



# Surveillance Impact Report

Automated License Plate Recognition (ALPR)

San Diego Police Department

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## DESCRIPTION

Automated License Plate Recognition (ALPR) is a computer-based information-gathering system that utilizes specially designed cameras to rapidly capture an image of a vehicle license plate and convert the plate characters into a text file using optical character recognition technology. The text file can then be compared against pre-existing data files. If a match is found, the ALPR system user is notified by an audible alert and an associated notation on the user's computer screen. Because the ALPR system is programmed to check all vehicles in the same manner, it is designed to be an objective, non-discriminatory public safety tool. Operating systems from the vendor of ALPR will allow Department members to access the data to detect, deter, and prosecute crimes in San Diego. All information gathered through ALPR requires verification via the investigative officer before enforcement action can be taken.

Police departments need a scalable solution to increase clearance rates and deter crime. ALPR cameras see like a detective to make actionable evidence available when needed that is easily searchable by vehicle type, make, model, unique features, color, time frame, or plate details. ALPR delivers this detail through machine learning technology that scans each image for distinguishing features instead of traditional metal plates. This means ALPR technology can also detect vehicles with no plates, temporary plates, dirty/covered plates, and even get accurate state detection.

## PURPOSE

ALPR technology is a component of the San Diego Police Department's crime-fighting strategy that involves identifying vehicles associated with suspects, witnesses, or victims. ALPR improves the Department's ability to focus its limited investigative resources, deter the occurrence of crime, and enhance public safety.

## LOCATION

The proposed ALPR and Smart Streetlights will be deployed citywide in all council districts. The locations selected were tied to several factors – analysis of violent crime locations (particularly areas with a strong nexus to gun violence) conducted by our Crime Analysis Unit, input from centralized investigative units (e.g., Homicide, Robbery & Sex Crimes), and then finally input from the commanding officers of every patrol division in the City. Below is the proposed deployment map (Table 1) for the first five hundred Smart Streetlights with embedded ALPR technology. The link provides optimal transparency. It can be accessed by oversight bodies, the Privacy Advisory Board, City Council, and community members. The link displays the precise location of every proposed camera with embedded ALPR technology at the street and intersection level.



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- <https://webmaps.sandiego.gov/portal/apps/webappviewer/index.html>

This map of San Diego County illustrates the 10 legislative districts and the locations of 50 polling stations. The districts are color-coded and labeled as follows:

- District 1:** Light red, covering the coastal area from Encinitas to La Jolla.
- District 2:** Light blue, covering the coastal area from La Jolla to San Diego.
- District 3:** Light green, covering the central coastal area around San Diego.
- District 4:** Light purple, covering the central area around Chula Vista and National City.
- District 5:** Light orange, covering the northern inland area around Poway and Rancho Bernardo.
- District 6:** Light yellow, covering the central inland area around Miramar and Escondido.
- District 7:** Light pink, covering the eastern area around Santee and Winter Gardens.
- District 8:** Light brown, covering the southern coastal area around Imperial Beach and Otay.
- District 9:** Light green, covering the central area around Lemon Grove and La Mesa.
- District 10:** Light orange, covering the northern area around Escondido and Ramona.

The 50 polling locations are marked with black dots, each containing a white number from 1 to 50. These locations are distributed across the county, with a high concentration in the central urban areas (Districts 2, 3, 4, 6, and 9) and along the coast (Districts 1, 2, and 8). Major highways (905, 52, 56, 5, 163, 52, 125, 94) and geographical features (San Diego Bay, San Diego River, Otay River, San Marcos Reservoir) are also shown.



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**Table 2** - Provides the breakdown of Smart Streetlights with embedded ALPR technology in the proposed deployment of the first five hundred Smart Streetlights for each of the nine council districts.

**TABLE 2**

District	Total ALPRS/Smart Streetlights
1	21
2	39
3	91
4	61
5	26
6	58
7	36
8	111
9	57
Total	500

**Tables 3, 4 and 5** - Represents the work of SDPD's Crime Analysis Unit, which centered its analysis on San Diego's crime statistics from 2022, focusing on Part 1 FBI index crimes in each of the nine council districts. The table shows how Part 1 crimes informed the decision-making process regarding the technology deployment, along with the other factors listed above.

