PUBLIC SAFETY COMMITTEE AGENDA

Friday, December 11, 2009
1 to 3 p.m.
SANDAG Board Room
401 B Street, 7th Floor
San Diego

AGENDA HIGHLIGHTS

• OVERVIEW OF THE COUNTY’S REGIONAL COMMUNICATIONS SYSTEM

• NOTIFICATION OF TRAFFIC LANE CLOSURES TO FIRST RESPONDERS

• UNDERSTANDING TRANSIT’S IMPACT ON PUBLIC SAFETY

PLEASE TURN OFF CELL PHONES DURING THE MEETING

YOU CAN LISTEN TO THE PUBLIC SAFETY COMMITTEE MEETING BY VISITING OUR WEB SITE AT WWW.SANDAG.ORG
Welcome to SANDAG. Members of the public may speak to the Public Safety Committee on any item at the time the Committee is considering the item. Please complete a Speaker’s Slip, which is located in the rear of the room, and then present the slip to Committee staff. Also, members of the public are invited to address the Committee on any issue under the agenda item entitled Public Comments/Communications/Member Comments. Speakers are limited to three minutes. The Public Safety Committee may take action on any item appearing on the agenda.

This agenda and related staff reports can be accessed at www.sandag.org under meetings on SANDAG’s Web site. Public comments regarding the agenda can be forwarded to SANDAG via the e-mail comment form also available on the Web site. E-mail comments should be received no later than noon, two working days prior to the Public Safety Committee meeting.

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ITEM #

1. ROLL CALL

+2. APPROVAL OF THE NOVEMBER 13, 2009, MEETING MINUTES APPROVE

3. PUBLIC COMMENTS/COMMUNICATIONS/MEMBER COMMENTS

Members of the public will have the opportunity to address the Public Safety Committee (PSC) on any issue within the jurisdiction of the Committee that is not on this agenda. Speakers are limited to three minutes each and shall reserve time by completing a “Request to Speak” form and giving it to the Clerk prior to speaking. Committee members also may provide information and announcements under this agenda item.

CHAIR’S REPORT (4)

4. UPDATE ON REGIONAL EFFORTS TO ADDRESS GRAFFITI INFORMATION
   (Pam Scanlon)

On November 20, 2009, upon consideration of the PSC’s request, the SANDAG Board of Directors directed ARJIS staff to determine how Graffiti Tracker could be expanded across the region either by leveraging an existing competitively procured contract or via a sole source procurement if justified. Staff has begun this effort and will report back to the PSC in early 2010 with the results.

REPORT ITEMS (5 through 9)

5. REPORT FROM CHIEFS'/SHERIFF'S MANAGEMENT COMMITTEE INFORMATION
   (Chief Alan Lanning, Chiefs'/Sheriff's Management Committee)

Chief Alan Lanning will present on the December 2, 2009, meeting of the Chiefs'/Sheriff's Management Committee.
ITEM # | RECOMMENDATION
--- | ---
46. | FISCAL YEAR (FY) 2010 BUDGET AND OVERALL WORK PROGRAM AMENDMENT: ACCEPTING ADDITIONAL FUNDS FOR PROJECT SAFE NEIGHBORHOODS (PSN) (Cynthia Burke)

Since 2003, a national effort has been coordinated through the local U.S. Attorney’s Office to target gun- and gang-related violence. This effort, called PSN, has involved a comprehensive strategy that includes coordinated regional response by law enforcement, the involvement of community partners, a media campaign, as well as the analysis of gun-crime statistics. In June 2009, the Board of Directors approved SANDAG assuming the role of fiscal agent for this effort, executing a Memorandum of Understanding between SANDAG and the Southern District of California’s PSN Task Force, and accepting $669,866 in funding. Since that time, additional funding was awarded by the U.S. Department of Justice (DOJ) in the amount of $118,760 and it is anticipated that this may occur on an annual basis for the foreseeable future. The PSC is asked to recommend that the Board of Directors approve an amendment to the FY 2010 Budget and Overall Work Program to accept this additional funding and authorize the Executive Director to accept future funding that the U.S. DOJ provides for the PSN program during this budget year.

