

The background features abstract geometric shapes in various shades of blue, including light blue, medium blue, and dark blue, creating a modern and professional look.

# Sunnyvale Department of Public Safety

POST SIMULATOR

# POST Simulator Proposal

## VR-DT

- ▶ Provide free of charge VR-DT.
- ▶ Must provide training to neighboring LEs
  - ▶ Course meets requirements under SB230
  - ▶ Will cover costs for train the trainer
  - ▶ Need to provide three trainers (Force Options per POST)
  - ▶ Course meets PSP for Tac Com (savings for Agencies)
  - ▶ Five-year contract (length of the warranty)
  - ▶ No fixed number of classes to provide (flexible)
  - ▶ Possibly 25 per time

# What is VR-DT?

- ▶ Virtual Reality - Decisions And Tactics
- ▶ Benefits?
  - ▶ OISs
  - ▶ Decision making
  - ▶ Better performance under stress
- ▶ ICAT compatible?
- ▶ Future POST requirement and PSP?
- ▶ Potentially 4 to 8 hrs this training cycle (2021-2022).
- ▶ Convenience for line personnel

# Meggitt Training Systems

- ▶ Oct 2 rebranded as InVeris Training Solutions
- ▶ Leader in providing integrated and virtual weapons.
- ▶ Provided services to US Army, Marine Corp, and LEs.
- ▶ Contracts with Canada, Australia,

# WEAPONS OPTIONS

- ▶ **Pistols**
  - ▶ M9, Glock Full size, Glock Compact, S&W M&P, SIG P320, SIG 226, and 1911 Full size.
- ▶ **Tasers**
  - ▶ X26P & X2
- ▶ **OC Spray**
  - ▶ MK3/4
- ▶ **Rifles**
  - ▶ M4
- ▶ **Shotguns**
  - ▶ 870
  - ▶ 500/590
- ▶ **Flashlight**
  - ▶ Stinger LED

# MEGGITT VR

- ▶ Goal is to provide additional capabilities to an existing training methodology. POST & ICAT.
- ▶ Comprises of three distinct levels and / or emphasis.
  - ▶ Marksmanship application
  - ▶ Judgmental application
  - ▶ Collective application

# REALISTIC IMAGERY



# Virtual Environment Day





# Virtual Environment Night



# Virtual Environment Interior



# Virtual Environment Interior



# Environments & Scenarios

- ▶ **Generic LE Environments**
- ▶ Office
- ▶ School (Entry and single hall with classroom)
- ▶ Streets(Rural, Highway, City)
- ▶ Houses -Outside and Inside
- ▶ Park and Picnic area
- ▶ Jail/Prison block
- ▶ 3D scan any specific location within your jurisdiction

# Environments & Scenarios

- ▶ **Future Environments**
- ▶ Apartment -Hallway to inside (Future)
- ▶ Motel (Future)
- ▶ Courtroom (Future)
- ▶ Church (Future)
- ▶ Mall (Future)
- ▶ Movie Theater (Future)
- ▶ Club/Bar/Restaurant/Dinner (Future)

# Environments & Scenarios

- ▶ **Scenarios within Environments**
- ▶ Strategic communications
- ▶ Crisis intervention / Hostage negotiations
- ▶ De-Escalation Training
- ▶ Crisis Intervention Training
- ▶ Use of Force Training
- ▶ Traffic Stop Training
- ▶ Communication Skills Training
- ▶ Mental Illness Training
- ▶ Active Shooter Training
- ▶ Ambushes Training
- ▶ Domestic Disturbance call
- ▶ Court and Jail disturbance
- ▶ Suicidal Neighbor
- ▶ Domestic Violence Training
- ▶ Less lethal device training
- ▶ Active shooter response
- ▶ Close quarters tactics training (basic)

# LAYOUTS



# Proposed System





# VR-DT Head Unit



# VR Benefits

- ▶ VR can result in upwards of 80% retention rate after one year of a training.
- ▶ Training time is more efficient. Time to learn a process is faster with less errors. Translates to cost savings for overall training needs.
- ▶ VR is able to increase retention, supplement traditional instruction and simulate real-life scenarios. Provides a higher level of immersion when providing complex training and equipment.
- ▶ VR has been found to enhance empathy and emotion during training which improves information retention.