**Table 3** - Shows the City of San Diego's Uniform Crime Reporting (UCR) for 2022 regarding violent crime.

**TABLE 3**

District	Murder	Rape	Armed Robbery	Unarmed Robbery	Aggravated Assault	Violent Crime Total
1	0	23	25	63	120	231
2	6	56	67	89	568	786
3	5	160	154	203	1,185	1,707
4	8	38	44	35	423	548
5	3	27	27	12	109	178
6	5	21	38	38	255	357
7	3	57	82	111	355	608
8	9	44	92	69	562	776
9	12	57	63	78	614	824
Unknown	0	13	1	1	13	28
<b>Total</b>	<b>51</b>	<b>496</b>	<b>593</b>	<b>699</b>	<b>4,204</b>	<b>6,043</b>



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**Table 4** – Shows the City of San Diego’s Uniform Crime Reporting (UCR) for 2022 regarding property crime.

**TABLE 4**

District	Residential Burglary	Non-Residential Burglary	Burglary Total	Grand Larceny	Petty Larceny	Vehicle Theft	Property Total
1	162	205	367	1,041	620	374	<b>2,402</b>
2	219	261	480	1,405	877	766	<b>3,528</b>
3	334	364	698	2,227	1,170	977	<b>5,072</b>
4	99	64	163	399	391	480	<b>1,433</b>
5	81	113	194	506	363	201	<b>1,264</b>
6	60	310	370	856	543	508	<b>2,277</b>
7	173	208	381	1,285	1,108	560	<b>3,334</b>
8	88	171	259	706	749	1,740	<b>3,454</b>
9	210	117	327	618	525	718	<b>2,188</b>
Unknown	0	0	0	1	0	1	<b>2</b>
<b>Total</b>	<b>1426</b>	<b>1,813</b>	<b>3,239</b>	<b>9,044</b>	<b>6,346</b>	<b>6,325</b>	<b>24,954</b>

**Table 5** – Shows the City of San Diego’s Uniform Crime Reporting (UCR) for the 2022 crime total.

**TABLE 5**

District	Violent Crime Total	Property Crime Total	Crime Total
1	231	2,402	<b>2,633</b>
2	786	3,528	<b>4,314</b>
3	1,707	5,072	<b>6,779</b>
4	548	1,433	<b>1,981</b>
5	178	1,264	<b>1,442</b>
6	357	2,277	<b>2,634</b>
7	608	3,334	<b>3,942</b>
8	776	3,454	<b>4,230</b>
9	824	2,188	<b>3,012</b>
Unknown	28	3	<b>31</b>
<b>Total</b>	<b>6,043</b>	<b>24,954</b>	<b>30,998</b>



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**Table 6** – Show the top 10 beats where persons were stopped with firearms between July 2018 and December 2022.

**Table 7** – Shows the top 10 beats where crimes involved firearms between July 2018 and December 2022.

**TABLE 6**

Beat	Firearms
441	148
446	140
512	135
521	84
122	81
121	81
511	67
437	64
621	62
611	61
<b>Total</b>	<b>923</b>

**TABLE 7**

Beat	Firearm
512	115
441	108
122	82
521	74
712	73
446	72
813	69
627	62
821	59
242	58
<b>Total</b>	<b>772</b>

## IMPACT

SDPD's ALPR Surveillance Use Policy safeguards civil liberties and civil rights. The uses and deployments of surveillance technology are not based upon discriminatory or viewpoint-based factors. The Department's use of surveillance technology is intended to support and benefit the communities of San Diego while minimizing and mitigating potential impacts to civil rights and civil liberties of community members.

The ALPRs do not collect personal identifying information of the driver or registered owner of the vehicle. The technology does not employ facial recognition. ALPRs are not actively monitored but are viewed in response to an alert.

The information taken from the ALPRs is used after the fact, only after a qualifying crime (e.g., homicide or shooting) and only when a legitimate investigative need exists. The Fourth Amendment rights of San Diegans are not implicated because the ALPRs are physically deployed to view vehicles and license plates in public areas where the license plates and vehicles are exposed to public view. Because the cameras view data in public areas without a reasonable expectation of privacy, no search has taken place under the Fourth Amendment. Therefore, the privacy rights of community members and visitors to San Diego will not be violated.

