa		Othe Transac		Total Transaction
	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total	
2011	5,186,747	81.5%	1,023,544	16.1%	90,060	1.4%	42,287	0.7%	21,747	0.3%	6,364,385
2012	5,211,750	79.1%	1,170,938	17.8%	108,723	1.7%	74,821	1.1%	20,746	0.3%	6,586,978
2013	5,404,059	78.4%	1,266,381	18.4%	106,674	1.5%	87,613	1.3%	25,159	0.4%	6,889,886
2014	5,596,854	78.6%	1,339,203	18.8%	79,617	1.1%	81,169	1.1%	26,414	0.4%	7,123,257
2015	5,532,090	79.1%	1,291,378	18.5%	67,583	1.0%	71,083	1.0%	30,374	0.4%	6,992,508
2016	5,358,977	76.7%	1,441,490	20.6%	85,692	1.2%	67,622	1.0%	29,912	0.4%	6,983,693
2017	5,657,613	77.4%	1,457,579	19.9%	85,109	1.2%	75,771	1.0%	30,813	0.4%	7,306,885
2018	5,682,056	76.3%	1,599,299	21.5%	66,705	0.9%	65,246	0.9%	38,327	0.5%	7,451633
2019	5,606,024	72.9%	1,912,053	24.9%	59,288	0.8%	75,723	1.0%	41,008	0.5%	7,694,096
Total	49,236,170	77.7%	12,501,865	19.7%	749,451	1.2%	641,335	1.0%	264,500	0.4%	63,393,321
Average	5,470,686	77.7%	1,389,096	19.7%	83,272	1.2%	71,259	1.0%	29,389	0.4%	7,043,702

 Table 6. FY2011 to FY2019 DLD Total Completed Transactions by Transaction Methods

As can be observed from Table 6, over 95% of the transactions were completed either in-person or online every year. However, the utilization of by mail or by phone is very low (about 1%). On average, during the past 9 years, 77.7% of the transactions were performed in-person, 19.7% were online transactions, 1.2% were by mail, and 1.0% were by phone. The pie chart is presented in Figure 5.



Figure 5. FY2011 to FY2019 DLD Completed Transactions by Methods

Of those 7,694,096 transactions completed in FY2019, 72.9% are in-person, 24.9% are online, 0.8% are by mail, and 1.0% are by phone. The pie chart is shown in Figure 6.



Figure 6. FY2019 DLD Completed Transactions by Method



Figure 7 shows the percentage of online transactions from FY2011 to FY2019.

Figure 7. Percentage of Online Transactions from FY2011 to FY2019

Figure 7 presents an increasing trend, indicating that customers are switching to online method more during the past decade. For example, the number changes from 19.9% in FY2017 to 24.9% in FY2019.

Figure 8 and Figure 9 present the percentage of by mail transactions and by phone transactions from FY2011 to FY2019, respectively.



Figure 8. Percentage of Mail Transactions from FY2011 to FY2019



Figure 9. Percentage of Phone Transactions from FY2011 to FY2019

Figure 8 shows a decreasing trend (especially starting from FY2016), which implies that customers are becoming less in favor of conducting transactions by mail.

Figure 10 presents the combine percentage of transactions conducted online, by mail, and by phone.



Figure 10. Percentage of Online, Mail, and Phone Transactions from FY2011 to FY2019

An increasing trend is observed from Figure 10 due to the fact that more customers are using online transactions as an alternative way of in-person transaction (Figure 7).

The study team also obtained the 'Facilities Master List' from DPS that contains detailed information on DLD offices and testing locations, size, whether it is a CDL test site, whether it is equipped with Kiosks, and other details. The study team performed a preliminary analysis of this database. The 'Facility Master List' was updated August 1, 2019. Therefore, all the analyses below are as of August 1, 2019.

The database lists 233 locations. However, two of these (Houston Region Headquarters and Webster) are marked as neither a DLO nor a testing location; further these two locations do not appear in the DPS online tool for finding the nearest DLO. Therefore, the analyses below are based on 231 DLO and testing locations (1 location, Canton, is for CDL testing only).

Of the 231 DLO and testing locations, 89.6% (207) provide non-commercial driving tests; 13.4% (31) provide commercial driving tests (28 provide both commercial and non-commercial driving test and 3 provide only commercial driving test); 9.1% (21) provide neither tests.

According to the database, 72.7% (168) of 231 locations are categorized as small; 13% (30) are categorized as medium; 7.8% (18) are large; and 6.1% (14) are mega centers: Carrollton, Corpus Christi, Dallas South, Edinburg, Fort Worth, Garland, Houston Gessner, Houston North, Houston Southeast, Leon Valley, Midland, Pflugerville, Rosenberg, and Spring. One location is marked as N.A. since it is a test site only (Canton CDL). The pie chart is presented in Figure 11.



Figure 11. Texas Driver License Pie Char by Size

AS of August 1, 2019, a total of 73 DLOs (31.6%) are equipped with Kiosks that comprise the NEMO-Q queuing system. The rest 68.4% DLOs do not have such queuing systems. The NEMO-Q queuing system helps to manage and improve customer experience and waiting experience. By self-service, customers will be issued a numbered ticket based on transaction type. The system also creates a database that stores all the transaction data categorized by service type (e.g., original driver license or ID card application or renewal) and customer type (e.g., in person, by phone, or online). At some locations, it creates either one or two queues of customers based on transaction type. The system provides information to DPS regarding the wait time and transaction time. Both walk in customers and customers scheduled online (arrive at appointed time) will get a numbered ticket with timestamp. Estimated wait time can be printed on the ticket as well so that the customer knows the progress of queue. Since not every DLO has a NEMO-Q system, there is no information available from those offices about arrival, wait and processing times.

However, current NEMO-Q system is a same-day-only appointment system and not able to capture customer pre-queue time, which is the time between arrival and check in with the kiosks. In order to improve this, DLD is planning to replace NEME-Q with a new appointment system developed by Applus Technologies, Inc. (Applus Technologies, 2019). The new system is an appointment-based system which gives the customer more flexibility to make appointments up to six months in advance either online or on site at DLO. Customers have the option to use a selfserve kiosk at DLO to schedule an appointment for a different day and/or at a different office. The new appointment solution will conduct an eligibility check with the Driver License System (DLS) to determine transaction eligibility. If applicable, the system will inform online eligible customers that they may conduct their transaction online and avoid visiting an office. Customers without an advance appointment will be permitted to see if the office has an opening as a "standby." To summarize, the new system:

- Is expected to minimize extended wait times and long lines as customers will only need to arrive shortly before their appointment time
- Is designed to prevent delays in calling/displaying customer numbers, allow DLD to send messages to customers about delays/closures due weather or unforeseen circumstances
- Provides real-time and historical appointment data that will provide DLD greater accuracy in forecasting customer demand and resource requirements
- Allows DLD to customize customer arrival times, which will assist offices with overcrowding and allow offices to better manage the customer flow.

The new system will be installed at all DLOs

1.4. Chapter Conclusion

This chapter provides a basic description and statistics about the DPS DLD and DLOs in Texas. In addition, information was provided about the state agency that manages the operation of the driver license program in other U.S. states. A brief comparison summary was given regarding Driver License Program of Florida and New York State, which are considered as peer states to Texas

Chapter 2. Literature Review

The study team collected papers and articles associated with DLD service wait time. During the gathering process, we found that most of the literature came from news articles. We summarized the literature cited and the major findings from each selected item.

2.1. Literature Review

Friedman, Scott. "How Can Texas Reduce Driver License Lines?" NBCDFW. August 6, 2012. <u>https://www.nbcdfw.com/news/local/how-can-texas-reduce-driver-license-lines/1926415/</u>. Accessed on January 10, 2020.

Texas only counts wait times once the number is taken from the machine so there is uncounted wait time in lines leading up to service. This period tends to be the most strenuous of waiting as it is typically outside or with no seats. Indiana had similar problem but fixed it by approaching it with customer service point of view. They hired management from retail stores and provided incentives for DMV workers like increased pay and alarms if wait times were longer than 20 minutes.

Texas Department of Public Safety. Driver License Division. FAQs about the Driver License Division. Online reference. Available at: <u>https://www.dps.texas.gov/DriverLicense/FAQs/dldIndex.htm#FAQs</u>. Accessed on February 7, 2020.

According to the DPS website, more than 50% of driver license transactions could have been conducted alternatively (online, by mail or by phone) in both FY2017 and FY2018. In fall 2018, Texas.gov conducted a marketing study through Deloitte and found that 91% of customers choose to conduct their transactions in person even though they are aware of the ability to renew their license online. The top reasons are:

- 22% To update their photo
- 19% Do not want to disclose sensitive information online
- 19% More comfortable speaking to a person
- 14% Do not want to pay online convenience fees
- 14% Do not want to pay additional fees to conduct a transaction online (assume the transaction fees online are higher than in person transactions).

Texas Comptroller of Public Accounts. Fiscal Notes. Texas Driver's Licenses – A Customer Service Challenge. October 2019. Online reference. Available at: https://comptroller.texas.gov/economy/fiscal-notes/2019/oct/license.php. Accessed on February 11, 2020. According to the Fiscal Notes from Texas Comptroller of Public Accounts, about 23.7 million Texans hold a Texas driver license or a DPS-issued identification card. In FY2018, nearly 7.5 million transactions were completed by DLD involving licenses and identification cards, including issuance, renewals, and replacements, 5.9 million of which were face-to-face transactions (Texas Comptroller of Public Accounts 2019).

The article pointed out that DLD's goal is to complete at least three-quarters of its DLO transactions within 45 minutes. Despite the creation of several large driver license "mega-centers" in urban areas to meet demand, average wait times continue to rise and the agency fails to meet this target.

In addition, DPS operates a statewide license call center that receives more than 24,000 calls a day or nearly 7 million each year. However, its performance has declined. In 2009, customers need to wait for an average of 13.5 minutes before they were served, and 65% of callers gave up before their calls were answered. In 2017, these numbers increased to 14 minutes and 20 seconds for average on-hold wait time, and 80% of callers gave up before DPS answered.

DPS thinks these difficulties mainly caused by population growth and inadequate staffing. In January 2019 testimony before the Texas Senate Finance Committee, DPS Director Steve McCraw said the problem could be solved by additional staffing in DLOs; increased funding for staff salaries to retain trained personnel; and an extension of the driver license expiration period. McCraw also said that "53 percent of the people who come to the [DPS driver license] office don't need to be there," pointing out that many driver's license customers are not taking full advantage of the services DPS offers by mail, telephone, or online.

In 2011, Driver License Improvement Plan (DLIP) was established by the Legislature with initial funding of \$64.1 million. By the end of fiscal 2019, total DLIP appropriations through four legislative sessions had reached \$443.1 million, which is presented in Figure 12.



Figure 12. Texas DLIP Appropriated Funds by Legislature/Biennium

DLIP funding has been used primarily to create and expand DLOs and to hire new employees to staff them. Table 7 lists the expenditures of DLIP funding from FY2012 to FY2019.

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Legislature/ Biennium	Mega- centers opened	Other offices opened	Offices Relocated/ Remodeled	New Office Staffing*
82ND/2012-13	6	2	32	361.0
83RD/2014-15	3	8	14	16.0
84TH/2016-17	4	18	40	170.3
85TH/2018-19**	0	0	0	0
TOTAL, FISCAL 2012-2019	13	28	86	547.3

 Table 7. Texas DLIP Expenditures, FY2012–FY2019

* Full-time-equivalent employees.

** Reflects agency budget cuts in the 2018-19 biennium.

As can be seen from Table 7, of 41 new DLOs opened between fiscal 2012 and 2019, 13 were mega-centers, each designed to process at least 2,000 transactions per day with 25 or more staff members. DPS closed two DLOs during the 2018-19 biennium due to a directive from state leaders calling for agency budget cuts.

The DPS Sunset bill (Senate Bill 616) was signed into law in June 2019. This new law fulfills one DPS recommendation by extending driver license expiration dates from six to eight years, effective June 1, 2020. It also requires a third-party study on the feasibility of transferring DPS's Driver License Program to TxDMV. The

Legislature thinks that TxDMV already "has a division dedicated to consumer relations and receives high customer satisfaction ratings."

The Fiscal Notes also stated that Texas certainly is not alone in its efforts to improve service in its DLOs; many other states are facing the same problems, especially to comply with the REAL ID requirements and meet the October 2020 deadline. Some efforts made to reduce customer wait times include increased staffing, online service options and extended expiration dates (Effective June 1, 2020). Other potential options adopted by other states that could potentially be useful to Texas are the following: Saturday office hours (Alabama)—allowing customers to visit without taking time off from work; mobile stations (Kansas)—established summeronly driver license stations in temporary offices such as schools specifically to serve teens; and technological upgrades (Pennsylvania)—adopted new technologies and re-engineered their business processes for driver license issuance.

