

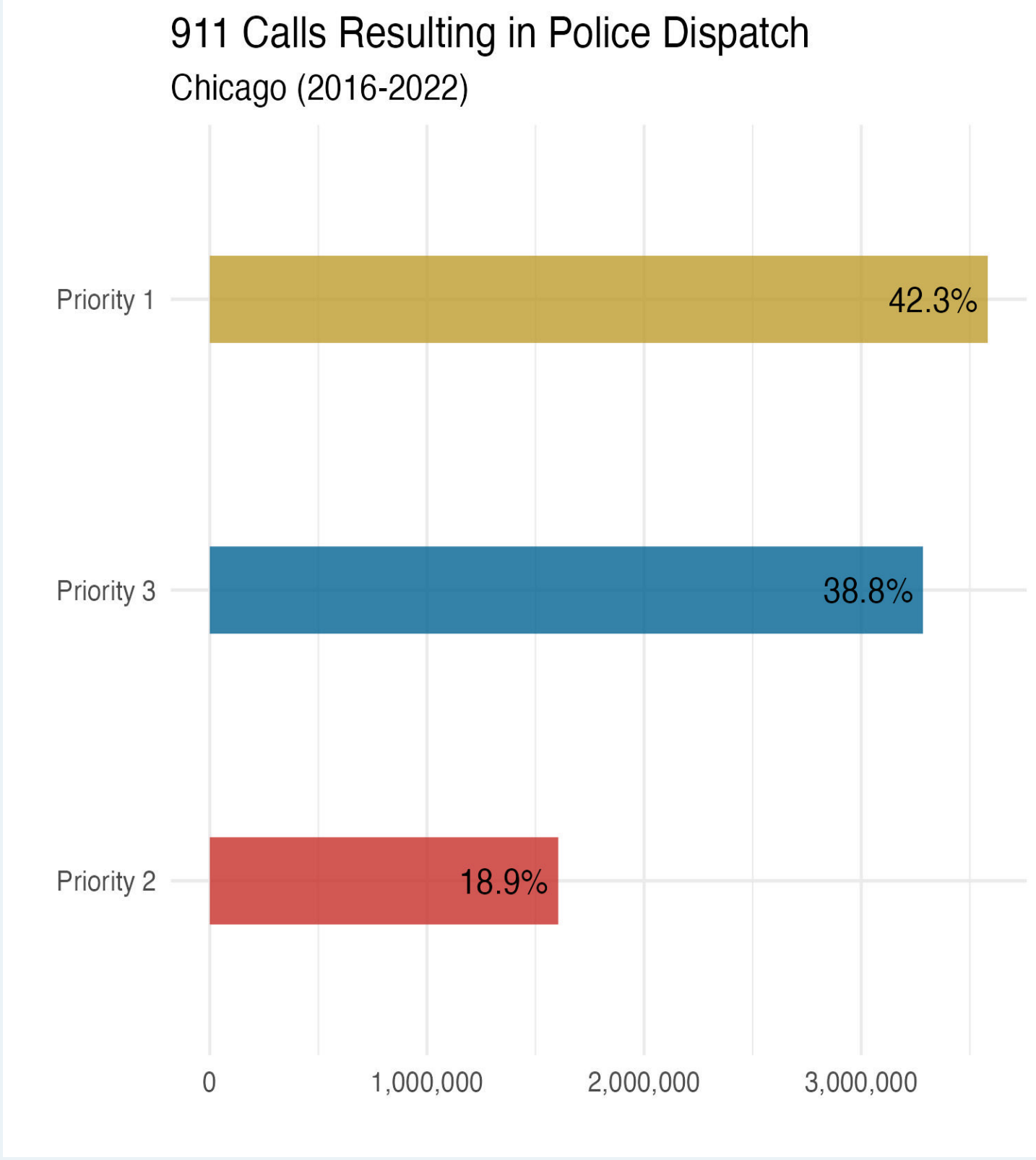
ShotSpotter technology is in 150+ cities world-wide to mitigate gun violence. We find unintended consequences.

