## Chula Vista Police Department Drone as First Responder (DFR)

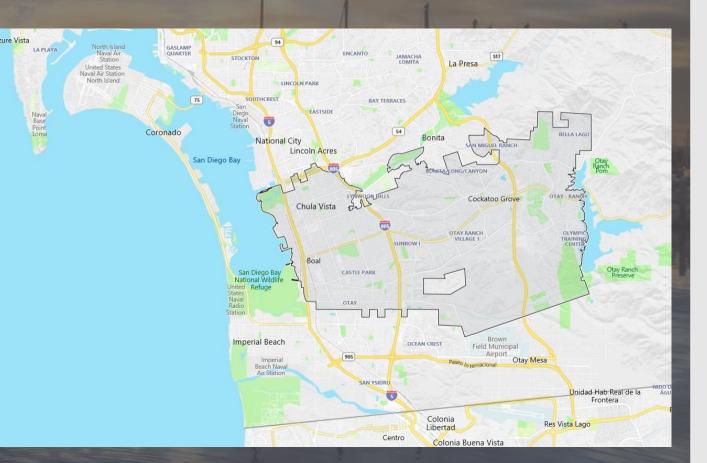
## **Integrating UAS Air Support into Routine Operations**

**Speaker: Sergeant Dustin Bruzee** 

UAS / DFR Supervisor Chula Vista Police Department

## Chula Vista, California

- Suburb of San Diego
- 2<sup>nd</sup> largest City in
- San Diego County
- 285,511 population
- 52 Square Miles
- 281 sworn officers
- No helicopter unit
- Class G Airspace



## Deployme

OLICE DEPARTMEN

Tactical

Indoor

 Mapping & Scene Diagramming

Nesting (DFR)

# **Drone as First Responder (DFR)**



## IN THE BEGINNING....

- October 2017, President Trump signed a directive to establish the UAS IPP
- May 2018, Chula Vista Police was selected as a member of 10 UAS testing sites nationally
- October 2018, the Chula Vista Police launched first DFR mission





U.S. Department of Transportation Federal Aviation Administration

## **San Diego IPP Partners**



# **PROGRESS**2018

- I launch location (CVPD HQ's)
- Limited availability
- PIC's staffed rooftop
- 1 Mile line-of-sight
- Video livestreamed via CAPE
- Flight data manually tracked

**PROG RESS**2018

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## Today

- City-wide (4 locations)
  7-days / week
- Pilots "teleoperate"
- Flying Lion provides PIC's
- 3 Miles BVLOS Waiver
- 1-to-2 Waiver
- Video livestreamed via CAPE
- Flight data managed by AirData

# DFR IS PROACTIVE

 Drone prepared to respond <u>immediately</u> to any emergency within geofenced flight area

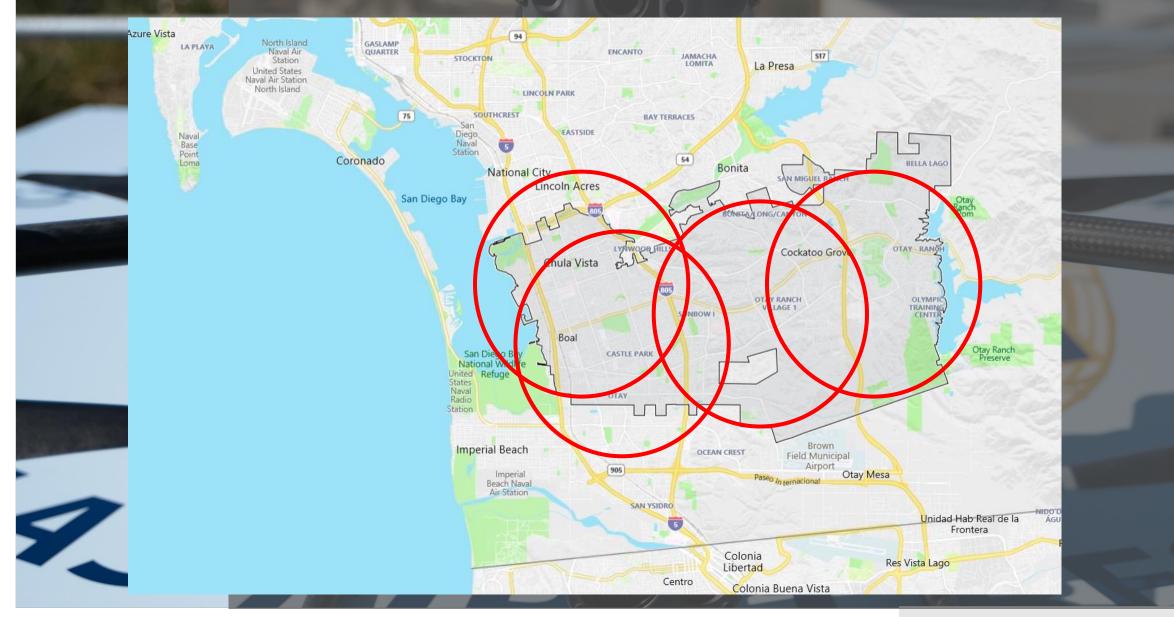
 Drone operated remotely by Teleoperator (an experienced sworn officer)