Deloitte Consulting LLP. Texas Department of Public Safety: Management and Organizational Structure Study. October 28, 2008. Available at: <u>www.dps.texas.gov/director_staff/public_information/Deloitte102808.pdf</u>. Accessed on January 30, 2020.

Deloitte Consulting LLP performed a management and organizational structure study for DPS in 2008. In the reports, they provided several recommendations and listed several major findings regarding Driver License and Regulation:

- It was recommended to combine licensing and regulation functions into one customer-focused License and Regulation Division. In addition, Deloitte proposed one organizational chart;
- It was recommended to establish a non-commissioned management and staffing structure for the License and Regulation Division, and reassign law enforcement officers from regulatory operations into other DPS divisions as appropriate:
 - It was found that the current use of DLO-stationed troopers may not be the most optimal, cost-effective use of commissioned officer resources
 - It was found that fraud-related functions exist in the DLD today, but could be split between civilian and commissioned employees in the future, and could be split between the DLD and a commissioned investigations unit in the future
 - It was found that some DLOs may require security personnel
 - It was found that DLOs that have a large end-of-day cash deposit may require security personnel or a law enforcement officer in order to support the daily deposit process

- It was recommended to provide the driver license field staff with an information system that enables them to easily determine a driver's status, verify identify, and complete the customer service transactions
- It was recommended to improve training in customer service, driver license program requirements, supervision, and management
- It was recommended to create job definitions and performance measures for the new structure, creating a balance between safety, security, and service
- It was recommended to determine the security requirements for each facility and use appropriate commissioned support from Highway Patrol to provide security
 - It was found that different offices may have different security needs
 - \circ It was found that the benefits of arrests at DLOs may be overstated
 - 1t was found that driver license facilities handle a large amount of money each day, and the deposit into a bank may require security
- It was recommended to upgrade existing facilities and/or expand the total number of facilities to meet current population needs
 - It was found that over the years, the Texas' population has risen steadily, yet the number and square footage of customer-service facilities may not have kept pace
 - It was found that several DLOs need significant repair; most offices need to be refreshed with paint, new furniture, updated flooring, and other improvements to provide for a more pleasant customer experience
 - It was found that many DLOs would benefit from a customer-flow analysis and redesign of the facility layout
 - It was found that there does not appear to be a model office configuration for selecting and planning new locations
 - It was found that lack of driver license facilities co-location with TxDOT offices requires customers to make multiple stops.
- It was recommended to set citizen-customer service expectations and communicate those to the public
 - It was found that rules and policies for citizen using driver licensing are inconsistent or not well communicated
- It was recommended to improve telephone support through a fully staffed toll-free call center

- It was found that the DLD experiences a high number of dropped or non-serviced calls in the call center
- It was found that a centralized driver license help desk and call center is needed for filed users and law enforcement officers
- It was recommended to build a self-service infrastructure, including expanding Internet services, to improve citizen-customer service and minimize wait times in the office
 - It was found that DPS provides only limited driver license services and transaction capability online
 - It was found that DLD's new Driver License Renewal (DLR) system can provide a foundation from which to build additional on-site capability
 - It was found that additional basic customer service functions could be deployed in the near term, separate from the DLR implement effort
- It was recommended to develop a robust audit and journaling capability to detect anomalies that could indicate internal fraud
- It was recommended to identify specific citizen-customer segments for their special service needs, including teenage drivers, elder drivers, and drivers with English as a second language

Texas Sunset Advisory Commission FinalReport.July2009.Onlinereference.Availableat:https://www.sunset.texas.gov/public/uploads/files/reports/Department%20of%20Public%20Safety_Private%20Security_Polygraph%20Examiners%20Final%20Report%202009%2081st%20Leg_0.pdf.Accessed on February 10, 2020.

Texas Sunset Advisory Commission July 2009 Final Report gave an overall introduction of DLD. As of FY2007, DLD has 1,667 employees, including 215 commissioned officers and 1,452 noncommissioned personnel. The FY2007 budget is \$104 million. In total, there were 16,330,825 valid licensed drivers in Texas in FY2007. On average, DLD issues 5,099,748 driver licenses and 759,725 identification cards every year.

As of FY2007, there are 256 DLOs across the state, whose major responsibilities are to "accept and review driver license and identification card applications, and to test new applicants on both written and driving tests." Field Service also operates a driver license mobile unit that can process simple remote transactions such as renewals and duplicate licenses. DPS also applies auto-queuing systems in high volume locations (e.g., Gessner Road office in Houston) where customers receive numbers upon arrival and are directed to the appropriate customer service station.

Trained troopers present in DLOs to detect fraud associated with driver license issuance, perform road tests on applicants, provide security, and also make frequent arrests of applicants with outstanding criminal warrants who attempt to get licenses. In 2007, 1,673 felony arrests and 4,809 misdemeanor arrests were made by troopers on DLO premises. DLO-stationed troopers also supplement the Highway Patrol's efforts in traffic law enforcement 16 hours per month, during holidays, and during daily commutes to and from duty stations. In 2007, DLO-stationed troopers issued 18,216 traffic tickets and 7,377 warnings while on patrol.

DPS Headquarters Service supports the Driver License Program in four functions:

- Customer service: assists the public and field service personnel in driver license and records matters. Every month, DPS handles over 70,000 customer service calls and over 6,000 e-mails. During business hours, customer service staff answers the DPS main telephone switchboard.
- Driver improvement and compliance: evaluates certain traffic convictions involving Texas drivers to identify potentially dangerous drivers and takes corrective action that may result in license revocation
- License issuance: verifies an applicant's eligibility to be issued a Texas driver license or identification card before mailing; monitors the production, quality, and automated mailing of driver licenses and identification cards; assists the public and DLOs with administrative and technical issues.
- Driver records: administers, processes, and maintains records on all driver license and ID cards issued by DLD. The Driver Records Bureau's responsibilities are:
 - Maintain microfilm records for each driver license or ID
 - Update traffic conviction information on each record
 - Sell driver records and certifications to eligible requestors, including insurance companies and the general public

In addition, Headquarters Service oversees special projects to implement process changes within the Division, such as reengineering projects.

Headquarters Service also manages the CDL program. In FY2007, Texas had more than 767,000 CDLs: 543,557 Class A CDLs (tractor trailer vehicles with 18 wheels), 211,777 Class B CDLs (small combination units where a truck pulls a certain type of trailer), and 12,264 Class C CDLs (small delivery vehicles).

Driver Responsibility Program was established by the Legislature to prevent the repeated behavior of problem drivers and to improve traffic safety through the assessment of surcharges for various traffic violations. The agency retains 1% of surcharges collected with the remainder divided between state trauma centers and the General Revenue Fund. Since inception in September 2004, the program has

exceeded \$1 billion dollars in total assessments to more than 1 million drivers. This Program used to be managed by DLD. However, the State of Texas has repealed the Driver Responsibility Program (Chapter 708, Transportation Code), effective September 1, 2019.

Texas Sunset Advisory Commission StaffReport with Commission Decisions. 2018-2019 86th Legislature. September 2018.Onlinereference.Availableat:https://www.sunset.texas.gov/public/uploads/files/reports/Department%20of%20Public%20Safety%20Staff%20Report%20with%20Commission%20Decisions_9-10-18.pdf.Accessed on February 11, 2020.

According to the report, DLD is the division within DPS program the public interacts with the most. About 20.3 million Texans held a Texas driver license and another 3.2 million held a state-issued ID. In FY2017, DPS spent more than \$149 million on its driver license and identification services and allocated 2,087 staff to the program. DPS collected almost \$405 million in various driver license fees in FY2017.

A major workload for DPS is to manage the demand for driver license and ID services. Based on the report, DPS issued 3.5 million driver licenses and 603,000 IDs in FY2017. The department's call center receives about seven million phone calls annually regarding topics such as documents required for licensure, suspension and reinstatement of licenses, and fines. The call center is open from 7 a.m. to 6 p.m. Monday through Friday and has about 84 staff answering calls daily.

The report summarized the Sunset Commission's decisions on the staff recommendations for the DPS as well as modifications and new recommendations raised during the public hearing. More specifically, the following issue and findings associated with DLD has been reported:

Issue: DPS has not maximized its resources to adequately improve driver license customer service.

Finding #1: Driver license customer service continues to struggle at DPS despite dedicated and hardworking staff.

The commission found that despite significant financial investments made by the Legislature to improve this program, wait times at DLOs and the call center have continued to increase—more than an hour at several large offices. (The average wait is likely to be even longer because the office sometimes gets so crowded customers must wait outside the building before being able to check in to the queuing system). For example, the average wait time at Houston-Gessner DLO is 71 minutes in FY2017; and the wait time at Leon Valley almost tripled from FY2015 to FY2017. The report provided the average wait time at 9 driver license mega centers from FY2015 to FY2017, as shown in Table 8. In addition, just 20% of the 24,000 daily phone calls being answered. Sunset staff also said that they have
heard numerous complaints about long waits to take a driving skills test at DLOs, more than three months in some cases.

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Mega Center Location	FY2015	FY2016	FY2017					
Dallas – South	-	0:59	1:18					
Fort Worth	0:51	1:05	1:06					
Garland	0:55	0:56	1:29					
Houston - Gessner	1:16	1:14	1:11					
Houston - North	-	0:24	0:41					
Leon Valley	0:26	0:43	1:10					
Pflugerville	0:17	0:43	0:43					
Rosenberg	0:42	0:45	0:38					
Spring	1:01	1:23	0:51					

Table 8. Average Wait Times at Nine Driver License Mega Centers (in hh:mm)

The report claimed that DPS failed to meet its key driver license performance measure: completing 82% of driver license and identification card applications within 45 minutes. DLIP was initiated and the Legislature has invested significant funding in it, the appropriation of which has been presented in Figure 12.

Finding #2: Within a law enforcement agency, the driver license program cannot compete with public safety priorities.

The report stated that "The department appropriately prioritizes preventing and combating crime over more administrative functions like issuing driver licenses." Sunset Staff think that DPS's approach to providing funding and technology shows the lower priority DPS places on its driver license program:

- Transferred and unspent funds: the report says that DPS has a history of transferring money out of its driver license program to fund other duties. From FY2012 to FY2016, DPS transferred out a net amount of more than \$8 million from its driver license strategies. In order to prevent DPS from transferring funds without written permission, the Legislature "locked" the driver license goal in DPS's appropriations bill pattern for the 2018–2019 biennium. In a 2017 report, the Legislative Budget Board (LBB) wrote that DPS could not show that all of the funding it received to improve driver license services was actually spent on that purpose. In addition, the driver license program left \$8 million unspent in FY2017 and returned it to the state to help DPS meet the 4% budget cut applied to all state agencies that year.
- Lack of key technology:

- DPS's call center does not have customer relationship management software, which makes DPS struggle to most effectively target information on its website to address common questions.
- DPS's interactive voice response system is not integrated with the Driver License System that holds customers' records—customers cannot actually make any transactions on their own and must still speak with staff or visit a DLO
- Self-service kiosks: customers cannot use these kiosks for transactions such as renewing licenses, freeing up staff to help customers with more complex transactions. Customers can only use them to check in and establish their place in the waiting queue at Texas DLOs
- Helpful driver license information is difficult to find on DPS's website

Finding #3: The department has not implemented plans to close or consolidate DLOs with low demand.

The report says that "DPS and others recognize that smaller driver license offices tend to be less efficient." DPS partnered with Texas State University in 2011 to help inform a plan to more efficiently locate DLOs across the state. This study evaluated DLOs for potential closure based on several criteria, including number of transactions, drive time, and population. A list of 26 DLOs has been identified as primary potential closures stating that these resources could be made available to other locations where they could have a positive impact on a greater number of customers. Sunset stuff reported that DPS closed six of these offices, not as a proactive measure to better allocate resources, but mostly due to equipment failure and no available replacement.

DPS, in its 2017 Driver License Improvement Program Annual Report, recognized that reallocating employees from offices that serve few customers to offices with more demand could be an option to increase capacity if no more additional staff can be hired. DPS currently has 77 one-person offices, almost half of which had fewer than 1,500 transactions in fiscal year 2017 and of those, 20 had fewer than 1,000 transactions. These one-person DLOs will close any time the assigned customer service representative is sick or on vacation. Therefore, according to the report, they have been identified as problematic by DPS

Finding #4: Most states administer driver license programs through an agency like the Texas Department of Motor Vehicles.

