

Welcome to the 1st Annual Texas LPR User Group Meeting



AGENDA

- Housekeeping Items parking, lunch, sign-in sheet, emergency exits
- Introductions / Goals (Lieutenant Shilson / Sergeant Marthiljohni)
- Vigilant Overview QUICKLY (Brian Shockley)
- LPR Best Practices (data retention, privacy, policies) (Brian Shockley)
- Data Sharing (Hannah Karr)
- Lunch / Demo of New Interface and Tools (Mike Budz)
- Future Vision (Brian Shockley)
- Wrap-up / Q&A
- Additional Demo Time (if needed)





VIGILANT - COMPANY SNAPSHOT

- Fastest growing company within our market segment of US public safety technology solutions
- Over 2,500 agencies and 30,000 sworn as customer base
- Founded in January 2005; approaching 100 employees
- Rapid sales growth and product innovation
- Headquartered in Livermore, California (HQ)
- Majority ownership of Digital Recognition Network (DRN)

#1 North American Public Safety Market Provider of LPR Products & Services





VIGILANT SUCCESSES

- Literally hundreds of testimonials every year from customers
 - Homicide, rape, burglary, identity theft, organized crime, etc
- Much of this information can not be shared due to adjudication, ongoing investigations, or desire by agency not to advise other criminals of the tools they are using
 - All press releases and other marketing efforts require coordination and approval with the Agency Customer

Now for some real-life examples of how we protect officers, families and communities...



VIGILANT CASE FILE: DRUG CARTEL

- Vehicle stop in Maryland with \$500K in cocaine hidden in secret compartment
- Search of Vigilant LPR data shows vehicle in four different apartment complexes in Houston metro dating between 2011 and 2013; car is registered in state other than Texas
- Second vehicle identified with same registered address (different owner) also seen at same apartment complexes
- Analysis of Vigilant LPR data yields >20 additional vehicles frequenting same four apartment complexes; one of these vehicles stopped in Mississippi with 9,000 doses of cocaine also in a hidden compartment
- Investigation uncovers major narcotics cartel operating out of Texas and trafficking narcotics in multiple states

"The historical LPR data and investigative tools from Vigilant are solely responsible for us identifying the apartment complexes and over twenty (20) vehicles to date that are a part of this cell. I am confident that our investigation, enabled by Vigilant, will result in identify many more vehicles, allow us to seize more drugs, and ultimately bring about the downfall of this large drug trafficking operation." Interdiction Officer Thompson



VIGILANT CASE FILE: CHILD ABDUCTION

- Fifteen year-old girl abducted by illegal immigrant in NY
- Taken to another state (MD) and held as sex slave
- LPR data from Vigilant located the vehicle and allowed for rescue of victim and apprehension of suspect

Vigilant Solutions License Plate Recognition Data Aids in Locating a Child Abducted by an Illegal Immigrant

LIVERMORE, CALIFORNIA (Lanuary 22, 2013) - Vigilant Solutions amounces today that the license plate recognition (LPI) data was used in helping to locate and recover a missing child in an Antion Abert. The child was abducted by an illegal immigrant.

On August 14, 2012, a fifteen (15) year-old illegal immigrant from Gnatemala illegally revisiting in New York. Mazariegos visis actions friend of the visitin's family, frequently oriting the gar's loome, and communicating with the gill to propromisety one value protection. Following an argument with her norther, the girl called Mazariegos because the was uppet.

Mazariegos adducted the gill file following day, Iriling file that he years taking her to see her sunde in Boston. With the gill alternioled to call her northe, Mazariegos then drove her to Maryland widere file checked them into a hotel and forced her to have sex on multiple occasions over an eleven (11) day gestod.

Aidled by Komme plate recognition data from Vigilant Solutions, a task force consisting of Maryland stake



MOBILE LPR

- Color & infrared (IR) cameras w/ optical character recognition
- Up to four (4) cameras per vehicle
- Seamless Integration with LEARN intelligence suite
- Unmatched performance Winner of CHP "shootout"
- Real-time interdiction and localized data collection
- Intuitive user interface with exclusive features





VIGILANT EXCLUSIVE - MOBILE HIT HUNTER

- Optional service for Vigilant Mobile
 LPR
- Matches >40 million monthly reads of "private" data against law enforcement client hotlists
- Delivers hits to active mobile LPR systems within 3-mile radius of match
- · Greatly enhances officer efficiency

"Mobile Hit Hunter is incredible. It's like shooting fish in a barrel."





VIGILANT EXCLUSIVE - MOBILE COMPANION



- Optional service for Vigilant LEARN / NVLS Users
- Scan license plates from Android device or iPhone
- Share with agencies nationwide
- · Perform LPR queries
- Receive hotlist alerts

"Mobile companion has greatly expanded our use of LPR in the field. It is an extremely useful tool for officers that do not have an LPR-equipped vehicle and for use in special events where vehicles are tightly parked."



