



Violence **Reduction** Network

Strategic Solutions • Focused Action • Reduced Violence

Utilizing License Plate Readers for Violence Reduction

JUNE 15, 2016

Welcome



Kristie Brackens
VRN Co-Director
Bureau of Justice Assistance

Mike Sena



Mr. Mike Sena,
Director, Northern California Regional Intelligence Center (NCIRC)/
Northern California High Intensity Drug Trafficking Area (HIDTA)

Speakers



Mike Sena
**Northern CA HIDTA/
NCRIC**



Pam Scanlon
ARJIS



Heather Whitton
**Cincinnati Police
Department**



Mark Greene, NIJ

Overview



- This Webinar will give an overview of the best practices in developing and executing a License Plate Reader (LPR) Program
- Developing policies and addressing privacy concerns
- Implementation of an LPR Program/Plan
- Strategies and metrics for sharing the positive perceived and real benefits of LPR
- Procurement and standards

What Is License Plate Reader (LPR) Technology?



- LPR assists law enforcement by automating previously manual processes to improve efficiency and effectiveness
- LPR helps to identify vehicles, **not people**

How Does LPR Technology Work?



- **Captures** images of the license plates
- **Transforms** images into alphanumeric characters
- **Compares** the characters to “hot lists” of vehicles of interest to law enforcement
- **Alerts** when a vehicle of interest has been read and there is a match against the hot lists

LPR—

Two Primary Use Cases, the Dual Benefit of LPR



- Proactive patrols/monitoring
 - Instant gratification—arrests, recoveries
 - Identify vehicles of interest in the field
- Reactive investigations
 - Canvass of crime scene
 - Where vehicles frequent may lead to “where they lay their head”
 - Complete partial/incomplete suspect vehicle descriptions
 - Patterns and long-term analytics
 - Access to reactive data, remotely, cross-jurisdictional

Efficient reactive investigations can lead to more effective, proactive monitoring

Planning for the Use of LPR



- Technology deployed without a plan will only undermine success
- To be successful with LPR technology, we must have the trust of the public and lawmakers
- In order to develop that trust, we must be forward-leaning with our education; efforts to protect privacy, civil rights, and civil liberties; and the appropriate deployment of the tools and our personnel

Establish the Business Case

- Technology deployed without a plan will only undermine success
- By first understanding and stating “why” and “how” technology is used, the policy and retention can be defined to meet use objectives



"Know what you are doing and why you are doing it"

—Vernon Keenan, Director, Georgia Bureau of Investigation

Privacy Concerns Regarding LPR



- Without policies that safeguard privacy, civil rights, and civil liberties, we can lose a valuable law enforcement resource
- Privacy Impact Assessments and LPR policies should be developed as soon as possible before deploying the technology

Privacy Concerns Regarding LPR



- Who has access to data?
 - Only law enforcement personnel that agree to use and are trained in the policies that protect privacy, civil rights, and civil liberties
 - No data is given or access provided to private sector
- What is it being used for and why?
 - Approved law enforcement purposes only (e.g., locate stolen vehicles, AMBER Alerts)
 - All use logged and audited
- How long is it retained?

The Big Policy Questions



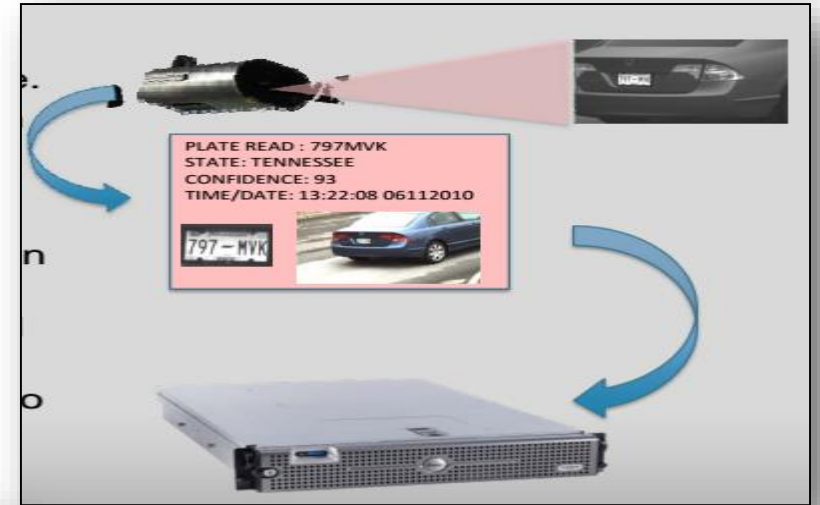
- For what purposes should LPR be used?
 - Toll and traffic enforcement
 - Mobile use and situational awareness
 - Ongoing investigations
- How should LPR data be shared?
- How long should LPR data be retained?
- Is LPR data public record information?
- How can LPR policies be enforced to prevent misuse of data by LE and support personnel?