The report claimed that "The Texas Department of Motor Vehicles has a division dedicated to consumer relations and receives high customer satisfaction ratings." The Sunset staff identified several efficiencies and benefits to customers from

having both driver license and motor vehicle functions in one agency—they carefully considered whether to recommend transferring driver licensing from DPS to TxDMV.

Correspondingly, the following recommendations have been made:

Recommendation #1. Require DPS to develop and implement a plan to close inefficient DLOs.

The Sunset Staff believes that closing low volume offices would make more resources available for allocation to other offices where they could serve a greater number of customers and best impact customer service. This recommendation would require DPS to develop and implement a plan to better maximize its DLOs and resources across the state, considering geographic distribution. The Sunset Staff recommended DPS consider setting a standard for minimum distance between offices as well as a standard for minimum volume of business to keep an office open unless located in a rural area without reasonable access to other such offices.

Recommendation #2. Direct the Department of Public Safety and Texas Department of Motor Vehicles to perform a joint analysis on opportunities and challenges of transferring the driver license program to TxDMV.

Contingent upon funding, direct DPS to contract with an independent third party to perform an analysis and make recommendations on opportunities and challenges of transferring the driver license program to TxDMV. The independent third party shall coordinate with TxDMV and any other pertinent organization to assist in this analysis. A report with the analysis and recommendations will be due to the Sunset Commission, legislative leadership, and the governor by September 1, 2020.

The driver license program shall be transferred to TxDMV effective September 1, 2021 if the 86th Legislature does not appropriate money to DPS to fund the third party analysis. In preparation for the transfer:

- DPS shall provide TxDMV access to any information, systems, records, property, staff, or data necessary for the transfer;
- DPS and TxDMV shall establish a working group to develop a transition plan containing milestone and deliverable dates, and provide at least quarterly reports to the Sunset Commission, governor, and legislative leadership; and
- TxDMV shall study how it can use existing state and local property and staff (with intergovernmental agreements as necessary) to most effectively administer the driver license program. For this study, TxDMV should prioritize cost savings, efficiencies, and accessibility for Texans across the state, including in rural parts of the state. DPS should assist in this study, as necessary.

Texas Legislative Budget Board. 'Department of Public Safety Driver LicenseImprovement Plan. January 2013' Online Reference. Official website of TexasLegislativeBudgetBoard.Availableat:http://www.lbb.state.tx.us/Documents/Publications/Issue_Briefs/409_DPS_DL%20Improv.pdf.Accessed on February 6, 2020

In order to improve services and shorten wait times for driver license customers, DPS developed DLIP. The Texas Legislature appropriated \$63 million and 361 full-time equivalents for this purpose in the 2012–13 biennium. The expected outcomes of this plan are:

- Customer Service: Reduce DLO transaction times to 45 minutes for original and 30 minutes for renewals. Reduce contact center calls by being clearer in correspondence and website information. Improve customer satisfaction with an online survey. Make process changes in accordance with customer feedback.
- Safety and Security: Increase fraud prevention with security features on driver license and identification cards.
- Employee Environment: Improve retention programs by increasing salaries of field employees and realigning position descriptions. Provide management leadership training for staff with the intent of improving employee retention and maximizing productivity.

Florida Highway Safety and Motor Vehicles. Florida Licensing on Wheels(FLOW).Onlinereference.Availablehttps://www.flhsmv.gov/locations/florida-licensing-wheels-flow/.Accessed onFebruary 25, 2020.February 25, 2020.

The FLHSMV offers 13 mobile units (Florida Licensing on Wheels, or FLOW) to make service more accessible to customers, which also relieves the burden on field offices and reduces customer wait times. Customers can renew a driver license, obtain a replacement driver license, change a name or address on a driver license, get an identification card, renew a vehicle registration, and purchase a specialty license plate. These mobile units also offer FLHSMV's critical safety services such as emergency contact information registration and safety campaigns by the Florida Highway Patrol. However, no written or driving tests are given from mobile units. Of the 13 mobile units, seven provide services out of a large bus, making them great for large and outdoor events; six mini-FLOW are set up at a table, which accommodates smaller venues and indoor events. The photo of mobile units are presented in Figure 13.



(a). FLOW – Large Bus



(b). FLOW – Table

FLHSMV also provides online calendar of these mobile units so that customers can check the future location up to one month. In addition, customers can request a FLOW online as well.

California DMV. DMV Announces New Efforts to Reduce Wait Times. August 7, 2018. Online Reference. Accessed on January 31, 2020. Available at: https://www.dmv.ca.gov/portal/dmv/detail/pubs/newsrel/2018/2018_63.

Due to increased demand in the federal compliant REAL ID driver licenses or identification cards, customers have experienced longer-than-expected service

Figure 13. Florida Mobile Units

times. The California DMV took a number of additional actions — including redirecting 240 employees from the DMV headquarters and staff from other state agencies and departments— to combat rising wait times at field offices.

The department also used a variety of additional options to reduce wait times. Some of the timesaving solutions include:

- Piloting a text notification option. If a customer provides their cell phone number when they check in, they can receive a text message shortly before their service number is called. This provides flexibility so they do not have to wait inside a field office.
- Piloting self-check-in kiosks. Customers with appointments can bypass the "Start Here" window and use a kiosk to instantly receive their service number.
- Expanding DMV Now Self-Service Terminals: DMV will add the selfservice vehicle registration renewal kiosks to 10 additional field offices. Later in 2018, the department planned to expand to 50 additional grocery store locations, bringing the statewide total of DMV Now Self-Service Terminals to 160.
- Saturday service expansion: The DMV expanded Saturday service to 60 field offices on August 4, 2018. Offices are open every Saturday from 8 a.m. to 5 p.m. Find a location on the Saturday Service webpage.
- Early office hours: The DMV began offering extended hours at 14 field offices on July 16, 2018. The offices open at 7 a.m. four days a week. They continue to open at 9 a.m. on Wednesdays and close at 5 p.m. daily.

Brown, E.G., Brain C. Annis, and Bill Davidson. Report to the Joint Legislative Budget Committee of the State of California: Department of Motor Vehicles Monthly Status Update Report. California DMV. January 4, 2019. Online reference. Available at: <u>https://www.dmv.ca.gov/portal/wcm/connect/c23f9fc5-</u> 57fc-4348-881b-

<u>lac302cafcaa/JLBC_December_2018.pdf?MOD=AJPERES&CVID</u>=. Accessed on January 31, 2020.

California DMV has been committed to reducing statewide wait times (combined queue and pre-queue), especially since REAL ID cards have been produced since the program began on January 22, 2018. As of December 2018, more than 2.45 million REAL ID driver license and ID cards have been produced and issued. Effective actions California DMV took include:

• Hiring new employees: As of December 31, 2018, the following job offers have been made since July 1, 2018: 946 Civil Service Appointments made (561 have already started); 680 Emergency Hires made (469 have already

started); 141 Retired Annuitants hired (128 have already started). The new hires filled the authorized positions for REAL ID and positions in field offices that have become vacant through transfers, promotions, and retirements.

- Observe absenteeism: California DMV established an Absenteeism Task Force to look into the reasons why staff are absent from work and identify strategies to reduce the department's absenteeism rate, which was defined as the total number of staff who have an unscheduled absence, divided by the total number of staff on schedule on any given day. In December 2018, the absenteeism is 6.4%.
- Continue adding self-service vehicle registration renewal kiosks: Four new kiosks were installed in November 2018 in grocery stores in Oxnard, Victorville, Lancaster, and Bakersfield. These terminals allow customers to renew their registration and receive their tags on site. With the addition of these 4 new self-service kiosks, there are now 152 kiosks statewide as of December 2018: 70 in DMV field offices, 77 retail locations, 3 libraries, 1 at UC Irvine and 1 in City Hall in Mendota. The department plans to add 25 more kiosks in 2019.
- Continue improving process:
 - Lean Six Sigma process: In October 2018, the San Jose Driver License Processing Center (DLPC) became the first office to implement a new document review process as its operational standard. This process includes the prescreening of documents such as birth certificates, passports, residency, and social security cards while customers wait for their queue number to be called. When the applicant arrives at a technician window, this document review is already complete and reduces the transaction processing time. In November 2018, the Stanton DLPC implemented this model. The Granada Hills DLPC and Hollywood-Cole field office both adopted this as their operational standard in December 2018. In the month of January 2019, the Pasadena field office became the fifth office to implement this process. The pilot effort revealed that this model of document pre-screening is most effective in those offices whose primary workload is driver licensing.
 - Consistent training: California DMV continued its efforts to develop training material, including training videos, to reinforce the importance of consistency in the customer service initiatives implemented at the field offices. In December 2018, two new training videos were completed that focus on specific details of triaging the customer wait lines and proper queue management.

These new videos will be used as part of statewide employee training on January 16 and January 23.

In December 2018, non-appointment wait times averaged 44 minutes (30 minutes queue time and 14 minutes pre-queue) while those with an appointment waited an average of 13 minutes.

According to the report, between August and December 2018, wait times have been reduced by an average of 86 minutes (1 hour and 26 minutes) for customers coming to a field office without an appointment. This number varies among offices, with some seeing even greater wait time reductions and others not as much. The department's goals are that wait times (amount of time in the queue) not exceed 45 minutes for customers without an appointment and 15 minutes for customers with an appointment. Additionally, the DMV has a goal for non-appointment customers to not wait more than 15 minutes to be issued a queue ticket upon arrival at the field office and an appointment customer not to wait more than 3 minutes to be issued a queue ticket.

Oregon State Legislature. Task Force on Transportation and Customer Service Efficiency. Report. November 1, 2014. Online reference. Available at: https://www.oregonlegislature.gov/citizen_engagement/Reports/ODOT2014Tas kForceCustomerServiceEffncy.pdf. Accessed on January 31, 2020.

While Oregon has shorter than national average wait times, surveys say that customers hate the way they are treated. It was also found that customer satisfaction is not always correlated with wait times. In 2014, wide-ranging customer service complaints spurred the Legislature to form an 11-member task force under House Bill 4047 to study ways to improve wait times and possibly expand Saturday hours. As a result, the bill was passed to hire more DMV staff and extend hours of operation. The following recommendations were made to reduce wait time:

- Post 'live' field office wait time online
- Employ lobby/queue management system: offer a way to manage customers in real-time and can even allow customers to join a 'virtual' line and leave the field office to complete other tasks while they wait.
- Scheduling of appointments: Appointments that allow commercial customers and vehicle dealers to complete unlimited transactions at one time with one payment are a more efficient use of customer and DMV employee time
- Employ kiosks
- Customer information placards: Customers are often frustrated by empty counters when there is a backlog, e.g., to conduct drive tests. Communicate these reasons to customers would help improve the customer experience.

- Provide Wi-Fi in field offices: offer entertainment options to occupy waiting customers and may also allow customers to complete other necessary transactions that impact their DMV transaction, such as paying fines
- Ensure adequate staffing: provide back-up staff for nearby offices to cover illness or vacation.

Barragán, J. "Driver's license centers have hours-long waits, but will Texas lawmakers fix the problem?" The Dallas Morning News. Available at https://www.dallasnews.com/news/politics/2019/05/14/driver-s-license-centershave-hours-long-waits-but-will-texas-lawmakers-fix-the-problem/. Accessed on January 25, 2020.

The article mentioned that Texas has suffered from inefficiencies and excruciatingly long wait times at its driver license centers. A WFAA investigation found that 7 of the 10 worst wait times for driver license centers in the state were in North Texas. A list of DLOs and their average transaction times, renewals and originals, and customer queuing in FY 2018 was provided in Table 9.

In the article, the author said that the data source was Texas DPS. However, the study team searched online and could not find any published data to repeat the analysis. The study team contacted the author and the author replied that he requested the data directly from DPS to develop the table. The study team also noticed that both the Table title and in the article text used "Driver's License wait times," but the column headings were "average transaction times for original license or replacement license." The study team sent the author another email requesting further explanation on this. However, no response has been received so far.