 Flight Safety ensured by automation, geofencing and a Visual Observers (V.O.) in the field

 Teleoperator can choose launch site nearest to incident

 Teleoperator can assist with coordination via radio

# COVERAGE

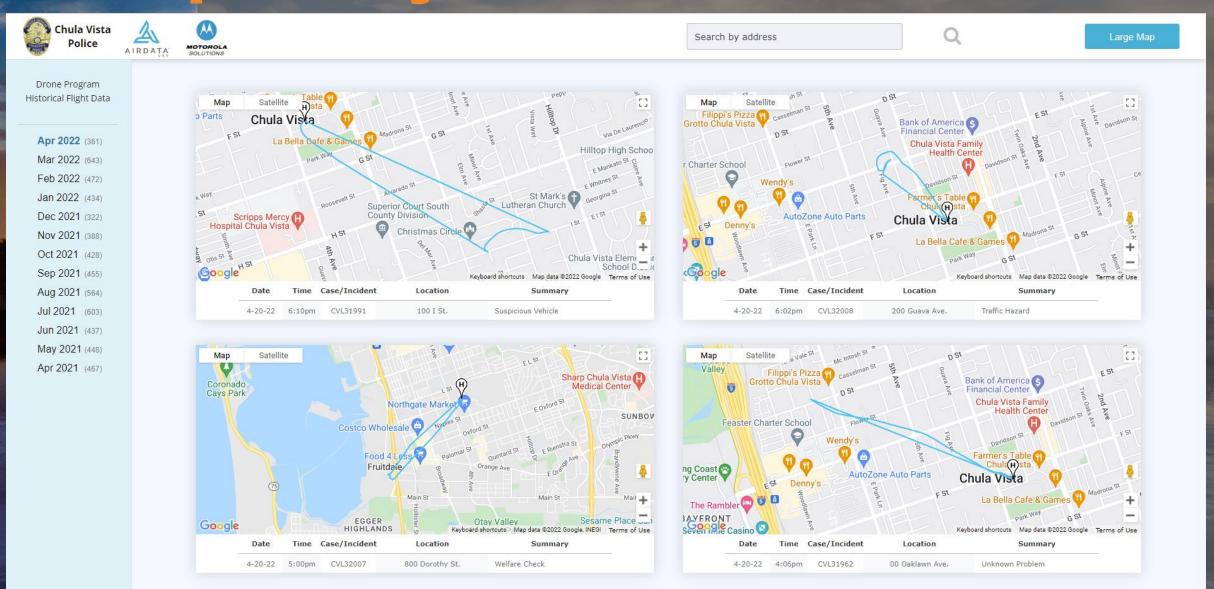


TELLEN

Privacy Concerns According to surveys conducted by the Police Executive Research Forum, the most significant concern about drones expressed by community members is that of privacy.



Agencies should make strong efforts to educate the community about drone policies, especially those involving the use of cameras.



