

STATISTICAL TRANSPARENCY OF POLICING (STOP)

PRESENTATION TO JOINT COMMITTEE ON WEIGHS AND MEANS SUBCOMMITTEE ON PUBLIC SAFETY

8 May 2019

Ken Sanchagrin

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STOP Program Co-Directors

Criminal Justice Commission



BACKGROUND

HB 2355

76th OREGON LEGISLATIVE ASSEMBLY--2017 Regular Session

Enrolled House Bill 2355

Introduced and printed pursuant to House Rule 12.00. Possession filed (at the request of Attorney General Ellen Rosenblum)

CHAPTER

AN ACT

Relating to public safety; creating new provisions; amending ORS 51.050, 121.915, 121.920, 121.925, 127.633, 161.570, 161.615, 181A.410, 221.339, 419C.501, 423.478, 423.525, 475.005, 475.752, 475.824, 475.834, 475.854, 475.874, 475.884 and 475.894; and declaring an emergency.

Be It Enacted by the People of the State of Oregon:

SECTION 1. As used in sections 1 to 4 of this 2017 Act:

(1) "Law enforcement agency" means an agency employing law enforcement officers to enforce criminal laws.

(2) "Law enforcement officer" means a member of the Oregon State Police, a sheriff or a municipal police officer.

(3) "Officer-initiated pedestrian stop" means a detention of a pedestrian by a law enforcement officer, not associated with a call for service, when the detention results in a citation, an arrest or a consensual search of the pedestrian's body or property. The term does not apply to detentions for routine searches performed at the point of entry to or exit from a controlled area.

(4) "Officer-initiated traffic stop" means a detention of a driver of a motor vehicle by a law enforcement officer, not associated with a call for service, for the purpose of investigating a suspected violation of the Oregon Vehicle Code.

(5) "Profiling" means the targeting of an individual by a law enforcement agency or a law enforcement officer, on suspicion of the individual's having violated a provision of law, based solely on the individual's real or perceived age, race, ethnicity, color, national origin, language, sex, gender identity, sexual orientation, political affiliation, religion, homelessness or disability, unless the agency or officer is acting on a suspect description or information related to an identified or suspected violation of a provision of law.

(6) "Sexual orientation" has the meaning given that term in ORS 174.100.

SECTION 2. (1) No later than July 1, 2018, the Oregon Criminal Justice Commission, in consultation with the Department of State Police and the Department of Justice, shall develop and implement a standardized method to be used by law enforcement officers to record officer-initiated pedestrian stop and officer-initiated traffic stop data. The standardized method must require, and any form developed and used pursuant to the standardized method must provide for, the following data to be recorded for each stop:

(a) The date and time of the stop;

(b) The location of the stop;

- [HB 2355](#) (2017) required law enforcement to report on all discretionary traffic and pedestrian stops.

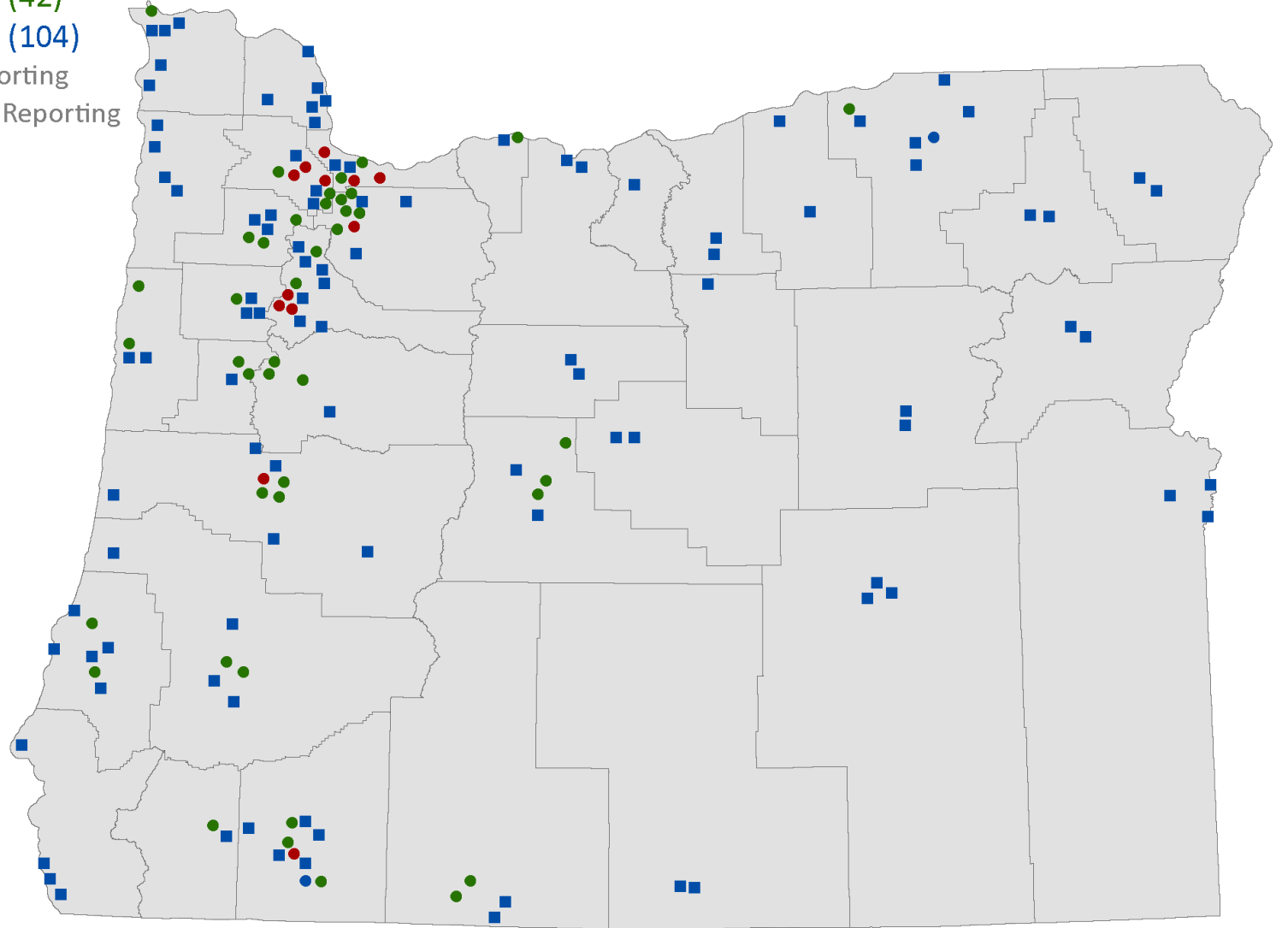
STOP Data Elements

| | |
|----------------------------|---------------------|
| Agency Name | Gender |
| Stop Date/Time | Reason for the Stop |
| Location & County† | Outcome of Stop |
| Type of Stop (Traffic/Ped) | Search (Y/N) |
| Residential Zip Code† | Search Reason |
| Race/Ethnicity | Search Findings |
| Age | Was an Arrest Made? |