Pam Scanlon



Ms. Pam Scanlon, Executive Director, Automated Regional Justice Information System (ARJIS)

Implementing LPR Technology—Fixed LPR



Implementing LPR Technology—Mobile LPR



VeriPlate Client | Profile | User: All | Guide

veriplate®

Live Video | Still Image | Photo Image | Capture Data | Search Data | System Menu

POWERED BY technologies

Hotlist Sync

Hotlist	Hotlist Modified Date	Last Sync Time
FCIC	10/29/2008 9:00:27 AM	10/29/2008 3:00:37 PM
NCIC	10/29/2008 3:16:44 AM	10/29/2008 2:43:43 PM
Default	10/24/2008 12:34:02 ...	10/29/2008 3:01:43 PM
Sexual Precursors	10/28/2008 4:55:32 PM	10/29/2008 3:04:07 PM

Plate Detail Record: 204 of 204

Date: 10/29/2008 3:29:47 PM

Hotlists Checked: NCIC, FCIC, Default, InCar

CMIS

X06 X06 X06 X06

Captured Plates: 6

Plate	Location	Time
X06	Front Left	10/29/2008 3:29:47 PM
LC	Front Left	10/29/2008 3:29:51 PM
FK	Front Left	10/29/2008 3:30:01 PM
FC	Front Right	10/29/2008 3:30:05 PM
UN	Front Left	10/29/2008 3:30:05 PM
B	Front Left	10/29/2008 3:30:08 PM

Alerts: 1

Plate	Location	Time
X06	Front Left	10/29/2008 3:29:47 PM

F1 LIVE CHECK F2 SWITCH CAMERAS F3 EDIT PLATE F4 MANUAL ENTRY F5 ADD TO HOTLIST F6 MAP/ME F7 MAP/IT F8 END SEPT F9 EXIT

Implementing LPR Technology—Challenges

- Deploying mobile and fixed assets
 - Concerns/challenges
 - Vehicle considerations, radio runs
 - Fixed LPRs—who is watching?
- Alert lists
 - Type of alerts
 - Source of alert data
 - Alert concerns



Metrics Critical for Success—Daily Reports



LPR Daily Counts Report

ORIID	CameraID	Last24HrsLoad	Counts	From Date	To Date	Last Update
CA0130000	34	935	137990	10/15/15	05/30/16	2016-05-30T04:08:35.883
CA0130000	37	1782	789044	10/25/15	05/30/16	2016-05-30T04:13:16.413
CA0130000	38	1222	521811	10/25/15	05/30/16	2016-05-30T04:14:18.543
CA0130000	41	261	85367	10/23/15	05/30/16	2016-05-30T03:56:26.363
CA0130000	80	0	130592	10/21/15	11/30/15	2015-12-20T08:27:43.263
CA0370000	193	680	207390	10/07/15	05/30/16	2016-05-30T03:58:39.883
CA0370000	210	95	134883	10/22/15	05/30/16	2016-05-30T03:05:01.037
CA0370000	65	1394	2110703	10/25/15	05/29/16	2016-05-29T21:46:42.690

Monthly Individual Agency Reports



- LPR monitored for performance, reliability, and functionality
- Staff provide system-generated management reports
 - Agency use
 - Number of license plate reads on file
 - Technical issues identified during the reporting period

Agency	Camera Name	LPR Reads This Month	# of Days Reads Sent	Number of Alerts
Sample	One	31080	27	13
Sample	Two	12841	17	10
Sample	Three	21025	17	12

Alert List Name	Number of Alerts
STOLEN VEHICLES	15
LOST OR STOLEN PLATES	20
Total	35

Duration: 2014/12/02 - 2015/01/01

ARJIS Regional LPR System

- Connects 13 separate efforts—accessible by all 82 ARJIS members—20+ million records
- Strong governance and oversight—policies and privacy assessments
- Accessed via SRFERS (State, Regional, Federal Enterprise Retrieval System) and mapping dashboard
- Sends alert to investigator when target vehicle plate is captured—Officer Notification System (ONS)
- Checks LPR from border
 - National Insurance Crime Bureau (NICB) and Nlets—The International Justice and Public Safety Network