Setting:
Chicago, IL



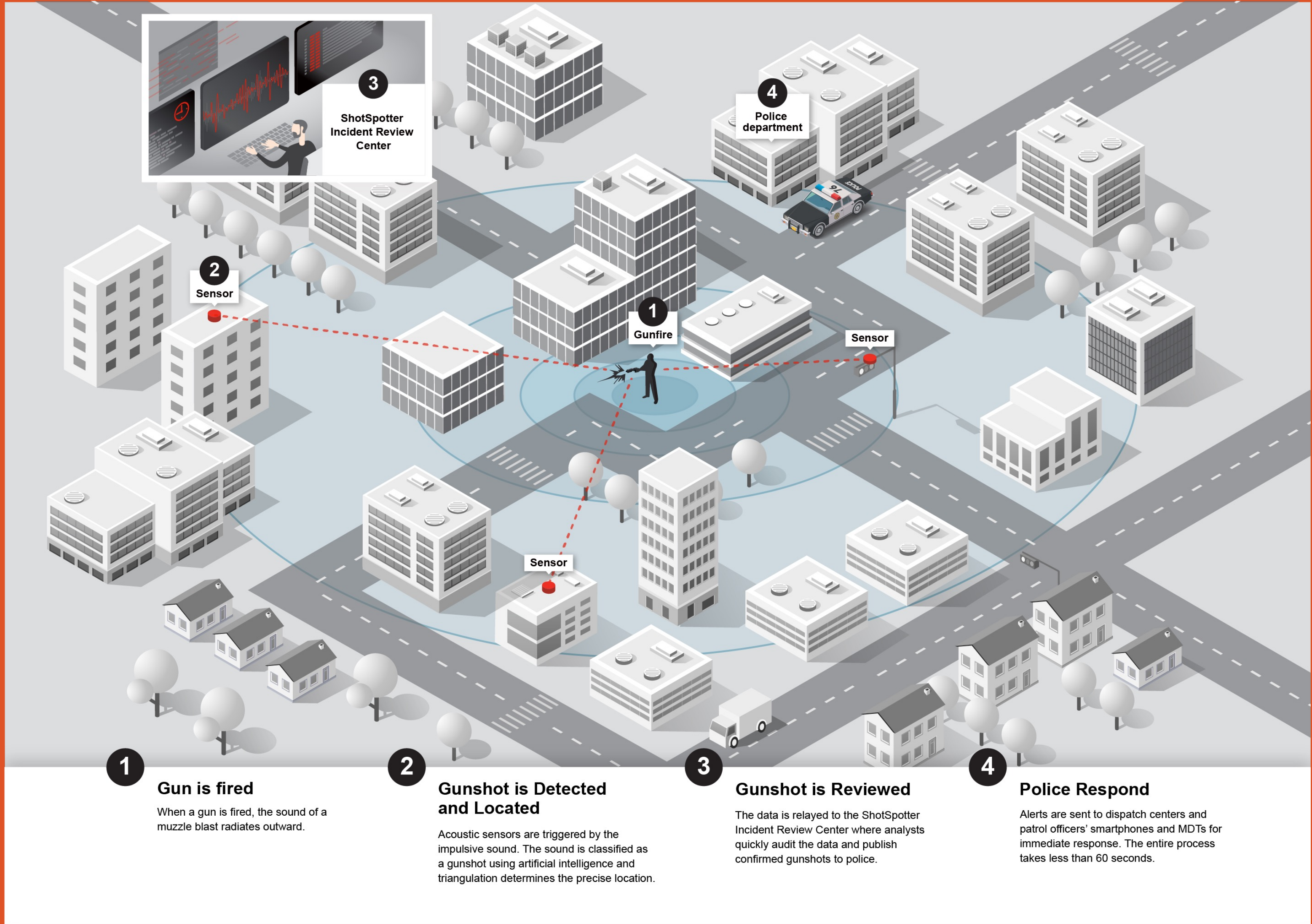
We use a comprehensive data set of Priority 1 911 call dispatches over 2016-2022. Merge with shifts, arrests, victimizations.