BACKGROUND

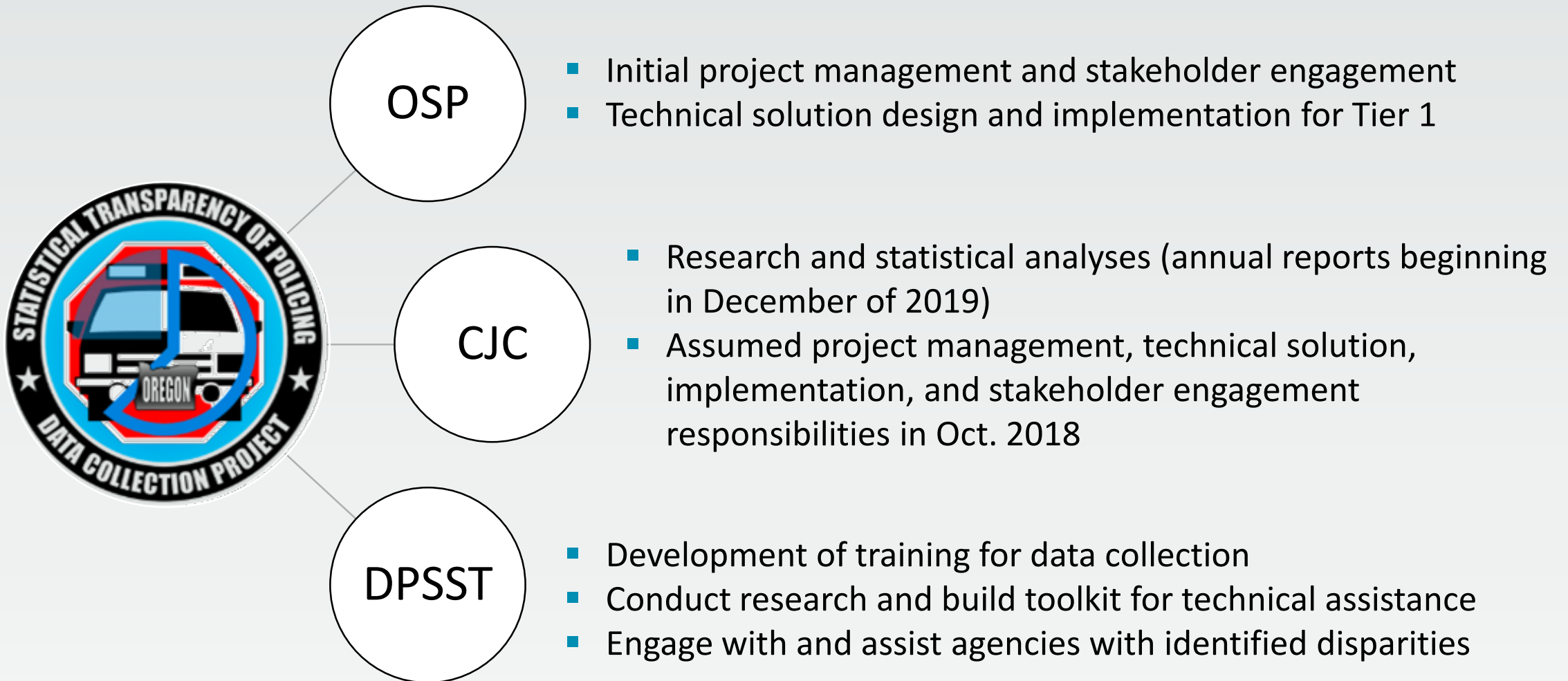
THREE TIER APPROACH

Tier 1 (12)
Tier 2 (42)
Tier 3 (104)
● Reporting
■ Not Reporting



BACKGROUND

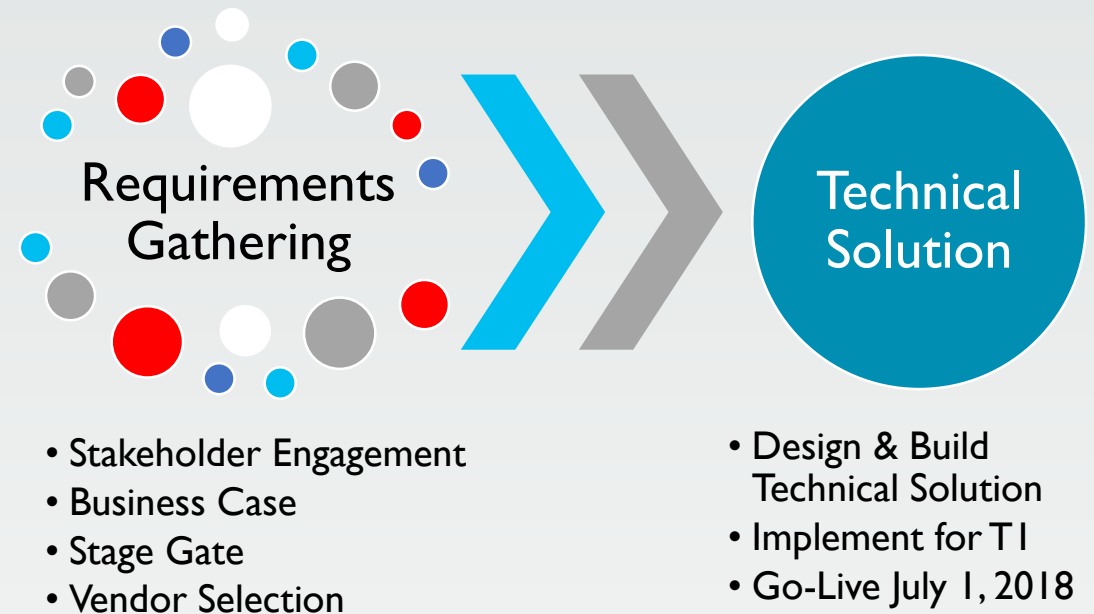
THE STOP PROGRAM



BACKGROUND

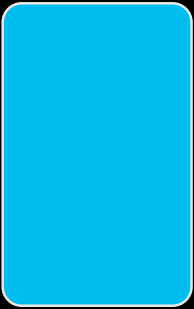
OREGON STATE POLICE

- OSP Responsibilities:
 - Initial project management,
 - Designing, building, and implementing the STOP technical solution.
- Even with an extremely short timeline, OSP completed their role in the project on time and on budget.
- In October of 2018, OSP transferred project responsibilities to CJC.



BACKGROUND

CURRENT STOP PROGRAM TEAM



Implementation - CJC

- Tiffany Quintero
- Shayne Spratt (Technical)
- Alex Pichel (Technical)
- Angel Pairan
- Krystal Styles



Research - CJC

- Ken Sanchagrin
- Kelly Officer
- Michael Weinerman
- Siobhan McAlister
- Courtney Rau
- Katherine Tallan



Training - DPSST

- Ryan Keck
- Annie Rexford

BACKGROUND

STOP PROGRAM STEERING COMMITTEE

The STOP Steering Committee provides technical guidance to improve data collection efforts and advises the STOP team on technical/software enhancements.

STOP Program Team

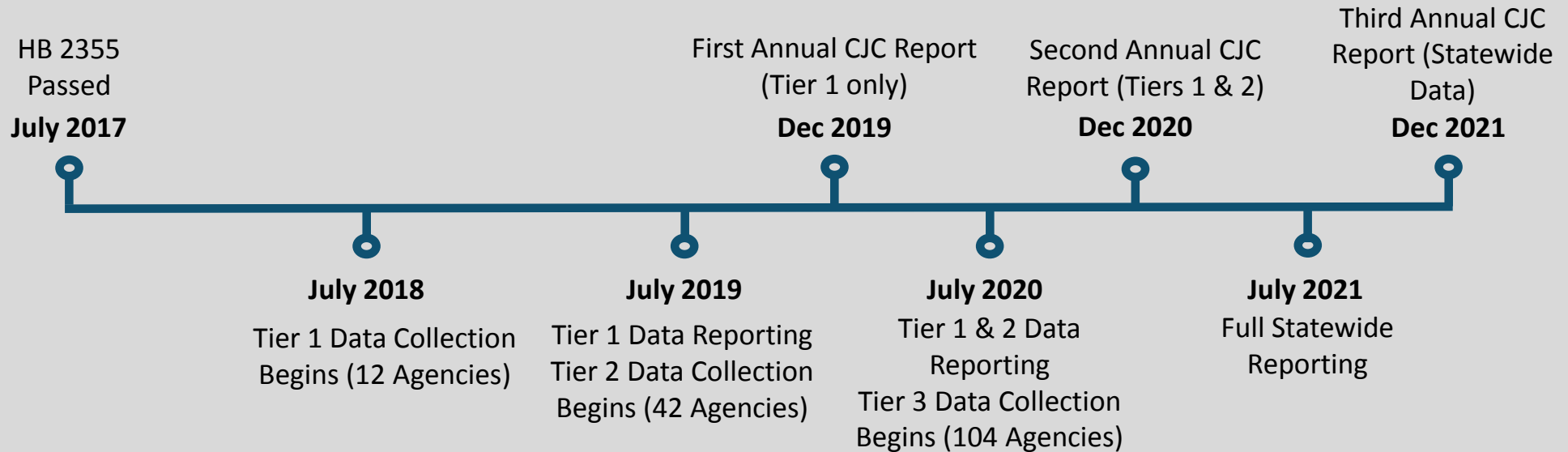
- Tiffany Quintero (CJC)
- Ken Sanchagrín (CJC)
- Shayne Spratt (CJC)
- Ryan Keck (DPSST)

Stakeholder Committee Members

- Ben Gherezgiher (OSCIO)
- Becki David (OSP)
- Chief John Teague (Keizer PD)
- Chief Jerry Moore (Salem PD)
- Chief Peter Spirup (Gervais PD)
- Sheriff Jim Yon (Linn County SO)
- Captain Nick Hurley (Corvallis PD)

BACKGROUND

STOP PROGRAM TIMELINE



STOP PROGRAM UPDATE

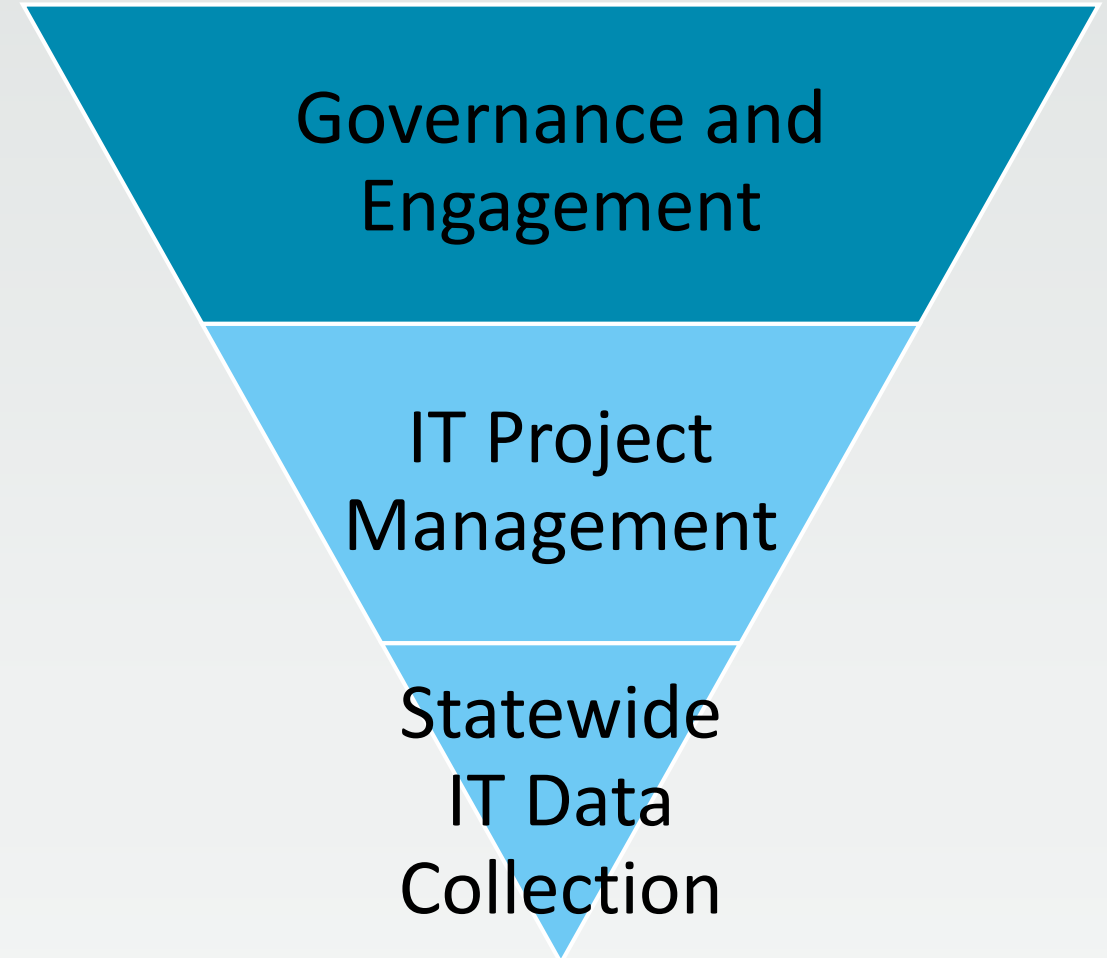
IMPLEMENTATION



CRIMINAL JUSTICE COMMISSION

IMPLEMENTATION

- Governance and Engagement
 - Steering Committee
 - Stakeholder Engagement Group
 - Community
- Agency engagement (each)
 - At-least 3 calls with leadership
 - Initial Call
 - Pre Go-Live
 - Post Go-Live
 - approx. 20-min for each call
 - Minimum of 6 emails
- Statewide IT project management responsibilities
 - OSCIO Stage Gate
 - Vendor management
 - Contract Administration
- Statewide IT data collection
 - All Agencies with stop authority (158 Agencies)
 - Results in statewide analyses and reports