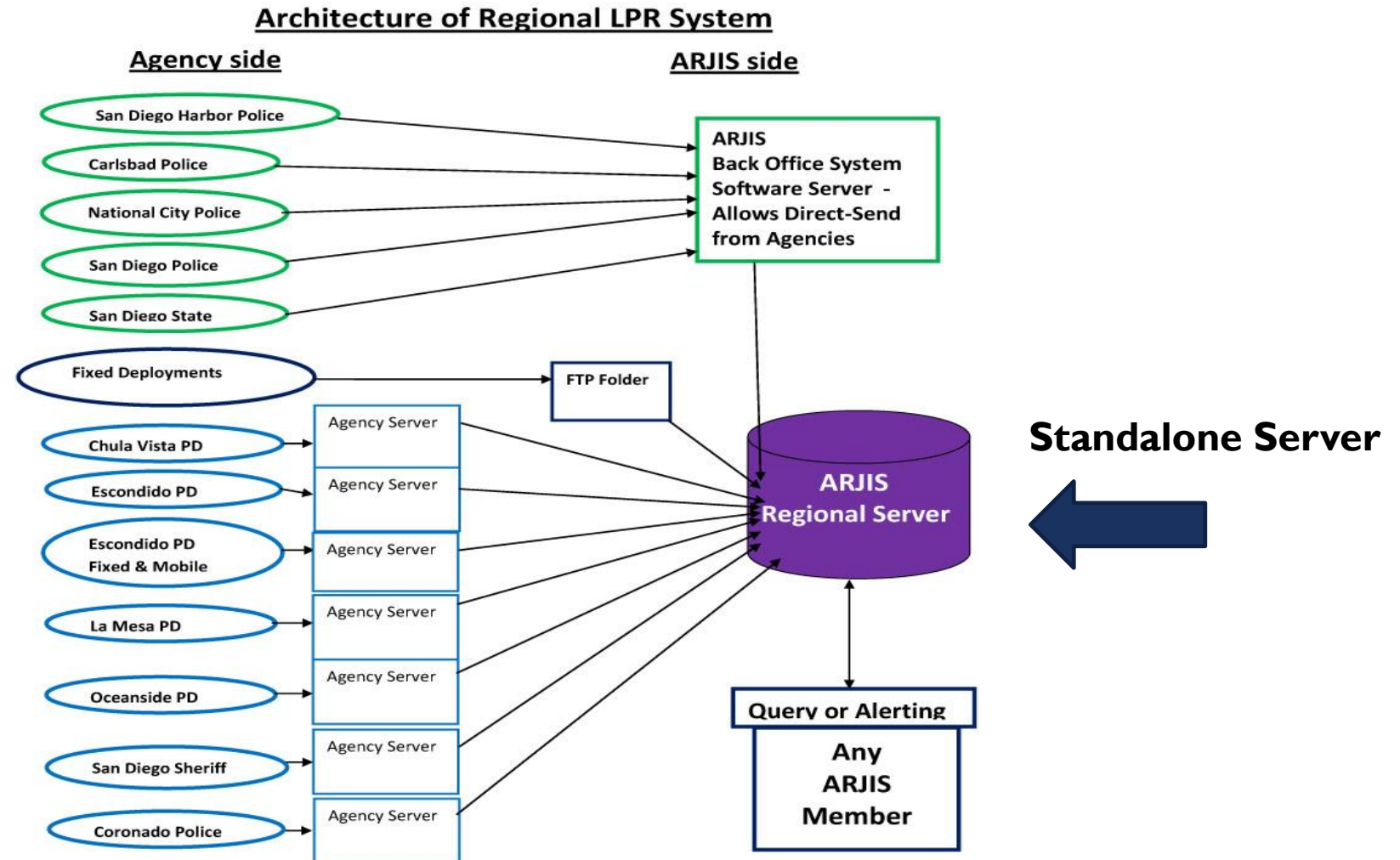
Developing Unified Interfaces for LPR



- One system to query all law enforcement LPR data
- Available to all law enforcement with a need and right to know
- Search for full or partial plates
- Search by geographic region
- Create e-mail or SMS alerts for future hits

Architecture of Regional LPR System

Standard Interfaces



ARJIS Query Tool for LPR Reads



Vehicle Result					
License	Date	Agency	Type ↕	LPR Image	Action
6MAV016		NLETS-NVLS	LPR		View
6MAV016		NLETS-NICB	LPR		View
6MAV016	6/4/11 7:56 PM	CVPD	LPR		View Map
6MAV016		CLETS	REGISTRATION		View
6MAV016	2/22/11 10:55 AM	ARJIS	LPR		View Map
6MAV016		NLETS-NICB	LPR		View

LPR Capture Information

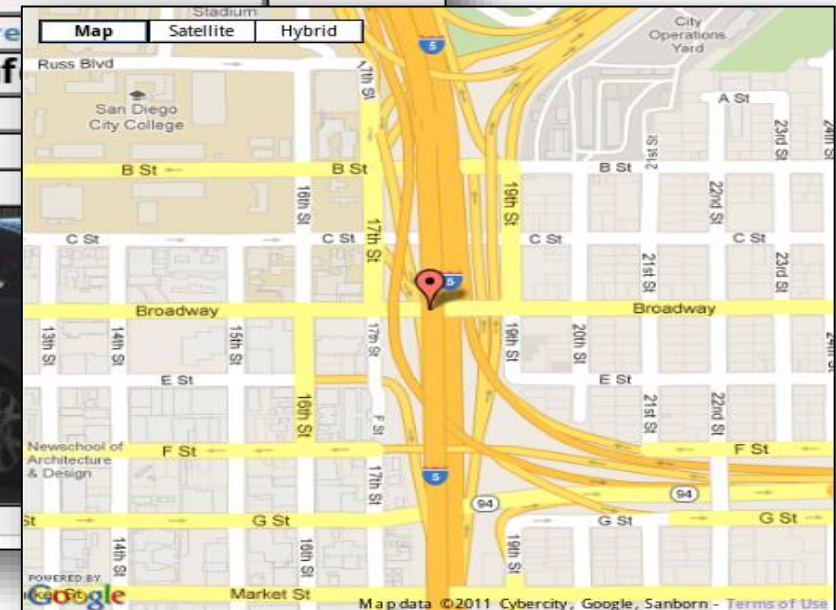
Plate Number: [redacted]
Date and Time: Feb 22, 2011
Agency: ARJIS

Location Information

Latitude /Longitude: 32.715755/-117.14785
Beat: [redacted]
Nearest Address: [redacted]

Camera Information

LPR Type: [redacted]
LPR ID: AFR55476
LPR Description: [redacted]



