**ShotSpotter®**
Detect · Protect · Connect

SHOTSPOTTER CONNECT™

# Community First Patrol Management Deters Crime and Promotes Positive Community Engagement

## The Public Safety Challenge

Research proves that high-visibility patrols are an effective deterrent to crime. The challenge is determining exactly where and when to send limited patrol resources without creating over-saturation or areas of gaps of police services. Without real-time access to multiple data inputs, deployment strategies can result in a day-in day-out routine of patrolling in the same locations with no real effect. Similarly, policing areas based on traditional hot spot analysis or solely on officer experience, while made with good intentions, may leave the community feeling over-policed and discriminated against.

## Make Your Community Safer with Precision Policing

With ShotSpotter Connect, command staff now have access to a precision-policing tool that maximizes crime deterrence with limited resources while mitigating potential bias. ShotSpotter Connect is a patrol management solution that uses artificial intelligence to direct officers to the locations with the highest risk of crime for a particular day and time to prevent crime before it occurs. The system calculates the time spent in each area and presents the light touch tactics by crime type. Command staff gain better visibility into whether officers completed their patrol assignments, the tactics applied and any activities conducted - all in an effort to reduce overall crime and positively engage the community.



### SHOTSPOTTER'S INNOVATIVE APPROACH

**Crime Prevention:** Precise directed patrols based on AI that simultaneously use multiple crime theories are superior to traditional hot spot analysis and maximize crime deterrence.

**Force Multiplier:** In an era of increasingly limited resources, agencies can use fewer officers directed to the right places at the right times while getting a bigger impact.

**Limit Over-Policing and Potential Bias:** The exclusive Over-Policing Limiter helps reduce the instances of over-policing in areas that are approaching saturation, showing respect for the community.

**Visibility into Patrol Activities:** A suite of reports provides command staff with insights into where officers were and what they were doing that helps optimize patrol strategies and ensure officer accountability.

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With ShotSpotter you will…

### DETECT

**Crime Risks** – Proactively allocate patrol resources to areas of highest risk for crime to optimize officers' time in field

**Over-Policing** – Randomizing patrol assignments avoids over-saturation of any particular area

**Gaps** – Ensure that all of your community is served fairly and objectively

### PROTECT

**Community** – Placing patrol units at the right place and time to prevent crime is a win-win for the agency and the community

**Plan** – Data-driven patrol plans justify deployments

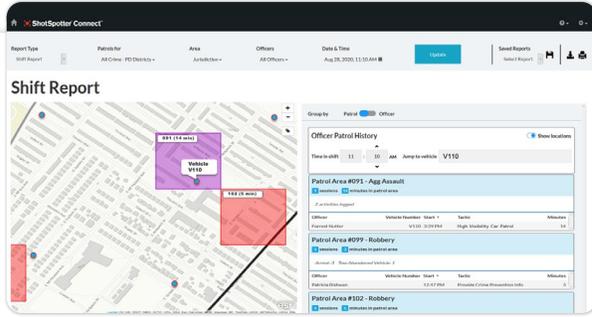**Officers** – Alert officers to potential high-risk violent crime areas

### CONNECT

**Officers** – Data-based risk assessments by shift and suggested tactics delivered to officers' MDT or smart phones augments their experience

**Command Staff** – Reports provide greater visibility into patrol activities including the time spent at directed patrol areas and the tactics utilized that allow the command staff to make informed decisions to improve the patrol strategies
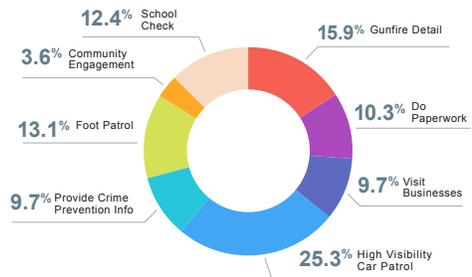
**Crime Analysts** – By automating time-consuming manual data crunching activities, analysts are freed to add or suppress directed patrols based on late breaking intel

# Gain Greater Visibility into Patrol Activities with Detailed Reporting Options
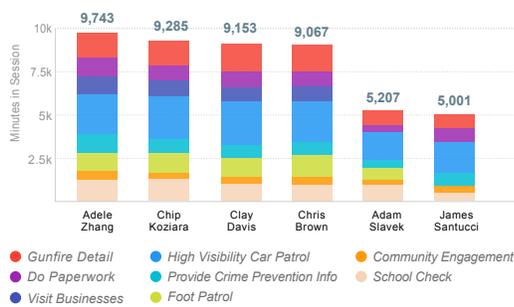


The **Shift Report** provides Command Staff with an option to obtain near real-time insights into patrol operations, enabling them to see where their officers were and what they were doing over time.
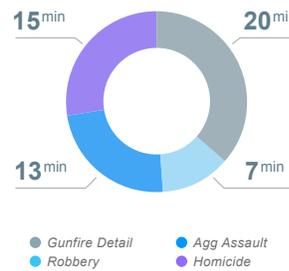
## FREQUENCY OF TACTICS EMPLOYED



- 12.4% School Check
- 3.6% Community Engagement
- 15.9% Gunfire Detail
- 13.1% Foot Patrol
- 10.3% Do Paperwork
- 9.7% Provide Crime Prevention Info
- 9.7% Visit Businesses
- 25.3% High Visibility Car Patrol

The **Tactic Report** enables the agency to measure and evaluate what tactics officers are using to deter crime.