7. | OVERVIEW OF THE COUNTY’S REGIONAL COMMUNICATIONS SYSTEM (Sue Willy, San Diego County Sheriff’s Department)

In 2005, one of the four priority areas identified through the PSC’s regional public safety needs assessment involved communication and interoperability. One regional communications effort is the County of San Diego’s Regional Communications System (RCS), a regional radio system for public safety/service agencies in San Diego and Imperial counties. Sue Willy, RCS Manager, will provide an overview of the RCS, including the history, the status of the current system, and the Participating Agency Agreement, as well as potential challenges in the future and strategies that are currently planned to address them.

8. | NOTIFICATION OF TRAFFIC LANE CLOSURES TO FIRST RESPONDERS (Bill Valle, Chief Deputy Director of Maintenance and Operations, Caltrans District 11)

On a daily basis, information is shared with first responders regarding possible traffic lane closures. Bill Valle will provide an overview of this process and solicit input regarding how current procedures could possibly be improved in the interest of public safety.
ITEM #  

-9. UNDERSTANDING TRANSIT'S IMPACT ON PUBLIC SAFETY  
   (Kristen Rohanna)  
   
   SANDAG recently completed a study analyzing public transit’s impact on neighborhood safety. The study compared the crime rates between similar neighborhoods with and without a transit station (COASTER or Trolley), as well as crime rates before and after the implementation of the Green Line Trolley extension. Additional analyses were also included to determine if station design or features of the surrounding areas were related to the amount of crime found near a station. An overview of this study and the results will be provided.

10. UPCOMING MEETINGS  

   The next meeting of the PSC is scheduled for Friday, January 15, 2010, at 1 p.m.

11. ADJOURNMENT  

   + next to an item indicates an attachment
PUBLIC SAFETY COMMITTEE DISCUSSION AND ACTIONS
Meeting of November 13, 2009

1. ROLL CALL

Chair Mark Lewis (East County) called the Public Safety Committee (PSC) meeting to order at 1 p.m. Roll call was taken and a quorum was present. See last page for attendance.

2. APPROVAL OF MEETING MINUTES

Upon a motion by Councilmember Teresa Barth (North County Coastal) and a second by Sheriff William D. Gore (San Diego Sheriff), the minutes of October 16, 2009, were unanimously approved.

3. PUBLIC COMMENTS/COMMUNICATIONS/MEMBER COMMENTS

There were no public comments.

REPORTS

4. REPORT FROM CHIEFS'/SHERIFF'S MANAGEMENT COMMITTEE (INFORMATION)

Chief Alan Lanning (County Chiefs'/Sheriff’s Association) gave an update on the Chiefs'/Sheriff’s Management Committee meeting held on November 3, 2009. The next scheduled meeting of the Chiefs'/Sheriff’s Management Committee is Wednesday, December 2, 2009.

5. PUBLIC SAFETY-RELATED GOALS FOR THE 2010 LEGISLATIVE PROGRAM (RECOMMEND)

Supervisor Greg Cox (County of San Diego) requested that the public safety-related goals be revised to include 211 services.

Upon a revised motion by Mayor Pro Tem Bob Campbell (North County Inland) and a second by Councilmember David Roberts (North County Coastal), the PSC recommended that the Executive Committee include the public safety-related goals discussed in the report in the 2010 Legislative Program along with the inclusion of 211 services. Goal 16 B in the 2010 Legislative Program will be revised as follows: Support funding opportunities for prevention and intervention programs that address substance abuse and youth and gang violence, and for public safety initiatives including 211 services.
6. REGIONAL eWATCH PHASE 1 DEMONSTRATION (INFORMATION)

Crime Analysis Manager Kurt Smith, San Diego Sheriff’s Department, gave a PowerPoint presentation on the development of Regional eWatch, a no-cost subscription service that allows citizens to register up to three addresses within San Diego County and receive notification of property crimes. This pilot project was funded with $75,000 through the Urban Areas Security Initiative (UASI) grant.

7. ENTERPRISE ARJIS: AN OVERVIEW AND UPDATE (INFORMATION)

ARJIS Executive Director Pam Scanlon and Bob Kaelin (MTG Consultant) gave a PowerPoint presentation with an update and overview of activities on Enterprise ARJIS during the first quarter of FY 2010.

8. DRAFT SANDAG PUBLIC PARTICIPATION PLAN (DISCUSSION)

Ms. Anne Steinberger (SANDAG) presented an overview of the outreach process and the solicitation of additional input from committee members on the Draft SANDAG Public Participation Plan.