DLO	Average Transa	Verage Transaction Time		Originals	Customers	Customers Queuing	
	Average	Average Transaction	% Renewals	% Originals	Originals	Renewals	
	Transaction	Time Renewal &	within 30	within 45			
	Time Originals	Replacement	minutes	minutes			
Abilene	0:55:58	0:50:53	29.17%	35.13%	14,457	22,325	
Amarillo	0:43:57	0:44:13	43.11%	62.15%	22,704	37,469	
Austin North	1:32:53	1:19:11	18.78%	23.46%	36,644	49,097	
Austin Northwest	1:14:11	1:03:42	24.65%	33.38%	25,188	36,160	
Austin South	2:02:19	1:58:51	11.88%	19.82%	37,246	52,669	
Baytown	1:06:24	0:45:01	33.30%	33.80%	28,739	37,459	
Beaumont	1:19:11	1:14:20	13.15%	21.77%	20,141	33,770	
Boerne	1:16:21	1:09:22	23.06%	32.32%	6,342	12,740	
Brownsville	1:02:09	0:41:25	38.57%	46.02%	18,567	37,316	
Bryan	1:24:40	1:12:58	23.53%	29.77%	25,188	31,048	
Carrollton Mega	2:17:42	1:47:51	15.82%	17.63%	60,025	83,765	
Center							
Clearlake	1:16:31	1:20:03	18.69%	29.71%	11,927	26,785	
Cleburne	1:10:23	0:46:34	31.30%	31.45%	14,289	20,385	
Conroe	0:51:21	0:52:39	30.66%	50.12%	19,862	28,727	
Corpus Christi	1:03:21	0:59:11	29.32%	33.19%	29,081	39,832	
Mega Center							
Dallas South	2:18:37	1:31:44	14.49%	15.75%	83,785	95,461	
Mega Center							
Denton	1:26:22	1:15:55	9.44%	17.57%	17,324	23,950	
Eagle Pass	0:21:18	0:20:16	77.21%	89.99%	11,463	10,141	
Edinburg Mega	0:39:36	0:29:33	62.55%	66.31%	16,754	22,193	
Center							
El Paso Gateway	0:38:44	0:36:09	45.54%	65.12%	27,417	47,092	

Table 9. Texas FY18 Driver License Center Wait Times

DLO	Average Transaction Time		Renewals and	Originals	Customers Queuing		
	Average Transaction Time Originals	Average Transaction Time Renewal & Replacement	% Renewals within 30 minutes	% Originals within 45 minutes	Originals	Renewals	
El Paso Hondo	0:48:42	0:45:02	37.65%	51.52%	22,547	23,163	
Pass			4.5.0.5.				
El Paso Northwest	0:41:35	0:37:42	45.07%	63.14%	16,897	21,068	
El Paso Scott Simpson	0:58:34	0:55:31	20.44%	32.72%	28,030	42,592	
Flower Mound	NA	NA	NA	NA	NA	NA	
Fort Worth Mega Center	2:33:26	1:51:11	12.71%	19.68%	52,949	78,664	
Fort Worth South	1:24:43	1:00:43	20.66%	22.36%	35,023	50,067	
Garland	1:21:30	0:59:46	26.61%	33.16%	27,717	44,752	
Garland Mega	2:34:05	1:48:31	16.31%	20.32%	70,600	111,157	
Center							
Georgetown	1:14:29	1:10:48	17.26%	29.56%	15,185	21,536	
Grand Prairie	2:29:29	2:25:20	9.33%	19.16%	25,161	33,907	
Harlingen	0:37:59	0:28:42	63.59%	72.07%	12,647	27,968	
Houston Dacoma	1:47:17	1:34:45	15.48%	15.46%	44,303	61,171	
Houston Gessner Mega Center	2:00:17	1:52:37	19.48%	26.59%	66,150	91,657	
Houston North Mega Center	1:13:28	1:05:36	37.35%	49.26%	62,643	93,799	
Houston SE Mega Center	1:54:06	1:25:30	25.93%	32.01%	23,355	37,180	
Houston Winkler	1:30:11	1:20:11	11.49%	20.80%	16,504	27,922	
Humble	0:55:06	0:46:13	29.13%	38.81%	32,382	43,606	
Hurst	1:48:13	1:45:37	13.70%	20.46%	29,214	49,671	
Jacksonville	0:48:58	0:47:56	46.18%	57.39%	4,710	6,686	

DLO	Average Transa	ction Time	Renewals and	Originals	Customers Queuing		
	Average Transaction Time Originals	Average Transaction Time Renewal & Replacement	% Renewals within 30 minutes	% Originals within 45 minutes	Originals	Renewals	
Killeen	2:25:26	2:06:47	12.74%	19.39%	29,468	27,190	
Kingsville	0:27:18	0:23:54	68.06%	81.71%	5,575	7,191	
Lake Worth	2:01:10	1:29:16	10.90%	13.57%	37,118	54,422	
Laredo	1:01:32	0:49:32	34.36%	50.66%	26,240	37,956	
Leon Valley Mega Center	1:27:49	0:56:18	35.69%	32.68%	74,267	114,765	
Lewisville	0:59:39	0:53:28	22.48%	37.15%	21,042	40,740	
Livingston	0:35:35	0:35:02	50.61%	73.31%	5,917	8,260	
Longview	0:49:19	0:42:48	37.46%	49.85%	15,008	21,140	
Lubbock	0:54:07	0:46:50	40.80%	54.80%	17,100	34,377	
Marble Falls	0:43:21	0:41:17	45.07%	61.66%	9,346	13,631	
McAllen	0:48:57	0:39:55	47.46%	56.09%	28,670	42,246	
McKinney	1:13:03	0:49:00	23.89%	30.02%	19,058	34,470	
Midland Mega Center	1:40:13	1:19:13	22.94%	29.57%	38,372	49,446	
Mission/Palmview	0:32:27	0:38:09	47.46%	73.70%	399	28,644	
New Braunfels	0:51:18	0:45:05	43.55%	53.76%	16,408	22,038	
Paris	0:20:40	0:17:48	86.71%	93.16%	6,191	10,410	
Pasadena	1:15:48	1:19:26	16.30%	37.72%	10,470	18,803	

Washington State Department of Licensing. "Picture This: Cameras at Every Licensing Service Office Counter." June 11, 2019. Online reference. Available at: https://licensingexpress.wordpress.com/2019/03/26/picture-this-cameras-atevery-licensing-service-office-counter/. Accessed on January 13, 2020.

This article discusses a solution that the Washington State Department of Licensing implemented which helped has reduced driver license wait times. Cameras have been placed at every licensing station (so that the customers do not have to shuffle in between stations to have different functions performed, such as having a photo taken) which saves time. Washington also allows private third-party groups to conduct driving knowledge/skills testing, the most time-consuming transactions. The average state wait time is 10 minutes and it is possible to look up current wait times for all state offices.

Beggin, Riley, Mike Wilkinson, Don, Karen Dunnam, George, Kelly Ripken,Joel, et al. "Michigan's Secretary of State Promised 30-Minute Waits - Lines AreWorse."BridgeMagazine,August14,2019.https://www.bridgemi.com/michigan-government/michigans-secretary-state-promised-30-minute-waits-lines-are-worse

Michigan DMV wait times are increasing. Secretary of State Benson had promised shorter wait times during campaigns, but she has yet to deliver. DMV claims that wait times from those with appointments typically less than 30 minutes but reports from locals are much higher. Methods to decrease wait time include implementing streamlining services for high-volume customers like auto dealers and manufacturers, staff training on goal metrics and how to expedite services. Increased wait times accredited to REAL ID laws and understaffing, and wait time estimations in highly trafficked areas are inaccurate. Wait times vary by region with northern Michigan having the shortest wait times. Wait times are also increased by high staff turnover (good economy, better options) so training takes a while. Michigan used old computer system until recently, but the latest system is filled with bugs. The government claims that simple system and kiosk changes are not enough-must redefine how we deliver state services.

The article provided a Table of average wait time at the 43 Michigan driver license brunches during the first seven months in 2019, as well as the corresponding change from 2018 of each office.

Office	2019 Wait Time (minutes)	Jan.	Feb.	April	May	June	July
Advisor	Ave. Wait	54.4	93.7	87.4	79	97.6	88.2
Adrian	Ch. from 2018	+31	+68.4	+50.8	+30.4	+32	+16.1
Ann Anhon	Ave. Wait	85.1	81.3	81.9	122.4	144.6	136
Ann Arbor	Ch. from 2018	+17.3	+14.3	+8.2	+29.6	+46.1	+23.4

 Table 10. Average Wait Times at 43 Michigan Brunch Offices in 2019

Office	2019 Wait Time (minutes)	Jan.	Feb.	April	May	June	July
Battle	Ave. Wait	68.1	90	74.3	94.7	108.2	114.6
Creek	Ch. from 2018	+26.9	+46.5	+24.2	+40	+64.5	+40.5
Deer Citer	Ave. Wait	12.6	40.7	46.8	52.3	31.7	37.1
Bay City	Ch. from 2018	+10	+18.9	+20.5	+18.3	+0.9	+0.8
Conton	Ave. Wait	103.7	137.9	124.1	78	110.4	122.6
Canton	Ch. from 2018	+1.8	+38.5	+20.9	-33.1	-9.7	-26.5
Chesterfield	Ave. Wait	30.3	59.5	73.6	75.7	76.3	73.1
Township	Ch. from 2018	+3.5	+31.3	+35	+29.9	+10.3	-26.7
	Ave. Wait	67.2	100.9	89.8	80.3	113.4	94.8
Clarkston	Ch. from 2018	+37.5	+54.6	+36.3	+8.3	+28.2	0.5
Clinton	Ave. Wait	48.2	70.9	69.5	64.7	68.8	73.9
Township	Ch. from 2018	+5.4	+26.7	+9.2	-2.3	-10.6	-22.2
C'1	Ave. Wait	27.5	67.1	99.2	111.4	127.9	119.3
Cilo	Ch. from 2018	+26.5	+61.1	+48.1	+60.8	+74.6	+61.7
	Ave. Wait	23.3	67.8	48.8	62.5	55.3	79.1
Davison	Ch. from 2018	+7.2	+38.5	+7.6	-7.5	-3.6	+11.8
Detroit West	Ave. Wait	44.6	94.5	62.3	74.4	102.4	130.8
Grand Blvd	Ch. from 2018	+6.1	+35.1	-20	+1.8	+23	+31.1
F	Ave. Wait	73.4	124.4	75.1	85.9	121.9	118.5
Eastpointe	Ch. from 2018	+29.9	+44.4	-18.8	0	+37.1	-10.7
Flint Fenton	Ave. Wait	46.5	83	65.1	101	98	118.2
Road	Ch. from 2018	-1.7	+24.9	+9.5	+33.6	+22.9	+51.9
Grand Rapids	Ave. Wait	49.6	66.5	65.1	65.2	91.1	91.2
28 th Street	Ch. from 2018	+9.9	+26.7	+17	+2.3	+8.1	-3.2
Grand Rapids	Ave. Wait	35.6	49.5	49.7	45.6	59.1	66.3
Plainfield Ave.	Ch. from 2018	+18.9	+25.8	+24.9	-1.7	+11.4	+5.2
Holland	Ave. Wait	31	48.9	32.3	86.9	108.8	118.6
Homanu	Ch. from 2018	-14.3	+16	-17.3	+16.4	+46.8	+30.5
Howell	Ave. Wait	77.5	108.9	99.6	107.8	123.1	134.2
nowen	Ch. from 2018	-0.6	+54.3	+7.1	-9.5	-4.4	-17.4
Hudsonville	Ave. Wait	26.2	45.2	75.8	72	82.1	80.4
Tradsonvine	Ch. from 2018	+26.2	+21.4	+38.5	+21.4	+28.3	+2.5
Jackson	Ave. Wait	69.9	72.5	67.5	79.3	107.7	85.4
Jackson	Ch. from 2018	+16.3	+19.7	+32.1	+37.8	+47	+6
Kalamazoo	Ave. Wait	60.4	77	120.1	101.9	102.6	120.8
Rahamazoo	Ch. from 2018	-23.5	-3.3	+23.4	-14.1	+3.4	+5.1
Lansing East	Ave. Wait	50.2	61.3	N.A.	N.A.	N.A.	N.A.
Michigan Ave	Ch. from 2018	-45.6	-33.8	N.A.	N.A.	N.A.	N.A.
Lansing	Ave. Wait	33.6	50.5	43.5	65.5	75.4	85.3
Executive Court	Ch. from 2018	+12.6	+19.7	-34.5	-19	-20.6	-10.3
Lapeer	Ave. Wait	19.6	64.1	90.3	99.9	74.5	122.6
-	Ch. from 2018	+2.2	+44.3	+51.5	+53.3	+14.1	+35.1
Livonia	Ave. Wait	103.2	112.3	107.1	130.5	111.2	124