IMPLEMENTATION

AGENCY SUBMISSION OF STOP DATA

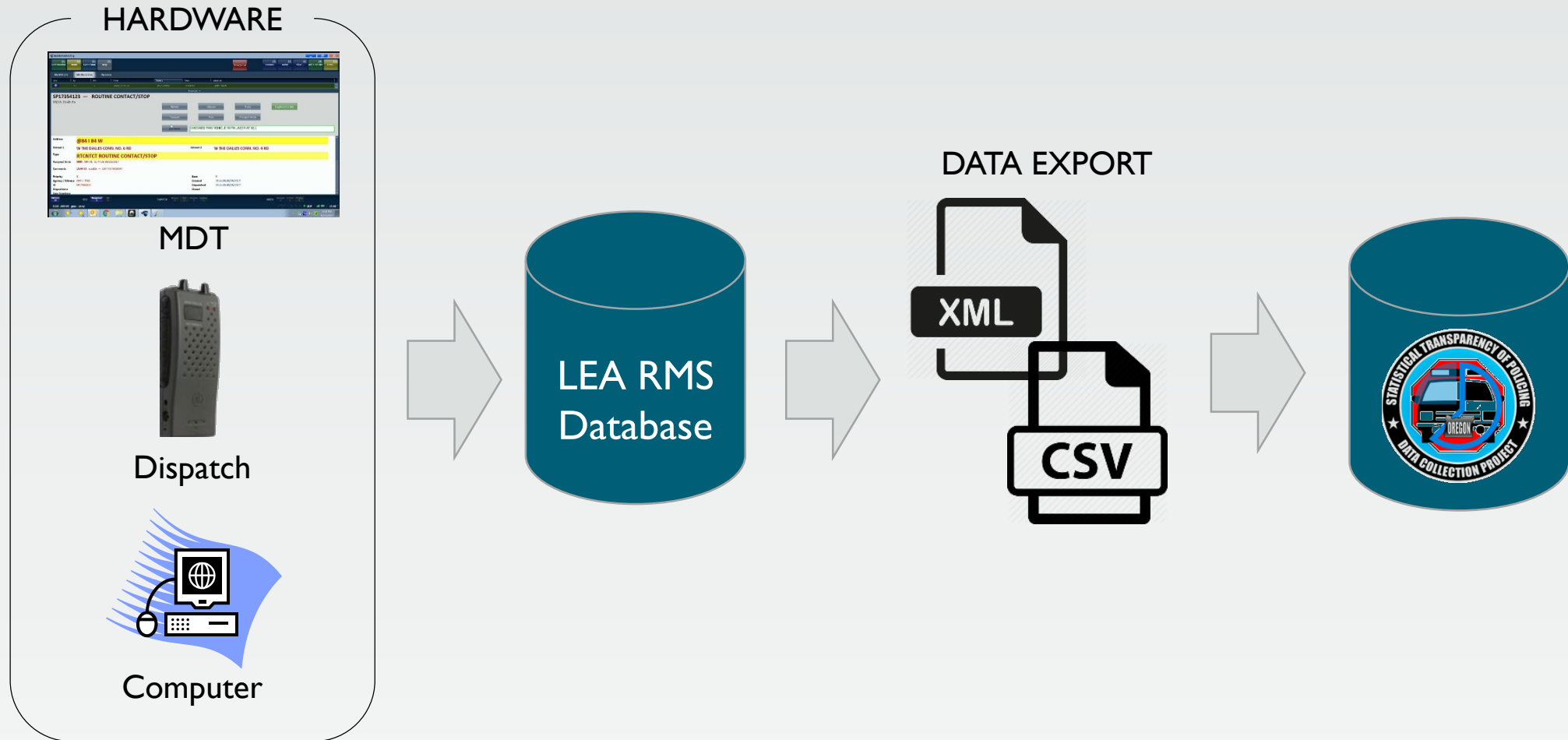
- Agencies can submit data to the STOP Program in three ways.
 - Mobile Data Collection/Submission
 - Web-based Data Collection/Submission
 - Bulk Upload (XML or CSV)
- Agencies can and have used multiple submission approaches
- Mobile and Web-based software is provided free of charge to agencies by the STOP Program.
- While most Tier I agencies utilize the bulk upload method, medium and smaller agencies tend to use STOP software.

Data Submissions by Source (as of 5/6/2019)

| Source | Tier I | Tiers 2 & 3 | Total |
|------------------|---------|-------------|---------|
| Android (Mobile) | 0.00% | 8.36% | 1,760 |
| iOS (Mobile) | 1.05% | 3.44% | 3,993 |
| Web Form | 0.99% | 40.50% | 11,591 |
| Flat File (CSV) | 97.96% | 47.70% | 316,611 |
| Total | 312,988 | 20,967 | 333,995 |


IMPLEMENTATION

AGENCY SUBMISSION OF STOP DATA: FLAT FILES




IMPLEMENTATION

AGENCY SUBMISSION OF STOP DATA: MOBILE AND WEB

[Begin New Entry](#) [Enable Dark Mode](#)  [Change Password](#) [Help](#) [Logout](#)

STOP INFORMATION

Stop Date*



Stop Time*

Now

County of Stop*

Nature of Stop*

Agency*

LOCATION

Map

Street

Highway

Latitude

Longitude

Get Location

SUBJECT

Age*

Sex*

☐ M - Male

☐ F - Female

☐ X - Non-Binary

Race/Ethnicity*

☐ White

☐ Hispanic or Latino

☐ Asian

☐ Black or African American

☐ American Indian or Alaska Native

☐ Native Hawaiian or Other Pacific Islander

☐ Middle Eastern

Home Zip Code

OUTCOME

Statutory Reason for Stop*

☒ ORS Code

☐ Municipal—Criminal

☐ Municipal—Traffic Violation

☐ County—Other

Disposition*

☒ None

☐ Warning

☐ Citation

☐ Physical Custody Arrest

☐ Juvenile Summons

Search Conducted*

☒ No

☐ Yes

Search Findings*

☐ Nothing

☐ Alcohol

☐ Drugs

☐ Other Evidence

☐ Other / Not-Evidence

☐ Stolen Property

☐ Weapons

Physical Custody Arrest Made*

☒ No

☐ Yes

Search Type*

☒ No Search


☐ Consent Search Denied

☐ Consent Search

☐ Other Search

Submit

Verizon 10:33 AM 88%



USER ID

PASSWORD

LOGIN

RESET PASSWORD

Verizon 10:30 AM 87%

Location

Subject

Next

Age*

Or

Date of Birth*

Race/Ethnicity*

☐ White

☐ Hispanic or Latino

☐ Asian

☐ Black or African American

☐ American Indian or Alaska Native

☐ Native Hawaiian or Other

Submitted: 0 Queued: 0 Sync

IMPLEMENTATION

CURRENT REPORTING FOR TIER 1 AGENCIES (12)

- All 12 Tier 1 agencies began collecting data by the July 1, 2018 deadline and all agencies are submitting data into the STOP database.
- Agencies submit on a variety of schedules.
 - Real time data submission
 - Monthly
 - Quarterly

| Tier 1 Agencies | Freq. |
|------------------|----------------|
| Beaverton PD | 16,782 |
| Clackamas Co SO | 14,239 |
| Eugene PD | 5,276 |
| Gresham PD | 7,305 |
| Hillsboro PD | 9,670 |
| Marion Co SO | 11,387 |
| Medford PD | 4,900 |
| Multnomah Co SO | 8,650 |
| OSP | 179,030 |
| Portland PB | 22,546 |
| Salem PD | 8,768 |
| Washington Co SO | 24,435 |
| Total | 312,988 |

IMPLEMENTATION

CURRENT REPORTING FOR TIER 2 AGENCIES (42)