Refer to Department Procedure 1.51 for additional information.



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## MITIGATIONS

The collection, use, retention, or dissemination of data shall not be used to violate the Constitutional rights of any person or in any manner that would discriminate against any person based upon their ethnicity, race, gender, natural origin, religion, sexual orientation or gender identity.

ALPRs do not collect personal identifying information of the driver or registered owner of the vehicle. The technology does not employ facial recognition. ALPRs are not actively monitored. The information taken from the ALPRs is used after the fact, only after a crime has taken place and only when a legitimate investigative need exists. The Fourth Amendment rights of San Diegans are not implicated because the ALPRs are physically deployed to view vehicles and license plates in public areas where the license plates and vehicles are exposed to public view. Because the cameras view data in public areas where no expectation of privacy exists, no search has taken place under the Fourth Amendment. Therefore, the privacy rights of community members and visitors to San Diego will not be violated.

Digital masking is not needed for ALPR technology as cameras are not directed towards locations where persons have a reasonable expectation of privacy.

Refer to Department Procedure 1.51 for additional information.

## DATA TYPES AND SOURCES

**Hotlist** - A file that contains the license plate numbers of stolen vehicles; AMBER, SILVER, FEATHER, or other law enforcement alerts; lists of license plate numbers known to be associated with wanted or missing individuals. The SDPD must use a second law enforcement database to identify information for individuals associated with the license plate.

**Hotlist Sources ALPR systems** - used by law enforcement; can alert on detections of wanted vehicles. Two primary methods exist for creating a wanted vehicle within an ALPR system. First, ALPR systems allow for the manual entry of both a hotplate and a hotlist. Second, the ALPR system allows agencies to import National Crime Information Center (NCIC) records as an automated hotplate source. This is the most common method for populating hotlists

**Hotplate** - A license plate with a wanted status. It may also be entered into a system designed to provide a notification of future detections.

## DATA SECURITY

All ALPR data downloaded to an ALPR system-accessible device or computer, and in storage, shall be accessible only through a login/password-protected system capable of documenting all access of information by username, license number or other data elements used in the search, name, date, time, and purpose (Civil Code § 1798.90.52).





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The data collected by ALPR technology is secure. Data stored and transmitted by the ALPR technology is encrypted on the system using industry leading 256-bit encryption. This is a higher level of digital security than exists on many commercial banking applications which use 128-bit encryption to protect their financial transactions.

Data will only be maintained by the ALPR for thirty days unless it is downloaded by an investigator as evidence in an eligible criminal investigation. The information will only be accessed by a trained investigator. When data is accessed by the investigator, it will be archived with the rest of the investigation as evidence in compliance with Department Policy 3.02 – Investigations. Department members are practiced at maintaining the security of their investigative files and the digital information therein, which is password protected on the Department's secure network. The data is also protected with physical security as it is housed in secure law enforcement-only buildings.

ALPR system audits shall be conducted on a regular basis by SDPD's Special Project Unit. The purpose of these audits is to ensure the accuracy of ALPR information and correct data errors. The audits will also ensure users of the system follow "need to know, right to know" criteria mandated by the California Law Enforcement Telecommunications System ("CLETS").

Research, Analysis, and Planning personnel will monitor the use of ALPR technology to ensure the accuracy of the information collected and compliance with all applicable laws, including laws providing for process and time period system audits.

SDPD works with the City's Department of Information Technology, which oversees the IT governance process. For additional details related to IT governance processes, which involve risk assessment, along with data and cyber security, refer to the information at the following link:

- <https://www.sandiego.gov/sites/default/files/fy23-fy27-it-strategic-plan-sd.pdf>

## FISCAL COST

### **Initial Purchase Cost:**

The cost is approximately \$4,000 per unit, with 500 units proposed in the initial deployment. That cost includes the hardware, software, and wireless data plan needed to operate the Smart Streetlight technologies proposed and would require an annual payment of \$2,000,000 for every 500 units deployed.

