



DATA-DRIVEN

ONE
ALBUQUE
RQUE



Albuquerque Police Department Real Time Crime Center

Chief Harold Medina

Deputy Chief J.J. Griego

Deputy Commander Mark J. Torres



DATA-DRIVEN

ONE
ALBUQUE
RQUE

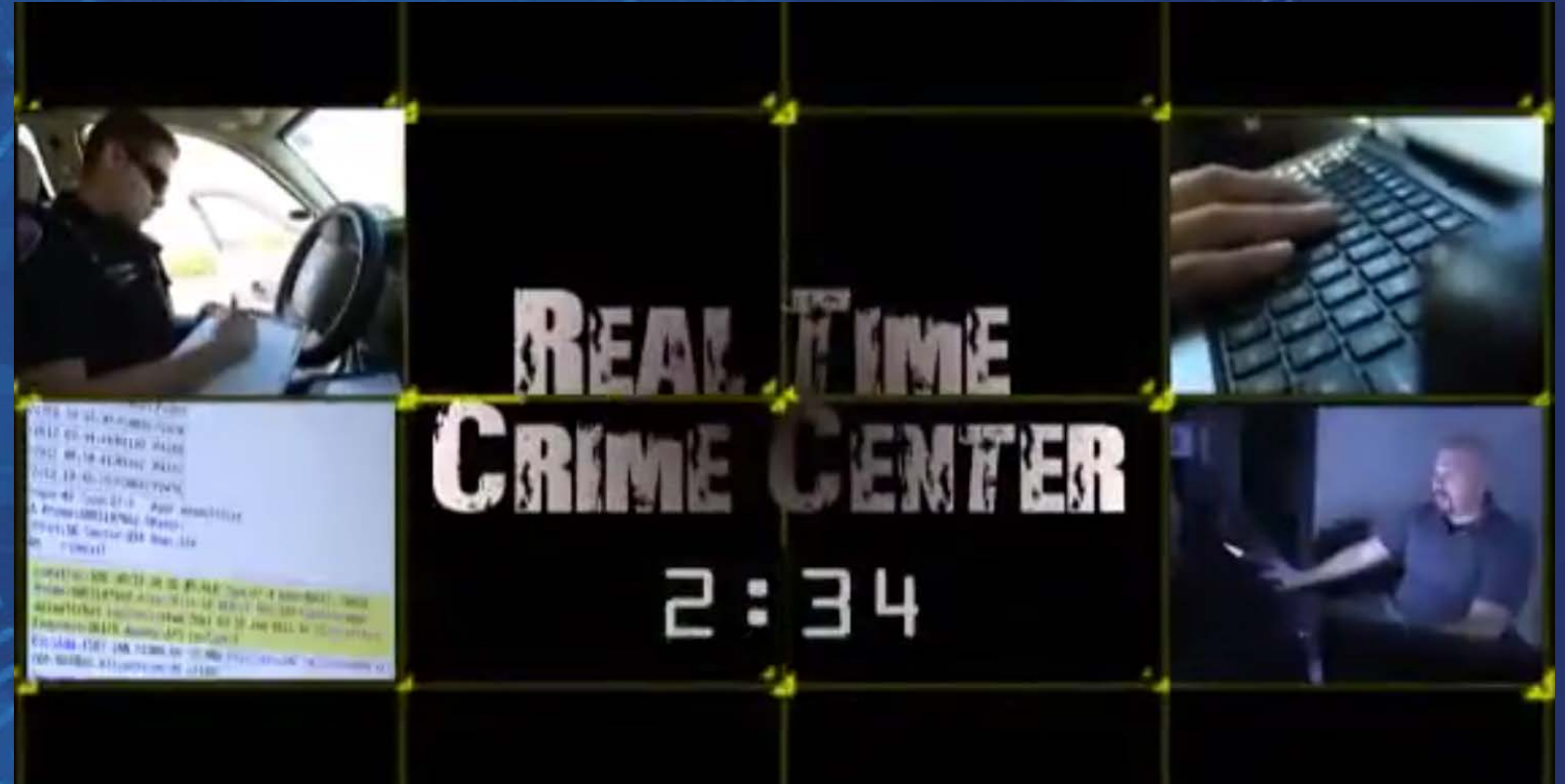




DATA-DRIVEN

- 2005 -

ONE
ALBUQUE
RQUE



- Conceptualized after five homicides occur in a single day
- Identified a 3:38 window of time to provide situational awareness



DATA-DRIVEN



ONE
ALBUQUE
RQUE

Current: LIVE OPERATIONS

- 9 Real-Time Intelligence Consoles
- Video Camera Network (includes government and publicly owned cameras)
- Mobile Video Trailers and LPR FIXED and Mobile Units
- Data Analytics



DATA-DRIVEN

ONE
ALBUQUE
RQUE

2023 and Going forward:

- 12 Real-Time Intelligence Consoles
 - Genetec Citigraf
- Expanding Video Network – Public, Private, City Govt
 - Project Community Connect
 - ALPR
 - Data lake
 - Automation



DATA-DRIVEN

ONE
ALBUQUE
RQUE

Live Operations / “The Bridge”

- Our mission is to provide information that is relevant to improve situational awareness.
- Work collaboratively with law enforcement personnel in patrol and investigative divisions.
- Unit is made of law enforcement personnel with experience in investigations, tactical operations and critical incidents.
- Bridge operators gather open source information (OSINT) and experts in navigating APD different data sources.
- Personnel are certified operators that go through vigorous training to obtain and maintain certifications.



DATA-DRIVEN

ONE
ALBUQUE
RQUE

Crime Analysis Unit

- Our mission is to make sense of the data and analyze crime trends
- Work collaboratively with Field Services and Investigations Bureau
- Analysts located at APD HQ and Area Commands
- Bi-weekly Crime Analysis Briefings
- Daily Crime Analysis Report
- Daily Crime Call
- Weekly Guns, Violence, Interventions (GVIS) meeting
- Weekly Duke City Stat



DATA-DRIVEN

ONE
ALBUQUE
RQUE

Video Production Unit

- Produce and Created the Daily 49
 - * 4 minute daily video to provide law enforcement accurate information about the city.
 - * Release suspect information
 - * Officer safety bulletins
 - * Announce Special Events
 - * Reinforce training
- Produce and Created weekly Chiefs Corner
 - * Weekly update by Chief of Police to all APD.