Office Time (minutes) Jan. Feb. April May June July Ch. from 2018 -19.6 -7.4 -7.8 +1.2 -14.7 -27.5 Marquette Ave. Wait 11.4 12.9 30.3 34.5 30.2 35.4 Monroe Ave. Wait 24.6 63.4 46.5 59.2 52.1 57 Muskegon Ave. Wait 21.8 36.9 59.9 83.2 63.2 62.7 Muskegon Ave. Wait 21.8 36.9 59.9 83.2 63.2 62.7 Muskegon Ave. Wait 77 101.7 95 131 151 182.8 Novi Ave. Wait 73.6 103.2 90.1 98.2 114 156.4 Ch. from 2018 +21.4 +42.5 +11.8 +7.6 +21.9 +43.4 Pontiac Ave. Wait 15.6 61 38.5 51.8 75.2 87 Port Huron Ch.		2019 Wait						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Office		Jan.	Feb.	April	May	June	July
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		Ch. from 2018	-19.6	-7.4	-7.8	+1.2	-14.7	-27.5
Ch. from 2018 +11.4 +12.9 +30.3 +34.5 +9.9 +3.7 Monroe Ave. Wait 24.6 63.4 46.5 59.2 52.1 57 Muskegon Ave. Wait 21.8 36.9 59.9 83.2 63.2 62.7 Novi Ave. Wait 77 101.7 95 131 151 182.8 Oak Park Ave. Wait 73.6 103.2 90.1 98.2 114 156.4 Oak Park Ave. Wait 73.6 103.2 90.1 98.2 114 156.4 Pontiac Ave. Wait 73.6 103.2 90.1 98.2 114 156.4 Pontiac Ch. from 2018 +21.4 +42.5 +11.8 +7.6 +21.9 +43.4 Portage Ave. Wait 15.6 61 38.5 51.8 75.2 87 Ch. from 2018 +22 +30.2 +1.4 +2 +20.4 +6.7 Portage Ave. W	Mongyatta	Ave. Wait	11.4	12.9	30.3	34.5	30.2	35.4
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Marquette	Ch. from 2018	+11.4	+12.9	+30.3	+34.5	+9.9	+5.4
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Mongoo	Ave. Wait	24.6	63.4	46.5	59.2	52.1	57
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Monroe	Ch. from 2018	+24.6	+63.4	+29.4	+19.7	+9.2	+0.8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Muslusse	Ave. Wait	21.8	36.9	59.9	83.2	63.2	62.7
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Muskegon	Ch. from 2018	-1.2	+9.5	+23.2	+23.7	-10.4	-29.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Navi	Ave. Wait	77	101.7	95	131	151	182.8
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	INOV1	Ch. from 2018	+1	+28.5	-39.4	+7.8	+44.3	+62.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Oals Daris	Ave. Wait	73.6	103.2	90.1	98.2	114	156.4
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Оак Рагк	Ch. from 2018	+21.4	+42.5	+11.8	+7.6	+21.9	+43.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Donting	Ave. Wait	64.8	87.5	79	89.4	103.6	96.8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pontiac	Ch. from 2018	-2.7	+26.6	+9.9	+0.3	+8.6	-9.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Ave. Wait	15.6	61	38.5	51.8	75.2	87
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Port Huron	Ch. from 2018	+2	+30.2	+1.4	+2	+20.4	+6.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Ave. Wait	53.2	81.6	81.9	113.5	125.2	123.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Portage	Ch. from 2018	+5.8	+29.8	+15.7	+7.4	+32.8	+19
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rochester	Ave. Wait	52.2	84.3	100.2	114.3	143.4	149.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Hills	Ch. from 2018	-17.4	+21.9	+40.7	+41	+35.8	+25.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Seginaw	Ave. Wait	20	45.3	35.4	48.1	50.9	70.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Bay Road	Ch. from 2018	-6.8	+18	+9.4	+19.6	+12.5	+28.1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Shelby	Ave. Wait	57.3	87	96.2	99.8	110.2	101.4
SouthfieldCh. from 2018 $+6.8$ $+23.6$ -33.3 -18 -3.6 -7.8 Sterling HeightsAve. Wait 42.2 78.3 28.3 57.4 79.4 71 HeightsCh. from 2018 $+10.2$ $+39.4$ -16.1 $+4.4$ $+5.2$ -14.8 TaylorAve. Wait 112.9 121.5 91.1 66.5 79.3 109.3 TaylorCh. from 2018 $+41.6$ $+43.6$ -15.1 -27.2 -23.9 -19.3 Traverse CityAve. Wait 23.6 45.5 47.9 70.7 47 80.6 CityCh. from 2018 -46.9 -17.4 -12.6 -14.4 -47.8 -36.3 TrentonAve. Wait 59.6 88.9 70.1 112.8 91.4 94.4 Ch. from 2018 $+59.6$ $+46.7$ -6.8 $+40.8$ $+0.7$ $+8$ TroyAve. Wait 101.1 107.4 116.3 112.8 129.5 135.8 Ch. from 2018 $+28.3$ $+50.4$ $+40.8$ $+7.9$ -3 $+10.6$	•	Ch. from 2018	+25.5	+43.6	+43	+29.5	+20.1	-19.8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	G (1 C 1 1	Ave. Wait	95.1	119	70.2	92.2	106.1	124.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Southfield	Ch. from 2018	+6.8	+23.6	-33.3	-18	-3.6	-7.8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Sterling	Ave. Wait	42.2	78.3	28.3	57.4	79.4	71
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	Ch. from 2018	+10.2	+39.4	-16.1	+4.4	+5.2	-14.8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Ave. Wait	112.9	121.5	91.1	66.5	79.3	109.3
City Ch. from 2018 -46.9 -17.4 -12.6 -14.4 -47.8 -36.3 Trenton Ave. Wait 59.6 88.9 70.1 112.8 91.4 94.4 Ch. from 2018 +59.6 +46.7 -6.8 +40.8 +0.7 +8 Troy Ave. Wait 101.1 107.4 116.3 112.8 129.5 135.8 Ch. from 2018 +28.3 +50.4 +40.8 +7.9 -3 +10.6 Ave. Wait 58 90 80 73.8 83.3 95.3	Taylor	Ch. from 2018	+41.6	+43.6	-15.1	-27.2	-23.9	-19.3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Traverse	Ave. Wait	23.6	45.5	47.9	70.7		80.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Ch. from 2018	-46.9	-17.4	-12.6	-14.4	-47.8	-36.3
TrentonCh. from 2018 $+59.6$ $+46.7$ -6.8 $+40.8$ $+0.7$ $+8$ TroyAve. Wait101.1107.4116.3112.8129.5135.8Ch. from 2018 $+28.3$ $+50.4$ $+40.8$ $+7.9$ -3 $+10.6$ Ave. Wait58908073.883.395.3			59.6					
Ave. Wait 101.1 107.4 116.3 112.8 129.5 135.8 Ch. from 2018 +28.3 +50.4 +40.8 +7.9 -3 +10.6 Ave. Wait 58 90 80 73.8 83.3 95.3								
Troy Ch. from 2018 +28.3 +50.4 +40.8 +7.9 -3 +10.6 Ave Wait 58 90 80 73.8 83.3 95.3								135.8
Ave Wait 58 90 80 73.8 83.3 95.3	Troy							+10.6
1 $1 $ $1 $ $1 $ $1 $ $1 $ $1 $ 1	XX 7	Ave. Wait	58	90	80	73.8	83.3	95.3
Warren	Warren							-34.2
Ave Wait 387 787 921 813 1037 1066	XX 7 ·							106.6
	Wyoming							+27.8

The study team noticed that March is not included in Table 10. The article gave the reason because most branches did not have data for March. According to Table 10,

the average wait time of the 43 Michigan brunches in the first seven months (excludes March) of 2019 was 79.2 minutes. Compared with the same period of 2018, Michigan experienced a 12.8 minutes wait time increase.

The article cited the data source as Michigan Secretary of State. The study team search the official website of Michigan Secretary of State but could not find published data regarding the wait time. We contacted the author of the article and the author replied that he requested the data directly from Secretary of State and developed the table.

Tennessee Comptroller of the Treasure Performance Audit Report. Department of Safety and Homeland Security. September 2019. Online reference. Official website of Tennessee Comptroller of the Treasure. Available at: <u>https://comptroller.tn.gov/content/dam/cot/sa/advanced-</u> <u>search/2019/pa19058.pdf</u>. Accessed on February 14, 2020.

The Division of State Audit of Tennessee Department of Safety and Homeland Security published a performance audit report on September 2019. The primary focus of the Driver Services Division is to "issue driver licenses and identification cards to qualified applicants." The division maintains 44 staffed driver services centers across the state and partners with county clerks and municipal governments to provide identification cards, licenses, and renewal services. The division also offers citizens the option to renew or replace their license online or to use selfservice kiosks located across the state. In addition to issuing driver licenses, the division is also responsible for processing handgun carry permit applications, handling voter registration, issuing driving records, and managing organ donation commitments.

According to the report, Table 11 lists the services provided by Tennessee Driver Service Center and their corresponding available methods.

Service	Driver Service Center	Mail	Online	County Clerk Office	Tablet	Self- service Kiosks	Mobile Application
Original driver license or ID card	Х						
Driver license renewal	Х	X	X	Х	Х	Х	Х
Duplicate (replacement) driver license or ID card	Х	X	X	Х	Х	Х	Х
Driver license reinstatement	Х	Х	Х				
Motor vehicle record	Х	X	Х				
Knowledge and road skills test	Х						
Handgun permit application	Х		Х				
Address change	Х	X	X	Х			Х
Name change	Х			Х			
Real ID	Х						
Voter photo ID	Х						

Table 11. Services and Available Methods Provided by Tennessee DriverService Center

As of January 23, 2019, the Driver Services Division had 432 employees, including 265 Driver License Examiners and Managers and 167 employees at the central office in Nashville.

Starting July 1, 2016, the Division of Audit performed an audit on Tennessee Department of Safety and Homeland Security, including a review of internal controls and compliance with laws, regulations, policies, procedures, and provisions of contracts or grant agreements. As part of the audit, during July 1, 2016 to June 30, 2019 (the audit is still ongoing and the scheduled termination date is June 30, 2020), the Division of State Audit audited the Driver Service Division, including:

- Driver services centers wait times
- CDL issuance
- CDL traffic convictions
- REAL ID implementation

• Staff turnover analysis

One of the main findings from the report found is that "Management did not accurately measure customers' wait times and wait times at some driver services centers still exceeded the department's average wait time standard."

In October 2016 performance audit report, the Division of Audit reported that Driver Services Division did not accurately measure total wait times for driver license applicants at driver services centers because the time customers waited to obtain a service ticket was not measured and included as part of the total wait time. To solve this, Tennessee Department of Safety and Homeland Security signed contracts with vendors to implement customer queuing systems/kiosks. However, the audit team performed site visit in May/June 2019 and found some kiosks were not functional due to various vendor hardware and technical issues, such as inoperable kiosks and insufficient technical support for driver services centers. Therefore, the audit team said that the division could not accurately measure customers' wait times from January 2019 through June 2019 because of these ongoing technical issues.

The Driver Service Center processed 1.5 million transactions and served 1.4 million customers in FY2018. Based on factors, such as staffing levels and services provided at the centers, the division management sets a performance standard for the average wait time per transaction for each office. The average wait time standards for fiscal years 2017, 2018, and 2019 are 16, 24, and 24 minutes, respectively.

The audit team obtained and analyzed monthly wait time reports for FY2018. The results are shown in Table 12.

Month	Number of Centers Exceeding Standard	Percentage of Centers Exceeding Standard	Average Wait Time (minutes)	Average Time Over Standard (minutes)
July 2017	19	43%	41	17
Aug. 2017	16	36%	41	17
Sept. 2017	9	20%	30	6
Oct. 2017	8	18%	29	5
Nov. 2017	5	11%	33	9
Dec. 2017	5	11%	30	6
Jan. 2018	9	20%	32	8
Feb. 2018	10	23%	34	10
March 2018	14	32%	39	15
April 2018	15	34%	37	13
May 2018	12	27%	33	9
June 2018	17	39%	40	16

 Table 12. FY2018 Number of Tennessee Driver Services Centers Exceeding

 Wait Time Standard

On average, the wait time at Tennessee drive service center is 35 minutes in FY2018—9 minutes higher than the standard. In addition, 25% driver service centers' wait times exceeded the standard for more than 6 months during FY2018.