#### CHULA VISTA POLICE DEPARTMENT - DRONE AS FIRST RESPONDER (DFR)

DFR ACTIVITY BY THE NUMBERS

4/20/2022 6:40:21 PM

#### CHULA VISTA POLICE DEPARTMENT DFR PROGRAM FACTS

\* Selected as part of the IPP on October 2018

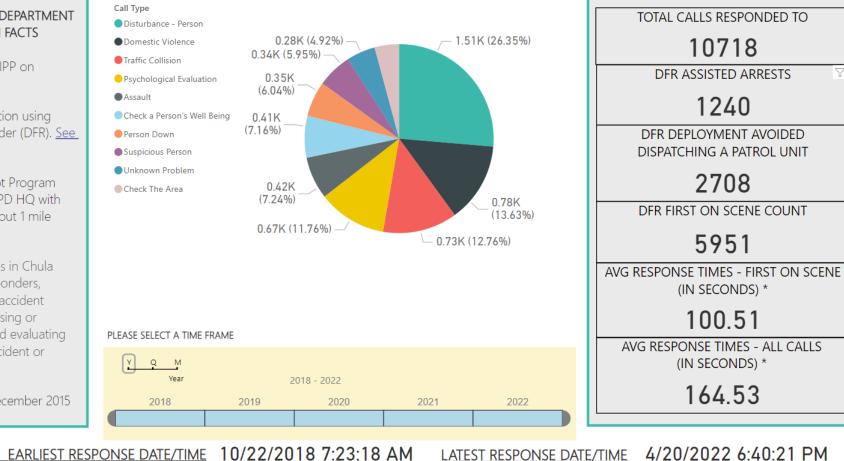
\* First program in the nation using Drones as a First Responder (DFR). See FAA site

\* Current status: DFR Pilot Program currently based from CVPD HQ with limited flight range of about 1 mile radius

\* Common use of drones in Chula Vista: Drones as first responders, documenting crime and accident scenes, searching for missing or wanted persons, fires, and evaluating damage after a major incident or natural disasters

\* Program envisioned December 2015

\* Response times from dispatch to arrival.



LATEST RESPONSE DATE/TIME

TOP 10 CALLS RESPONDED WITH DFR ASSISTANCE

#### CHULA VISTA POLICE DEPARTMENT - DRONE AS FIRST RESPONDER (DFR)

TOP 10 CALLS RESPONDED WITH DFR ASSISTANCE

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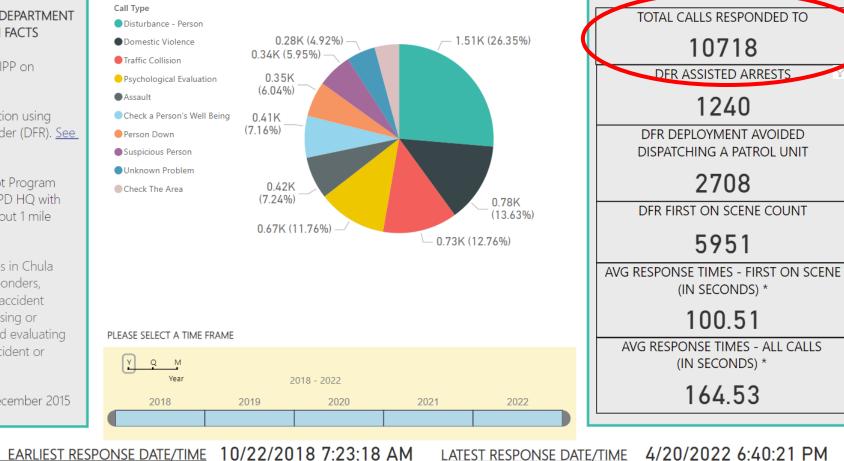
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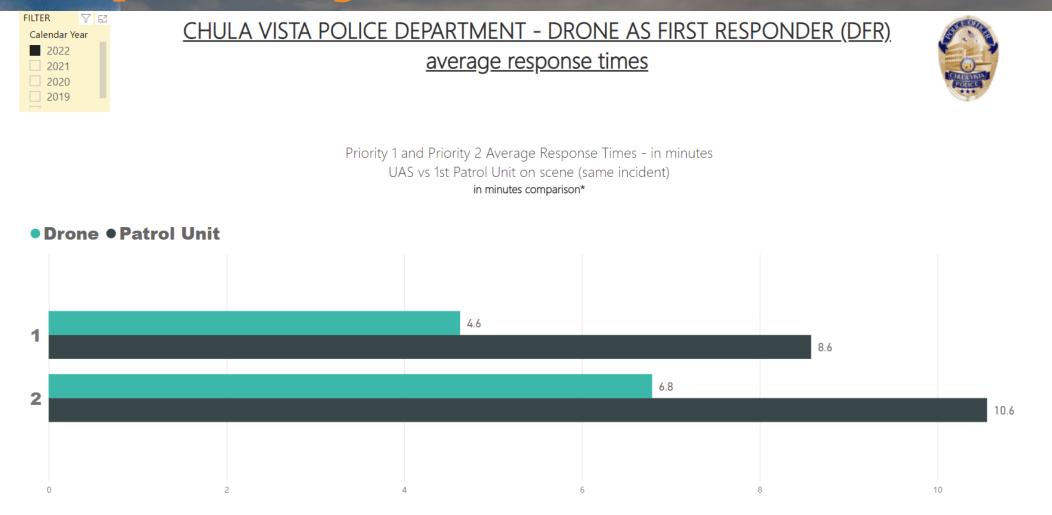
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\* Response times are measured from the time the call is received to the time units arrived.