There is also a one-time installation charge for an additional \$1,500,000 for any units deployed during the five-year proposed contract. An initial deployment of 500 units would cost approximately \$3,500,000 for the units and one-time installation charge.

The use of Smart Streetlights would have to be reviewed annually by the Privacy Advisory Board and City Council, along with City Council approving costs associated with adding any additional units.

The Department is working to determine any power charges that may be associated with the installation and use of these devices, as well as savings associated with removing the 3,200 sensor nodes previously deployed, along with evaluating the cost associated with repairing and updating traditional streetlights where Smart Streetlights are proposed for deployment.



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## Ongoing Costs

Ongoing costs are primarily associated with the annual fee of \$4,000 per unit deployed, along with associated power costs and repair of traditional streetlights as Smart Streetlight technology is deployed. For example, if a traditional streetlight is inoperable, it could be replaced for approximately \$125 when Smart Streetlight technology is installed.

## Potential Sources of Funding

- Grant Funds
- General Funds

## THIRD-PARTY DEPENDENCE

ALPR technology is entirely web-based and housed domestically in the United States based Amazon Web Services' (AWS) government cloud. ALPR uses Advanced Encryption Standards (AES) 256-bit encryption as it sends data to the AWS cloud. No data will be stored on city hardware, unless downloaded from the web application for use in a qualifying investigation and maintained in an active case file. When data is accessed by the investigator, it will be archived with the rest of the investigation as evidence in compliance with Department Policy 3.02– Investigations. Department members are practiced at maintaining the security of their investigative files and the digital information therein, which is password protected on the Department's secure network. The data is also protected with physical security as it is housed in secure law enforcement-only buildings.

## ALTERNATIVES

There are currently no alternatives on the market that have the same capabilities as this singular product, which blends high-definition video recording and ALPR technology.

## TRACK RECORD

**Table 8** - Shows governmental agencies that utilize Public Cameras and ALPR data for similar purposes.

**TABLE 8**

Cities	ALPR	Public Cameras
City of San Jose	X	
City of Oakland	X	
City of San Francisco	X	
City of Davis	X	
City of Vallejo	X	
City of Seattle	X	X
City of Nashville		X





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The Major City Chiefs endorsed intelligently deployed ALPR technology which have as their operational foundation the following guidelines: 1. Accountability, 2. Responsibility, and 3. Transparency. The document advocated for robust use policies and training that protect civil liberties and emphasize transparency. The Major City Chiefs' report highlights these guidelines. The report which helped inform the Department's deployment, policies and procedures is attached below on the City of San Diego's Technology page.

- [MCCA Automated License Plate Reader Technology in Law Enforcement \(majorcitychiefs.com\)](https://www.majorcitychiefs.com/mcca-automated-license-plate-reader-technology-in-law-enforcement).

## Success Stories:

The use of ALPR technology has proven efficacy. The below examples taken from the Major City Chiefs' report highlight numerous uses of the technology which help make communities safer by quickly apprehending violent criminals, finding vulnerable elderly, locating missing or exploited children, and promptly recovering stolen vehicles and property.

**Kidnapping** - A male subject attempted to grab a female in a business parking lot. Video surveillance captured the subject and his vehicle. Detectives used video footage to determine the suspect vehicle's make, model, and year range. A query of the ALPR system provided sufficient information to confirm the suspect vehicle and registration. The male was later identified. A records check revealed he had two prior arrests for sexual assaults. He was later located and arrested for the crime of kidnapping.

**Fatal Hit-and-Run Traffic Accident** - ALPR was used to identify the suspect vehicle that left the scene of a fatal traffic accident after hitting two people. The make and model of the vehicle were identified but not the license plate. The license plate and other supporting evidence were discovered by leveraging the ALPR system. After the crime, ALPR detection records showed significant damage to the suspect vehicle.

## **PUBLIC ENGAGEMENT AND COMMENTS**

There was one community meeting held in each of the nine City of San Diego Council Districts. The total number of community meeting attendees was **336 people**. This number includes members of the media and repeat participants who attended more than one meeting

To maximize the reach of the materials presented at the community meetings, the Department created a QR code which directly links smart phones to all materials presented and additional materials. See the below QR code:



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The materials can also be accessed by visiting the below web address:

- [www.sandiego.gov/police/technology](http://www.sandiego.gov/police/technology)

The web address was presented in conjunction with the QR code in the PowerPoint presentation at the community meetings.