Other main findings from the report are:

- Due to a lack of effective physical security measures, there is a heightened risk of theft, fraud, waste, abuse, and safety concerns at a Department of Safety and Homeland Security driver services center
- Driver Services Center staff did not ensure that adequate proof of residency was obtained before issuance of commercial learner's permits and CDLs
- Local courts' delays in sending traffic violation convictions affect the Driver Services Division's ability to meet the federal reporting guidelines for CDL traffic convictions
- Tennessee achieved full compliance with the REAL ID Act:

To implement the REAL ID Act's requirements, Tennessee Department of Safety and Homeland Security received a federal grant totaling \$2,344,077 between 2009 and 2011, which was spent in full as of June 30, 2016. In preparation for the rollout of REAL ID issuance, the department plans to use \$600,000 of its state budget for FY 2019 and FY 2020 - \$200,000 to pay for advertising to relay and promote the issuance of REAL IDs; and \$400,000 to pay 30 part-time, temporary employees, who were hired in May 2019 to assist with increased ID issuance activities. Tennessee driver service center began issuing REAL IDs on July 1, 2019. FitzPatrick, Hayley. "At the DMV Monday, Shorter Lines and Calmer Tempers." Medium. Transit New York, October 16, 2017. <u>https://medium.com/transit-new-york/at-the-dmv-monday-short-lines-and-calm-tempers-3c198824384f</u>. Accessed on January 20, 2020.

Midtown Manhattan DMV wait time is ~35 minutes. These wait times are typically shorter than expected since NYC is such a large, dense city. This decrease in wait times is due to efficient appointment system.

New York State. Governor Cuomo Highlights Dramatic Reduction in DMV Wait Times. January 29, 2015. Official website of New York State. Available at: <u>https://www.governor.ny.gov/news/governor-cuomo-highlights-dramatic-</u> <u>reduction-dmv-wait-times</u>. Accessed on February 15, 2020.

The article highlighted a dramatic reduction in wait times at offices of the New York State Department of Motor Vehicles. In 2012, New York DMV started Customer Service Initiative—a two-year process to reduce customer wait times, including the following actions:

- Implement a reservation system: all customers can reserve a day and time convenient for them without a wait
- Expand office hours
- New technology at call centers to expedite the 4.5 million calls received each year
- Assign employees to greet customers upon arriving at DMV offices in order to ensure they can efficiently navigate to the office and have the required documents
- Establish "vision registry": this allows customers have the results of required eye exams transmitted electronically from their vision provider to the DMV. After the results have been transmitted, the customer can renew their driver license online without having to visit a DMV office
- Re-design DMV website: improve the appearance and content of the website and focused specifically on optimizing the mobile experience. In 2014, the total visitation to the DMV website was 28 million.
- Place kiosks in most DMV offices: customers can process their own registration renewals and replacements, driver license and non-driver ID renewals and replacements, permit replacements, address changes and driver license record requests

As a result, in September 2014, the average wait time at State-run DMV offices was reduced to 30 minutes—down from an average of 72 minutes (a decrease of 58%) in March 2013.

Toledo Blade. "Ohio Rolls out Online Waiting for Some BMV Locations." June17,2019.Onlinereference.Availableat:https://www.toledoblade.com/local/transportation/2019/06/17/ohio-rolls-out-online-waiting-for-some-BMV-locations/stories/20190617148.AccessedonJanuary 9, 20202020AccessedAccessedAccessedAccessed

Ohio utilizes online waiting that provides customers have a 4-hour window to claim a spot in line. The Program also will track wait times. However, wait times were never very long in Ohio to begin with. This program cost \$20,000 to launch. It is currently in 12 offices-will expand if successful.

DeCosta-Klipa, Nikolas. "3 Things to Know about Those Scary Wait Times at the RMV." Boston.com. The Boston Globe, March 28, 2018. <u>https://www.boston.com/cars/car-news/2018/03/28/real-id-rmv-wait-times</u>. Accessed on January 20, 2020.

The Registry of Motor Vehicles in Massachusetts began issuing REAL IDs and a new computer system led to very long wait times. This is because REAL IDs require more documentation which takes a long time to process. The government of Massachusetts is encouraging customers to fill out documents beforehand or go online for other requests to decrease wait times dramatically.

According to the website, Massachusetts increased the number of residents served in less than 30 minutes from 59% in November 2014 to 74% by December 2015. Massachusetts registry's official website provided real-time wait time (at <u>https://www.mass.gov/info-details/rmv-service-center-wait-times#rmv-servicecenter-wait-times-</u>) so that customer can check expected wait time at different Registry of Motor Vehicles (RMV) locations. Massachusetts RMV provides customers color-coded queues — a green "Ready to Go Line" for people who have their paperwork in order, and an orange line for folks who need more help or are performing lengthier transactions. They also place a greeter near the door to help people figure out what paperwork they need for their transaction and directing them to the right queue depending on whether their forms are in order (Miller 2015).

FOX 4 Kansas City WDAF-TV / News, Weather, Sports. "Kansas License Bureau Customers Experiencing Extra Long Wait Times." July 6, 2018. Online reference. Available at: https://fox4kc.com/2018/07/06/kansas-dmv-customersexperiencing-extra-long-wait-times/. Accessed on January 17, 2020

The Kansas Licensing Bureau experiences busier weeks when people typically take off work. Reports have claimed customers make appointments but are still turned away at the door or have up to 4-hour waits. REAL IDs take longer. Online transactions, like change of address, are underutilized. Spring and summer are big times for license renewals.

Pender, Kathleen. "Ten Ways to Avoid Spending Your Whole Day at the DMV." SFChronicle.com. San Francisco Chronicle, July 14, 2018.

<u>https://www.sfchronicle.com/business/networth/article/Ten-ways-to-avoid-</u> <u>spending-your-whole-day-at-the-13073886.php</u>. Accessed on January 27, 2020.

California has not implemented a text alert system for appointments. They have short wait times with appointment, but appointments are booked several months in advance. Wait time recordings are inaccurate because DMV does not track prewait, but the current recorded waits are advertised so customers can know beforehand. The shortest wait times are recorded at rural offices. Some offices also have self-serve kiosks. They suggest customers bring food, water, and chargers.

The average wait time has exploded since January 22, 2018, when the DMV started issuing driver licenses and identity cards with enhanced security features, known as REAL ID. Things got even worse in February when the DMV started rolling out a new computerized queuing system to direct customers to the technician best suited to their needs. Some technical bugs were encountered with the new system.

The average wait time without an appointment for all services at 27 Bay Area DMV offices was an hour and 43 minutes in the first half of June 2018 compared with 47 minutes the same time a year ago. But that is only the time it takes from the moment a customer gets a numbered ticket until he or she is called to a window to begin the transaction. People could be in line "for hours" before they get the numbered ticket. The DMV is not tracking that time.

The article provided 10 tips to improve efficiency at DMV: 1. Don't go if you don't have to; 2. Look at your license; 3. Take a DMVacation; 4. Check wait times; 5. Consider going in late; 6. Bring the proper paperwork; 7. Bring sustenance; 8. Bring backup; 9. Don't rely on credit cards; and 10. Keep calm.

Wu, Jiao Rong, Su Gang Lu, and Ying En Ge. "Identifying Factors Impacting Customers' Perceived Waiting Time in High Density Passenger Flow Waiting Areas." Procedia - Social and Behavioral Sciences 96 (2013): 1801–11. https://doi.org/10.1016/j.sbspro.2013.08.205.

According to the paper, younger and older customers tend to believe they waited longer than they actually did, compared to the middle age range. Males tend to believe they waited longer than they actually did. People who visited earlier in the morning tend to believe they waited longer than they actually did. Solo customers tend to believe they waited longer than they actually did compared to people who came in larger groups. Perception factor positively correlated with increasing number of people in group. It is more difficult to wait in hot conditions, standing more difficult than sitting, more difficult in densely packed areas and more difficult without waiting information. Boredom sense is important in determining perception factor

Maister, D.H. (1985), "The psychology of waiting lines," in Czepiel, J.A., Solomon, M.R. and Surprenant, C.F. (Eds), The Service Encounter: Managing

Employee/Customer Interaction in Service Businesses, Lexington Books, Lexington, MA, pp. 113-23.

The major findings from this paper include the following. Occupied time feels shorter than unoccupied time. People want to be acknowledged when they walk in (take a number) rather than waiting in a line without acknowledgement. Anxiety increases perceived wait time. An example of this is "The other line is moving faster." Uncertain and unexplained waits make people anxious. Unfair waits feel longer than equal waits. Customers will more likely wait calmly if service does not feel trivial. Solo waits feel longer than if someone is in a group

McGuire, K. A., Kimes, S. E., Lynn, M., Pullman, M. E., & Lloyd, R. C. "A framework for evaluating the customer wait experience" Cornell University, School of Hospitality Administration (2010).

The authors proposed and tested a model of the relationship between perceived wait time (PWT) and satisfaction that considers the impact of various psychological mediators. They conducted one field study and two laboratory experiments where subjects participated in a service with a pre-process wait and evaluated their experience on a survey. Their study found that perceived wasted time, perceived control, perceived boredom, and perceived neglect mediated the relationship between PWD and wait experience evaluation:

- Perceived wasted time: Time spent waiting increases the investment that must be made to obtain a service and reduces the utility that can be derived from it (Schwartz, 1975; Berry et al., 2002). The more valuable the customers' time, the more negative their perception of those that waste it (Osuna, 1985; Antonides et al., 2002).
- Perceived control: Control is defined as the need to demonstrate one's competence, superiority, and mastery over the environment. Increased perceptions of control have a significant, positive impact on human physical and psychological well-being (Staub et al., 1971; Langer and Rodin, 1976; Szpiler and Epstein, 1976; Sherrod et al., 1977, Burger, 1987, Hui and Bateson, 1991).
- Perceived boredom: Boredom arises when an individual "does not get enough interesting information" (Klapp, 1986). Due to the way in which the human mind measures the passage of time, time often seems to move more slowly to someone who experiences boredom. In other words, having nothing to do during the wait results in idleness, which leads to boredom (Maister, 1985; Larson, 1987).
- Perceived neglect: When customers are forced to wait, they might perceive the agency as unresponsive or not empathetic. Feelings of neglect during a

wait cause anxiety and uncertainty, which negatively impact the experience (Taylor, 1994; Hui et al., 1998).

When tested using filled versus unfilled wait time as the situational variable, the model showed that having something to do during the wait decreased perceived boredom, resulting in a more positive wait experience.

However, it needs to be pointed out that the services used in this paper were functional (as opposed to hedonistic) in nature and wait durations were a maximum of ten minutes.

Pruyn, A.Th.H. and A. Smidts. "Customers' Evaluations of Queues: Three Exploratory Studies," (1993) in E -European Advances in Consumer Research Volume 1, eds. W. Fred Van Raaij and Gary J. Bamossy, Provo, UT : Association for Consumer Research, Pages: 371-382

The paper conducted three exploratory studies using different methodologies. The first study of customer waiting times was the diary method. Close friends and family of the researchers recorded for one week how much time was spent waiting in lines. They found that finding that, on average, people spend more than half an hour each day on waiting, which produces substantial irritation and less satisfaction with the service proper. The second study looked at the factors that influence waiting situations. The second important factor was the perceived value of the service. In the third study, they did a field experiment of queuing models at a local post office. Single lines and steady progress tend to frustrate people less than multiple lines. This was looked at by analyzing the perceived wait time over actual wait time. The waiting environment and objective waiting time were found to be the most influential factors on perceived duration of waiting. The difference in queuing system appeared to have minor effects.

Wallace, C., Martin, A., and Walton, J., 2015. Best practice for the implementation of the REAL ID Act. University of Kentucky, Kentucky Transportation Center.

Kentucky, which currently operates its licensing division through a decentralized model run through County Clerks Offices, conducted a survey and research review to recommend options for the state's transition to REAL ID compliance. The report recommends centralizing REAL ID printing and distribution into one facility to lower costs of complying with security protocols, and then proposes options for distributing non-REAL ID compliant licenses from its regular field offices. It also recommends an online renewal option, and a staggered transition to an 8-year renewal cycle. Some of the best practices highlighted by states surveyed include an online checklist giving residents information about what documents are needed for REAL ID, solutions for limiting mailing issues of ID cards, and having the option of a non-compliant ID for those residents who can't access all the necessary

documentation. This report also provides an outline for how to predict costs of implementation under various scenarios, including vendors and contractors.

Williams, T., 2013. Safedrive Medical: Assessing fitness to drive. 16th Road Safety on Four Continents Conference.

In Victoria, Australia, licensing for driving is based on "fitness to drive" test only, not age. The licensing department is responsible for monitoring medically at-risk drivers. Such drivers can be reported to VicRoads, the licensing dept, by anyone, but often it is medical professionals who are the front line of informing patients if their health conditions might contribute to dangerous driving. Thus, the department began an educational program to better inform medical professionals about how to assess fitness to drive in their patients. The main health conditions connected to elevated driving risk are alcohol abuse, dementia, epilepsy, MS, psychiatric disorders, schizophrenia, sleep apnea, and cataracts. The educational program, both a free seminar and online module, were evaluated by health professionals as useful and relevant.