Monthly Regional Metrics



LPR Status Jan - March 2016											
Alerts											
Agency	Camera	Reads	Lost Or Stolen plate	Stolen Vehicle	Felony Wants	Custom	Manual Reports	Manual Intel	Covert Plates	BP Hotlist	Total
#1	3	189,100	40	27			9				76
#2	2	25,889	4	7							11
#2	1	127,476	36	37			1				74
#4	24	752,299	177	171	7		3				358
#5	2	109,455	26	14							40
#6	3	273,226	25	14							39
#7	3	109,034	19	9							28
#8	8	11,315,314		143							143
#9	4	664,450									
#10	1	4,593									
#11	4	871,046	71	46	2						119
#12	20	1,712,038	163	146	1	12	20	1	6	2	351
Total	75	16,153,920	561	614	10	12	33	1	6	2	1239

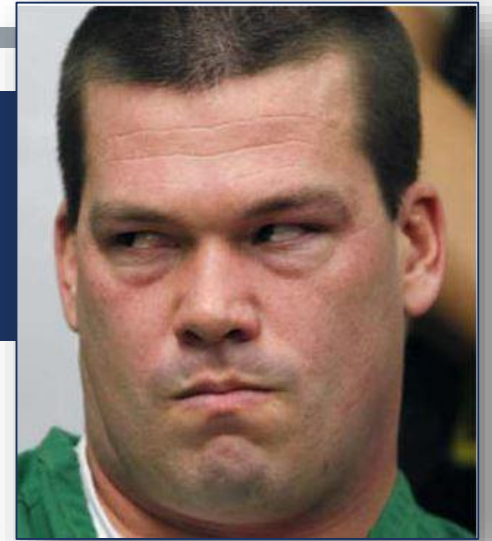
Increase in Percentage of Recovery to Stolen



Year	Stolen	Recovered	Percent Recovered
2009	15,260	8,632	57%
2010	14,054	9,375	67%
2011	12,438	8,784	71%
2012	13,257	10,814	82%
2013	12,277	10,531	86%
2014	10,146	8,329	82%



Success Story—High-Profile Homicide



- **Amber Dubois Homicide:** John Gardner was arrested for the murder of 17-year-old Chelsea King in February 2010 as she was jogging through a park. Follow-up investigation used LPR to show he used the same car to kidnap, rape, and murder 14-year-old Amber Dubois more than one year before. The LPR data proved invaluable in linking Gardner to the Dubois case. He was convicted of the double rape and murder

More Successes



- **District Attorney Fraud Case:** A fraud detective working complex cases involving automobiles reported that the use of LPR information obtained through SRFERS has been instrumental in closing several large fraud cases. He noted that relevant data was often 9 to 12 months old
- **Carlsbad Homicide:** Investigators used LPR data to place the victim's vehicle on the roadway after the time of her death. This helped detectives confirm that the suspect had used the victim's own vehicle to transport her body away from her home



Starbucks Coffee

Heather Whitton



Ms. Heather Whitton,
License Plate Recognition Program Manager,
Cincinnati Police Department

Getting the Business Case



Operational Value and Investigative Value

Use metrics to lead you to your best sources

Poll Top Users Regularly

How Often, For What, Feedback

What gets recognized, gets repeated

There is always..... *Chipotle.*

Getting the Business Case— Typical Operational Value



- Decrease in reportable crimes, including burglary, through the use of LPR as a tool to develop investigative leads and criminal intelligence
- Increase in vehicle recovery, especially “rolling recovery”—leading to arrests or additional crime reduction