The Department also video recorded a meeting so that it could be presented to a larger group. The benefit of the video was the capability of translating the presentation into other languages such as Spanish, to maximize penetration of the materials to affected groups.

The link to the video is at:

- <https://www.youtube.com/watch?v=mRtdFglWB0A&feature=youtu.be>

A great many of the questions asked by community members were answered by the presentation itself. Questions about data retention periods, digital security, policies, procedures, types of crimes and transparency were frequently asked and answered by Captain Jordon through the vehicle of the PowerPoint. Throughout the community meetings, engagement varied. There were questions and comments on both sides of the issue. Comments included support for the San Diego Police Department and/or the proposal, a lack of support for the police or proposal, or were broader based in nature regarding the use of technology in general. During the entirety of the presentations, Captain Jordon answered the various questions or responded to most of the comments, if needed. Some comments required no feedback, or the questions were more rhetorical in nature or position based and an answer was not easily identified. A compilation of the more frequently asked questions and responses include, but are not limited to:

- Use/abuse of the technology with immigration enforcement.
  - SB 54 prohibits SDPD from being involved in any immigration enforcement, in person or via data shared.



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- The overpopulation of cameras deployed to District 8 and/or other areas appeared to overly impact populations of protected classes.
  - Deployment was based on a multitude of factors, crime statistics analyzed by our Crime Analysis Unit, feedback from our centralized investigative units and input from the Divisional Captains. At no time were any protected groups or individuals targeted in the analysis and proposed deployment.
- A request to use the cameras for traffic enforcement.
  - Utilization of the system for traffic enforcement, per the Zencity survey, would erode public trust with SDPD. Public support tended to decrease for surveillance technology being used for lower-level crimes and public disorder.
- Questions regarding audit procedures, public oversight of the audits, and access of the public to the information.
  - The audits would be done by the SDPD's Special Project Unit, which completes internal audits. Additionally, the Office of the City Auditor, State Auditor, and the Department of Justice would have potential further audits and oversight authority. The San Diego Commission on Police Practices (CPP) could have potential oversight responsibilities as well.
- How masking is accomplished and who verifies that the deployment meets privacy concerns.
  - As the cameras are put in place, the Department will ensure cameras are positioned to optimize collection of data from public spaces and avoid collection or filming in private spaces. Each camera will be evaluated for the need to digitally mask off areas where inadvertent collection in a private area was taking place, or where citizens expressed privacy concerns (i.e., places of worship or a private area like a window). The Department would evaluate all concerns passed along to the Department based on the proposed deployment map.
- If there is a way to retrieve the data after the retention periods have passed.
  - There is no way to retrieve data after the retention period has expired.
- The overall cost of the technology, along with any additional services.

#### **Initial Purchase Cost:**

- The cost is approximately \$4,000 per unit, with 500 units proposed in the initial deployment. That cost includes the hardware, software, and wireless data plan needed to operate the Smart



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- Streetlight technologies proposed and would require an annual payment of \$2,000,000 for every 500 units deployed.
- There is also a one-time installation charge for an additional \$1,500,000 for any units deployed during the five-year proposed contract.
- The use of Smart Streetlights would have to be reviewed annually by the Privacy Advisory Board and City Council, along with City Council approving costs associated with adding any additional units.
- The Department is working to determine any power charges that may be associated with the installation and use of these devices, as well as savings associated with removing the 3,200 sensor nodes previously deployed and evaluating the cost associated with repairing and updating traditional streetlights where Smart Streetlights are proposed for deployment.