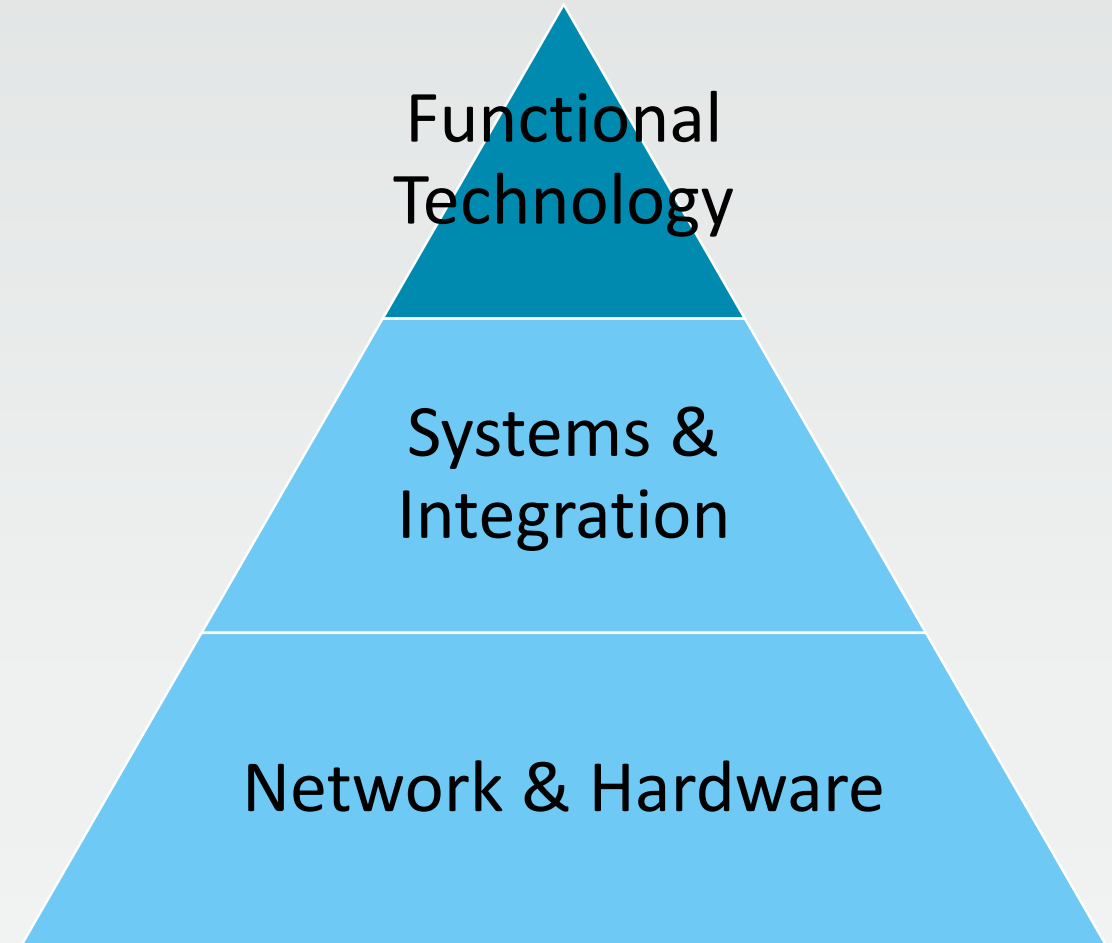
- Following our waterfall approach, we currently have 20 Tier 2 and 1 Tier 3 agencies reporting data into the STOP database.
- During the month of May, remaining 22 agencies are scheduled to begin collecting and/or submitting data.

| Tier 2 & 3 Agencies | | Freq. | | | Freq. |
|---------------------|--|-------|--|--------------------|---------------|
| Ashland PD | | 2,482 | | Lebanon PD | 90 |
| Canby PD | | 966 | | Lincoln Co SO | 610 |
| Central Point PD | | 440 | | McMinnville PD | 2 |
| Deschutes Co SO | | 191 | | Milwaukie PD | 1,899 |
| Forest Grove PD | | 1,503 | | Oregon City PD | 244 |
| Grants Pass DPS | | 2,178 | | Polk Co SO | 1,374 |
| Jackson Co SO | | 232 | | Talent PD (Tier 3) | 1,004 |
| Keizer PD | | 1,568 | | Tualatin PD | 1,573 |
| Klamath Co SO | | 349 | | West Linn PD | 2,063 |
| Klamath Falls PD | | 343 | | Woodburn PD | 72 |
| Lake Oswego PD | | 1,784 | | | |
| | | | | Total | 20,967 |

IMPLEMENTATION

CHALLENGES

- STOP application improvements and bugs
 - User interface for STOP software
 - Agency related issues with their hardware
 - Stops reported in areas of the state outside an agency's jurisdiction.
 - Stops reported out of state (WA, CA, KS)
 - Connectivity Issues
 - Multiple agency management in data hub
- Agency troubleshooting
- Volume of engagement for statewide implementation



WHAT'S NEXT

2019-21 BIENNIUM

Implementation of 104 Tier 3 agencies



Enhancements to address connectivity, permissions, and Tier 3 agency needs



STOP Reports for Tier 1 (December 2019) and Tier 1 & 2 (December 2020)



Stakeholder and DPSST collaboration to develop training



Maintain and support STOP applications as well as law enforcement agencies

STOP PROGRAM UPDATE

RESEARCH



CRIMINAL JUSTICE COMMISSION

RESEARCH INTRODUCTION

Thirty Years of Stops Research

- Mostly, research has used benchmark analyses to determine if there are disparities.
- Quality analysis of stop data is difficult and time consuming.
- No analysis is perfect and all approaches have strengths and weaknesses.
- No statistical method can “prove” discrimination.

Selected Traffic Stop Benchmark Data (CT)

| Department | Stops | | Pop Pct. | Ratio |
|--------------|-------|--------|-------------|-------|
| | Count | Pct. | | |
| Berlin | 1,902 | 22.29% | 12.89% | 1.73 |
| Branford | 1,547 | 11.96% | 13.12% | 0.91 |
| Danbury | 2,036 | 34.77% | 31.97% | 1.09 |
| East Hampton | 185 | 2.16% | 5.82% | 0.37 |
| Redding | 694 | 16.86% | 7.55% | 2.23 |
| Wethersfield | 791 | 43.2% | 16.6% | 2.60 |

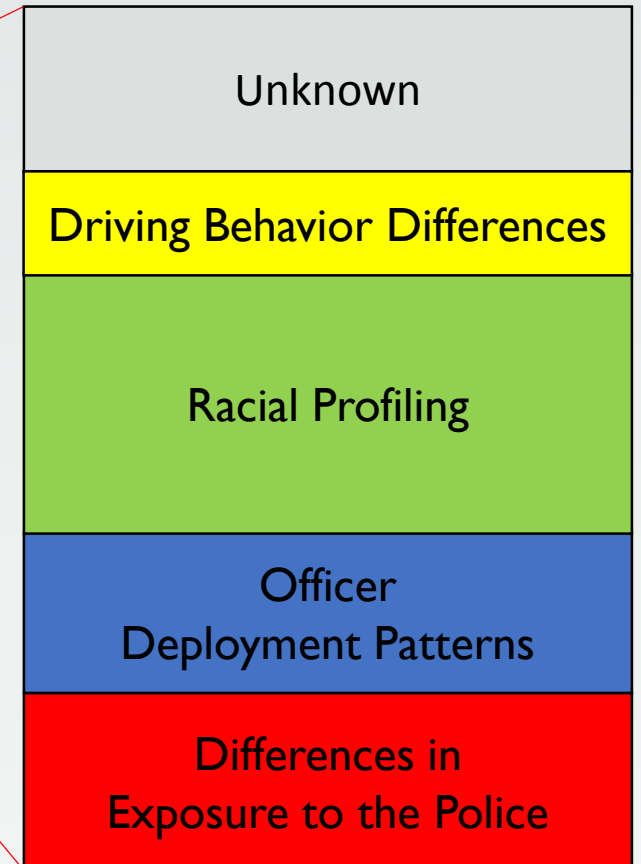
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RESEARCH CHALLENGES: BACKGROUND

Selected Traffic Stop Benchmark Data (CT)

| Department | Stops | | Pop Pct. | Abs Diff | Ratio |
|--------------|-------|--------|-------------|-------------|-------|
| | Count | Pct. | | | |
| Berlin | 1,902 | 22.29% | 12.89% | 9.40 | 1.73 |
| Branford | 1,547 | 11.96% | 13.12% | 1.16 | 0.91 |
| Danbury | 2,036 | 34.77% | 31.97% | 2.80 | 1.09 |
| East Hampton | 185 | 2.16% | 5.82% | 3.66 | 0.37 |
| Redding | 694 | 16.86% | 7.55% | 9.31 | 2.23 |
| Wethersfield | 791 | 43.2% | 16.6% | 26.60 | 2.60 |

Berlin, CT
9.40% ABS Disparity



CRIMINAL JUSTICE COMMISSION

RESEARCH CHALLENGES: WHO IS “AT RISK?”

Differences in Exposure to the Police

- Residential population \neq at risk population due to many factors:
 - Commuting patterns for work,
 - Travel for tourism, recreation, and entertainment,
 - The presence of major interstates and highways,
 - Transportation choices.



CRIMINAL JUSTICE COMMISSION

RESEARCH CHALLENGES: WHO IS “AT RISK?”

Differences in Exposure to the Police

- Municipalities can look completely different during festivals, rodeos, or other events.
- Holidays can significantly change driving patterns. Currently, the STOP data shows:

| Holiday | Departure from Avg. |
|-------------------|---------------------|
| July 4 | + 32% |
| Labor Day Weekend | + 35% |
| New Year's | + 38% |