DATA-DRIVEN

Albuquerque Police Department

ONE
ALBUQUE
RQUE

DUKE CITY STAT

PRINCIPLES OF DUKE CITY STAT

Accurate and Timely Information

Know what is happening.

Effective Tactics

Have a plan.

Rapid Deployment

Do it quickly.

Relentless Follow-up and Assessment

If it works, do more. If not, do something else.

CRIME REDUCTION STRATEGIES

Focus on:

- Problem Locations***
- Prolific Offenders***
- Repeat and Vulnerable Victims***
- Community Engagement***
- Partnerships***



DATA-DRIVEN

ONE ALBUQUERQUE

Search names, addresses, and more

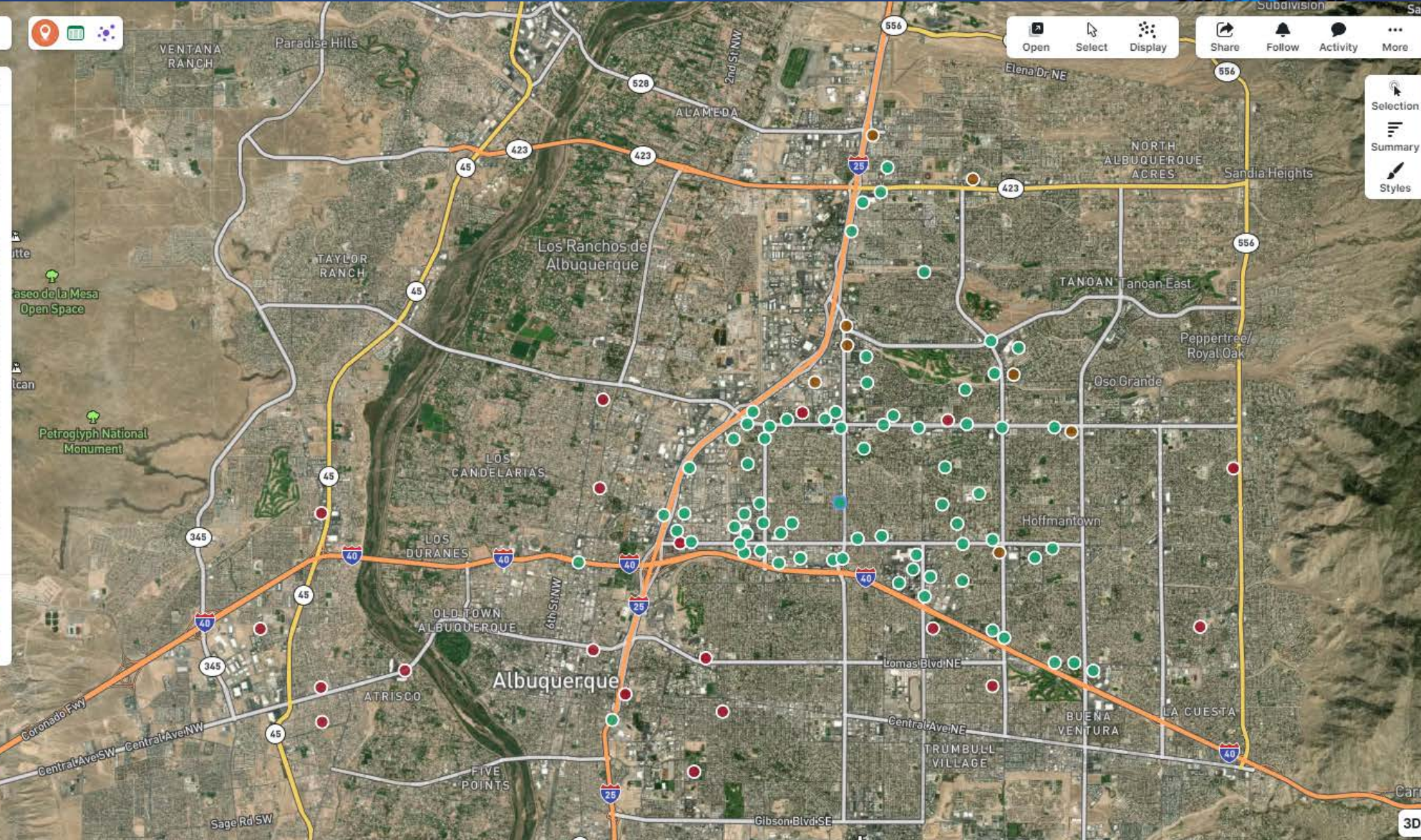


NE Duke City Stat Map Live

- ▶ CADs where 10-Code / Descripti...
- ▶ Drug House Update 2-11-21
- ▶ NE Arrests Past 30
- ▶ NE Assault Past 30
- ▶ NE Robbery Past 30
- ▶ NE Auto Theft Past 30
- ▶ NE Res Burg Past 30
- ▶ NE Com Burg Past 30
- ▶ NE Auto Burglary Past 30
- ▶ NE CAD 31 Past 30
- ▶ NE CAD 60 Past 30
- ▶ NE CAD 39-3 Past 30
- ▶ NE CAD 74 Past 30
- ▶ NE CAD 31S Past 30
- ▶ NE CAD 54 Past 30
- ▶ NE CAD 24S Past 30
- ▶ NE CAD 25 Past 30
- ▶ 2021 Shooting with Injury MASTER



Dark Light Streets Satellite



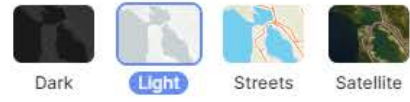
3D

Search names, addresses, and more



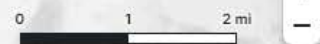
- Layers
- Search
- Draw
- Import
- Library