Data:
Priority 1 911 Call Dispatches

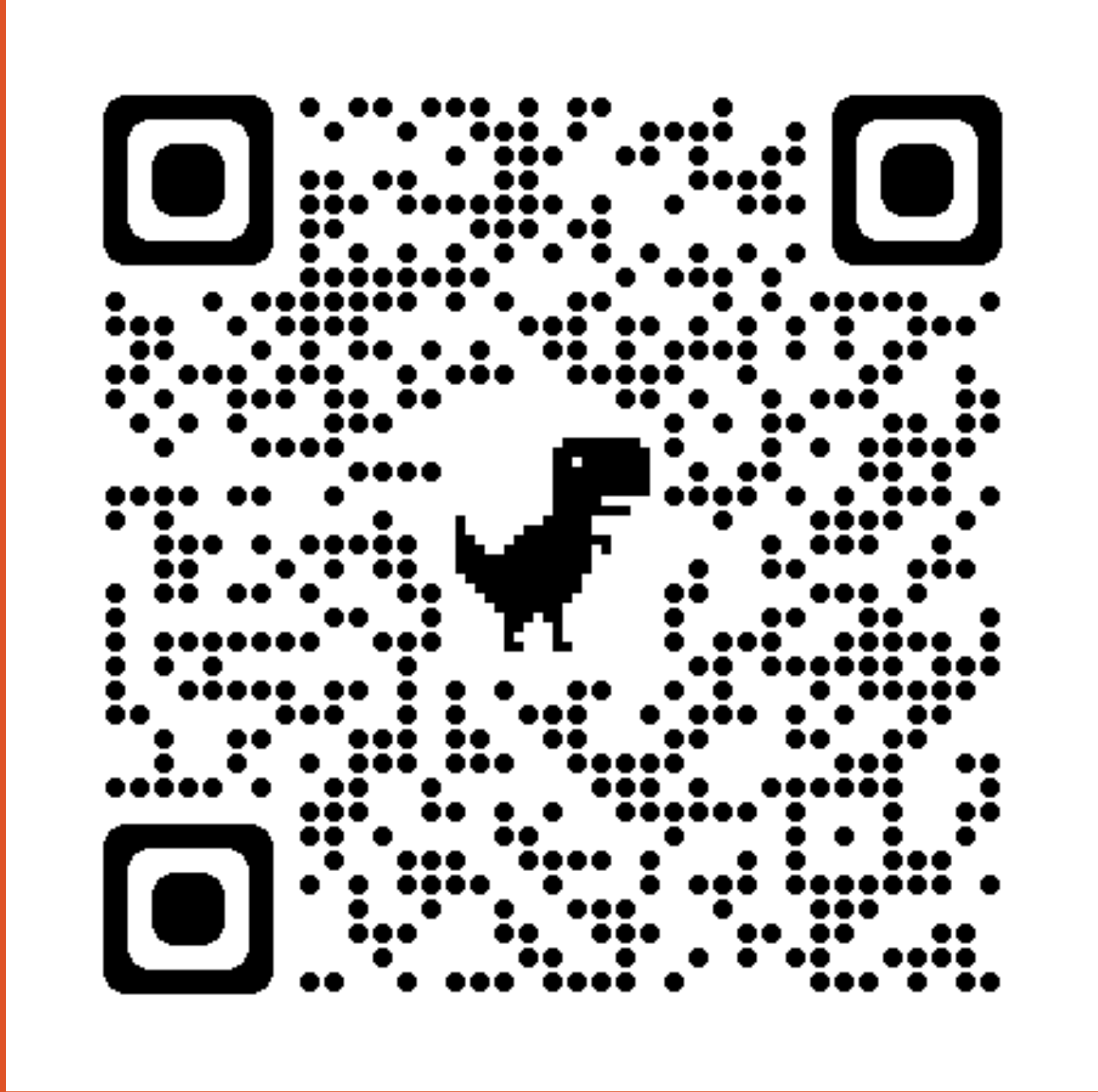


The Effect of ShotSpotter Technology on Police Response Times

Michael Topper and Toshio Ferrazares

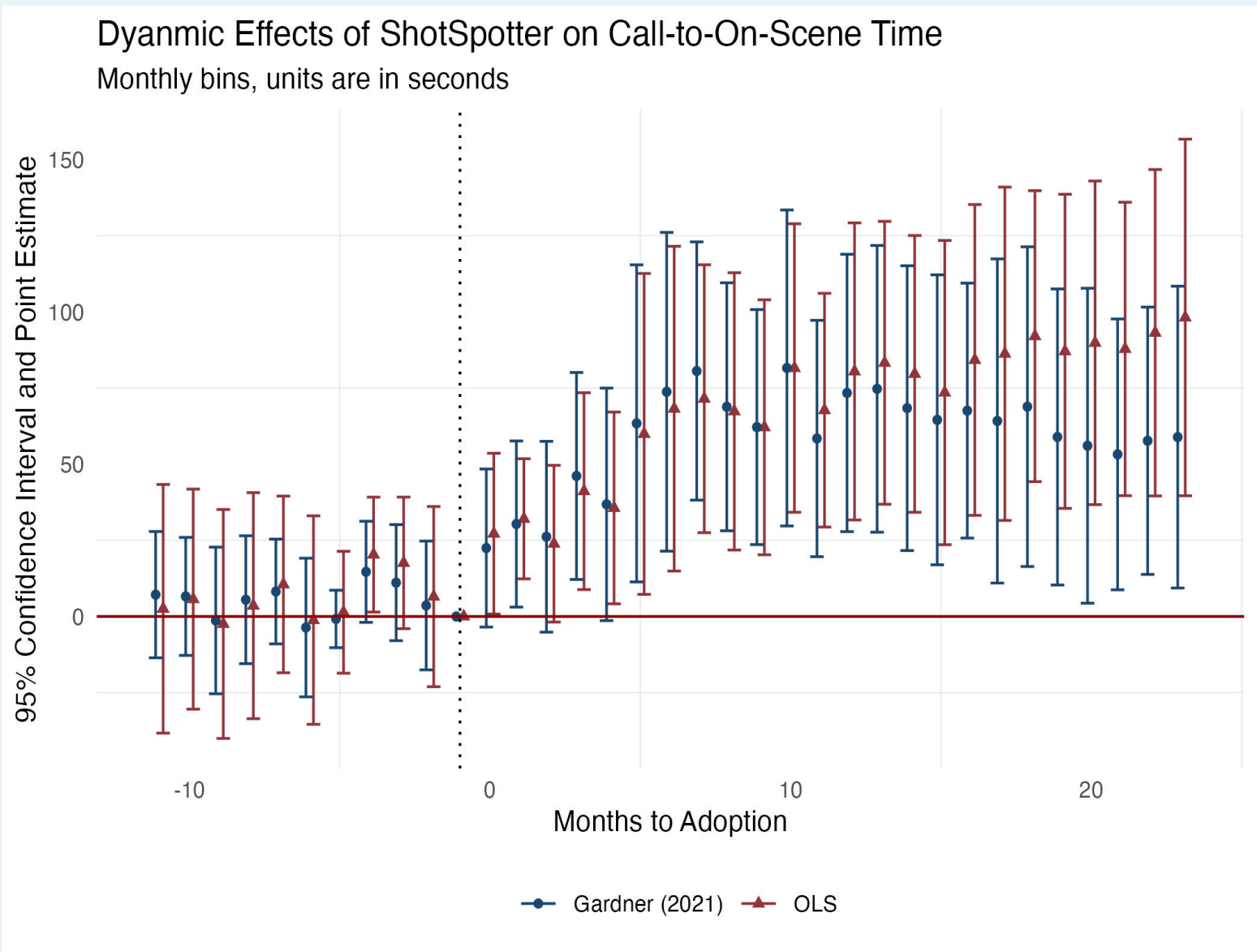


Source: Soundthinking website <https://www.soundthinking.com/law-enforcement/gunshot-detection-technology/>



Dispatchers take +1 min to find available officer, officers take +2 to arrive on-scene. Results in lower probability of arrest.

Method:
Staggered D-in-D



ShotSpotter incapacitates officers from attending to 911 calls by constraining officer time. Driven by times with fewer officers.

Result:
More SST Alerts,
Larger Effects