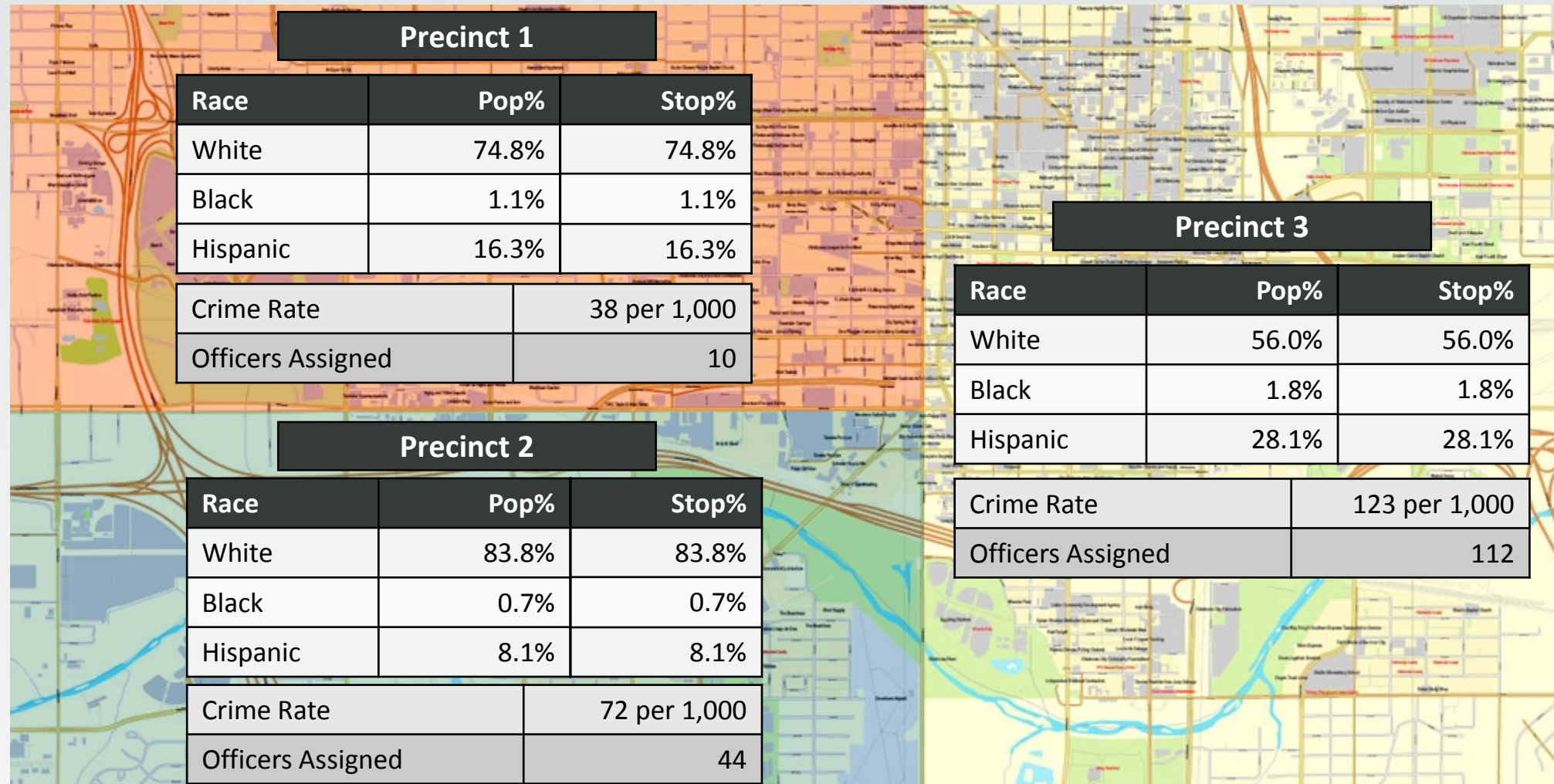


“The crowds in town for Round-Up events have peaked at 50,000 people in years past, tripling the population of Pendleton.”

- OPB News Story on Pendleton Round-Up in 2018

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RESEARCH CHALLENGES: OFFICER DEPLOYMENT DECISIONS



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RESEARCH CHALLENGES: OFFICER DEPLOYMENT DECISIONS

- When data from the three precincts are combined:
 - While stop rates in each precinct matched their demographics, when aggregated there are disparities
 - Remember, these disparities exist even though individuals were stopped at random according to their share of the population in each neighborhood. Thus,
 - When diversity varies between neighborhoods, there is a risk that this pattern can occur.
 - Patterns of this type are particularly likely when crime rates and policing resources are clustered as well.

Weekly Traffic Stops and Population Percentages for a Hypothetical Oregon City

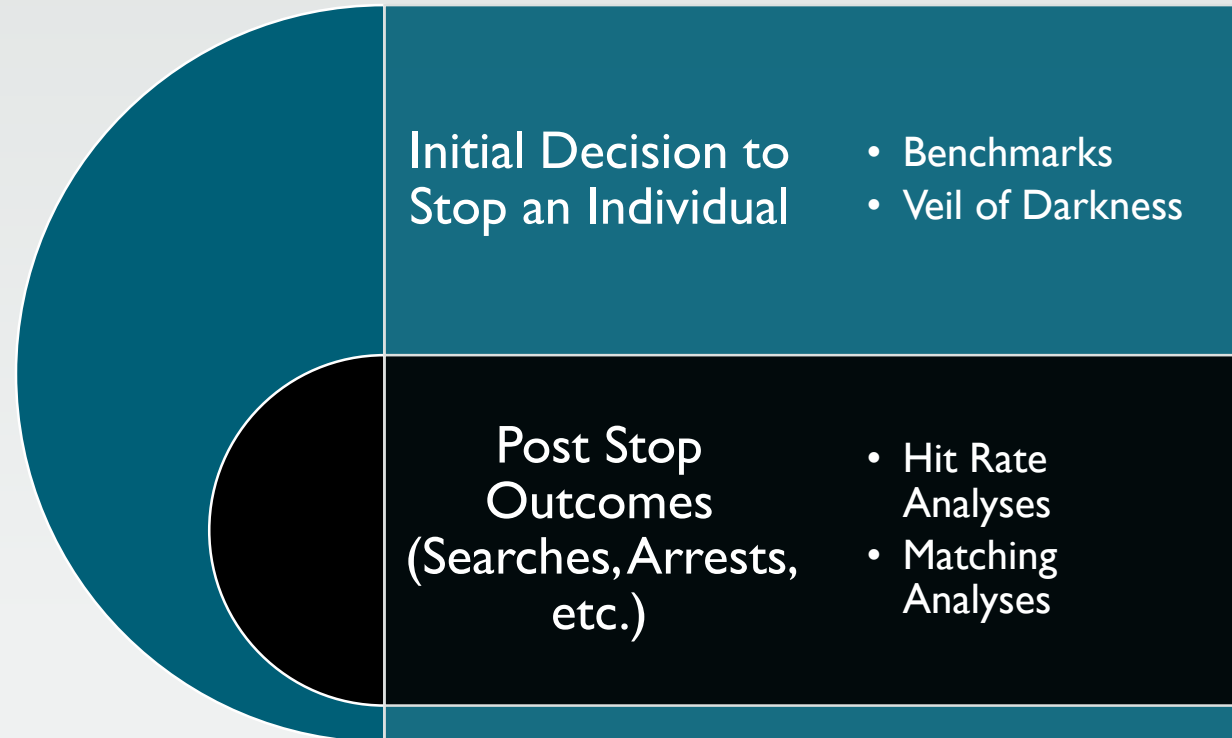
| Race | Traffic Stops | | Pop Pct. | Ratio |
|----------|---------------|-------|----------|-------|
| | Num. | Pct. | | |
| White | 648 | 66.1% | 69.9% | 0.95 |
| Black | 14 | 1.4% | 1.3% | 1.12 |
| Hispanic | 206 | 21.0% | 18.4% | 1.14 |

CRIMINAL JUSTICE COMMISSION

ADDRESSING RESEARCH CHALLENGES

CJC's Multimodal Approach

- Considers the different stages of stops to ensure that each decision point is examined.
- Deemphasizes baselines due to their methodological weaknesses.
- Utilizes multivariate statistics wherever possible to address alternative explanations.
- Will provide the most holistic view of the stops landscape in Oregon.



ANALYSES OF STOPS DATA

THE INITIAL DECISION TO STOP AN INDIVIDUAL

Veil of Darkness Model

- Compares stops made in the daylight to stops made at night.
- If stops are being made in a race-neutral manner, stop rates should be almost identical.

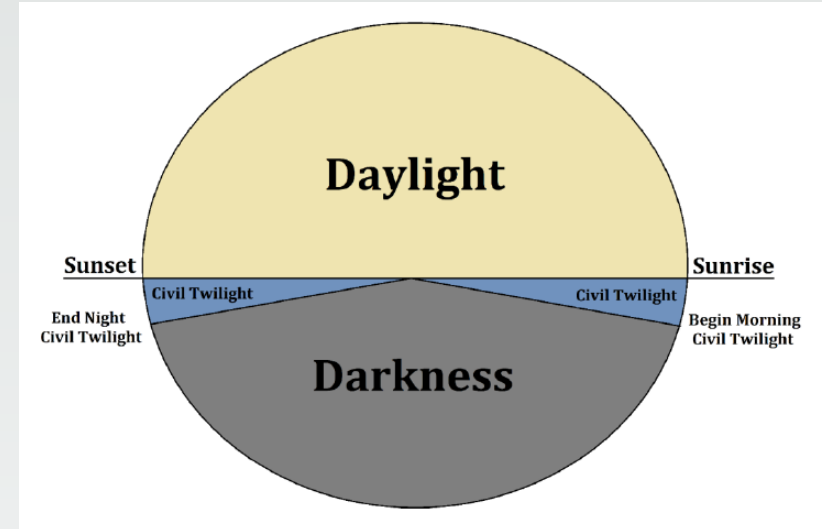


Table 2. Selected Connecticut VOD Odds Ratios

| Department | Odds Ratio (to White) | |
|------------|-----------------------|----------|
| | Black | Hispanic |
| Berlin | 3.40*** | 1.68** |
| Monroe | 0.71 | 1.69* |
| New Haven | 1.07 | 7.85** |

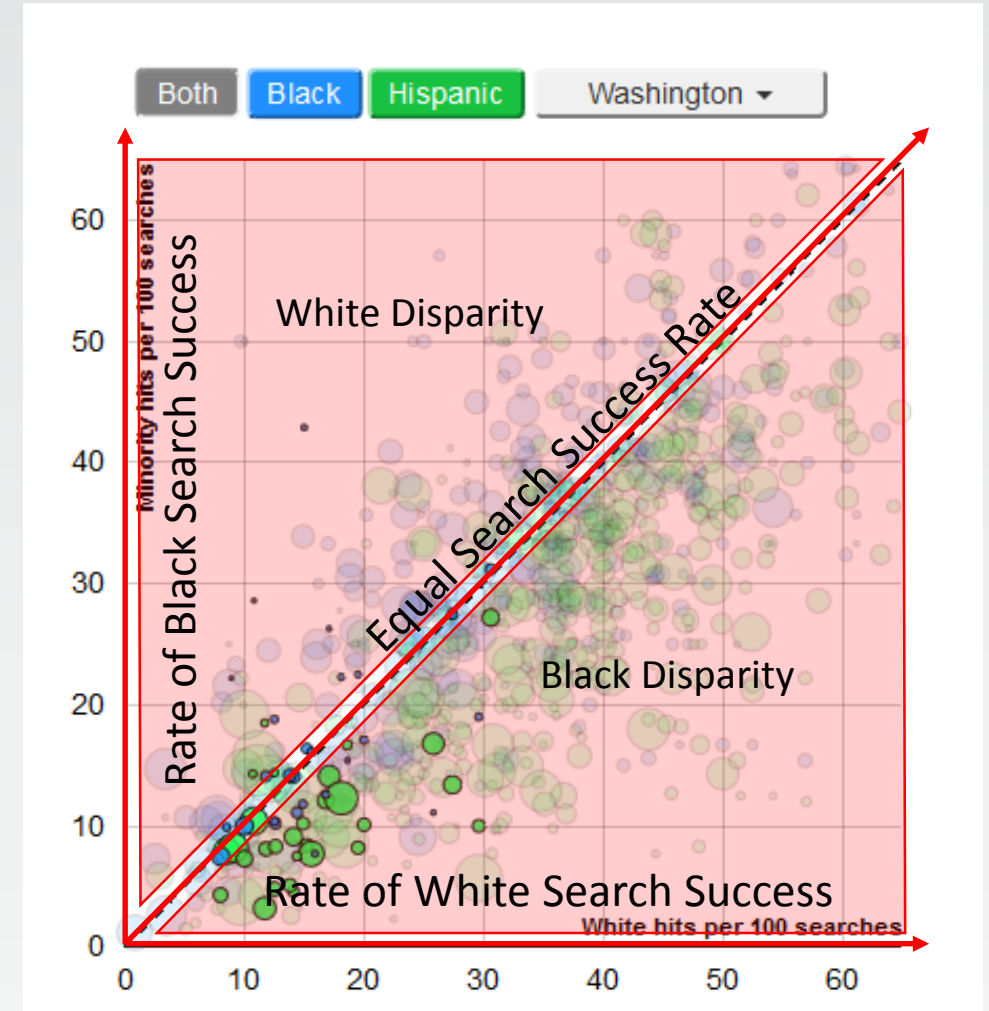
Source: State of Connecticut Traffic Stop Data Analysis and Findings 2015-2016