- NE Duke City Stat Map Live**
- CADs where 10-Code / Descripti...
 - Drug House Update 2-11-21
 - NE Arrests Past 30
 - NE Assault Past 30
 - NE Robbery Past 30
 - NE Auto Theft Past 30
 - NE Res Burg Past 30
 - NE Com Burg Past 30
 - NE Auto Burglary Past 30**
 - NE CAD 31 Past 30
 - NE CAD 60 Past 30
 - NE CAD 39-3 Past 30
 - NE CAD 74 Past 30
 - NE CAD 31S Past 30
 - NE CAD 54 Past 30
 - NE CAD 24S Past 30
 - NE CAD 25 Past 30
 - 2021 Shooting with Injury MASTER



Timeline Heat grid 03/31/2021 09:50 04/29/2021 17:35

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun					1	2	3	3	1	2	3	2	3	1	4	2						2		1
Mon								1	2	2	1	1	1		2					1				2
Tue					1	1	1	3	2	1	1	2	1	2	1	1	1		2	1		1	2	
Wed					1	1	2	1	1	4	1			1			1	2						1
Thu					1		1	1						1	2	2				1		1		
Fri									2	1			1		1	2	1							
Sat					1					4						1						2		



Search

Keywords ⓘ

Date range

All time

Location

Address Shape

Data types

All

- Case
- Person
- Vehicle
- Incident
- Arrest
- Citation
- Field Interview
- Document
- Evidence
- ALPR
- Shotspotter
- Property
- Personnel
- Gun
- Business
- Call Detail Record
- Call
- Message

RECENT SEARCHES [VIEW ALL](#)

Query	Date	
> All Data Types for all time with keywords "lacie gladish"	8 Apr 2021, 23:06	...
> All Data Types	8 Apr 2021, 23:05	...
> Cases for all time	30 Jan 2020, 09:22	...
> Cases from 06 Nov 2019 to 05 Dec 2019 where Occurred Incident Type is 10851 / VEHICLE THEFT	5 Dec 2019, 19:26	...
> Cases from 06 Nov 2019 to 05 Dec 2019	5 Dec 2019, 19:26	...

SAVED SEARCHES [VIEW ALL](#)

Query	Date	
> All Data Types for all time with keywords "99-1234"	4 Dec 2019, 17:44	...

FREQUENT SEARCHES [VIEW ALL](#)

Query	Date	
> All Data Types for all time with keywords "lacie gladish"	8 Apr 2021, 23:06	...
> All Data Types	8 Apr 2021, 23:05	...

Details



Case Status
CLEARED

Case Disposition
No value

Assigned Officer Name
Alona Drysdale
Virgil Oneel
Marline Chavarin
Jenae Betsch

Reported Date
29 Mar 2021, 23:21

Case Number
2021-00000868

Address
2909 WILLOW RD SAN PABLO CA 94806
13880 SAN PABLO AVE SAN PABLO CA 94806
13255 SAN PABLO AVE SAN PABLO CA 94806
RUMRILL BLVD/SUTRO SAN PABLO CALIFORNIA 94806

[View all](#)

Media
2 videos

Videos (2)



BWC: Smith, John



BWC: Hernandez, Jose

[View all](#)

Related
2 Persons • 1 Incident • 1 Arrest • 2 Evidence

	Verdie Cockerham	2004-10-25	No value	246 VISTA GRANDE GLN ESCONDIDO CA 92025	No value	Verdie Cockerham
	Lacie Gladish	2001-06-25	No value	TRANSIENT SAN PABLO CALIFORNIA	No value	Lacie Gladish
	2021-00007805	2	THREATS	CLOSED	Jerry Menges	29 Mar 2021, 23:21
	FELONY - ON VIEW	FELONY - ON VIEW	Lacie Gladish	29 Mar 2021, 23:51	13900 SAN PABLO AVE APT 18 SAN PABLO CA 94806	647(H) / DIS CNDCT-PEEK INHAB BLDG (COMMITTED)
					Body worn	



DATA-DRIVEN

ONE
ALBUQUE
RQUE

Crime Analysis Unit

- Our mission is to make sense of the data and analyze crime trends
 - Work collaboratively with Field Services and Investigations Bureau
 - Daily, weekly, bi-weekly reports

