PUBLIC SAFETY CAMERAS
LOCATION ANALYSIS

FACILITIES & TRANSPORTATION MEETING
MARCH 4, 2020
ANALYSIS

- Data driven approach
  - Crime data
  - Arrest data
    - Impact of regional crime
    - Deployment of resources
  - Investigative assistance
- Geography of city
  - Main thoroughfares
  - Ingress & egress
- Feasibility study Engineering & Traffic
  - Locations of Wifi accessibility
CRIME DATA

- FBI UCR (Universal Crime Reporting) Data
- Homicide, Rape, Robbery, Aggravated Assault, Burglary, Larceny, Motor Vehicle Theft & Arson
- 3 years of data
  - January 1, 2017- December 31, 2019
- Density map (Hot spot map)
  - Geographical representation of reported crime
Density Map UCR Crime Data
Jan. 1, 2017- Dec. 31, 2019

• Density Map (Hot Spot Map)

• Helps to identify areas of clustered data to help discern areas of higher concentration (density)

• Allows us to visualize crime data which helps to see areas of higher reports of crime reported under UCR
  • Areas with no data points are transparent
  • Areas with small number of incidents are shaded lightly and becomes darker as the density of data points increases
  • Red and orange are higher levels of density (reported crime)
ARREST DATA

- Arrest data for Robbery & Burglary
  - Regional & Community Impact

- Analyzed to determine where majority of arrestees are from
  - San Leandro residents vs. Non San Leandro resident
  - Deployment of resources

Findings:

- Over 5 year period only 20% of arrestees listed San Leandro as city of residence at time of arrest

- Likely suspects will have to flee the city after committing crime via main thoroughfare
Robbery Arrest data

- Robbery SL Resident
- Robbery Non-SL Resident

Robbery data based upon arrestees for UCR crime code 120
Burglary Arrest data

Burglary data based upon arrestees for UCR crime code 220
INVESTIGATIVE ASSISTANCE

Locations where major investigations have taken place where cameras were crucial in solving cases

- Kidnapping
- Rape
  - BART PD cameras crucial in helping solving a stranger case
- Homicides
- Shootings
- Robberies
  - Series
  - Home invasion robberies
### Proposed Public Safety
Ten (10) Camera Locations

<table>
<thead>
<tr>
<th>Ranking</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Durant Ave. &amp; Bancroft Ave. OR Bancroft Ave. &amp; Dutton Ave.</td>
</tr>
<tr>
<td>2</td>
<td>MacArthur Blvd. &amp; Superior Ave.</td>
</tr>
<tr>
<td>3</td>
<td>E 14th St. &amp; Sybil Ave.</td>
</tr>
<tr>
<td>4</td>
<td>Monarch Bay Dr. &amp; Mulford Point Dr.</td>
</tr>
<tr>
<td>5</td>
<td>Fargo Ave. &amp; Washington Ave.</td>
</tr>
<tr>
<td>6</td>
<td>Estudillo St. &amp; MacArthur Blvd.</td>
</tr>
<tr>
<td>7</td>
<td>Lewelling Blvd. &amp; Hesperian Blvd.</td>
</tr>
<tr>
<td>8</td>
<td>Washington Ave &amp; Hesperian Blvd.</td>
</tr>
<tr>
<td>9</td>
<td>Fairway St. &amp; Merced St.</td>
</tr>
<tr>
<td>10</td>
<td>Davis St. &amp; Timothy St (Westgate Parking lot)</td>
</tr>
</tbody>
</table>

- **Phase 1** – Traffic & Engineering Cameras (upgrade in process)
- **Phase 2** – Proposed camera locations
Connectivity And Integration

- 3 Sites are serviceable by existing City Fiber;
- 7 Sites are recommended to use High Speed Wireless Connectivity utilizing County Tower;
- Cameras will be fully integrated into City Video Management Sever (VMS) installed at City Hall;
- Governed by under Administrative Use Policy
In 2019 the City Manager executed an Administrative Policy #2019-01;

- Video will be retained for a maximum of fifteen (15) days, unless part of a civil or criminal investigation;

- Access shall be limited to staff with immediate and primary needs, will be logged, and must be approved by Department Heads;

- Recordings and images will not be actively monitored and will only be checked in the event the City has a need, or probable cause, or reasonable suspicion to review recordings;

- Monitoring individuals based on protected class or characteristics including but not limited to race, gender, sexual orientation, disability or other protected classification is strictly prohibited.
PHASE 2 BUDGET ESTIMATES

- Budget Target Total: Approx. $124k One-time cost; Approx. $10k/yr annual maintenance
- Wireless Infrastructure Build Out:
  - High Speed Wireless Communication Service to 7 Locations (3 Locations served by existing City Fiber)
  - Camera Installation at Ten Intersections
  - Cost: Approx. $52,000
- Camera Integration with Video Management Server:
  - Camera Configuration Services
  - Cost: Approx. $52,000
- Traffic Operations Center Network Upgrades*
  - Upgrade Switches from 100Mhz to 1Gbps (note: includes Phase 1 cameras)
  - Cost: Approx. $20,000
  - *Complete Upgrade of TOC Network Infrastructure Recommended in Future
PHASE 2 BUDGET SOURCES

- IMS 688 Fund Balance: $62,000
- SLPD Frontline (SLESF) Fund 150 Fund Balance: $62,000
- Annual Maintenance
  - IT Operating Budget; $10,000/yr
APPENDIX

TECHNICAL DESIGN RECOMMENDATIONS

NOTE: PRELIMINARY ANALYSIS TO EVALUATE VIABILITY OF CONNECTIVITY OPTIONS AT PROPOSED LOCATION
Notes: No Traffic intersection; Line of site from City light poles

Connection Recommended: Wireless
2. SUPERIOR & MACARTHUR

Notes: No Traffic intersection; Limited Line of site from City light pole; Potential tree foliage

Connection Recommended: Wireless, may need pole extension or cellular; Roundabout new pole
3. E 14TH & SYBIL

**Notes**: CalTrans intersection; No fiber, but splice box at parcel 1877; great line of site to County Tower

**Connection Recommended**: Wireless
4. MONARCH & MULFORD POINT

**Notes**: Line of site from City double mast Poles; a little off the intersection

**Connection Recommended**: Wireless
Notes: City fiber, switch in traffic cabinet; Cat6 cable needs to be pulled to City Pole

Connection Recommended: Fiber
6. ESTUDILLO & MACARThUR

Notes: Traffic intersection, No Fiber; Line of site from Juana / Valero City Poles

Connection Recommended: Wireless w/ Relay from Valero Pole OR camera at Valero Pole
Notes: Excellent Line of Site on Walmart side from City Poles; a little off the intersection

Connection Recommended: Wireless
8. WASHINGTON & LEWELLING

Notes: City fiber, switch in traffic cabinet; Cat6 cable needs to be pulled to City Pole
Connection Recommended: Fiber
9. FAIRWAY & MERCED

**Notes**: City fiber, switch in traffic cabinet; Cat6 cable needs to be pulled to City Pole

**Connection Recommended**: Fiber
Notes: CalTrans intersection, no City poles on Davis nearby; Poles on Timothy towards Westgate and fiber at Westgate & Timothy intersection

Connection Recommended: Wireless from Timothy