ANALYSES OF STOPS DATA

POST STOP OUTCOMES: SEARCHES, ARRESTS, CITATIONS

Outcome/Hit Rate Test

- Successful searches should be equal across different races if the decision to search is based on race neutral factors.
- If hit rates are consistently lower for one racial group, the target group is being searched more often than success rates would warrant.
- For example:
 - If searches of whites are successful 60% of the time, but searches of Hispanics are only successful in 10% of cases, then
 - The model would suggest that a different (and less successful) standard is being used when searching Hispanics.



ANALYSES OF STOPS DATA

POST STOP OUTCOMES: SEARCHES, ARRESTS, CITATIONS

Propensity Score Matching

- Ideally, we would like to approximate a random control trial.
- Propensity score matching analysis mimics important aspects of an RCT in cases where random assignment is not possible.
- In effect, you are able to balance your data so you can test for race-based differences.

List of Variables Used for Matching

| | |
|-----------------|-------------------|
| Age | Gender |
| Agency | Holiday |
| Citation Type | Location |
| County | Stop Type |
| Daylight | Daily Stop Volume |
| Day of the Week | Time of Stop |

STOP PROGRAM UPDATE

STOP PROGRAM CHALLENGES



STOP PROJECT RESEARCH CHALLENGES

DATA QUALITY AND CONSISTENCY

Data Quality and Consistency

- Error is always present in data
- Statistical analysis is designed to address this error
- On the whole, our data is pretty clean, although we have faced some challenges in our initial audits.

Over 2,100 stops
for traffic violations
were recorded for
pedestrians

Cross Tabulation of Stop Reason by Stop Type

| Stop Reason | Pedestrian | Traffic |
|---------------------------|------------|---------|
| Moving Traffic Violations | 1,998 | 232,889 |
| Vehicle Equipment | 74 | 31,648 |
| Cell Phone/Seat Belt | 7 | 19,064 |
| Driving Regulatory | 50 | 42,403 |
| Criminal | 4,606 | 2,375 |
| County Codes | 1,238 | 744 |
| Other Violations | 1,918 | 5,011 |

STOP PROJECT RESEARCH CHALLENGES

DATA QUALITY AND CONSISTENCY

Missing Data

- Unreported, or “missing data,” is always a concern in statistical analyses.
- Overall, missing data is not a problem in the STOP database.
- There are, however, areas where improvements can be made and CJC is reaching out to agencies where we have concerns.

Missing Data Counts for Officer Input Variables

| Variable Name | Num. | Pct. |
|------------------|-------|--------|
| Stop Type | 10 | >0.01% |
| Age | 2,184 | 0.65% |
| Race | 7,771 | 2.33% |
| Gender | 1,133 | 0.34% |
| Citation Type | 92 | 0.03% |
| Stop Disposition | 0 | -- |
| Arrest | 0 | -- |
| Search (Y/N) | 7 | >0.01% |
| Search Reason | 7 | >0.01% |
| Search Finding | 523 | 0.16% |

STOP PROJECT RESEARCH CHALLENGES

DATA QUALITY AND CONSISTENCY

179 times something was found, but the officer reported that there was no search

| Cross Tabulation of Searches versus Search Findings | | | | |
|---|-------------|--------------|-----------|---------|
| Search Finding | Search - NO | Search - YES | No Report | Total |
| No Search | 224,555 | 0 | 0 | 224,555 |
| Nothing Found | 99,728 | 4,617 | 2 | 104,347 |
| Alcohol | 24 | 1,075 | 3 | 1,102 |
| Drugs | 15 | 2,502 | 0 | 2,517 |
| Stolen Prop | 41 | 81 | 0 | 122 |
| Weapons | 12 | 256 | 0 | 268 |
| Other Evid | 44 | 384 | 0 | 428 |
| Other NonEvid | 43 | 50 | 0 | 93 |
| Not Reported | 0 | 521 | 2 | 523 |
| Total | 324,462 | 743 | 4 | 27,674 |

Five times where we have search results, but no data entered for the search itself.

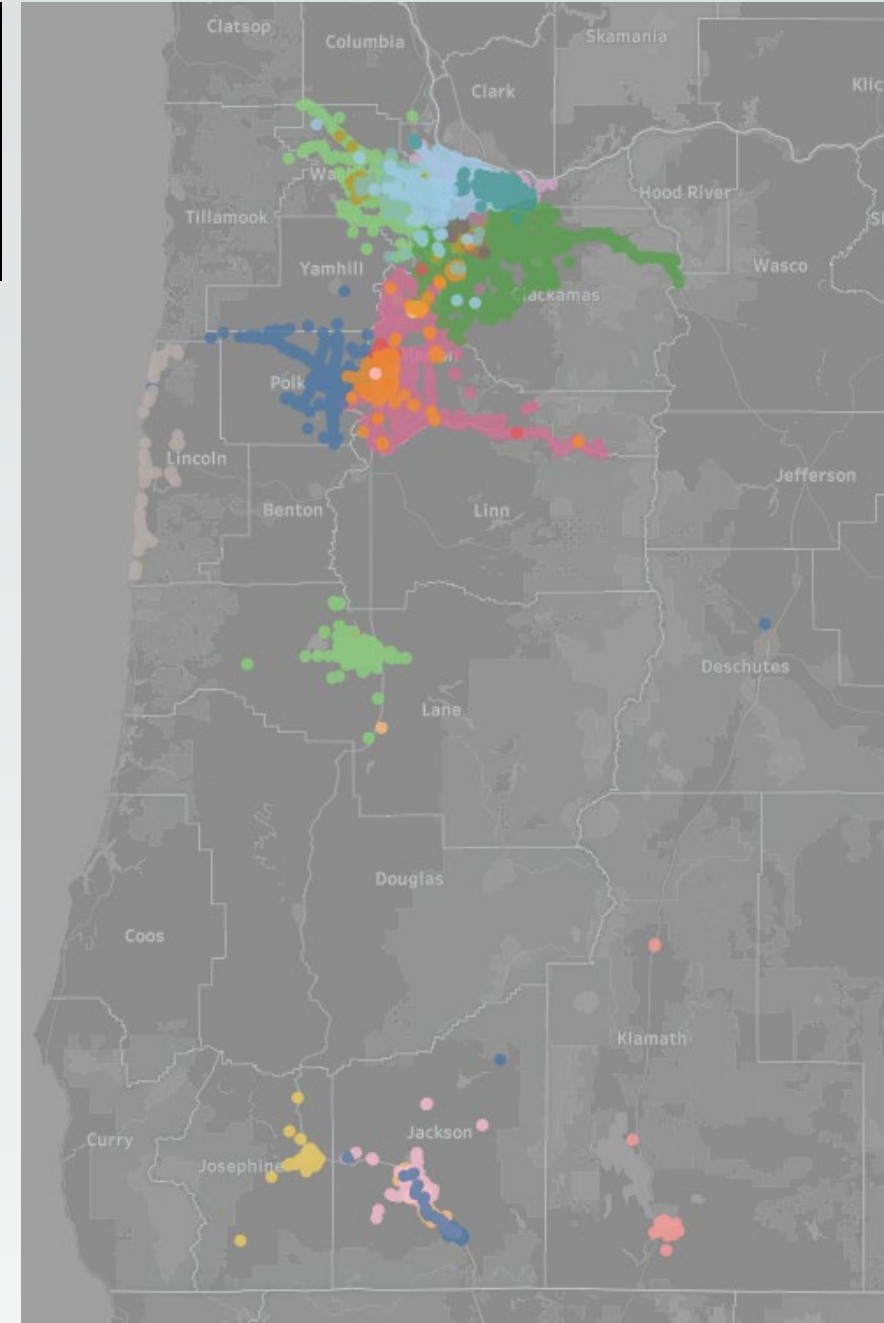
521 times where we know there was a search, but there is no data on what was found.

STOP PROJECT RESEARCH CHALLENGES

DATA QUALITY AND CONSISTENCY

Location Data

- Submission of detailed location data by agencies has been good overall, but improvements can be made.
- Agencies submit data either by:
 - GPS Coordinates (42.34083176 -122.8766708), or
 - Street Address: (123 Main St., Salem)
- The ease of transferring location data to a map for analysis depends on the type of data submitted.