## What DFR Does....

- Provides real-time, valuable intel to responding first responders
- De-Escalates rapidly evolving situations
- Confirms, dispels, or expands on the first information received
- Reallocates valuable resources
- Provides a "birds-eye view" to supervisors and command staff
- Makes our first responders and community safer!!!

## What DFR Doesn't do....

Conduct random surveillance on the community

- Will <u>never</u> be weaponized
- Automated license plate readings
- Facial Recognition
- Put the community at risk
- Cost too much

Share information with China or other outside governments

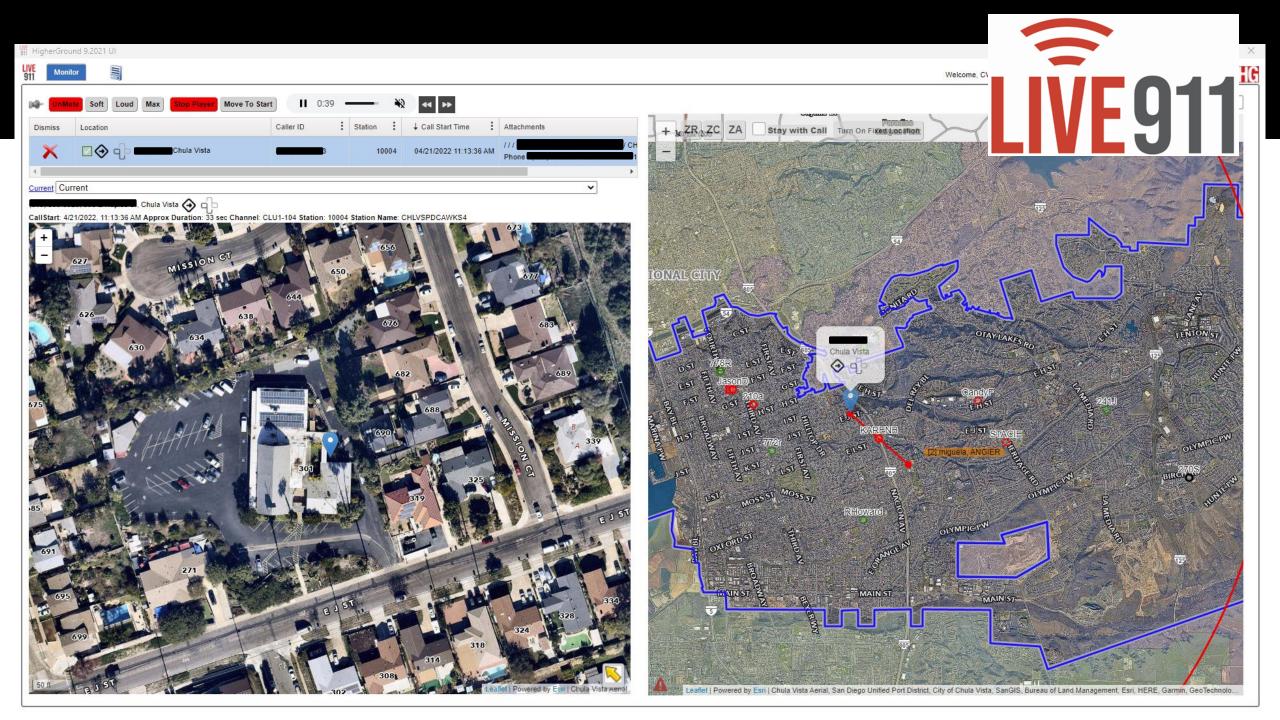
# **Closing the Gap**



- First Responders can hear updates while driving to the call
- Call location immediately identified
- First Responders can hear information not entered into CAD by the 911 call taker



LIVE911



# F CR P C R A Μ

# DROME AS FIRST RESPONDER

## FLYING LION - A TRUSTED PARTNER

- Public/Private Partnership that manages professional pilots at a significantly reduced cost
- DFR support since April 2020
- Flying Lion also provides:
  - FAA consulting
  - UAS equipment
  - Software testing
  - Part 107, DFR & Flight Training

Barry Brennan bb@flyinglioninc.com (310)722-1550







Home > Uncategorized > Chula Vista Drone Program Lauded For Accountability, Transparency

#### Chula Vista Drone Program Lauded For Accountability, Transparency

🕐 November 5, 2021 🛔 Smart Cities Connect 🗁 Uncategorized



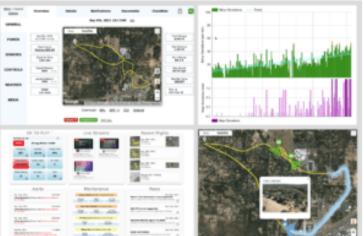


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### Chula Vista Drone Program Accountability, Transparenc

O November 5, 2021 Smart Cities Connect D Uncategorized

<image>



Posted By: Miriam McNabb on: October 07, 2021