FIXED LPR

- For perimeter security of your City or Region – identify and intervene
- Unmanned LPR for high capacity operations
- Seamless Integration with LEARN for automated alerting, hotlist management, data sharing and remote updates
- Target Alert Service for remote alerting on virtually any device

"The use of Fixed cameras has really complemented our overall LPR program. We know when wanted vehicles are entering our community and can take action."





VIGILANT EXCLUSIVE - LPR DATA NETWORK (NVLS)

- · The nation's first and largest national LPR data sharing initiative
 - · Over 1.2 billion records total
 - ~50 million records added per month
 - Over 10 million per month in TX
 - · Over 225 million all time in TX



WHERE DOES THE DATA COME FROM?

Law Enforcement & Commercial Applications



VIGILANT

Vehicle Asset Recovery



Law Enforcement

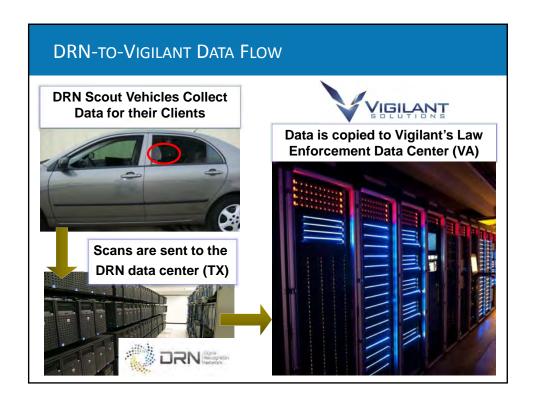


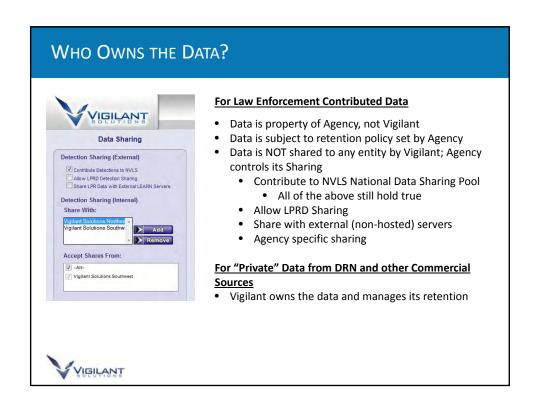
Mobile and Fixed LPR



- **Vigilant Customers**
 - **ALL Major Competitors**
 - Shared at no cost to
- Casinos
- Malls and Retail
- Parking & Access Control







WHO CAN ACCESS THE DATA?

<u>Simple answer</u>: Only law enforcement can access the data center, Vigilant online investigative tools, and the data itself.





How Do I Access the Data?

One of Two Ways:



NVLS Web Portal

- Simple License Plate Queries
 - Full plate lookup ONLY
 - Daily / Weekly Query Limits



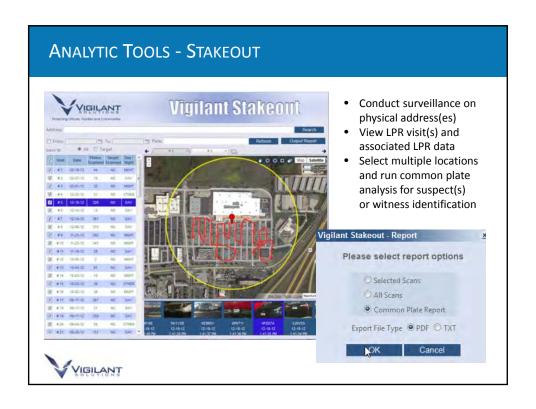
LEARN with Private Data Subscription

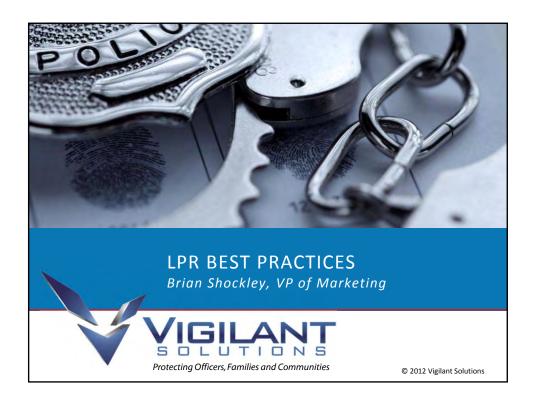
- Advanced License Plate Queries
 - Partial Plates
 - Geo-fences
- Analytics
 - Pattern Crimes / Common Plates
 - Possible Associates
- Mapping Alert Service
 - GIS Interface to private data "Hits"