United States Government Accountability Office, Driver's License Security: Federal Leadership Needed to Address Remaining Vulnerabilities. Report 12-893, Washington, D.C., September 2012.

This report recommends action and guidance from the Department of Homeland Security to address problems states have faced preventing cross-state and birth certificate fraud. Most states have successfully complied with existing DHS guidelines and laws related to preventing licensing fraud. However, many states have requested additional help with cross-state and birth certificate fraud, as there are currently gaps in cross-state coordination and data accuracy that single states alone are struggling to address. The GAO recommends interim action and guidance for states from the DHS while national systems are developed

Wheet, A., Rall, J., Major State Transportation Legislation. National Conference of State Legislatures. March 2011. Online reference. Available at: https://www.ncsl.org/documents/transportation/2010majortranleg.pdf. Accessed on January 27, 2020.

This report reviews funding and financing legislation passed and considered by states in 2010 in the face of the impending end to American Recovery and Reinvestment Act funding. Some of this legislation proposed increasing taxes and fees associated with registration and licensing, others proposed less-common options like selling ad space on state-owned electronic highway signs or charging vehicle miles fees.

At the end of 2010, the REAL ID Act required that state-issued driver license and ID meet federal standards by May 2011 to be accepted for federal purpose. Department of Homeland Security has estimated that it will cost about \$3.9 billion for the states to implement REAL ID. In 2010, Kentucky, Louisiana, New

Hampshire, Oklahoma, and Utah considered bills that would have prohibited the state from complying with REAL ID provisions. The Utah bill passed (House Bill 234), making it the 25th state to oppose REAL ID. Conversely, legislators in Virginia proposed but did not pass a bill that would have required compliance.

Keathley, V., Martin, A., Walton, J., Kentucky Transportation Center at the University of Kentucky. Online Driver's License Renewal Research Report. September 2015.

The State of Kentucky commissioned this report to explore options for providing online driver license renewal. A preliminary survey of states that have enacted online renewal indicated that online renewal is more efficient, improves customer service, cuts down on foot traffic, and promotes cost savings. States also reported on costs of implementation, distribution models, and eligibility requirements. Implementation was not found to be particularly disruptive or expensive. University of Kentucky researchers proposed either operating a print farm through the state or contracting out centralized production of IDs at a vendor location to service residents getting licenses online. The state would need legislative approval for either option to increase fees, and it would need to amend state law to authorize distribution of licenses by a vendor third party.

Ulmer, David H. "NCDOT IT Oversight SB744 Projects." North CarolinaDepartmentofTransportation,November20,2014.https://www.ncleg.gov/DocumentSites/committees/JLOCIT/PastMeetingInformation/2013-2014/11-20-2014/IT-Oversight-SB744-Overview-Status-Report-11-17-14v3.pdf.

In 2014, North Carolina's Department of Transportation (NCDOT) used funding allocated after the passage of SB744 for technological and process improvements to its driver license renewal and registration process. NCDOT updated and made more durable its driver licenses, improving security, and ensuring compliance with Federal REAL ID requirements. NCDOT optimized office layouts, replaced mobile units with new portable units and footlockers, and piloted 34 self-service kiosks offered by MorphoTrust USA. Certain customers were made eligible to renew driver licenses remotely via the internet, kiosks, and personal devices. For customers petitioning the DMV to preserve driving rights after a license suspension, NCDOT sought to make the hearing process more efficient by better allocating hearing officers across locations. NCDOT additionally used internal resources to implement service-oriented architecture (SOA) goals, seeking to reduce delivery times and improve product and service distribution. Lastly, NCDOT upgraded its systems, applications, and products (SAP) infrastructure.

Safran. "Delaware DMV Speeds Customer Service Using MorphoTrust Self-Service Kiosks." September 20, 2012. Online reference. Available at: https://www.safran-group.com/media/20120912_delaware-dmv-speeds-

customer-service-using-morphotrust-self-service-kiosks. Accessed on January 16, 2020

In September 2012, Delaware's Department of Motor Vehicles began using MorphoTrust USA's self-service kiosks in three Delaware cities: Dover, Wilmington, and Georgetown. The kiosks are meant to speed up the ID issuance process for customers needing to replace or renew their licenses. If a customer chooses to use the kiosk, they either place their old license on a scanner or enter personal information by touch screen—if without their license—and look at the kiosk's camera. The kiosk connects to the DMV mainframe and confirms the customer's identity. After taking a new picture, customers take a receipt from the kiosk to the window of a secure processing room to retrieve their new licenses. The kiosks also permit voter registration, address changes, and organ donor registration, with the potential for future registration capabilities.

FindBiometrics. "DMV To Benefit From Virtual Lines Thanks To New MorphoTrust Partnership." August 27, 2014. Online reference. Available at: https://findbiometrics.com/dmv-to-benefit-from-virtual-lines-thanks-to-newmorphotrust-partnership/. Accessed on January 20, 2020.

In August 2014, MorphoTrust USA partnered with QLess, a wait management solutions software provider, integrating this new technology into its IdentoGO Centers and providing it to federal agencies. This partnership has the potential to streamline services and reduce wait times at governmental offices. To use this service, customer with internet-enabled personal devices may enter contact information at a website. They then receive a text or call notifying them it is their time to be served. Customers without internet-enabled devices may use an on-site touch screen kiosk to manage service times.

Martin, Zack. "Kiosks Enabling Driver License Renewal, Replacements." SecureIDNews, November 11, 2014. https://www.secureidnews.com/newsitem/kiosks-enabling-driver-license-renewal-replacements/.

In November 2014, Massachusetts's Registry of Motor Vehicles began using MorphoTrust USA's self-service kiosks, deploying eight kiosks in DMV offices across the state. The kiosks are meant to speed up the ID issuance process for customers needing to replace or renew their licenses. If a customer chooses to use the kiosk, they place their old license on a scanner, answer a few authentication questions, and then look at the kiosk's camera. The kiosk connects to the DMV mainframe and confirms the customer's identity. After taking a new picture, the kiosk prints a receipt that functions as a temporary ID until the customer receives a permanent ID in the mail a few days later. The kiosk additionally asks customers if they would like to register to vote and register to be an organ donor, among other possibilities.

WLOX. "Residents Frustrated over out of Service Kiosk." November 3, 2017. Online reference. Available at: https://www.wlox.com/story/36753219/residentsfrustrated-over-out-of-service-kiosk/. Accessed on January 10, 2020.

In November 2017, Mississippi residents reported frustration that a MorphoTrust USA self-service kiosk deployed by the Mississippi Highway Patrol at a county courthouse had been broken for an extended period of time. The kiosk performed certain DMV functions, and saved customers from otherwise unnecessary trips to the DMV. Part of the reason for the delayed repair is confusion over the kiosk's repair process: Mississippi Highway Patrol says repairs are not their responsibility but are instead MorphoTrust USA's.

Witt, Gerald. "Driver's License ID Process Changed." Knoxville News Sentinel, August 8, 2013. <u>http://archive.knoxnews.com/news/local/drivers-license-id-process-changed-ep-510564804-355589301.html/</u>. Accessed on January 24, 2020

This article provides additional information on the February 2013 deployment of MorphoTrust USA self-service kiosks by the Tennessee Department of Safety and Homeland Security (TDOS). Customers renewing or replacing ID's through selfservice kiosks receive a 20-day temporary paper ID, while a permanent ID is stamped and mailed from a factory in Washington state. Customers may also update ID photos at kiosks if they would like, regardless of whether they need to renew or replace their license.

Iowa Department of Transportation. "Kiosks - Motor Vehicle." Official website of IDOT. Online reference. Available at: https://iowadot.gov/mvd/kiosks. Accessed on January 18, 2020.

Iowans have the ability to renew or replace their ID at self-service kiosks. If a customer chooses to use the kiosk, they either place their old license on a scanner or enter personal information by touch screen—if they are without their license—and look at the kiosk's camera. The kiosk connects to the Department of Transportation (DOT) mainframe and confirms the customer's identity. A permanent ID will arrive in the mail within 21 days. The Iowa DOT's website lists additional requirements for ID renewal and replacement.

Des Moines Register. "Renew License at Six Metro DOT Kiosks." June 10, 2015.Onlinereference.Availableat:https://www.desmoinesregister.com/story/news/local/community/2015/06/10/dot-license-kiosks/71010926/. Accessed on January 20, 2020.

In June 2015, the Iowa Department of Transportation (DOT) installed 24 selfservice kiosks at alternate public locations such as grocery stores and library branches. The kiosks are meant to speed up the ID issuance process for customers needing to replace or renew their licenses and/or ID. Customers either scan their current driver license and/or ID or enter personal information into the kiosk's touch screen, then they have their photo taken and confirmed through the Iowa DOT's mainframe. Customers then receive a temporary paper ID while they wait up to 21 days to receive a permanent driver license or ID in the mail.

Chandler, Tyler. "Time-Saving Self Service Driver's License Kiosk Installed at Mt. Juliet Police Headquarters." Mt. Juliet Police, December 4, 2012. https://mjpdnews.org/2012/12/04/timesaving-self-service-drivers-license-kiosk-installed-at-mt-juliet-police-headquarters/.

This article provides additional information on one of the 40 self-service kiosks issued by the Tennessee Department of Safety and Homeland Security (TDOS) in late 2012 and early 2013. Customers renewing or replacing driver license and ID through self-service kiosks receive a temporary paper driver license and/or ID valid for 2 weeks, while a permanent driver license and/or ID is stamped and mailed to them. This kiosk, located in Mt. Juliet, Tennessee, is available 24/7.

West Virginia Division of Motor Vehicles. "WV DMV Features New Self-Service Kiosks for License and Registration Renewals." February 28, 2017. Online reference. Available at: https://transportation.wv.gov/DMV/News/Pages/New-Self-Service-Kiosks.aspx. Accessed on January 26, 2020.

In February 2017, the West Virginia Department of Motor Vehicles (DMV) announced the issuance of three self-service kiosks across the state. These kiosks allow customers to renew or replace their driver license and vehicle registration without having to visit a DMV office. After entering personal information and having their identity confirmed at the machine, customers receive a temporary paper ID while their permanent driver license comes in the mail. At the time, customers needing to change the name or address on their driver license still had to visit their local DMV office.

Indiana Bureau of Motor Vehicles. "BMV Connect." Online reference. Available at: https://www.in.gov/bmv/2793.htm. Accessed January 15, 2020.

Indiana offers its residents the ability to perform certain motor license registration functions at 24-hour self-service terminals called BMV Connect. At these kiosks, customers can complete numerous ID registration and renewal tasks, and they may update contact information, among other options.

Gantla, Snehalatha; Reyna, Monica; McNamee, Liza Nirelli; Wulfhorst, J D; Foltz, Barbara E. Idaho Transportation Department, Division of Motor Vehicles -2015 Customer Satisfaction Survey. University of Idaho, Moscow; Idaho Transportation Department; Federal Highway Administration, 2015, 186p. <u>https://trid.trb.org/view/1403011</u>

In the fall of 2014, the Idaho Transportation Department (ITD) commissioned a statewide telephone survey of Idaho residents to gauge their perception of the DMV's performance in different areas of customer service. Prior to being called, residents were sent postcards to inform them of their upcoming survey call.

Respondents were asked to rate services for each of the following four areas: Driver Licensing, Vehicle Titling and Registration, Online Services, and Direct Services. All four areas received a majority of "A" grades from survey respondents, with Vehicle Titling and Registration receiving the most support and Direct Services receiving the least support.

For Driver Licensing, 86% of respondents reported satisfaction with overall wait times, and 94% of respondents felt that DMV staff were courteous and knowledgeable. Most respondents were able to complete their business in one trip, and 91% of respondents awarded a "B" or higher for quality of services when renewing or obtaining a driver license or ID. Thirteen percent of respondents suggested adding more staff at driver licensing offices, followed by 12% of respondents suggesting a focus on staff courteousness and 12% more on wait times.

For Vehicle Titling and Registration, 92% of respondents reported satisfaction with wait times, and 96% of respondents felt that DMV staff were courteous and knowledgeable. Most respondents were able to complete their business in one trip, and 94% of respondents awarded a "B" or higher for quality of services when registering or titling a vehicle. Fifteen percent of respondents suggested adding more staff at vehicle titling and registration offices, followed by 11% of respondents suggesting a focus on staff courteousness and 7% more on wait times.

For Online Services, only 42% of respondents were aware of ITD's online services. Of the respondents that had previously used ITD's online services, 90% awarded a "B" or higher for overall quality of services. The most frequently cited reason for not using online services among those who had not previously used them is a preference for doing business in person. The vast majority of respondents using online services, at 75%, had done so to renew a vehicle registration. No other service was cited by more than 6% of respondents.