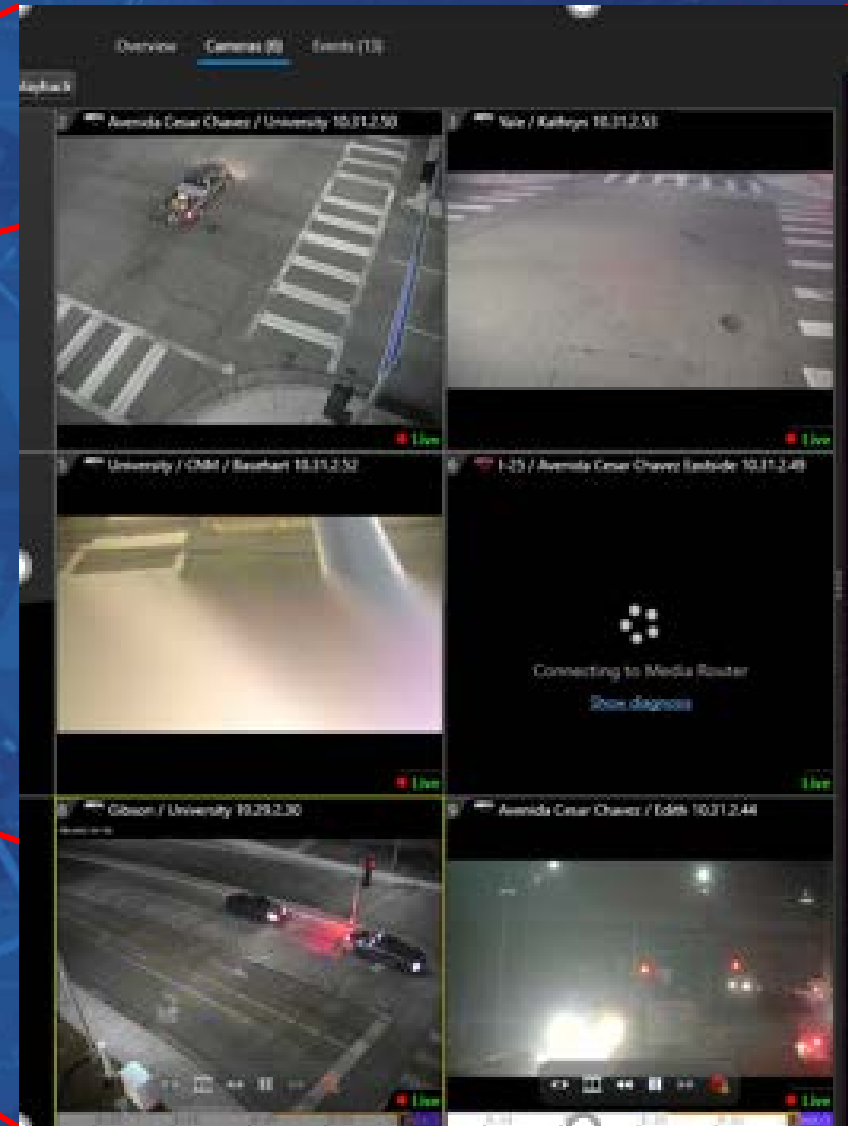
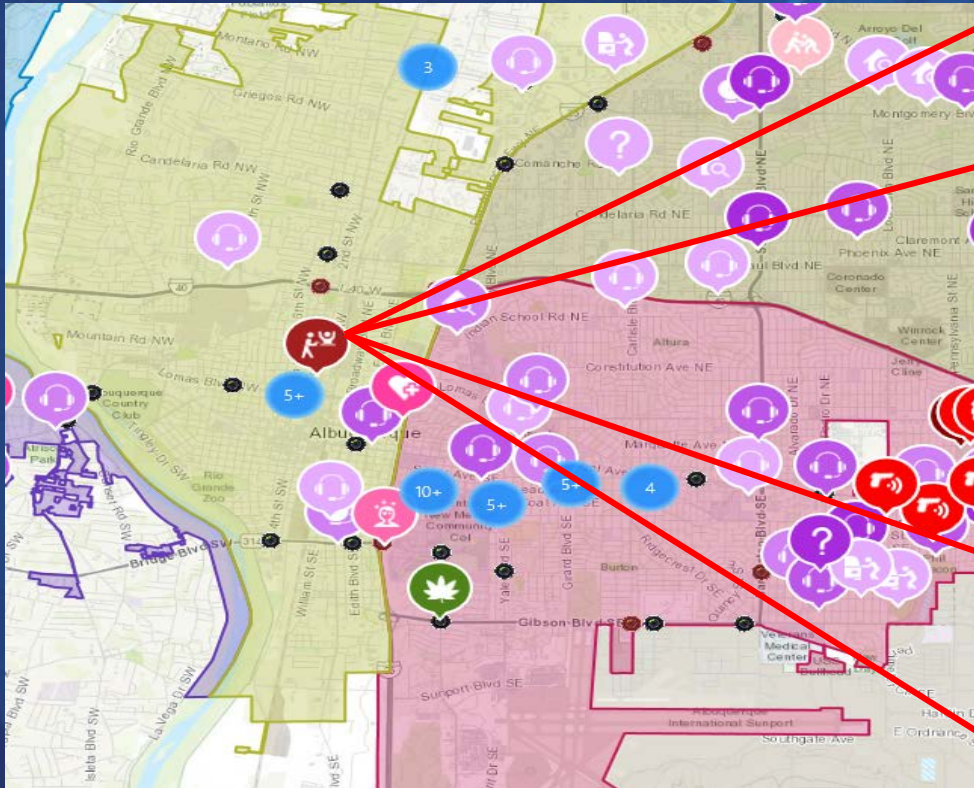




DATA-DRIVEN

ONE ALBUQUERQUE

Genetec Citigraf



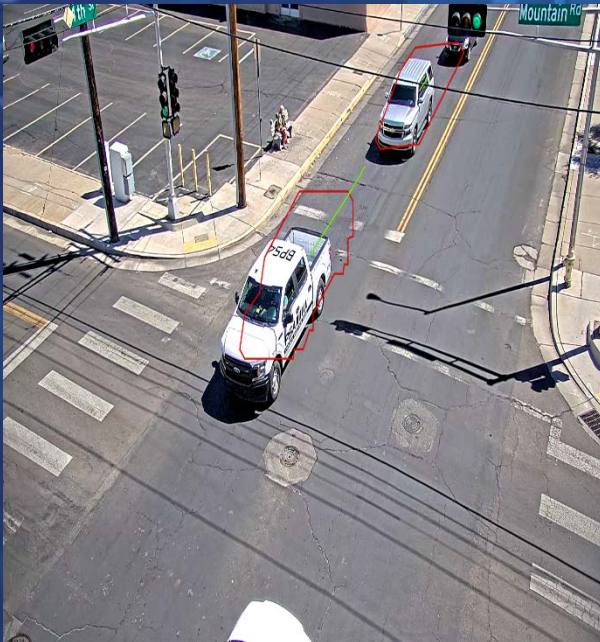
Single source data integration of cameras, CAD, Shotspotter, GPS



DATA-DRIVEN

ONE ALBUQUERQUE

- Automation in license plate reading (ALPR)
- Automation in camera motion trace
- Seamless alerts for stolen vehicles or traffic accidents