- Sacramento County reference stats -







LPR BEST PRACTICES

Major Cities Chiefs Monday, January 28th, 2013

- Have a written policy*
- Know the issues*
- Classify your data as Exempt / Confidential / FOUO
- Consider Statute of Limitations when developing retention policy; keep it reasonable
- Involve your legal team

Other Best Practices:

- Share data*
- Have a training program
- Take advantage of all features and capabilities
- Keep LPR units active / grid your area
- Use wildcards / Victimology 101
- Get ahead of public and media / emphasize benefits



*More detail to follow



HAVE A WRITTEN POLICY

THE SINGLE most important thing you can do; one of the most often overlooked (MCC survey says only 46% of agencies have this in place)

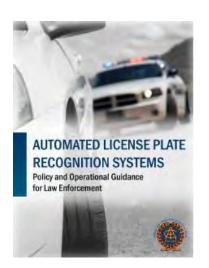
Elements:

- Training requirements
- Proper Use / Improper Use
- Patrol & Response Procedures
- · Oversight and Discipline
- · Retention Policy
- Classification of LPR Data (Exempt / Confidential / FOUO)

Samples available from Vigilant and/or IACP Policy and Operational Guidance document.

www.vigilantsolutions.com/texaslpr





KNOW THE ISSUES & GET AHEAD OF THEM

Certain groups and the media love to stir the pot:

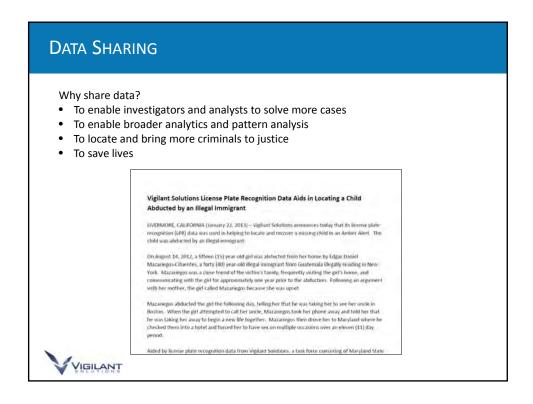
- LPR is used to track innocent citizens
- · It's an invasion of privacy

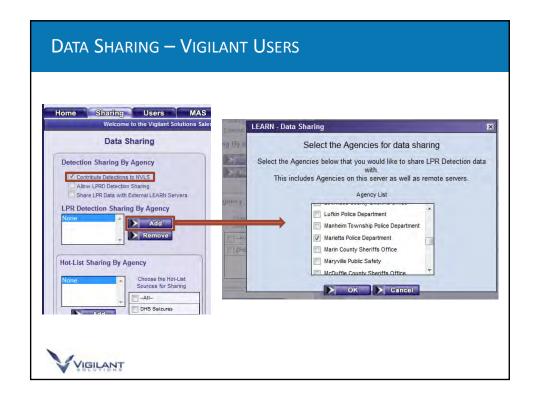
How to prepare and respond:

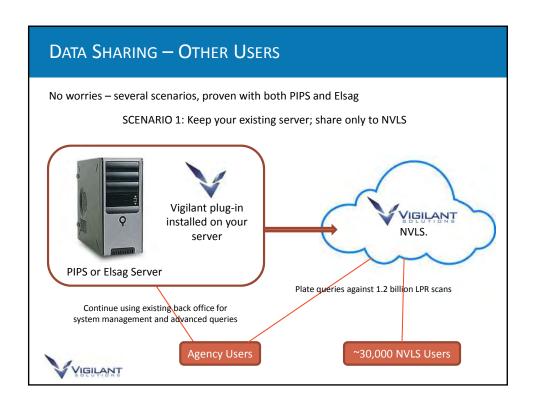
- Get ahead of it spin off some PR on the increased safety it is providing, tell successes from around the country that garner more emotion than the "privacy" scare (Amber Alerts, homicides, etc)
- Be versed on your written policy; state that per your agency policy the system's use is
 monitored and audited on a regular basis. A reason for query and case number is
 required for each and every access into the system.
- Remind your audience that the system does nothing that officers have not already been doing since the advent of the license plate.
- Remind the audience that the system is only looking at a plate, not an individual...and
 that there is no personally identifiable information used. The system sees all plates
 equally, does not discriminate, and only alerts the officer if the LP is wanted in
 connection to a crime.