#### Chula Vista PD Drone Program Uses AirData to Provide Full Transparency to Community

Chula Vista PD Drone Program Enlists AirData to Provide Community Transparency

#### by DRONELIFE Staff Writer Ian M. Crosby

Chula Vista Police Department's nationally recognized drone program has enlisted the aid of drone fleet management industry leader AirData

UAV in order to help provide drone flight transparency to the public. AirData now enables Chula Vista residents to view and understand the exact location, flight path, and purpose behind each police drone deployment.



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## **BORDER CITY USING DRONES FOR POLICING**

NBC News

#### California border city using drones for policing

Police in Chula Vista, California, are raising some privacy concerns from residents after getting an FAA clearance to surveil the city by using a drone. NBC News' Simone Boyce reports.

#### am Uses AirData to o Community

Chula Vista PD Drone Program Enlists AirData to Provide Community [ransparency]

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**Chula Vista Police Department's** nationally recognized drone program has enlisted the aid of drone fleet nanagement industry leader AirData ency to the public. AirData now enables exact location, flight path, and purpose

May 26, 2021

### How Chula Vista became one of the most surveilled cities in the country

By Amita Sharma / Investigative Reporter Contributors: Roland Lizarondo Published December 9, 2021 at 3:24 PM PST

LISTEN • 4:30



Privacy advocates say Chula Vista is now one of the most surveilled cities in the country. As KPBS's Amita Sharma reports, the city is developing an oversight committee to try to win over skeptical community members.