View	Edit	Map It	Associate Analysis	Batch Plate Search	Dismiss						
BAWT38 08-29-23 3:11:18 PM	RPR000 08-29-23 3:11:18 PM	CM0EG0 08-29-23 3:11:17 PM	BAXR85 08-29-23 3:11:16 PM	BJJ76 08-29-23 3:11:16 PM	BJJ76 08-29-23 3:11:16 PM	RMD752 08-29-23 3:11:15 PM	48261 08-29-23 3:11:15 PM	40401 08-29-23 3:11:15 PM	AWGS32 08-29-23 3:11:13 PM	ABYN82 08-29-23 3:11:12 PM	PHY840 08-29-23 3:11:11 PM
Results - 50 Records											
Page 1 of 1 Go to Page: 1 Records Per Page: 50											
Color Overview	Plate Image	Plate	Make	Date	Model	Time	Scanned By	System			
		BAWT38	CHEVROLET	08-29-23	EQUINOX	03:11:18 PM MDT	Wyoming @ Central Westbound	Wyoming At Central Westbound			
		RPR000	JEEP	08-29-23	PATRIOT	03:11:18 PM MDT	Wyoming @ Central Westbound	Wyoming At Central Westbound			
		CM0EG0	HYUNDAI	08-29-23	SANTA FE	03:11:17 PM MDT	Fixed_Bridge_SB	Bridge South at Coors			
		BAXR85	DODGE	08-29-23	DAKOTA	03:11:16 PM MDT	Wyoming @ Central Westbound	Wyoming At Central Westbound			
		BJJ76	CHEVROLET	08-29-23	MALIBU	03:11:16 PM MDT	WyCentralSouth	Wyoming AT Central Southbound			
		BJJ76	CHEVROLET	08-29-23	MALIBU	03:11:16 PM MDT	WyCentralSouth	Wyoming AT Central Southbound			
		RMD752	FORD	08-29-23	F150	03:11:15 PM MDT	Wyoming @ Central Westbound	Wyoming At Central Westbound			
		48261	DODGE	08-29-23	CHARGER	03:11:15 PM MDT	RioGrandCentralNorth	Northbound Rio Grande at Central			



DATA-DRIVEN

ONE ALBUQUERQUE

- Shotspotter integration allows for seamless notification and immediate resource awareness

CAD call 27-9: Stabbing - Status: On scene

ID: 8:40:48 AM 3119 Central Ave SE, Albuquerque, NM 87106, USA Priority: 1 District: Beat: 323

Overview Cameras (4) People Events (4) Cases

Call details

Narrative

- 07/18/2023 08:38:39 CREATE
- 07/18/2023 08:38:44 LOCPRS
- 07/18/2023 08:38:44 ENTRY Comment: BEHIND BUILDING IN ALLEY NEAR WELLS FARGO/---FEM WAS STABBED BY MALE IN THE ARM ---MALE LEFT WALKING TOWARDS STANFORD---STARTING 43
- 07/18/2023 08:38:44 INVI
- 07/18/2023 08:38:44 SURJ
- 07/18/2023 08:38:44 INVI
- 07/18/2023 08:38:44 PREMIS Comment: APS, ECI
- 07/18/2023 08:38:56 SELECT
- 07/18/2023 08:38:57 INFO Comment: OFFN WALKING WB ---ADVIC CLR NOT TO FOLLOW OFFN
- 07/18/2023 08:39:14 CHANGE
- 07/18/2023 08:39:17 INFO Comment: OFFN TRYING BLK SHIRT ON GROUND---
- 07/18/2023 08:39:24 INFO
- 07/18/2023 08:39:38 INFO Comment: FEM VICTIM W/ANOTHER TWO FEMS WHO ARE ASSISTING HER---
- 07/18/2023 08:39:45 DISP Unit: S32W Comment: (-Preempted and dispatched to call #P231990384)
- 07/18/2023 08:39:48 PRL Unit: S32W
- 07/18/2023 08:39:48 INFO Comment: MALE OFFN NOW WALKING BEHIND WALGREENS
- 07/18/2023 08:39:48 DISP Unit: E221 Comment: (-Preempted and dispatched to call #P231990384)
- 07/18/2023 08:40:06 ENRTE Link: E221

Related calls

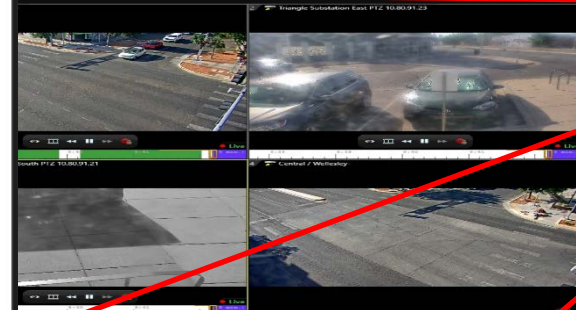
Date	Type	Priority	Event ID
8:55:25 AM	64: Crime Scene Inv	7	231990409 (APD)
8:40:38 AM	27-98: Stabbing BOLO	5B	231990387 (APD)

ShotSpotter® ShotSpotter ID: 577-175524

INVESTIGATIVE LEAD SUMMARY

INCIDENT DATE: APR 12, 2023
 CITY / ZONE: ALBUQUERQUE / ALBUQUERQUENMSOUTHWEST
 REPORT DATE: APR 13, 2023 02:41:42
 REQUESTED BY: JOHNATHANMOYA@CABQ.GOV

INCIDENT 577-175524 LOCATION 35.067356, -106.701010
 DATE/TIME APR 12, 2023 23:50:27 ADDRESS 1100 OLD COORS BLVD SW
 ROUNDS 5 AREA 71/714
 CAD ID 231021698 TAGS