## MINUTES IN SESSION BY TACTIC



Adele Zhang 9,743 · Chip Koziara 9,285 · Clay Davis 9,153 · Chris Brown 9,067 · Adam Slavek 5,207 · James Santucci 5,001

- ● Gunfire Detail
- ● High Visibility Car Patrol
- ● Community Engagement
- ● Do Paperwork
- ● Provide Crime Prevention Info
- ● School Check
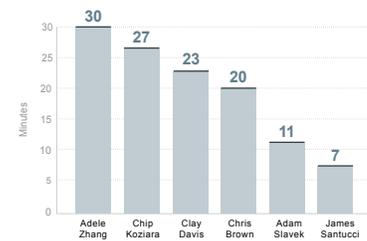- ● Visit Businesses
- ● Foot Patrol

The **Officer Report** allows the command staff to see how time has been spent on each tactic to hold officers accountable and enhance information relevant to officer evaluations.

## AVERAGE MINUTES PER SESSION



15 min · 20 min · 13 min · 7 min

- ● Gunfire Detail
- ● Agg Assault
- ● Robbery
- ● Homicide

## AVERAGE MINUTES PER SESSION PER GUNFIRE CRIME TYPE



Adele Zhang 30 · Chip Koziara 27 · Clay Davis 23 · Chris Brown 20 · Adam Slavek 11 · James Santucci 7
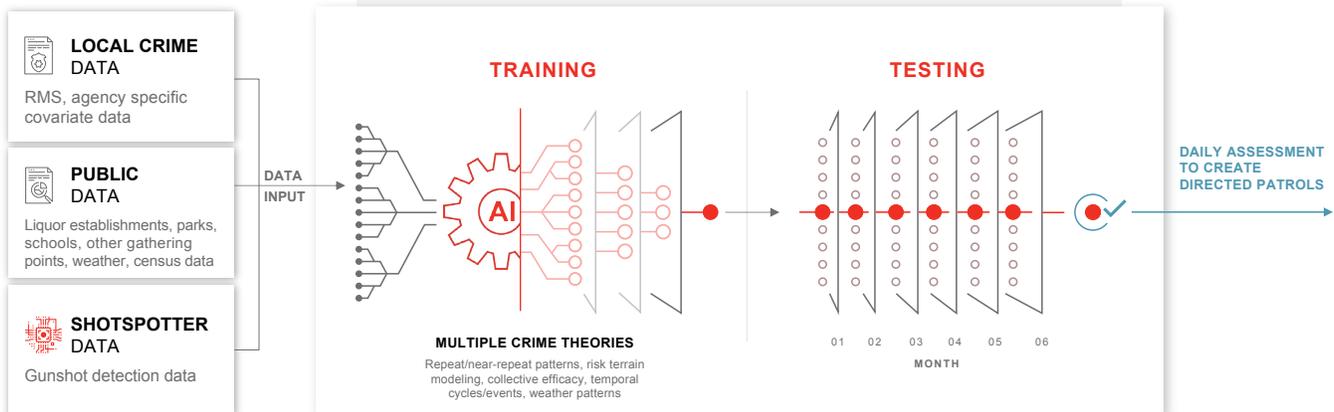
The **Crime Type Report** presents insights on the average minutes spent on directed patrols by officer for each crime type, helping agency leaders optimize their patrol strategies to maximize crime deterrence.

# How ShotSpotter Connect Works

## CRIME RISK ASSESSMENT MODEL



**LOCAL CRIME DATA**
RMS, agency specific covariate data

**PUBLIC DATA**
Liquor establishments, parks, schools, other gathering points, weather, census data

**SHOTSPOTTER DATA**
Gunshot detection data

DATA INPUT

**TRAINING** — AI — MULTIPLE CRIME THEORIES
Repeat/near-repeat patterns, risk terrain modeling, collective efficacy, temporal cycles/events, weather patterns

**TESTING** — 01 02 03 04 05 06 MONTH

DAILY ASSESSMENT TO CREATE DIRECTED PATROLS

**1 Data Input**
Connect collects and analyzes a mix of crime data and objective non-crime data to enable the most accurate risk assessments and minimize the potential for bias

**2 Model Training**
The data goes into the transparent crime-risk assessment model which uses AI to analyze enormous amounts of data and determine correlation of inputs to crime

**3 Testing**
The model is tested to assess crime risk for the last 6 months and compare to crime that actually happened

**4 Rollout**
Once the system reaches its threshold accuracy, it is ready to provide directed patrols

**ShotSpotter®**

If you would like to learn more about ShotSpotter, please visit us at **www.shotspotter.com**