#### **Ongoing Costs**

- Ongoing costs are primarily associated with the annual fee of \$4,000 per unit deployed, along with associated power costs and repair of traditional streetlights as Smart Streetlight technology is deployed. For example, if a traditional streetlight is inoperable, it could be replaced for approximately \$125 when Smart Streetlight technology is installed.
- How funding is obtained.
  - Funding would be provided by grants and general funds.
- The audio recording capabilities of the equipment.
  - The system includes acoustic sensors, but they will not be activated, per the proposed agreement being considered.
- The removal of the previous generation of cameras and/or the setup of the new systems.
  - The removal of the previous systems and installation of the new systems would largely be independent of one another. Some areas for Smart Streetlights would overlap, but the old system would not be utilized, due to an approximate 75% failure rate of the equipment as a direct result of failure to update and maintain the software and hardware. The technology is past its recommended service life.



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- The use of AI in the technology.
  - While the system uses character recognition software, there would be no facial recognition system software and no artificial intelligence for predictive policing. The system employs machine learning artificial intelligence in the ALPR application to identify vehicles beyond the plate (e.g., distinctive markings or features of the vehicle).
- The associated concerns of First Amendment speech and civil disobedience.
  - First Amendment protections are of the utmost importance to the San Diego Police Department. The Department's desire to protect free speech, assembly and lawful protests are enshrined in the multiple Department Procedures governing the right of people to assemble peaceably. This technology will not violate those Department Procedures or state and federal laws.
- The camera locations and the process to decide placement.
  - The locations selected were tied to several factors – analysis of violent crime locations (particularly areas with a strong nexus to gun violence) conducted by our Crime Analysis Unit, input from our centralized investigative units (e.g., Homicide, Robbery & Sex Crimes), and the final input from the commanding officers of every patrol division in the City.
  - The placement is a proposal only and is subject to change based on feedback.
- The example of the 400 cases where the technology was used versus the 500,000 total cases for SDPD.
  - It was pointed out that 400 cases had previous use of Smart Streetlight technology that allowed the collection of videos from public spaces. Of that, 100 crimes would not have been solved without Smart Streetlight technology, 100 cases were significantly aided by the technology, and the other 200 cases may or may not have had an impact. However, the seriousness of the criminal activity is a deciding factor on the access of the system and dictated that it only be used 400 times during the reviewed time period and is independent of the approximate 500,000 crimes reported/investigated in that same time period. Additionally, in measuring success rates associated with Smart Streetlights, the Department views the 200 cases that were critical or enhanced by the technology should be measured against the number of times it was used and this results in approximately a 50% success rate.
- The concern for the use of facial recognition technology within the proposed system.
  - The proposal clearly stated facial recognition was not a part of the proposal. In the unlikely event facial recognition technology was pursued later, it would trigger a reporting out, community meetings, and other processes mandated by the Surveillance Ordinance.



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- The sharing of the data and which entities would have access.
  - The data would be owned by the SDPD and would only be shared for law enforcement purposes. The data would not be shared with Federal Immigration authorities.
- Whether ALPR would be deployed on vehicles.
  - Mobile ALPR technology on vehicles will not be deployed at this time and would require review by the Privacy Advisory Board and a separate proposal.
- Concerns over who has access to the information and what training is required.
  - Data would be limited to trained personnel in selected units and access would be governed by SDPD procedures as well as state and federal law. The need to know right to know standard would apply to every usage of this technology, (i.e., investigative need, qualifying crime, and authorized user).
- How the Zencity information was collected and who provided the answers.
  - The Zencity survey was conducted anonymously over social media applications. Respondents' nexus to San Diego was confirmed via the survey process and questions asked.
- It feels like the meetings and the process, in general, has been rushed through without community engagement.
  - The Department complied with, or exceeded, the requirements of the Surveillance Ordinance as written.

One question from an attendee was “Why is there a portion of the ALPR PowerPoint that referenced a vehicle being a “Resident.” That example pertained to a resident of a homeowner’s association (“HOA”) and not any manner of immigration status.

Online comments and questions were also collected during this process. A portal to submit questions or comments was provided online, from March 1, 2023, through March 14, 2023, via the San Diego Police Department’s website at:

- <https://www.sandiego.gov/police/data-transparency/public-comment-draft-procedures>.

In conjunction with the online recording of the presentation, the online comments and questions portal provided 24-hour accessibility to provide feedback for those unable to attend the community meetings in person. The drawback of the website access is that none of the sources are completely verifiable as to whether they are community members of San Diego. SDPD has no ability to know if the contributor is a locally based stakeholder or if the contributor was spoofed or a “bot” that could have been providing feedback as well.