Getting the Business Case— Investigative Value

Detection Browsing	User	060616	06-06-16 18:54:55	pivot
Detection Browsing	User	060616	06-06-16 18:52:00	pivot
Detection Browsing	User	060616	06-06-16 18:51:45	pivot
Detection Browsing	User	060616	06-06-16 18:51:17	pivot
License Plate Query Mobile	User	i1601	06-06-16 17:35:22	drug investigation
Stakeout Browsing	User	060616	06-06-16 16:47:53	AGG ROBBER/SHOOTING INV
Detection Browsing	User	169013022	06-06-16 16:25:21	Burglary investigation
Detection Browsing	User	169013022	06-06-16 16:15:53	Burglary investigation
Detection Browsing	User	169013022	06-06-16 16:13:41	Burglary investigation.
Hot Plate Upload Mobile	User	hotel	06-06-16 15:40:40	interdiction
License Plate Query Mobile	User	hotel	06-06-16 15:11:09	interdiction
Detection Browsing	User	i1601	06-06-16 14:09:08	Narcotics invest
Detection Browsing	User	i1601	06-06-16 14:08:35	Narcotics invest
Detection Browsing	User	N16-09	06-06-16 13:49:20	Interstate heroin trafficking
Detection Browsing	User	16007738	06-06-16 13:44:16	stolen plate
License Plate Query Mobile	User	i1601	06-06-16 13:36:23	interdiction
Detection Browsing	User	2016-OPD-1041	06-06-16 13:33:47	Stolen license plate
License Plate Query Mobile	User	i1601	06-06-16 13:33:16	interdiction
License Plate Query Mobile	User	i16-01	06-06-16 13:31:34	narcotics investigation
Detection Browsing	User	hotf-62	06-06-16 13:22:43	investigation of target selling heroin
Hot-List Browsing	Agency Manager	auditing	06-06-16 12:45:07	auditing
Detection Browsing	User	16-7915	06-06-16 12:32:49	theft of vehicle and trailer
Detection Browsing	User	16-7915	06-06-16 12:31:49	theft of vehicle and trailer
Detection Browsing	User	16-7915	06-06-16 12:30:03	theft of vehicle and trailer
Detection Browsing	User	16-7915	06-06-16 12:29:48	theft of vehicle and trailer
Detection Browsing	User	16-7915	06-06-16 12:29:24	theft of vehicle and trailer
Detection Browsing	User	165008396	06-06-16 10:17:15	id
Detection Browsing	User	16H31	06-03-16 21:57:05	Suspect Car to loc suspect
Detection Browsing	User	16H31	06-03-16 21:56:17	Suspect Car to loc suspect
License Plate Query Mobile	User	rape2016	06-03-16 20:54:36	rape2016 case wcpd
Detection Browsing	User	16006857	06-03-16 18:30:34	stolen vehicle
Detection Browsing	User	2016-OPD-0870	06-03-16 17:52:03	Burglary investigation
Detection Browsing	User	2016-OPD-0870	06-03-16 17:44:38	Burglary investigation
Detection Browsing	User	2016-OPD-0870	06-03-16 17:44:16	Burglary investigation
Detection Browsing	User	2016-OPD-0870	06-03-16 17:22:06	Burglary investigation
Detection Browsing	User	drug inv	06-03-16 15:45:49	drug inv
Hit-List Browsing	User	audting	06-03-16 15:25:27	auditing
Detection Browsing	User	2016-OPD-1041	06-03-16 15:21:58	Stolen license plate
Detection Browsing	User	Rape Case	06-03-16 14:59:34	Westchester Rape case
Detection Browsing	User	060316	06-03-16 14:31:32	wanted felon
Hit-List Browsing	User	audting	06-03-16 14:04:07	auditing
Hit-List Browsing	User	audting	06-03-16 14:01:51	auditing
Detection Browsing	User	16-1914	06-03-16 13:37:27	Sexual assault
Detection Browsing	User	16-1914	06-03-16 11:00:20	sex assault
Detection Browsing	User	homicide	06-03-16 04:50:53	homicide
Detection Browsing	User	homicide	06-03-16 04:36:43	homicide
Detection Browsing	User	16-1914	06-03-16 01:14:48	sexual assault
Detection Browsing	User	16-1914	06-02-16 23:24:06	Sexual assault
Stakeout Browsing	User	Abduction	06-02-16 20:30:28	Abduction
Stakeout Browsing	User	Abduction	06-02-16 20:23:43	Abduction
Stakeout Browsing	User	Abduction	06-02-16 20:18:28	Abduction
Stakeout Browsing	User	Abduction	06-02-16 20:09:53	Abduction
Detection Browsing	User	N16-13	06-02-16 19:19:17	Drug Investigation
Detection Browsing	User	N16-13	06-02-16 19:18:43	Drug Investigation
Stakeout Browsing	User	Rape Case	06-02-16 18:29:00	Rape Case
Stakeout Browsing	User	Rape Case	06-02-16 18:28:44	Rape Case
Stakeout Browsing	User	Rape Case	06-02-16 18:26:12	Rape Case
Detection Browsing	User	N16-13	06-02-16 17:58:37	Drug Investigation
Detection Browsing	User	165008458	06-02-16 17:09:06	hit skip inv.
Detection Browsing	User	165008458	06-02-16 17:04:35	hit skip inv.
Detection Browsing	User	16-123123	06-02-16 16:39:29	Stolen merchandise
Detection Browsing	User	160000	06-02-16 16:27:12	locate truck
Detection Browsing	User	160000	06-02-16 16:26:57	locate truck
Detection Browsing	User	160000	06-02-16 16:09:09	locate truck

The True Value of LPR: Locations to Convictions



From: Blackwell, Carl

Sent: Friday, September 19, 2014 12:54 PM

To: #CIN.POLICE.All

Subject: INVESTIGATION

ON 9/17/14 @ 0115 A SHOOTING OCCURRED AT **7142 READING RD**, BEHIND GOOD YEAR TIRE CENTER. THE SHOOTER'S FIRST NAME IS ROBERT, UNKNOWN LAST NAME. HE IS A PUERTO RICAN AND BLACK WITH A LIGHT COMPLEXION, LONG CURLY HAIR DOWN HIS NECK. HE IS BETWEEN 40-50 YEARS OLD. **HE FREQUENTS THE PARK AT 13TH AND SYCAMORE**. HE HAS A KNOWN ASSOCIATE NAMED MARCHELLO CLARK OR KELOW. HE WAS LAST SCENE OPERATING **A BLACK NISSAN ALTIMA**. ACCORDING TO WITNESSES, THE SHOOTER HAS AN APARTMENT IN DISTRICT **1 ON YORK ST BETWEEN FREEMAN AND COLERAIN** AVE. IF LOCATED PLEASE STOP, FIR AND CONTACT DET. BLACKWELL. CONSIDER THE PERSON ARMED AND DANGEROUS.