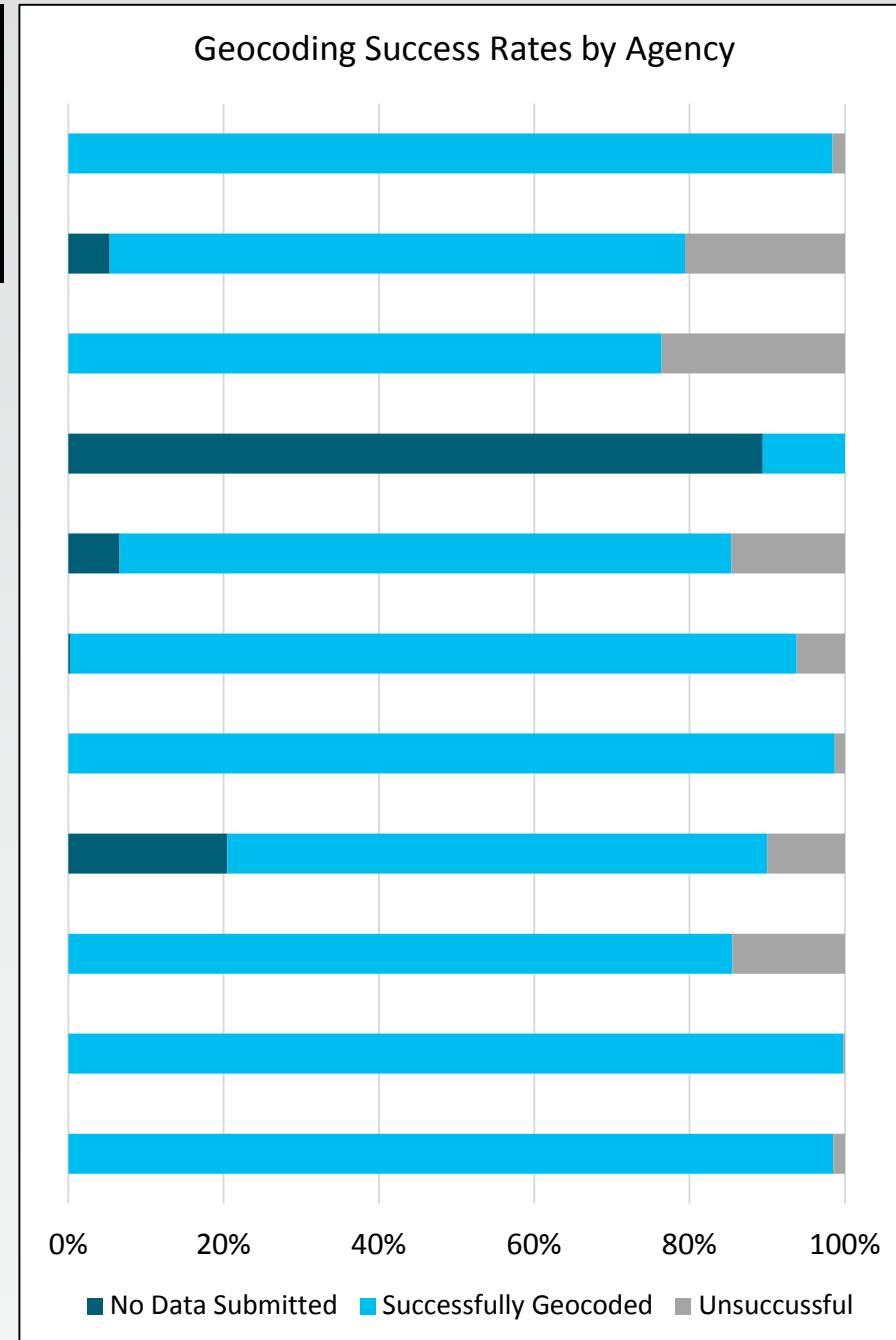


STOP PROJECT RESEARCH CHALLENGES

DATA QUALITY AND CONSISTENCY

Location Data

- Data submitted in GPS format is geocoded successfully in nearly all cases.
- Agencies submitting GPS coordinates, therefore, have nearly 100% complete location data.
- Agencies that submit street addresses have lower geocoding success rates.
- Some agencies are not submitting location data for a many of their stops.



STOP PROJECT RESEARCH CHALLENGES

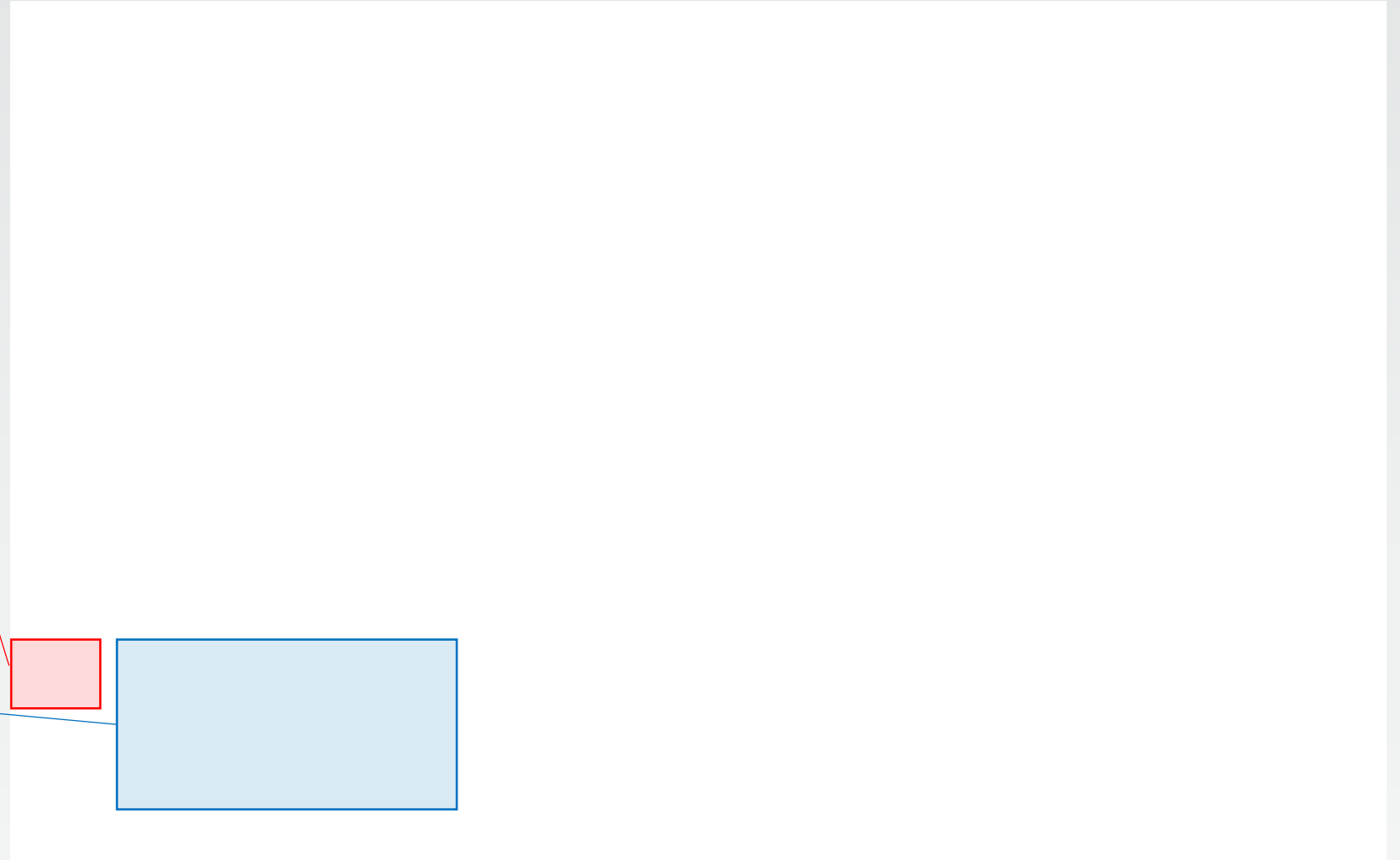
DATA QUALITY AND CONSISTENCY

Why is geocoding address data so difficult?

- Even addresses that appear complete can be problematic.
- Here is an example:

510 E MAIN ST, JACKSON

With just this information,
11 possible entries are
found in Jackson County.



STOP PROJECT RESEARCH CHALLENGES

DATA QUALITY AND CONSISTENCY

Time Zones

- A portion of Malheur County is in the Mountain Time zone
- This presents possible problems with the Veil of Darkness analysis
- Currently, the STOP team is working with the Malheur County Sheriffs Office to troubleshoot this issue.



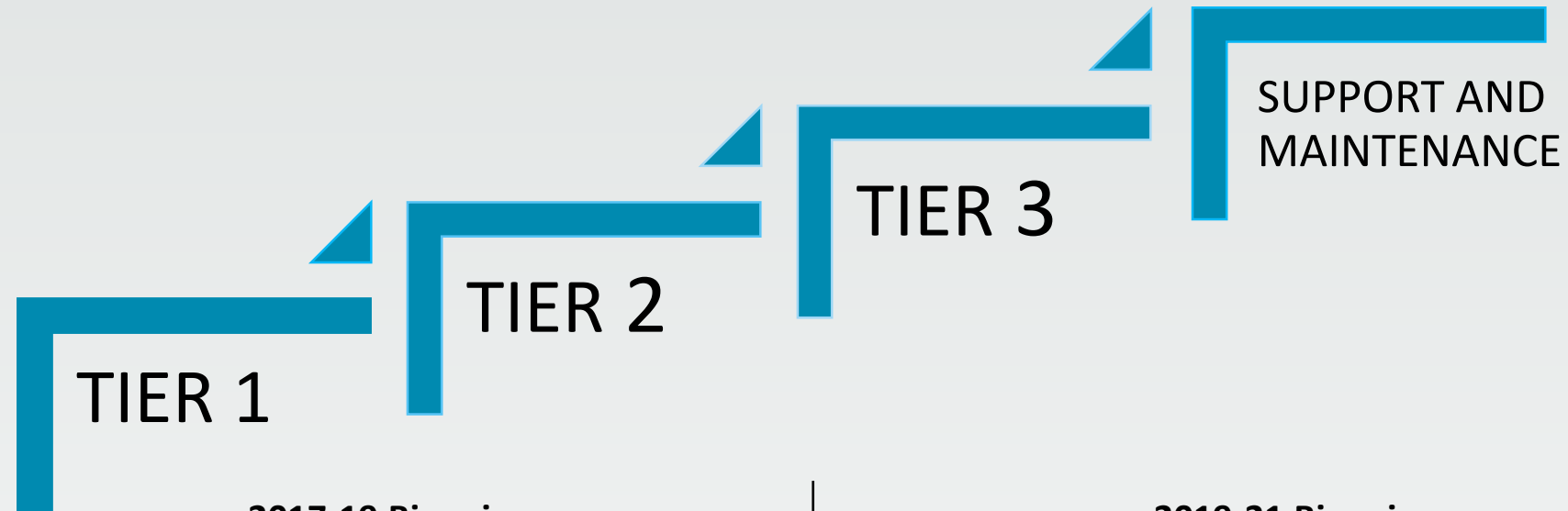
STOP PROGRAM UPDATE

2019-2021 BUDGET CYCLE UPDATE



BACKGROUND

2017-2019 STOP PROGRAM FUNDING



| 2017-19 Biennium | | 2019-21 Biennium |
|------------------|---|--|
| OSP | 3 limited duration positions for development and implementation of solution | 1 position continued to support solution |
| | October 2018 transfer implementation to CJC (1.5 positions) | |
| CJC | 2 permanent full-time positions to compile, analyze, and report on the data | |