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Some respondents were listed under pseudonyms such as “John Q. Public” which likely is not a given name. After reviewing the 394 comments / questions provided to the public comments section of the SDPD website as of March 10, 2023, the following summarized results are as follows: 324 comments or questions were negative in their response, and some vehemently so. The negative comments ranged from money for the program being better spent on other things such as more police or community services which respondents felt would have a greater impact on crime. Other negative comments addressed privacy concerns, totalitarian surveillance state concerns, spending money on this technology while crime is falling, distrust of the police, other cities in the county being reckless with usage and sharing of the technology and the like. Some comments were multiples of the same response from the same user, and many appeared to be coming from a similar “script.” 40 comments or questions were positive, generally showing support for the technology, 37 comments or questions specifically requested further time to review the proposed technology for public comment and Privacy Advisory Board input, and the rest were neutral in nature or did not meet the level of a question or comment related to the topic.

A great many of the questions asked by community members were answered by the presentation itself. Questions about data retention periods, digital security, policies, procedures, types of crimes and transparency were frequently asked and answered by Captain Jordon through the use of the PowerPoint presentation.

## **Crime and Technology Survey:**

The San Diego Police Department’s survey provider Zencity conducted a real-time public sentiment survey as it relates to Smart Streetlights with embedded License Plate Recognition technology. The survey was an on-demand, statistically representative survey of community members, with 12 custom questions developed by the San Diego Police Department. The survey methodology ensured the respondents were San Diegans. The respondents provided insight into the feelings of actual/verifiable San Diegans regarding the employment of smart streetlights with automated license plate reader technology as a public safety tool.

## **Survey Methodology:**

1. 914-person sample survey of San Diego adults 18+.
2. Respondents recruited online.
3. Fielded January 31 – February 19, 2023.
4. Survey was conducted in English and Spanish.
5. Data was weighted to represent the population in San Diego.

There were 914 respondents recruited online between January 31 and February 19, 2023, using targeted ads on various platforms (e.g., social media, apps for Android and IOS) as well as online survey panels. Using data from the Census Bureau, this survey employed quotas to match the distribution of race, age, and gender in San Diego, ensuring that the sample represents the entire city.





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## Summary by the Numbers:

The following is a statistical breakdown of the Smart Streetlight with embedded License Plate Recognition technology survey. The information is broken down into the two survey categories. The percentages are based on the 914 surveys taken by the citizens of San Diego.

### License Plate Readers

- 45% are completely or mostly familiar with license plate readers.
- 42% reported they would feel more safe if license plate readers were introduced compared to 13% reported that they would feel less safe.
- 64% felt very comfortable with the use of license plate readers to investigate missing persons or children compared to 5% who were not at all comfortable.
- 42% believed they would be very effective in investigating missing persons or children compared to 5% who believed they were not at all effective.
- 52% felt very comfortable with the use of license plate readers to investigate violent crimes compared to 5% who were not at all comfortable.
- 35% believed that they would be very effective in investigating violent crimes compared to 6% who believed they were not at all effective.
- Privacy and accuracy/ effectiveness were the top concerns about license plate readers.

### Cameras in Public Spaces

- 77% are completely or mostly familiar with cameras in public spaces.
- 47% reported they would feel more safe if cameras in public spaces were introduced compared to 10% reported that they would feel less safe.
- 65% felt very comfortable with the use of cameras in public spaces to investigate missing persons or children compared to 3% who were not at all comfortable.
- 48% believed they would be very effective in investigating missing persons or children compared to 6% who believed they were not at all effective.
- 56% felt very comfortable with the use of cameras in public spaces to investigate violent crimes compared to 4% who were not at all comfortable.
- 45% believed that they would be very effective in investigating violent crimes compared to 4% who believed they were not at all effective.
- Privacy and accuracy/ effectiveness were the top concerns about license plate readers.

Please see the Smart Streetlights with embedded License Plate Recognition technology survey at the link provided below.

- <https://www.sandiego.gov/sites/default/files/zencity-technology-survey-2023.pdf>