The True Value of LPR: Identification, Photo Evidence, Location



Serial Rapist

Suspect was identified and extensive investigation took place over a few months

LPR lead map led investigators to vehicle to place GPS tracker

Photos show suspect attempted to disguise vehicle

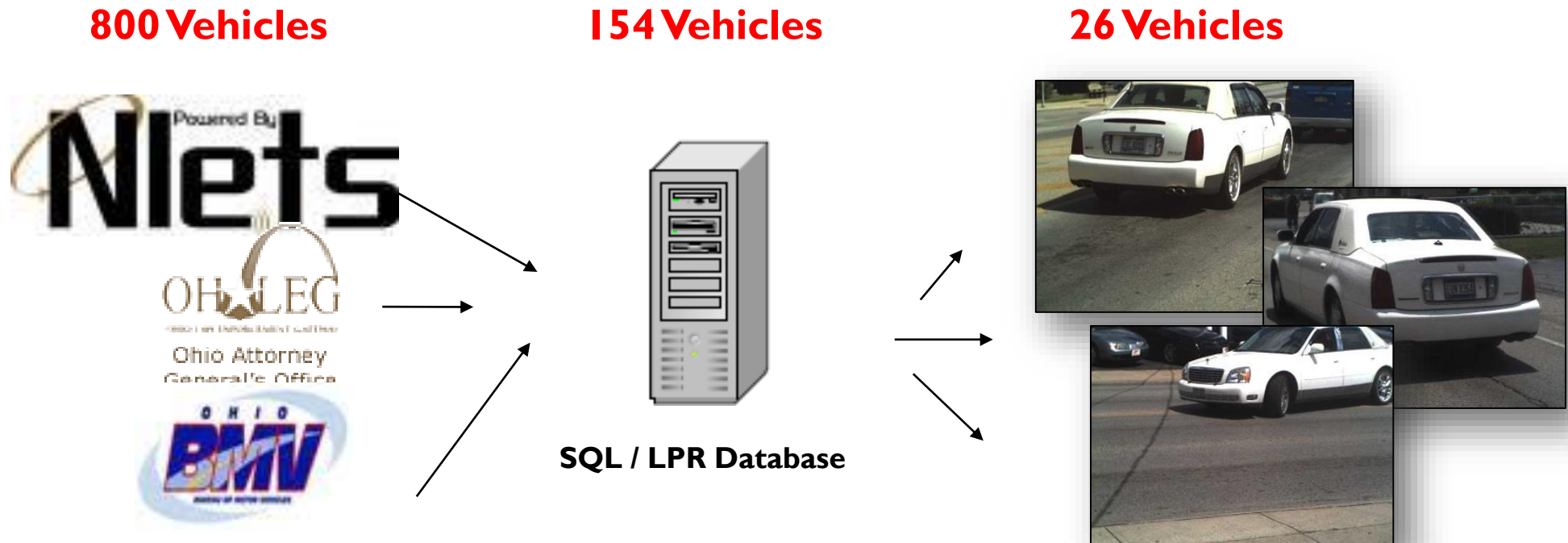
Arrested January 2013



The True Value of LPR: Preserve Privacy

The use of LPR information can lessen the exposure of individuals' personal data

Reduced PII Access by 96.75%



THE TRUE VALUE OF LPR: CURRENT AND HISTORICAL DATA

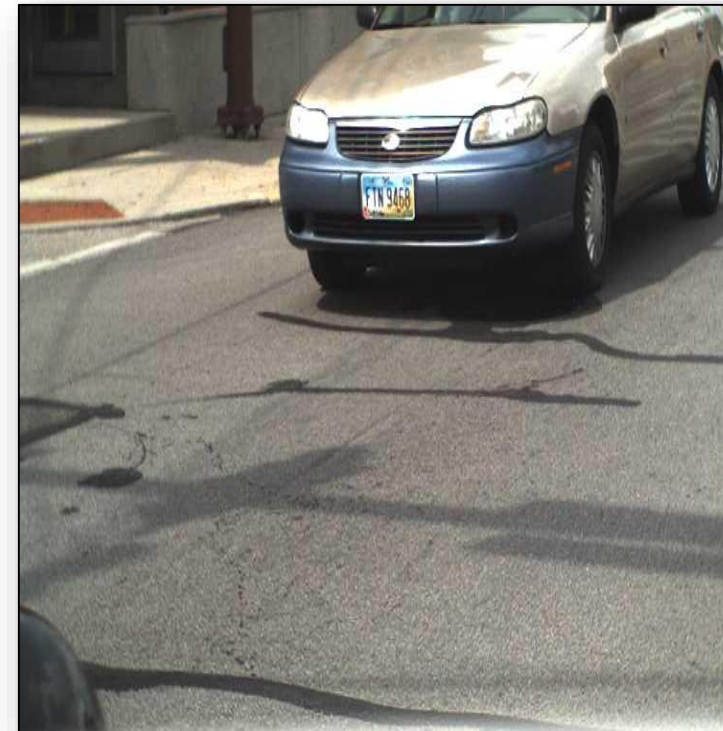


The True Value of LPR: Current and Historical Data

6/27/2013 7:33:46 PM



6 Months Earlier



The True Value of LPR: Success POWER OF THE PHOTO



**WEST CHESTER POLICE DEPARTMENT
CRIMINAL INTELLIGENCE REPORT**

6/2/16
IB-16-011



BOLO: Sexual Assault Suspect

****WANTED****

Summary: CAMRON VICTOR WOHL has warrants entered on him for Agg. Robbery/Burglary, Kidnapping, and Rape with a nationwide pickup radius reference the below captioned sexual assault. During the early morning hours of 6/3/16, WOHL also assaulted his father, George Wohl, at his father's residence in Carroll, Kentucky and stole his Chevrolet pickup.