9. UPCOMING MEETINGS (DISCUSSION)

The next meeting of the PSC is scheduled for Friday, December 11, 2009.

10. ADJOURNMENT

The meeting was adjourned at 1:45 p.m.

Attachment: Confirmed Attendance, November 13, 2009
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<tr>
<th>JURISDICTION</th>
<th>NAME</th>
<th>MEMBER/ALTERNATE</th>
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<td>Hon. Mark Lewis</td>
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<td>Hon. Jillian Hanson-Cox</td>
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<td>Hon. Teresa Barth</td>
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<td>Bill Burke</td>
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**ADVISORY MEMBERS**

| County Public Safety | Mack Jenkins | Member | NO |  |
| Department of Defense | Kim Broderick | Alternate | YES |  |
| Federal Public Safety | Captain Eric Patten | Member | NO |  |
|             | Colonel Nicholas Marano | Alternate | NO |  |
|             | Keith Sloter | Member | NO |  |
|             | Anthony Cerone | Alternate | NO |  |
|             | Karen Hewitt | Member | NO |  |
|             | George Venables | Alternate | YES |  |
| Southern CA Tribal Chairmen’s Association (SCTCA) | Carlene Chamberlain | Member | YES |  |
|             | Stephanie Spencer | Alternate | NO |  |
FISCAL YEAR (FY) 2010 BUDGET AND OVERALL WORK PROGRAM
AMENDMENT: ACCEPTING ADDITIONAL FUNDS FOR PROJECT SAFE NEIGHBORHOODS (PSN)

Introduction

Since 2003, a national effort has been coordinated through the local U.S. Attorney's Office to target gun- and gang-related violence. This effort, called PSN, has involved a comprehensive strategy that includes coordinated regional response by law enforcement, the involvement of community partners, a media campaign, as well as the analysis of gun-crime statistics. In June 2009, the Board of Directors approved SANDAG assuming the role of fiscal agent for this effort, executing a Memorandum of Understanding between SANDAG and the Southern District of California's PSN Task Force, and accepting $669,866 in funding. Since that time, additional funding was awarded by the U.S. Department of Justice (DOJ) in the amount of $118,760 and it is anticipated that this may occur on an annual basis for the foreseeable future.

Discussion

As the PSN fiscal agent, SANDAG is responsible for participating on the PSN Task Force, entering into contracts with each entity (that is selected by the PSN Executive Committee) responsible for carrying out portions of the PSN Task Force strategy, preparing required federal reports, drawing down federal funds as needed, making payments to contractors, and working with federal monitors or auditors as needed. In exchange for completing these tasks, SANDAG is compensated for all costs incurred up to 10 percent of all grant funds that are managed. Attachment 1 shows the additional funds that would be available in FY 2010, increasing the total budget for this effort to $788,626.

KURT KRONINGER
Director of Technical Services

Attachment: 1. Program Work Element FY 2010 Budget - Project Safe Neighborhood Fiscal Agent

Key Staff Contact: Cynthia Burke, (619) 699-1910; cbu@sandag.org
WORK ELEMENT: 23453.2  PROJECT SAFE NEIGHBORHOOD FISCAL AGENT  
FY 2010 BUDGET: $788,626  
AREA OF EMPHASIS: MODELING & RESEARCH  

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Federal Other: U.S. Department of Justice  
Total Staff Hours: 7,603  

**OBJECTIVE**

Serve as the Fiscal Agent on behalf of the Project Safe Neighborhoods (PSN) Task Force for the Southern District of California (SDCA) at the request of the U.S. Attorney's Office for the SDCA).
PREVIOUS ACCOMPLISHMENTS

SANDAG has been involved in PSN since its implementation in 2003, first as the media/outreach partner and subsequently as the research partner.