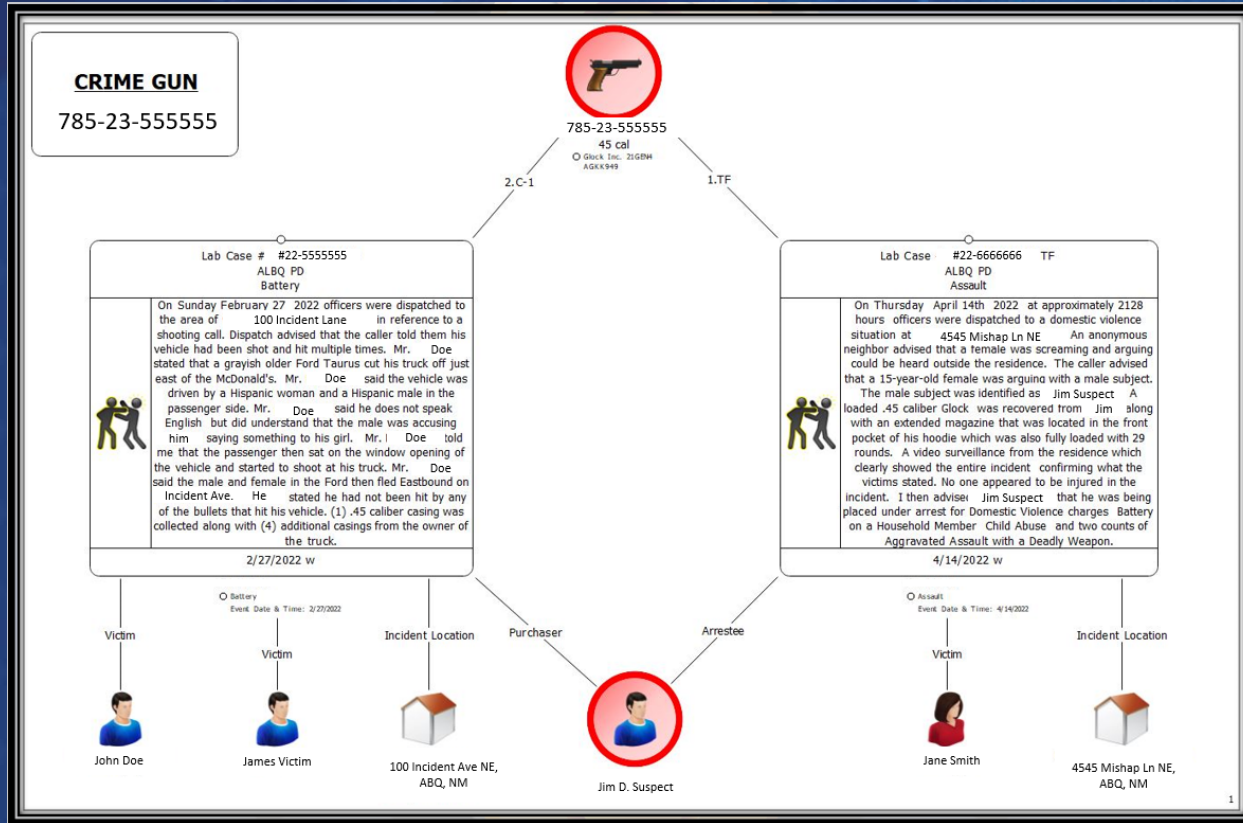


31,100+ Published events and counting



DATA-DRIVEN

ONE ALBUQUERQUE



IBISTRAX HD3D MATCHPOINT

Exhibit Information

Case Details

Case Number: APD22-0033316
Site Name: NM-ALMFBR1
Originating Agency: NM-ALBQ PD
Orig. Agency Ref.: 22-0033316
Orig. Agency Contact: SIMPSON TROY
High Profile:
Event Type: Officer Involved Shooting
Supervisor:
Occurrence: 5/3/2022
Creation: 6/9/2022 9:01:47 AM
Created By: Sabrina K. Farah
Modification: 6/9/2022 9:01:47 AM
Modified By: Sabrina K. Farah
Comments: 3 hits

Cartridge Case Exhibit Details

Exhibit Number: 13-C-36
Caliber: 7.62 x 39 mm
Make: Tula Cartridge Works
Firing Pin Shape: Circle
Composition:
Double-Cast Comp.:
Category: Crime Evidence
Firearm Exhibit:
Occurrence: 5/3/2022
Reception: 6/6/2022
Creation: 6/9/2022 2:42:30 PM
Created By: Sabrina K. Farah
Modification: 6/9/2022 2:06:57 PM
Modified By: Sabrina K. Farah
Last Acquisition: 6/9/2022 2:06:57 PM
Last Acq. By: Sabrina K. Farah
BF Class Char: Unknown
Firing Pin Outline a: 0.091 inch
BF Inner Outline a: 0.093 inch
BF Outer Outline a: 0.177 inch
Comments: 3 hits

Karen Wilson 5/9/2022 Victoria Naez VKN CR

For official use only Sensitive but unclassified

Page 3 of 13

- Shotspotter has led to an increase in shell casing collection
- Increased collection allowed for expansion of NIBIN leads
- Patterns and repeat offenders are developing allowing for focused resource response (cameras, ALPR, Officers)

RTCC Technology Successes

Technology as an investigative support tool



DATA-DRIVEN

Shooting (AP230027806)



ShotSpotter

RESPOND ID: 576-265857

INVESTIGATIVE LEAD SUMMARY

INCIDENT DATE: APR 08, 2023
 CITY / ZONE: ALBUQUERQUE / ALBUQUERQUENSOUTHEAST
 REPORT DATE: APR 08, 2023 22:39:37
 REQUESTED BY: CSCHMIDRAMIREZ@CABQ.GOV



INCIDENT	576-265857	LOCATION	35.075109, -106.568704
DATE/TIME	APR 08, 2023 21:02:13	ADDRESS	111 LOUISIANA BLVD SE
ROUNDS	2	AREA	33/333
CAD ID	P230981296	TAGS	

The RTCC Bridge produced several investigative leads using ShotSpotter, cameras, and LPRs

- Received a call from UNMH about a shooting victim
- Victim was not cooperative but gave the general location it occurred
- RTCC found the ShotSpotter activation to identify the time and precise location of the incident



DATA-DRIVEN

Shooting (AP230027806)

ONE
ALBUQUE
ROQUE
ONE
ALBUQUE
ROQUE

- RTCC Bridge used ART station cameras to identify a vehicle that left at a high rate of speed
- Vehicle ran a red light after the shooting
- Identified the possible vehicle as a dark colored SUV
- LPR report was generated for all vehicles in the area and supplied to officers.