CAMRON VICTOR WOHL
M/W/602/200-225/BRO/BLU



2004 silver Chevrolet 2500 Duramax P/U
KY 595MFS



Original
Suspect Sketch

WCPO - 9 On Your Side
March 4 · 🌐
Protect yourself! An elderly woman carjacked at gunpoint and Ft. Mitchell police say the suspect is still on the loose.
<http://www.wcpo.com/.../senior-citizen-carjacked-at-northern-...>



POSTED: 12:35 AM, Mar 4, 2016

“ Notice the missing hubcap and the dent in the back”



THE TRUE VALUE OF LPR: SUCCESS POWER OF THE PHOTO

Man shot, 2 women beaten in Union Township home invasion

BY: Tom McKee
POSTED: 10:58 AM, Apr 25, 2014
UPDATED: 7:43 PM, Apr 25, 2014

GCX6546

4/25/2014 10:26:59 AM



GCX6546

4/25/2014 3:18:31 PM



A Union Township homeowner found a teenage girl covered in blood at her front door after a home invasion shooting on Tealtown Road.



THE TRUE VALUE OF LPR: SUCCESS VIDEO CAMERAS + LPR



Beekman Moosewood POD116 - Camera 1_2015-01-18_14h11min40s000ms

LPR	Timestamp	Plate	Overview	Device	Site
GJB9628	1/18/2015 2:12 PM	GJB 9628		Beekman_South	CINCINNATI PD-ED
GJB8892	1/18/2015 2:12 PM	GJB 8892		Beekman_South	CINCINNATI PD-ED
JSN 906	1/18/2015 2:12 PM	JSN 906		Beekman_South	CINCINNATI PD-ED

2014 Ford Focus St Hatchback

Share the Benefits – In the Media



WCPO - 9 On Your Side
November 20, 2015

BREAKING OVERNIGHT: Cincinnati Police were taken on a WILD chase after a stolen car ended up in someone's yard. Canines were used to track down the suspects.

But HOW did police know the car was even stolen? You might be surprised that in many parts of the city, there are license plate readers. We're talking about these cameras, how they work and where they're located on Good Morning Tri-State.



Los Angeles Times | NATION

How technology helped crack the Kansas City highway shooter case



Technology helped find Virginia killer

BY HANNAH G. JONES | THURSDAY, AUGUST 27TH 2015



License plate recognition scanners on Tri-State police cruisers help stop crimes before they happen

BY: [Brendan Keefe](#), [Maxim Alter](#)
POSTED: 8:55 PM, Nov 11, 2013
UPDATED: 4:14 PM, Nov 12, 2013

An automated LPR -- or license plate recognition -- camera attached to a Fort Thomas police cruiser had already detected and recorded the man's car prowling different schools over several days.

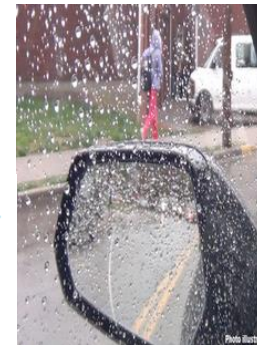
Because of this technology, police say they were able to arrest the man **before a more serious crime was committed.**

ADVERTISEMENT
Reporter Alison Parker and photographer Adam Ward were attacked during a live broadcast

Web Staff, WDBJT, news@wdbjt.com
POSTED: 07:27 AM EDT Aug 26, 2015 | UPDATED: 02:31 PM EDT Aug 26, 2015



struck by vehicle in Unkr



Like · Reply · 4 · 10 hrs



Megan Shockley Say what you want these cameras got my car back to me after it was stolen from a kid in Mt healthy... less than 24 hrs later my car was returned to me by cincinnati police I can not thank them enough, it is my only means of transportation and a kid literally stripped my life and my kids from us by stealing my car as well as personal belongings.

Thank you Cincinnati P.D.



CINCINNATI — A suspect believed to be involved in an armed robbery in College Hill is now behind bars.

RELATED

- Flying Pig runner hopes to raise skin...
- 'Stand With Baltimore' rally planned...
- Suspect named in OTR homicide
- 2 hurt in head-on crash in Clermont...

Police said shots were fired during an ATM robbery on Cedar Avenue Sunday.

Investigators came up with a description of the suspect's vehicle using a partial license plate number.

A real-time crime camera then located the vehicle police were looking for. Police pulled the car over near Beekman and Dreman streets.