BACKGROUND

2019-2021 STOP PROGRAM BUDGET REQUEST

Implementation Team

- Tiffany Quintero
- Shayne Spratt (ISS8)
- Alex Pichel* (ISS6)
- Angel Pairan (AS2)
- Krystal Styles (PA2)

Research Team

- Ken Sanchagrin
- Kelly Officer
- Michael Weinerman* (RA4)
- Siobhan McAlister
- Courtney Rau
- Katherine Tallan (RA2)

19-21 Budget Request

- Vendor Contract
 - \$841,046 General Fund
- Personnel, Services & Supplies
 - ISS6: technical design, bulk upload processing, development
 - AS2: scheduling, agency engagement, program onboarding
 - PA2: project management, documentation
 - RA2: data cleaning, hit rates
 - \$636,633 Other Fund
 - \$159,159 General Fund

* 17-19 to CJC through HB 2355

STOP PROGRAM UPDATE

ACHIEVEMENTS, SUCCESSES, AND NEXT STEPS



STOP PROJECT

ACHIEVEMENTS AND SUCCESSES

Implementation: the STOP Program

- Provides multiple, no-cost approaches for LEAs to submit data.
- Continues to be on schedule and on budget
- Has developed strong working relationships with law enforcement.
- Special thanks to Polk County, Lincoln County, Klamath Falls PD, Klamath County, Newberg-Dundee PD, Yamhill County, and Malheur County

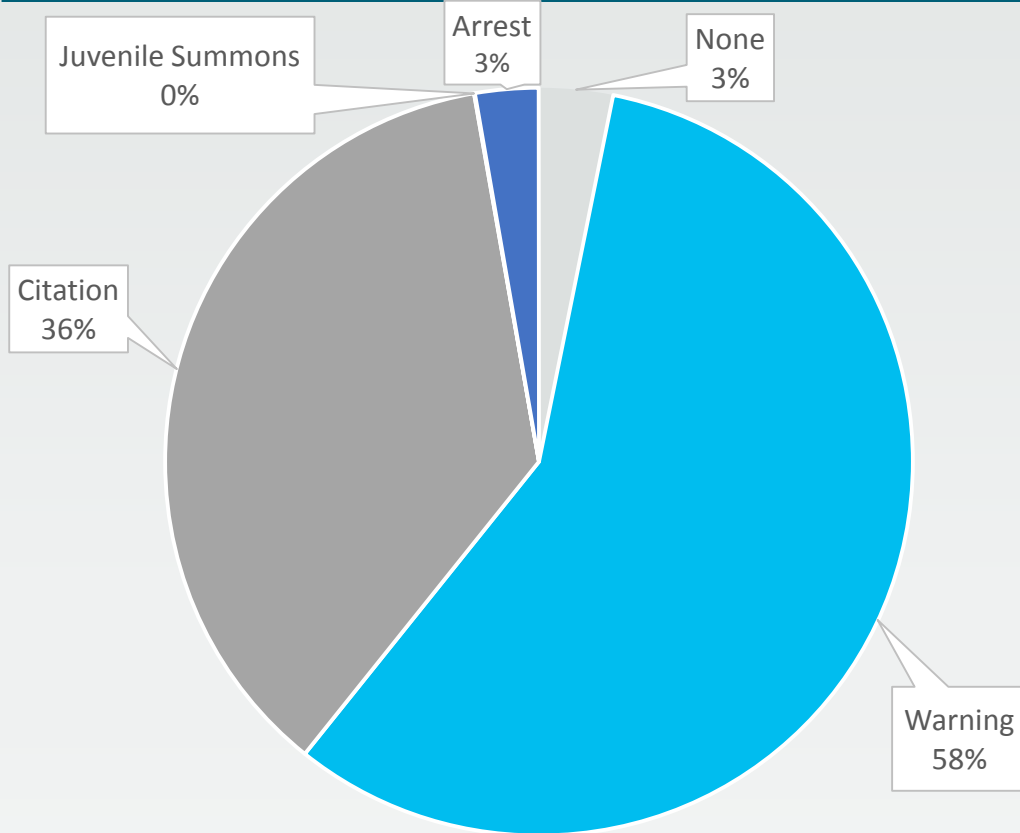
Research:

- To date, almost 335,000 stops have been reported by 33 law enforcement agencies.
- The CJC Research Team is working with national experts and other stops research groups to ensure high quality data analysis
- The Research Team has also developed strong working relationships with law enforcement to troubleshoot data issues.

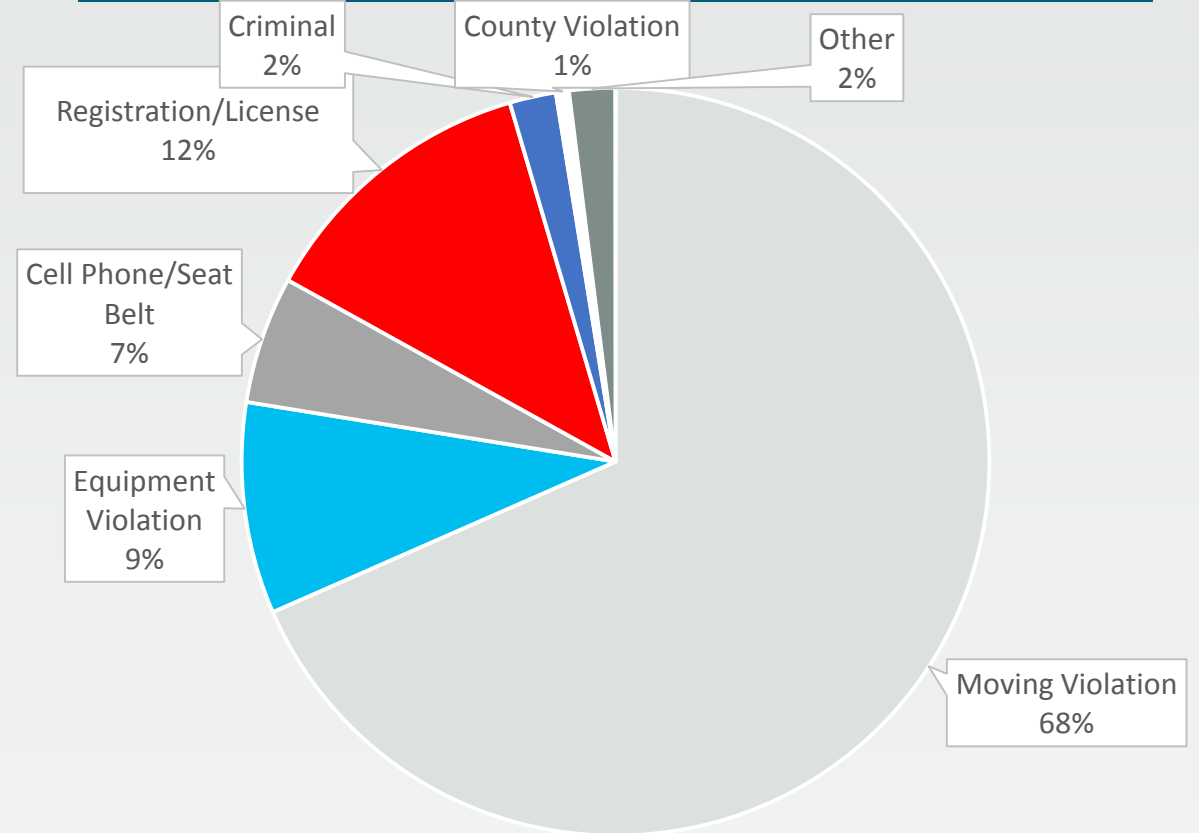
STOP PROJECT NEXT STEPS

ANALYSES AND RESEARCH RESULTS PREVIEW

Stop Disposition



Stop Reason



STOP PROJECT NEXT STEPS

ANALYSES AND RESEARCH RESULTS PREVIEW

| Variable | Freq. | Pct. |
|-------------------|---------|--------|
| Stop Type | | |
| Pedestrian | 9,417 | 2.82% |
| Traffic | 324,528 | 97.18% |
| Search Conducted? | | |
| No | 324,462 | 97.16% |
| Yes | 9,486 | 2.84% |
| Search Findings | | |
| Alcohol | 1178 | 12.42% |
| Drugs | 2,634 | 27.77% |
| Stolen Property | 228 | 2.40% |
| Weapons | 538 | 5.67% |

| Variable | Mean/Pct | SD |
|-----------------|----------|---------|
| Perceived Race | | |
| White | 77.90% | |
| Black | 4.82% | |
| Hispanic | 12.04% | |
| Asian/PI | 3.27% | |
| Native American | 0.57% | |
| Middle Eastern | 1.39% | |
| Gender | | |
| Male | 66.25% | |
| Female | 33.38% | |
| Non-Binary | 0.36% | |
| Average Age | 38.04 | (15.28) |

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ANALYSES AND RESEARCH RESULTS PREVIEW

- Currently, the CJC Research Team is:
 - Continuing to clean and audit data as it is received.
 - Examining location data to determine completeness and quality.
 - Estimating pilot models for Veil of Darkness, Hit Rates, and Matching Analyses for post stop outcomes.
 - Conceptually planning and building interactive dashboards.
- We hope to have results to begin engagement by early fall.

General STOP Program Questions?

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