DATA-DRIVEN

ONE
ALBUQUE
RQUE


Homicide (AP230028978)

Vigilant VehicleManager

Vehicle Detection Report

License Plate Number: XXXXXXXXXX

Detection Mapping



Vehicle Images



Vehicle Spotted:
04-13-23 at 12:51:57 AM MDT

The RTCC assisted homicide detectives with identifying a vehicle utilized in a homicide as well as provided de-confliction for the arrest

- The RTCC was notified of a shooting via ShotSpotter and immediately began to assist with camera footage
- Provided LPR outputs to help identify the offender vehicle and place it near the homicide


Homicide (AP230028978)

- RTCC Maintained close communications with homicide detectives and provided extensive information
- Prior to homicide serving a warrant, the RTCC did a de-confliction on the address to ensure no other agencies were already working a case on the address.
- Homicide successfully arrested the homicide offender

ShotSpotter® ShotSpotter ID: 577-175524

INVESTIGATIVE LEAD SUMMARY

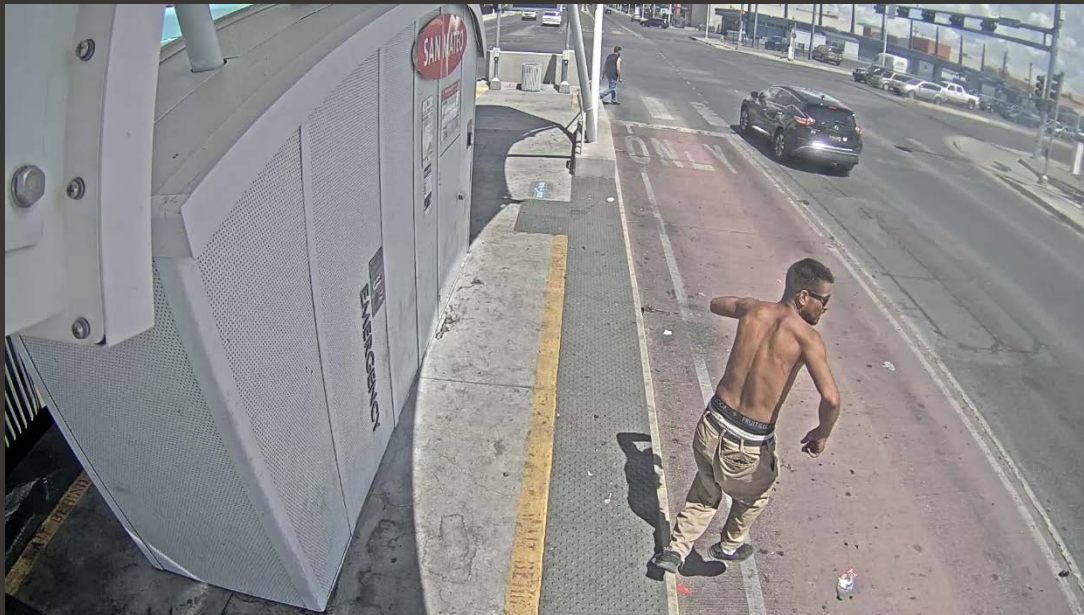
INCIDENT DATE: APR 12, 2023
CITY / ZONE: ALBUQUERQUE / ALBUQUERQUENSOUTHWEST
REPORT DATE: APR 13, 2023 02:41:42
REQUESTED BY: JOHNATHANMOYA@CABQ.GOV



Google Map data ©2023 Imagery ©2023 Maxar Technologies, U.S. Geological Survey

INCIDENT	577-175524	LOCATION	35.067356, -106.701010
DATE/TIME	APR 12, 2023 23:50:27	ADDRESS	1100 OLD COORS BLVD SW
ROUNDS	5	AREA	71/714
CAD ID	231021698	TAGS	

Bus Stop Stabbing (AP230044953)



The RTCC utilized traffic cameras and ART station cameras to identify a stabbing suspect and assisted field units with locating him.

- The RTCC immediately accessed cameras in the area to locate the offender.
- While searching the area, RTCC operators observed a male running near the intersection into a neighborhood.
- Officers saturated the area, located the offender and took him into custody
- RTCC provided all video footage to the responding officers to include the initial stabbing at the bus stop

Juvenile Absconder (AP230038140) **ONE ALBUQUE RQUE**

The RTCC Bridge assisted with identifying and locating a juvenile absconder

- Operators logged onto the call prior to officers being dispatched
- RTCC was able to identify the juvenile and advised officers he had a violent felony warrant and his history.
- The caller advised that the male got onto a bus and gave the bus number
- RTCC located the bus and tracked it until officers could stop the bus and take the male into custody near the Alvarado Transit Center



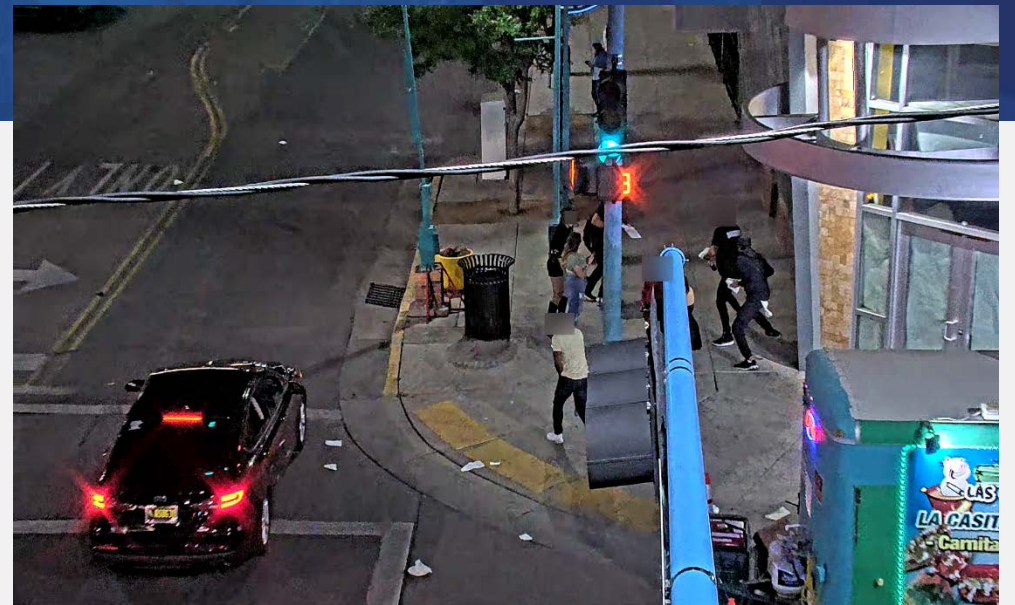


DATA-DRIVEN

ONE
ALBUQUE
ROQUE
ONE
ALBUQUE
ROQUE

Downtown Shooting AP230040211

The RTCC Bridge proactively monitored Smart Cities Cameras and observed a shooting downtown. They provided the license plate and video footage along with LPRs that allowed officers and detectives to quickly locate and arrest the shooting offender.