Project Manager: Cynthia Burke
Committee(s): Public Safety Committee
Working Groups: None

PRODUCTS, TASKS, AND SCHEDULES

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<th>TASK NO.</th>
<th>PERCENT EFFORT</th>
<th>TASK / PRODUCT DESCRIPTION(S) / SCHEDULE</th>
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| 1        | 15%            | Task Description: Participate on the PSN Task Force  
Product: N/A  
Completion Date: 06/30/10 |
| 2        | 20%            | Task Description: Enter into contracts with entities selected by the PSN Task Force and oversee any contracts entered into.  
Product: Contracts and relevant documentation  
Completion Date: 06/30/10 |
| 3        | 35%            | Task Description: Draw down federal funds as needed, account for all funds awarded, make payments to each contractor, and work with federal monitors as needed.  
Product: Accounting documentation  
Completion Date: 06/30/10 |
| 3        | 30%            | Task Description: Prepare required federal reports.  
Product: Reports submitted to the Department of Justice  
Completion Date: 06/30/10 |

FUTURE ACTIVITIES

Future activities are contingent on whether or not additional funds are allocated.
UNDERSTANDING TRANSIT'S IMPACT ON PUBLIC SAFETY

**Introduction**

SANDAG recently completed a study analyzing public transit's impact on neighborhood safety. The study compared the crime rates between similar neighborhoods with and without a transit station (COASTER or Trolley), as well as crime rates before and after the implementation of the Green Line Trolley extension. Additional analyses were also included to determine if station design or features of the surrounding areas were related to the amount of crime found near a station. An overview of this study and the results will be provided.

**Discussion**

With funding from a Transportation Planning Grant from Caltrans, SANDAG conducted a study to determine if the presence of a transit station (COASTER or Trolley) affected the amount of crime in a neighborhood. This analysis included comparing similar neighborhoods with and without a transit station and comparing crime rates before and after the implementation of the Green Line Trolley extension. Crime Prevention Through Environmental Design (CPTED) station features also were analyzed to determine if there was a relationship between station design and/or its surrounding area and the amount of crime at and around a station.

The results of this study suggested that the mere presence of transit does not impact the amount of crime in its surrounding community. Specifically, analyses revealed that there were no statistically significant differences in the amount of property or violent crime between neighborhoods with a transit station and those without, and that crime did not increase in the areas around the Green Line Trolley. Further, stations that were not near retail, convenience stores, major employment centers, and high pedestrian and auto traffic had fewer crimes, on average, and stations that were surrounded by wooded areas had fewer crimes on average.

KURT KRONINGER  
Director of Technical Services

Key Staff Contact: Kristen Rohanna, (619) 699-6918; kroh@sandag.org
**Recommendation:**

The PSC is asked to recommend that the Board of Directors approve an amendment to the FY 2010 Budget and Overall Work Program to accept this additional funding and authorize the Executive Director to accept future funding that the U.S. DOJ provides for the PSN program during this budget year.
SAN DIEGO COUNTY/IMPERIAL COUNTY REGIONAL COMMUNICATIONS SYSTEM

RCS

OVERVIEW AND FUTURE CHALLENGES

Presentation for SANDAG Public Safety Committee

Sue Willy, RCS Manager
December 11, 2009

RCS Overview

- Public safety communications system supporting San Diego County and Imperial County
  - 800 MHZ Trunked Voice Radio System, Motorola Smart Zone 3.0
  - Microwave Radio Network - transport system
- Serves more than 200 agencies/departments including 18 dispatch centers and supports more than 20,000 radios
- RCS users within San Diego County include:
  - 17 incorporated cities (all except City of San Diego): Police, fire, and other city departments
  - County of San Diego Departments: Sheriff’s Department, District Attorney’s, Probation, and other departments
  - County fire protection districts; other special districts
RCS Overview

- RCS Users within the Imperial County include:
  - 8 incorporated cities
  - Imperial County Departments: Sheriff, public works, etc.
  - Variety of special districts

- Other agencies using RCS:
  - Tribal
  - State: Caltrans, CHP, Cal-Fire
  - College/university police departments
  - School districts (Security and Transportation)
  - Transit (MTS/NCTD)
  - Federal: Federal Fire, FBI, Border Patrol
  - Harbor Police and San Diego Airport Authority

History of the RCS

- How RCS began:
  - 1989 Board of Supervisors (BOS) directs County CAO to study public safety communications requirements for the County
  - 1991 User Group formed to study requirements of the region and concept of a regional system to replace the County system begins to receive serious consideration
  - 1992 BOS directed CAO to begin planning, designing, and funding a new regional public safety radio communications system
  - 1995 RCS Participating Agency Agreement approved
  - 1995 Initial funding approved by BOS
History of the RCS

- 1998 System becomes operational
- 1999 Original system completed

**Significant Advantages of Regional System:**
- Increased resources: Radio frequencies could be shared
- Shared infrastructure and costs
- Economies of scale – low user fees
- Improved interagency communications (Interoperability)