For Direct Services, 78% of respondents awarded a "B" or higher for quality of services provided at DMV Headquarters or Port of Entry offices. Courteousness of staff and knowledge of staff were found to be the most influential factors in how respondents rated direct services at DMV Headquarters or Port of Entry offices. Seventy-nine percent of respondents reported some satisfaction with wait times at DMV Headquarters or Port of Entry offices. Among respondents contacting direct services, 89% felt that all communication was very fast, not including telephone or in person communications. A plurality of respondents, at 27%, reported using direct services for driver licenses or identification cards.

Looking at respondents' preferences for conducting transactions, 61% of respondents most preferred in person, while 24% of respondents most preferred online. Among second choices, 20% preferred in person and 28% preferred online. With respect to preferences for communications, 51% of respondents most

preferred mail, while 29% of respondents most preferred email. Among second choices, 24% preferred mail and 23% preferred email.

Kane, S., Foltz, B., Idaho Transportation Department 2009 Customer Satisfaction Survey. Idaho Transportation Department Research Section, Transportation Planning Division. February 2010.

The Idaho Transportation Department commissioned a customer satisfaction survey in 2009 to review its citizens' views on highway construction, DMV procedures, alternative transit options, and public outreach efforts. For DMV driver licensing, titling, registration, and online services, a majority of survey-takers were satisfied with regards to each question they were asked. The report recommends more marketing for DMV online services, even though the services were highly rated by all who used them, only a small percentage of respondents had used the services. Twenty-nine percent of respondents who did not use online services stated the reason was that they "preferred in person/DMV is close/convenient" and 22% stated they did not have Internet access.

Kane, Stephanie L; Foltz, Barbara E. Idaho Transportation Department 2011 Customer Satisfaction Survey. University of Idaho, Moscow; Idaho Transportation Department; Federal Highway Administration, 2011, 166p. <u>https://trid.trb.org/view/1136579</u>

In the spring and summer of 2011, the Idaho Transportation Department (ITD) commissioned a statewide telephone survey of Idaho residents to gauge their perception of the DMV's performance in different areas of customer service. Prior to being called, residents were sent postcards to inform them of their upcoming survey call. Respondents were asked to rate services for each of the following seven areas: Highway Maintenance, DMV Services, Alternative Transportation, Public Involvement in the Planning Process, Communications from ITD, Direct Customer Service, and the Value and Focus of ITD. Driver Licensing Services, Registration and Titling, and Online Registration and Titling received a majority of "A" grades.

For DMV Services, 87% of respondents reported they were able to complete their business in one visit, and 93% of respondents felt that staff was courteous and knowledgeable. Roughly 90% of respondents awarded a "B" or higher for driver licensing services at DMV offices. Roughly 92% of respondents awarded a "B" or higher for vehicle titling and registration services at DMV offices. Eighty-eight percent of respondents reported some satisfaction with wait times at DMV offices. Additionally, 92% of respondents awarded a "B" or higher for online DMV services. Among respondents unaware of online services, 56% reported a likelihood of using these services in the future. Among respondents making suggestions for improvements to DMV services, many comments regarded customer service recommendations such as improving wait times and adding more staff. For Communications from ITD, just 28% of respondents report having accessed ITD's website. Compared to 2009 survey results, these respondents were younger on average, indicating more potential for online communications in the future. Roughly 23% of respondents awarded communications from ITD an "A," with 43% awarding it a "B." With regard to respondents' preference for communications, newspaper and television each received roughly 25%, with modes of communication such as radio, internet, and social media constituting part of the remaining 50%.

For Direct Customer Service, only 12% of respondents reported contacting ITD directly for service, but the vast majority were satisfied with their service. Roughly 44% of respondents awarded direct customer service an "A," with 35% awarding it a "B." Nearly a majority of respondents cited DMV services as the reason for their direct contact with ITD, followed by road maintenance and conditions at 20%. Ninety percent of respondents felt that direct customer staff were courteous, while 84% of respondents felt that direct customer staff were knowledgeable. Eighty-one percent of respondents felt that their service was fast.

For the Value and Focus of ITD, roughly 64% of respondents felt that ITD was either providing good or excellent value, compared to just 5% who felt that ITD provides poor value. Preserving and restoring highways was the most prominent suggestion, followed by winter maintenance and preserving and restoring bridges.

Proctor, Gordon D. Assessing the Idaho Transportation Department's Customer Service Performance. No. FHWA-ID-11-205B. Idaho. Transportation Dept., 2011. <u>https://trid.trb.org/view/1136371</u>

This report evaluates and compares the statewide customer service survey on the Idaho DMV's performance commissioned in the spring and summer of 2011 by the Idaho Transportation Department (ITD) to similar surveys by national agencies and other state transportation agencies.⁴ This report then uses these comparisons to provide additional strategies for improving the ITD's customer service.

In addition to restating the major findings of the 2011 ITD report on Idaho residents' perceptions of DMV performance, this report compares these findings to those of national survey data prepared by the Federal Highway Administration (FHWA) in 2005. Although comparisons between surveys are not exact, this report found that Idaho residents were relatively less concerned about safety and congestion than residents nationally. Additionally, Idaho residents perceived relatively more value from the state transportation system than did residents nationally. Idaho's 2011 survey results and FHWA's 2005 survey results report similar customer satisfaction levels regarding alternative modes of transportation.

⁴ Kane, Stephanie L; Foltz, Barbara E. Idaho Transportation Department 2011 Customer Satisfaction Survey. University of Idaho, Moscow; Idaho Transportation Department; Federal Highway Administration, 2011, 166p. <u>https://trid.trb.org/view/1136579</u>

This report additionally compares Idaho's customer service survey results to similar surveys conducted by Oregon, Montana, and Missouri. With respect to Oregon, this report looked at customer satisfaction surveys from 2007, 2009, and 2011. In Oregon, customers rated Oregon DOT's performance at similar levels to Idaho customers' ratings of ITD's perceived values. So, both the Oregon and Idaho survey results reveal similar levels of customer unawareness of online services. However, Idaho residents reported higher satisfaction levels with DMV services than did Oregon residents with their DMV services.

Further comparisons between results from Ohio, Arizona, Florida, Kentucky, and Tennessee demonstrate similar findings as above. Among these states and national survey results, somewhere between two-thirds and three-quarters of respondents show satisfaction with the services provided by their state's highway network. ITD may benefit from more open-ended survey questions, as well as from comparing survey results between stakeholders, such as elected officials and advocacy groups, and the public.

Based on this research, ITD provides four categories of recommendations for improving customer service. In decreasing order of preference, these four categories are as follows: Low Cost, High Return; High Cost, High Return; Low Cost, Low Return; and High Cost, Low Return.

Among the Low Cost, High Return options, ITD recommends focusing on strategic rules such as the 80/20 rule—which says to focus on the 20% of issues that affect 80% of the public—and, specifically, addressing well-documented pothole and pavement marking issues, increasing awareness of the DMV's online services, and holding low-cost public meetings for community planning opportunities.

Among the High Cost, High Return options, ITD recommends making further investments to pavement quality and longevity as well as expanding non-vehicle transit opportunities for bicycle users and pedestrians.

Among the Low Cost, Low Return options, ITD recommends investing in DMV staff courteousness. Overall, respondents reported satisfaction with DMV staff courteousness—93.1% of respondents described the DMV staff as "very courteous" or "somewhat courteous." However, these results were not uniform and were particularly low in certain counties. Addressing the courteousness of those particular counties likely would be important to residents of these areas. However, raising the scores of those few counties will have only a slight effect upon the already high public satisfaction ratings with the courteousness of DMV personnel. Therefore, this issue is of relatively low cost but will have relatively low impact on statewide public satisfaction ratings.

This report finally reviews the extent of ITD's efforts to assess customer service and makes recommendations for improving these efforts. ITD currently employs asset management systems in evaluating areas such as pavement conditions, maintenance, and infrastructure investments. In addition to more straightforward feedback mechanisms such as legislative outreach, publicly posted performance metrics from ITD, and customer surveys, ITD should involve its asset management systems more in refining customer service. In addition to expanding the scope of these efforts and connecting them more with elected officials and the general public, ITD should also consider incorporating customer service as an explicit mission of its Strategic Plan, a document indicating ITD's performance and efficiency goals. Additionally, ITD should consider a Customer Relationship Management (CRM) system for gathering, evaluating, and responding to customer complaints and comments in a systematic fashion. The CRM system collects and distributes complaints to appropriate agencies and people. This would allow ITD to be more dynamic in its provision of acceptable customer service.

Luling, Debra. Taking it online: Anyway, anyplace, anytime...Tennessee anytime. The Journal of Government Financial Management; Summer 2001;50, 2; ABI/INFORM Global.pg. 42

This article defines and summarizes the benefits of "e-government": the interaction of people with their government through the internet and the subsequent provision of services.

First, the article covers the decision by the State of Tennessee to create an online portal for driver license renewals and address changes in late 2000. Then-Tennessee Governor Don Sundquist prioritized the move to digital government both in his Statewide Strategic Plan in 1998 and his State of the State address in early 2000. State information technology workers then contracted with a private vendor to create and release a site, called TennesseeAnytime, through the spring and early summer of 2000. In late August, the contract was awarded to the National Information Consortium (NIC), who delivered the final product—an online driver license renewal system—just 45 days later. While NIC would handle day-to-day operations for TennesseeAnytime, the state would establish a Portal Advisory Committee (PAC) to monitor and oversee all of its actions.

There is significant demand for e-government services such as online driver license renewals, voter registration, vehicle plate renewals, and access to official records. E-government has the potential to be cost-effective for governments and timesaving for citizens. To have effective e-government services, governments must ensure that their citizens receive a trustworthy, private, and secure online interface. TennesseeAnytime has an available online privacy policy and security assurance for concerned citizens.

Following the launch of TennesseeAnytime, Tennessee state government added more online services, such as online child support payments and access to vital records. TennesseeAnytime showed that e-government could work, and egovernment has been the norm across the country for many governmental services ever since.

Tatham, Chris. Identifying Customer-Focused Performance Measures. ETCInstitute; Arizona Department of Transportation; Federal HighwayAdministration, 2010, 20p. https://trid.trb.org/view/1102449

This study was conducted by the Arizona Department of Transportation (DOT) in the summer of 2009. Arizona DOT sought to gather input from Arizona residents and community leaders, then to use their findings to determine short-term and longterm priorities for the department. To gather data, Arizona DOT completed stakeholder interviews, focus groups, and surveys. Stakeholder interviews involved state and local government officials as well as private sector representatives. The issues discovered in these interviews fed into the focus group materials, which asked local residents and community leaders about the perceptions of transportation services, Arizona DOT's performance, and possible areas of improvement. Following this, Arizona DOT conducted two separate surveys: one with community leaders such as government officials and business stakeholders, and one with a random sample of Arizona residents.

One of the survey findings is that Arizona residents were found to be most satisfied with the Motor Vehicle Division's (MVD) vehicle renewal registration and online services. They were found to be least satisfied with MVD's phone services and felt that this issue was most deserving of attention during the next two years. In sum, 74% of Arizona residents indicated satisfaction with the Arizona MVD, compared to just 5% indicating dissatisfaction.

2.2. Chapter Conclusion

This chapter summarizes various research studies and articles associated with DLD wait time and various methods that have been applied by agencies to reduce the wait time. Overall, long wait time has been a common complaint for DLD services. Kiosks, online processing, expanded working hours are found to be effective to improve efficiencies. Though research has been done to investigate wait time and ways to reduce it, more sophisticated and innovative methodologies are still needed to further explore the safety and economic impact of the safety inspections in Texas. The study team shall develop those methodologies, through surveys and statistical modeling.

Chapter 3. Conclusion

This technical memorandum synthesizes a comprehensive literature review, providing a general introduction to current practices of DLD, DLD wait time, and potential ways to reduce the wait time and improve efficiency.

Following are some notable findings presented in this technical memorandum:

- A thorough review of DLD in Texas and other States was performed;
- Although DLD is managed and operated by different agencies across the U.S., complaints about long wait time has been a common issue;
- The Federal REAL ID Act citizenship and lawful presence documentation requirements have significantly impacted wait and transaction times in Texas and most other states;
- Various factors have been identified to cause long customer wait time;
- Various actions have been taken by agencies to reduce wait time, including optimizing workflow and process, employing self-check in Kiosks, recruiting more employees, and etc.; and
- Certain actions could potentially be adopted by DLD to reduce wait time

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