Mark Greene



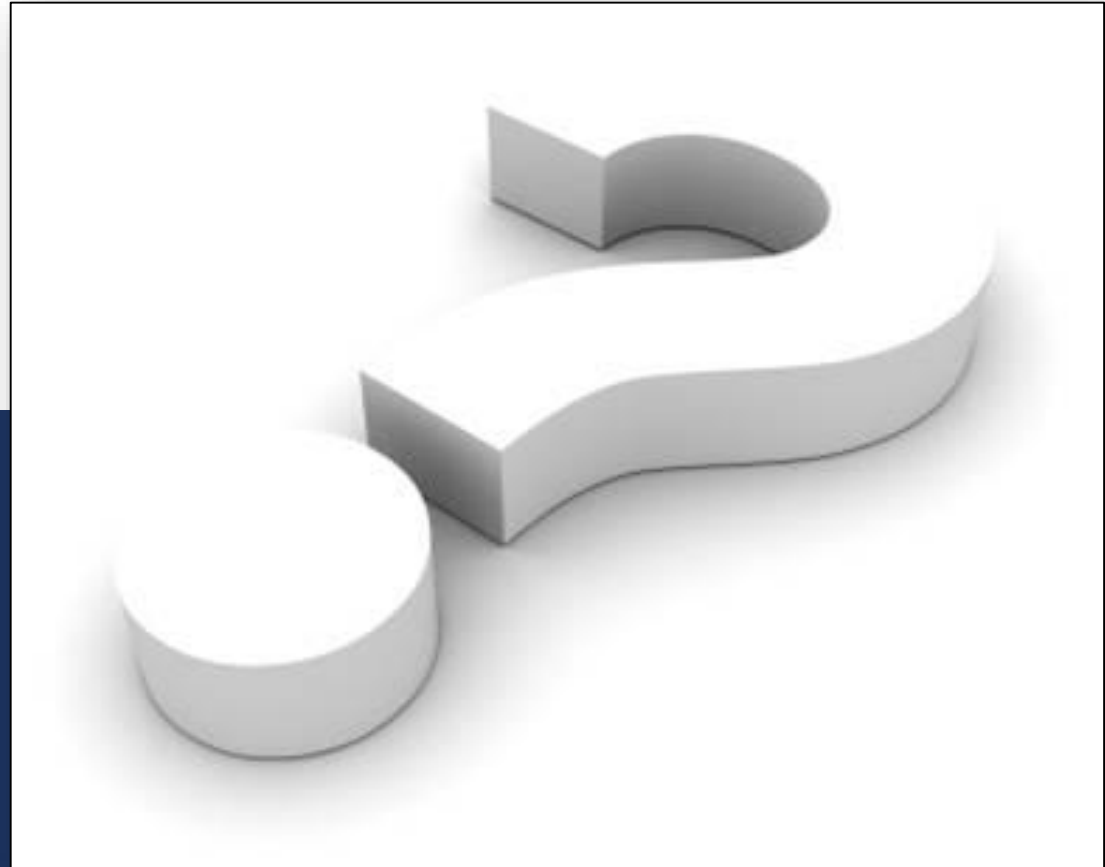
Mr. Mark Greene,
Director, Policy and Standards Division
Office of Science and Technology
National Institute of Justice (NIJ)

Keys to Acceptance of an LPR Program



- HAVE a policy
- USE the policy (abide by it and audit)
- HAVE and USE metrics
- Get the word out about the benefits of LPR use by law enforcement
- Engage before there is a problem

Questions



Go to www.IACP.org/ALPR



Question-and-Answer Session

MODERATED BY: MIKE SENA

Resources



- International Association of Chiefs of Police Automated License Plate Recognition (ALPR) <http://www.theiacp.org/alpr>
- The Northern California Regional Intelligence Center's Automated License Plate Reader Policy: <https://ncric.org/html/NCRIC%20ALPR%20POLICY.pdf>
- Automated Regional Justice Information System (ARJIS) Acceptable Use Policy for the Regional License Plate Reader System: <http://www.arjis.org/RegionalPolicies/ARJIS%20LPR%20AUP%20%20Approved%20-%20Rev%20150213.pdf>
- Maryland Coordination and Analysis Center's License Plate Reader – Standard Operating Procedure: <http://www.mcac.maryland.gov/resources/LPR/LPR-SOP.html>
- Los Angeles Sheriff's Department's ALPR Privacy Policy: <http://shq.lasdnews.net/content/uoa/EPC/ALPRPrivacyPolicy.pdf>
- George Mason University Center for Evidence-Based Crime Policy <http://cebcp.org/lpr/>



Strategic Solutions • Focused Action • Reduced Violence

Utilizing License Plate Readers for Violence Reduction

Closing Remarks: Kristie Brackens

LICENSE PLATE READERS: A PRIMER

AVAILABLE ON THE VRN WEBSITE
[HTTPS://WWW.VRNETWORK.ORG/](https://www.vrnetwork.org/)



The graphic features a close-up of a license plate reader camera lens in the foreground, with a blurred background of a police officer and a car. The VRN logo is in the top right corner. The title 'LICENSE PLATE READERS' and subtitle 'A PRIMER' are overlaid on the image. Below the image is a text block explaining LPR systems, followed by a section titled 'WHAT ARE LPR SYSTEMS USED FOR?' with a four-step process diagram.

VRN
Violence Reduction Network

LICENSE PLATE READERS

A PRIMER

The adoption and use of license plate reader (or license plate recognition) systems (LPR systems) by state, local, tribal, and federal law enforcement agencies continues to increase. The integration of LPR systems can support and enhance enforcement and investigative capabilities through the collection of relevant data and expedite the time needed to compare vehicle license plates with lists of stolen, wanted, and other vehicles of interest. Examples of LPR system value include improving law enforcement's ability to recover stolen vehicles, more quickly identifying a vehicle associated with an AMBER or SILVER alert, or identifying a vehicle registered or associated with a wanted individual.

WHAT ARE LPR SYSTEMS USED FOR?

- Capture Image**
Automatically capture an image of a vehicle's license plate
- Transform Image Into Characters**
Transform that image into alphanumeric characters using optical character recognition or similar software
- Run Number in Databases**
Compare the plate number acquired to one or more databases of vehicles of interest to law enforcement and other agencies
- Alert Law Enforcement**
Alert the officer when a vehicle of interest has been observed



THANK YOU