# Ancillary Uses & Benefits

- ▶ Citizen's Academy
- ▶ City Leadership
- ▶ Transparency
- ▶ Legitimacy
- ▶ Provides platform to showcase a Department's training

# SET UP / FOOT PRINT

- ▶ VR-DT
- ▶ Is a portable unit that breaks down easily
- ▶ Can be used in a small to large rooms
- ▶ Sizes range from:
  - ▶ 10x10
  - ▶ 20x20
  - ▶ 30x30
  - ▶ Mixed 15x20

# De-Brief

- ▶ Students can review the scenario and their performance on the screen itself.
- ▶ UOF trainers can provide constructive feedback on the student's performance at this time.
- ▶ Provides a platform to re-emphasize positive performance and stated goals.
- ▶ Opportunity to re-emphasize Department's core values.

# Bay Area & Nor Cal Agencies

- ▶ Several Bay Area LE Agencies have joined the program and have received the unit.
- ▶ ACSO
- ▶ CHP (North)
- ▶ Contra Costa County SO
- ▶ San Francisco PD
- ▶ San Jose PD
- ▶ South Bay Regional Training Center
- ▶ Vacaville PD

# STATE WIDE AGENCIES

- ▶ Alameda County Sheriff's Office
- ▶ Allan Hancock Community College
- ▶ Butte Community College
- ▶ Commission on Peace Officer Standards and Training
- ▶ California Highway Patrol (North)
- ▶ California Highway Patrol (South)
- ▶ Clovis Police Department College of the Redwoods
- ▶ College of the Siskiyous
- ▶ Contra Costa County Sheriff's Office
- ▶ Del Norte County Sheriff's Office
- ▶ Fresno Police Department Regional Training Center
- ▶ Gardena Police Department
- ▶ Imperial County Sheriff's Office
- ▶ Kern County Sheriff's Office L
- ▶ Lassen County Sheriff's Office
- ▶ Los Angeles Police Department
- ▶ Los Angeles County Sheriff's Department
- ▶ Mendocino County Sheriff's Office

# STATE WIDE AGENCIES

- ▶ Modesto Police Department
- ▶ Monterey County Sheriff's Office
- ▶ Orange County Sheriff's Department
- ▶ Palm Springs Police Department
- ▶ Placer County Sheriff's Office
- ▶ Placerville Police Department
- ▶ Pomona Police Department
- ▶ Redding Police Department
- ▶ Rio Hondo College Training Center
- ▶ Riverside County Sheriff's Department
- ▶ Rocklin Police Department
- ▶ Sacramento County Sheriff's Office
- ▶ Sacramento Police Department
- ▶ Sacramento Regional Public Safety Training Center
- ▶ San Bernardino County Sheriff's Department
- ▶ San Diego Miramar College
- ▶ San Francisco Police Department
- ▶ San Jose Police Department
- ▶ Santa Monica Police Department



# STATE WIDE AGENCIES

- ▶ Santa Rosa Junior College Public Safety Training Center
- ▶ Sonora Police Department
- ▶ South Bay Regional Public Safety Training Center
- ▶ South Lake Tahoe Police Department
- ▶ Stanislaus County Sheriff's Office Regional Training Center
- ▶ Tulare-Kings County Peace Officer Training Academy
- ▶ Vacaville Police Department
- ▶ Ventura County Criminal Justice Training Center
- ▶ Ventura Police Department
- ▶ Williams Police Department

# Current Status

- ▶ June 2021
  - ▶ POST ready to move on next purchase
  - ▶ May not be offering after this last order
  - ▶ Was a delay due to change in company
  - ▶ Implementation moved to Summer / Fall 2021
  - ▶ Possible UOF changes possibly this training cycle
  - ▶ Latest advisement May 2021 software updates
  - ▶ To go fully live on May 24<sup>th</sup>

# POST Press Release

- ▶ <https://fox40.com/news/local-news/sacramento-pd-using-virtual-reality-as-training-tool-for-dangerous-situations/>