Participating Agency Agreement

- March 1995 Partnership Agency Agreement is signed by the County and partnering cities and agencies
  - Partnering agencies became “RCS Members” and shared in infrastructure costs
  - Established "fair share" buy in costs for partners based on parcels and benefit units
  - Established ongoing operations and maintenance fees
  - Each partnering agency has a seat on the “Member Board” which meets annually and approves the budget
  - Established the RCS Board of Directors (BOD) to administer the RCS in cooperation with and approval from the BOS
Participating Agency Agreement

- 13 member BOD made up of Chief / Department Head level fire, law, public service representing their peer agencies:
  - San Diego County Representation (8 of the 13 members):
    - County Office of Emergency Services
    - Sheriff’s Department
    - Municipal Police
    - Municipal Fire
    - Fire Districts
    - North County Dispatch (JPA)
    - Heartland Communications Facility Authority (JPA)
    - School Districts
  - Imperial County Representation: (4 of the 13 members)
    - Imperial Valley Emergency Communications Authority (JPA)
  - Caltrans Representation: (1 of the 13 members)

BOD administers the RCS through staff supplied by the County (Sheriff’s Wireless Services Division)
BOD establishes policies and recommends approval of new customers and partners
BOD meets the 1st Thursday of each month (1:30 pm County Annex corner of Ruffin Rd and Clairemont Mesa Blvd. DPLU Hearing Room B.)
Participating Agency Agreement is a 15 year contract meant to cover the life expectancy of the system - does not address planning for or funding system replacement
Infrastructure – Shared Costs

- Initial cost of the RCS backbone infrastructure was estimated at $28M; partner one time buy-in costs were calculated based on $28M
  - Actual backbone infrastructure cost was $39.5M
- County established County Service Area (CSA) 135
  - Established in 1995 as the vehicle for collection and payment of infrastructure and subscriber costs for RCS from incorporated cities and San Diego County
  - After passage of Proposition 218 in Nov 1996, 2/3 voter approval required in each jurisdiction
  - CSA 135 placed on the ballot in June 1998 but passed in only 3 incorporated cities (Poway, Del Mar, Solana Beach)

Without a CSA, partners had to finance their buy-in, some paid all at once, most financed through County

- In addition to infrastructure buy-in, agencies had to purchase subscriber radios - at a cost of $4,000 each
- BOS established an RCS Trust Fund in 2001 at the request of the RCS BOD to assist in the ongoing enhancement and eventual infrastructure replacement
  - Any excess revenue at end of fiscal year is deposited to fund
  - Infrastructure buy in payments from agencies added after original agreement deposited to fund
  - County has also deposited a number of infrastructure payments from initial partners to the fund
  - Balance today is $12M
Success Story

- RCS is truly a regional success story
- First of its kind regional public safety system of this size in the western states
- SD Region has gained significant amount of notoriety from the success of regional partners working together to build the RCS
  - Reputation improves regional grant opportunities
  - Other jurisdictions throughout the nation have worked to model the San Diego County/Imperial County RCS success

Success Story

- BOD has been very successful in the administration of the RCS
- BOS has been a strong supporter of the RCS
- System performance has been outstanding - very few complaints
- Interoperability is at the highest level ever in the region
RCS Enhancement

- 2003 Wildfire response revealed areas of the RCS that effectively supported day-to-day operations but were not designed to support the call volume experienced during major disaster response operations.
- In 2005, the BOS approved a $22.3M RCS enhancement project which significantly improved the system in the Eastern and Northern areas of the County.
  - County funded $12.7M
  - County used $4.5M in grant funding from State Homeland Security Grant Program
  - Remaining $5.1M provided from RCS Trust Fund

Radio user 'lack of knowledge' was also identified as a factor that contributed to system degradation during the 2003 Wildfires.