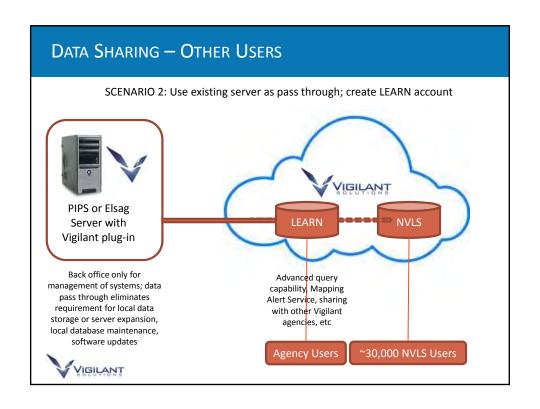


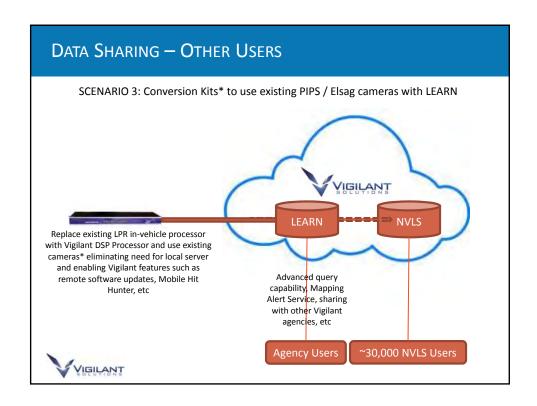
http://lapd.com/blog/protecting officers and the public with lpr technology/











LUNCH TIME

Grab a sandwich and hurry back; we will continue while we eat.

Next Up: Demo of New Tools & Future Plans



THE FUTURE — GUIDING PRINCIPLES

Minimize training - app concept - KISS

Its all about the data – what else can we do with the data?

- Integrating public records with LPR, improve officer safety with proactive warnings of vehicles and/or addresses with prior criminal conviction history
- Use historical LPR data to provide a virtual stakeout of an address
- Use historical LPR data to find common plates seen at multiple crime scenes or places of interest.





NEAR-TERM ROADMAP

- Alert Notification Filters (agency & hotlist)
- Hit Dispositions / Action Taken
- Sharing Map (completed)
- Alert Segregation (Mobile Companion, TAS, Mobile Hit Hunter, Email)
- Wildcard Characters (*, ?, _)
- Include State on Agency Data Sharing List
- Simplified / intuitive hotlist sharing
- Many, many, many more...a word on our development process





FACESEARCH FACIAL RECOGNITION — BASICS

- Highly accurate biometric facial recognition
 - 95%+ success with NIST database at matching top 5 nearest; controlled environment / benchmark only*
 - Real world accuracy above 80% including off-axis images, illumination challenges, and other variables
 - Minimal impact from hair styles, facial hair, and slight
 - Integrated illumination adjustment to reduce challenges of shadows
- Hosted on Top-Tier Data Center
 - Designed for hot-list management in tens of millions of faces
 - Speed of querying against 10 million records: less than 3 seconds
- Pre-populated facial images
 - Web crawler auto-updates sexual predator and Crimestopper facial images from thousands of websites
 - ✓ Ability to easily import agency facial records







FACESEARCH MOBILE

• Android mobile application provides capture, query and identity validation capabilities in the field

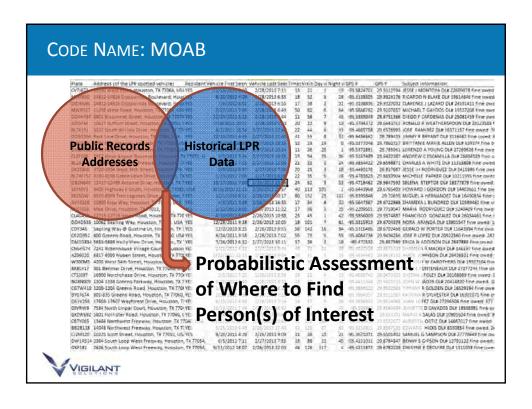


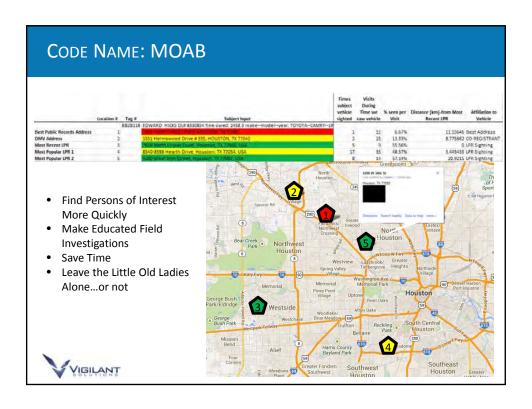
VIGILANT

OFFICER SAFETY - PROTECTION ALERT (IN THE CAR)

- Facial records DMV = vehicle associations
- No hit alerts, but a distinct audible and visual indication that a vehicle is associated with someone with known criminal history
- Facial images embedded into LPR record
- Consider sex offender travelling with young child or burglar with tools in back seat







WHAT IDEAS DO YOU HAVE?

What ideas do you have?

Simple changes – move this button over there Process oriented – when I get an alert, I want it to do this... New functionality – I have a problem, it would be great if you could find a way to...

The only stupid idea is one unspoken.



