

# OPD Open Crime Data

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# “Scope, Goals, Obstacles”

- Scope: common vocabulary, mutual relevance, job description, ... across participants
  - Who we are
- Goals: identify, prioritize shared objectives
- Obstacles: constraints, anticipating problems, game-changers
- Action items

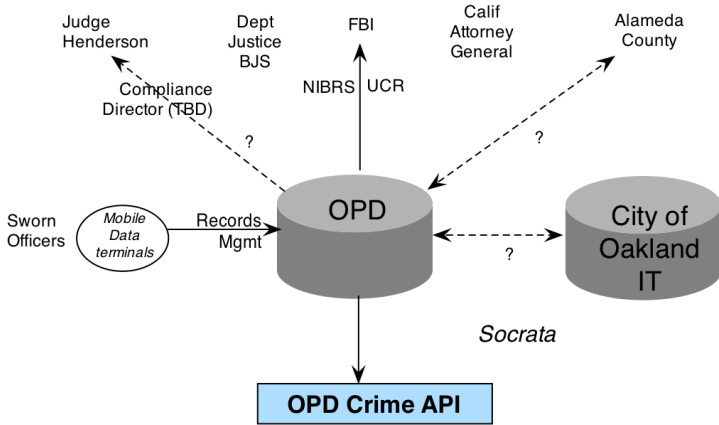
# HIV as elephant



Hanabusa Itcho (1652 - 1724)

- Phenomena bring scientists together, prior to shared language

# Data sharing



Citizen Police  
Review Board  
Complaints  
Mapping  
Application

Weekly  
statistics

*Omega*

crimeTabularDataPublic

CrimeWatch

# External views of Oakland crime

TABLE 1  
JURISDICTIONAL TRENDS  
CRIMES BY CATEGORY  
OAKLAND

| CATEGORY/CRIME              | 2001   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>VIOLENT CRIMES</b>       | 5,330  | 5,661  | 5,613  | 5,151  | 5,692  | 7,599  | 7,604  | 7,905  | 6,793  | 6,267  |
| WILLFUL HOMICIDE            | 84     | 108    | 109    | 83     | 93     | 145    | 119    | 115    | 104    | 90     |
| FORCIBLE RAPE               | 295    | 249    | 268    | 262    | 306    | 306    | 299    | 338    | 326    | 318    |
| ROBBERY                     | 2,125  | 2,452  | 2,474  | 2,190  | 2,672  | 3,534  | 3,470  | 3,323  | 2,898  | 2,917  |
| AGGRAVATED ASSAULT          | 2,826  | 2,852  | 2,762  | 2,616  | 2,621  | 3,614  | 3,716  | 4,129  | 3,465  | 2,942  |
| <b>PROPERTY CRIMES</b>      | 11,874 | 13,222 | 12,455 | 13,310 | 16,045 | 17,020 | 16,510 | 14,299 | 13,519 | 11,978 |
| BURGLARY                    | 3,696  | 4,252  | 4,568  | 4,324  | 5,783  | 5,070  | 4,742  | 4,488  | 4,798  | 4,961  |
| MOTOR VEHICLE THEFT         | 5,520  | 6,259  | 5,511  | 6,877  | 9,017  | 10,549 | 9,968  | 8,085  | 6,542  | 4,644  |
| LARCENY-THEFT OVER \$400    | 2,658  | 2,711  | 2,376  | 2,109  | 1,245  | 1,401  | 1,800  | 1,726  | 2,179  | 2,373  |
| LARCENY-THEFT<br>OVER \$400 | 13,081 | 13,703 | 12,551 | 10,984 | 8,227  | 8,725  | 8,954  | 8,915  | 8,833  | 7,720  |
| \$400 AND UNDER             | 2,658  | 2,711  | 2,376  | 2,109  | 1,245  | 1,401  | 1,800  | 1,726  | 2,179  | 2,373  |
| \$400 AND UNDER             | 10,423 | 10,992 | 10,175 | 8,875  | 6,982  | 7,324  | 7,154  | 7,189  | 6,654  | 5,347  |
| ARSON                       | 328    | 354    | 334    | 266    | 266    | 307    | 287    | 299    | 223    | 163    |

Figure: [http://oag.ca.gov/crime/jt\\_cjcs](http://oag.ca.gov/crime/jt_cjcs)