- RCS training program established in 2005 and to date, more than 4,500 users have been trained - very positive feedback from RCS agencies.
- Results of system enhancement and training:
  - System performance review after the 2007 wildfires showed a 71% system improvement between 2003 and 2007 fires measured by “system busies” (number and duration)
RCS Today

- RCS is managed, operated, and maintained by the Wireless Services Division of the SD County Sheriff's Department
  - The Sheriff's Department took over the Wireless Services Division after the County dissolved the Information Services Department - as the single biggest user of the RCS (number of radios), the Sheriff's Department had a vested interest in the successful operation of the RCS

- Operations and Maintenance Costs
  - RCS Annual budget of $5.6 Million
  - Operating costs offset by charging a per radio fee for use of the network (Network Operating Cost “NOC” fee)

RCS Today

- RCS BOD approves the rate annually in March for next fiscal year based on budget approved by the RCS Member Board
- Current fee is $26.50 per voice radio per month for all member (partner) agencies. The NOC fee has been $26.50 since 2002
- Fee is $75.07 per voice radio for all customer agencies - $26.50 is NOC and remaining is for infrastructure
- Agencies may join the RCS as “customers” instead of partners - requires no initial buy in fee but agencies pay a monthly infrastructure fee per radio in addition to operation and maintenance fee
- Customer infrastructure payments and any excess revenue are deposited to the RCS Trust Fund
Agreement Extension

- Original Participating Agency Agreement will expire March 7, 2010
- Based on the recommendation of the RCS BOD, the County BOS approved a three year extension to the Participating Agency Agreement
- Extension of the existing agreement is needed until a new agreement is written to address a follow-on/replacement system, associated costs, new business plan, and funding
- Three year extension better aligns the agreement expiration with the official system end of life
- Status: 80% of partner agencies have signed the extension

Challenges

- RCS must be upgraded or replaced to provide regional public safety communications in the future
  - 800 MHz Trunked System End of Life - 15 Year Life Expectancy
    - Motorola SmartZone 3.0 System will not officially be supported beyond December 2012
  - Microwave Network End of Life
    - Varying degrees of life expectancy throughout system - components need to be assessed for future use
  - At or near capacity
    - No room for growth - both 800MHz system and microwave network reaching capacity
    - Dispatch centers also have limited growth capacity due to RCS capacity and technology limitations
Planning

The time to plan is now - Sheriff’s Department will work with the BOD and stakeholders to:

- Identify regional needs – business requirements
- Identify appropriate technology and frequency spectrum for system replacement or upgrade
- Develop funding strategies
- Develop new business plan and new agreement
  - Many lessons learned from the past 10 years
  - Opportunity to improve upon the successes of the past

First Steps

Hire an independent telecommunications consulting firm to:

- Assess existing systems and infrastructure (capabilities, limitations, life expectancy, etc)
- Assess future regional requirements for public safety communications
  - Conduct needs assessments with RCS partner agencies
- Research and recommend suitable technologies and spectrum options for system upgrade or replacement
- Develop system replacement/upgrade options and estimated costs
- Assist with the development of funding strategies
First Steps

- Obtain RCS BOD and member agencies participation to establish regional requirements
- Evaluate costs and benefits of proposed solutions
- RCS stakeholders work together to evaluate proposed solutions and finalize recommendations
- Develop and propose new business model
- Develop new participating agency agreement

Current Status

- Consultant proposals under review and vendor selection in progress
- Target January 2010 to have consultant on contract
- 2009 UASI Grant providing $750K for consultant effort – grant also providing $750K to the City of San Diego for similar effort
Questions

???

Contact Information
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San Diego County/Imperial County Regional Communications System
San Diego County Sheriff's Department, Wireless Services Division
How Did We Select Neighborhoods?

- total population
- population density
- ethnicity
- median age
- percent of families below poverty
- income
- educational attainment
- presence of children under the age of 18
- female-headed households
- housing type
- renter-occupied
- proportion zoned industrial
- proportion zoned residential
- proportion zoned commercial
- presence of parking lot
How Did We Select Neighborhoods?

\[ \ln \left( \frac{P(Y = 1)}{P(Y = 0)} \right) = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 = \Gamma \]
How Did We Select Neighborhoods?

\[
\ln(\frac{P(Y = 1)}{P(Y = 0)}) = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \varepsilon
\]

No Significant Differences

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Were There Differences After Transit Stations Were Added?

No, Crime Has Not Increased

Crime rate per 1,000 residents
Surrounding Area is Related to Amount of Crime

- **Stations without:**
  - Visible convenience stores
  - Major employment center surrounding
  - Nearby retail or on-site
  - High vehicle or pedestrian traffic

  ...Had fewer crimes
Conclusions

- Presence of transit station does not increase neighborhood crime
- Neighborhood characteristics tend to influence crime rates