DATA-DRIVEN

ONE
ALBUQUE
RQUE

Albuquerque Police Department

Presented by

Commander George Vega &
Lieutenant Amanda Christensen



DATA-DRIVEN

Albuquerque Police Department's Sexual Assault Evidence Kit (SAEK) Backlog

ONE
ALBUQUE
RQUE

- 2016 Audit revealed approximately 5400 untested sexual assault evidence kits
 - 1981 – March 2017 Albuquerque Police Department's and Bernalillo County Sheriffs Office cases with a SAEK
- 2018 City Council resolution to test all kits within 90 days
 - Mayor Keller vowed that all kits would be tested.

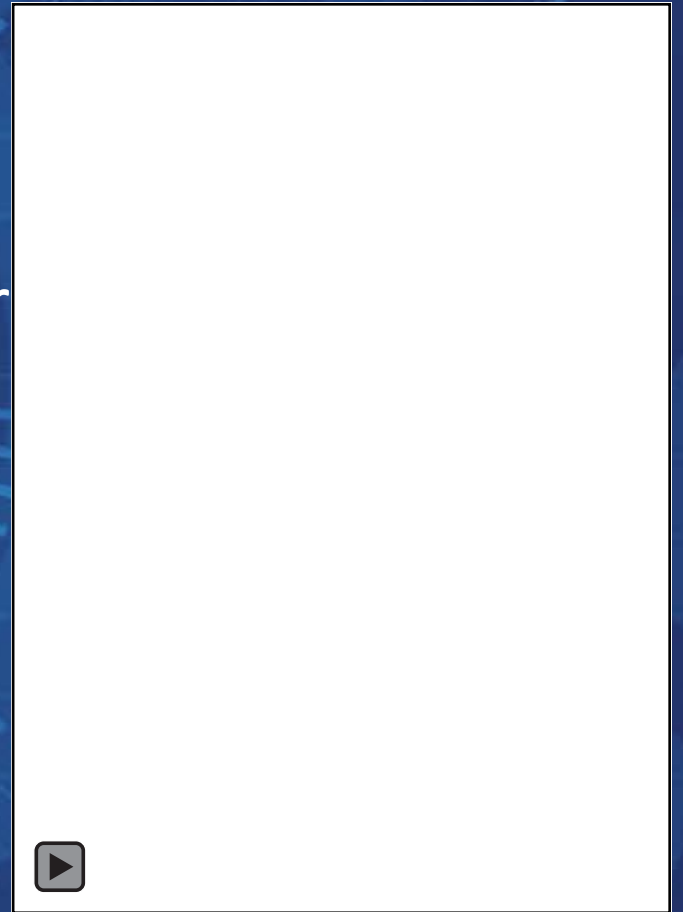


DATA-DRIVEN

ONE
ALBUQUE
RQUE

Testing Procedures

- SAK Testing Plan
- Outsourcing Labs
- Additional Testing – YSTR, Items, Consensual Par
- Improved Testing Equipment –Robotics
 - QIAGEN QIAgility (quantification and amplification)





DATA-DRIVEN

ONE
ALBUQUE
RQUE

DNA processing in the crime lab

Once body fluids/skin cells have been collected, the DNA testing process begins

1. Extraction
2. Quantification
3. Amplification
4. DNA typing





DNA Extraction

ONE
ALBUQUE
RQUE

QIAGEN EZ1

Extracts 14 samples at a time



x4 Purchased in 2019 – Legislative Funds

QIAGEN EZ2

Extracts 24 samples at a time



x2 Purchased in 2021 – Legislative Funds



DATA-DRIVEN

QIAcube Connect Differential Extractions

ONE
ALBUQUERQUE



x3 Purchased 2019, x1 Purchased 2021



DATA-DRIVEN

Investigations

ONE
ALBUQUE
RQUE

- **Case Review**
 - Case Review Council (DA, Scientific Lab, Rape Crisis, SANE, LE, Advocates)
- **Crime Analysis**
 - Suspects Criminal History, Mapping and Linked Cases, Employment Records, Electronic Data, Police Contacts
- **Communication**
 - Victim Notification Protocols, Partnerships and Stakeholders



DATA-DRIVEN

ONE
ALBUQUERQUE

Why use robots in a DNA laboratory?

1. Faster than human hands pipetting
2. More samples at one time
3. Minimal human error (sample switches)
4. Less contamination
5. Frees up analyst time while instrument is running





DATA-DRIVEN

Technology

ONE
ALBUQUE
RQUE

- Identified Serial Offenders
- Forensic Hits- Case to Case
- Forensic Genetic Genealogy (FGG)
- Benefits of using robots in DNA Laboratories
 - Faster with less personnel, reducing analysts time
 - Minimal Human Error
 - Less Contamination



DATA-DRIVEN

ONE
ALBUQUE
RQUE

The Results

- 4622 Kits were sent out for testing – why the difference?
 - 497 kits belonged to Bernalillo County Sheriff's Office
 - Non-Reported Cases
 - Wrong Case Numbers
 - Kits Tagged Under Wrong Case Numbers
 - Duplicate Case Numbers
 - 1830 Cases were re-opened for additional investigative steps
 - Cases from year 1981 through 2017
 - 1452 Profiles Entered into CODIS with at 47% hit rate
 - 877 CODIS Hits since 2017