## Other cities' data

Proposed extensions to OPD's current data **highlighted**

- Denver: Incident\_Id, Offense\_Id, **Offense\_Code (NCIC)**, Offense\_Code\_Extension, **Offense\_Type\_Id (NBIRS)**, Offense\_Category\_Id, **First\_Occurrence\_Date**, **Last\_Occurrence\_Date**, **Reported\_Date**, Incident\_Address, **Geo\_X**, **Geo\_Y**, Geo\_Lon, Geo\_Lat, District\_Id, Precinct\_Id, Neighborhood\_Id, Shape
- Chicago: ID, Case Number, Date, Block, **IUCR**, Primary Type, Description, Location Description, Arrest, Domestic, Beat, District, Ward, Community Area, **FBI Code**, X Coordinate, Y Coordinate, Year, Updated On, Latitude, Longitude, Location
- Baltimore
  - Arrests: Arrest, **Age**, **Sex**, **Race**, Arrestdate, Arresttime, Arrestlocation, Incidentoffense, Incidentlocation, Charge, Chargedescription, District, Post, Neighborhood
  - Victim: Crimedate, Crimetime, **Crimecode**, Location, Description, **Weapon**, Post, District, Neighborhood

## Other cities' data (cont.)

- Philadelphia: Dc\_District, Sector, Dispatch\_Date/Time, Hour, Dc\_Key, Location\_Block, **UCR\_General**, General\_Code, Point\_X, Point\_Y
- Louisville: Crimedataid, Casenumber, Crime, Datereported, Timereported, Address, Zipcode, Division, Incidentbeat, Sector, Beat, Description, Category, City, State, Link, Originaladdress, Incidentdate, Modaddress, Latitude, Longitude
- San Francisco: IncidntNum, Category, Descript, Dayofweek, Date, Time, Pddistrict, Resolution, Address, X, Y, Location
- Urban Strategies Council (2007-11): Apt, Addresstype, Lat, Long, UCR, Statute, Incident, Description, Nature, Exclude, Precision, Bfo, Ca, Pol\_Dist, **Weapon, Gang, Indicators, Violence, Property, Homicide, Assaults, Robbery, Shootings, Burglary, Mv Theft, Rape, Weapons, Drugs, Sex**

# Publishing constraints

- Withheld data
  - *In accordance with legal restrictions against identifying sexual assault and child abuse victims and juvenile perpetrators, victims, and witnesses of certain crimes, this site includes the following precautionary measures: (a) Sexual assaults are not included. (b) Child abuse cases, and other crimes which by their nature involve juveniles, or which the reports indicate involve juveniles as victims, suspects, or witnesses, are not reported at all. Crimes that are initially reported, but that are later determined not to have occurred, are called "unfounded" offenses. These incidents are excluded once they have been designated as unfounded. - Denver*
  - Cf. PACER data cleansing by Malamud, Swartz [NYTimes, Feb 13 2009]
- Reporting delays; increasing data fidelity
- UCR code precision?
- GIS precision?



# Other data

- Use of force
- Pedestrian, vehicle “stop data”

## Current context

- Negotiated settlement agreement
- Schaaf/Reid plan; Strategic Policy Partnership; Bratton's involvement
- Engaging in Public Health Research on the Causes and Prevention of Gun Violence – *Presidential Memorandum 13 Jan 13*
- Other OpenOakland activities

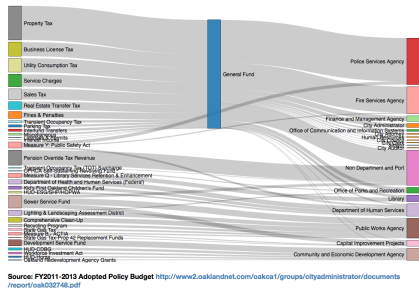


Figure: Oakland budget, Sankey viz - Dave Guarino

# What C4A can do for OPD

All bullets from OPD “NSA background” (oak038511)

- Explain, document, and educate Oakland citizens regarding
  - shared data standard
  - other OPD data reporting procedures
  - cf. Chief Edward Flynn vs. Milwaukee Journal
- Generate alternative analyses
- Help OPD communicate
  - Civilian complaint intake process
  - Improved website communications
  - Encourage community recommendations in the promotion process
  - “One of our commitments this new year is to strengthen our communication within our community, and better share crime information, prevention, response and enforcement results.” – *oak039441.pdf 25 Jan 13*

## What C4A can do for OPD (cont.)

- Police academies
    - Develop a pipeline for city residents interested in joining the department at a young age.
    - Enhance officer training by continued inclusion of additional civilian instructors
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*(Not from OPD)*

- Evaluate commercial offerings built on top of API