Uses AirData to ommunity

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#### Chula Vista in the Media Police Drone Footage Is Off Limits -Home > **Unless This Legal Challenge Takes** irData to Chu nity Flight Acco 9 by Sofía Mejías Pascoe May 5, 2021 ne Program Enlists O Novem Community SDGF Ever wonder exactly ff Writer Ian M. what you're paying for? Clean, safe, reliable energy whenever you need it. LEARN MORE )epartment's ed drone program has drone fleet NBC Net stry leader AirData Califorr AirData now enables INGENUITY HARTER SCHOO it path, and purpose Police in Ch A BLENDED LEARNING SCHOOL drone, NBC We foster relationships to help students A drone sits idle at the rooftop of the Chula Vista Police headquarters. / Photo by Adriana Heldiz build a stronger future

## Chula Vista Police Drone as First Responder Program expands citywide

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Posted: March 23, 2021 by KUSI Newsroom



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NBC

drone.

Chula Vista Police Drone as First Responder Program expands... KILLER latch later Share irData to nity

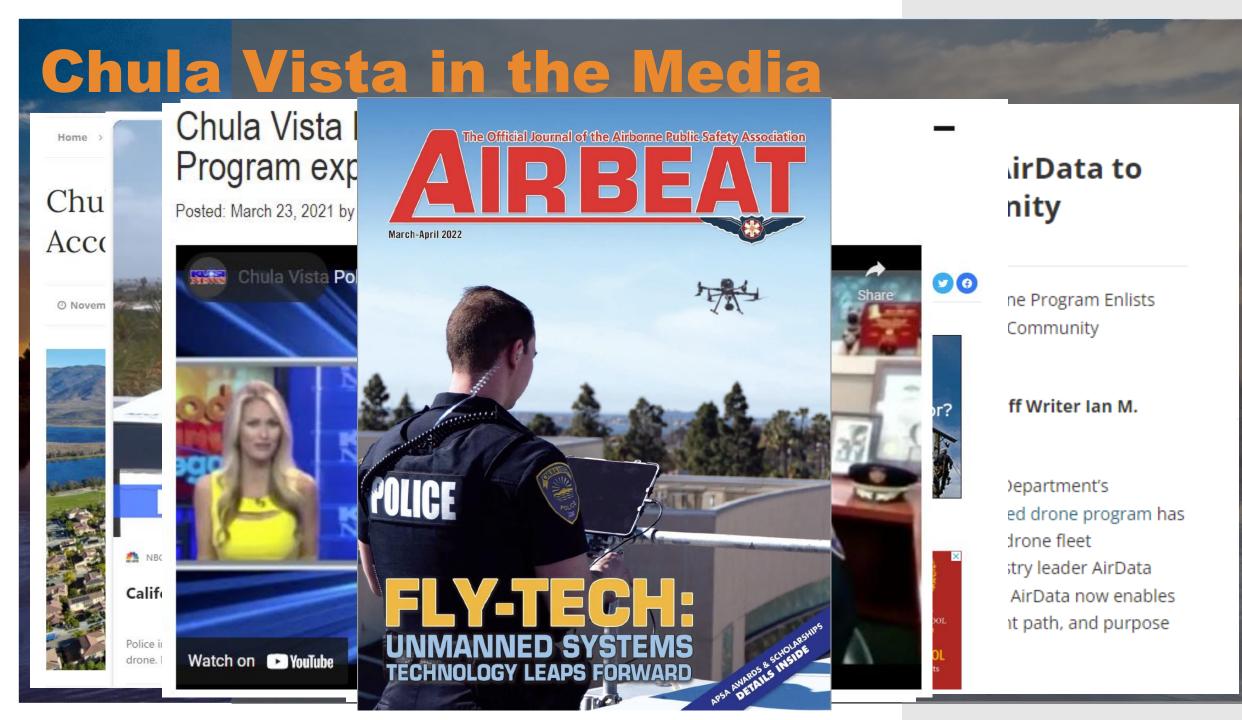
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ff Writer Ian M.

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Watch on 🕞 YouTube



# What's Next?

## What's Next?

- Stronger US drone presence
- Fully automated flights and selfdocking/charging drones
- Remove the need for a PIC
- Drones integrated into all emergency responses
- Regulations keep pace with technology



# TAKE HOME MESSAGE

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## • DFR de-escalates

## Transparency

# DFR will make <u>EVERYONE</u> safer

# Thank You

#### **Sergeant Dustin Bruzee**

CHULA VISTA

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