

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

Setting: Chicago

On an **average day** in Chicago,

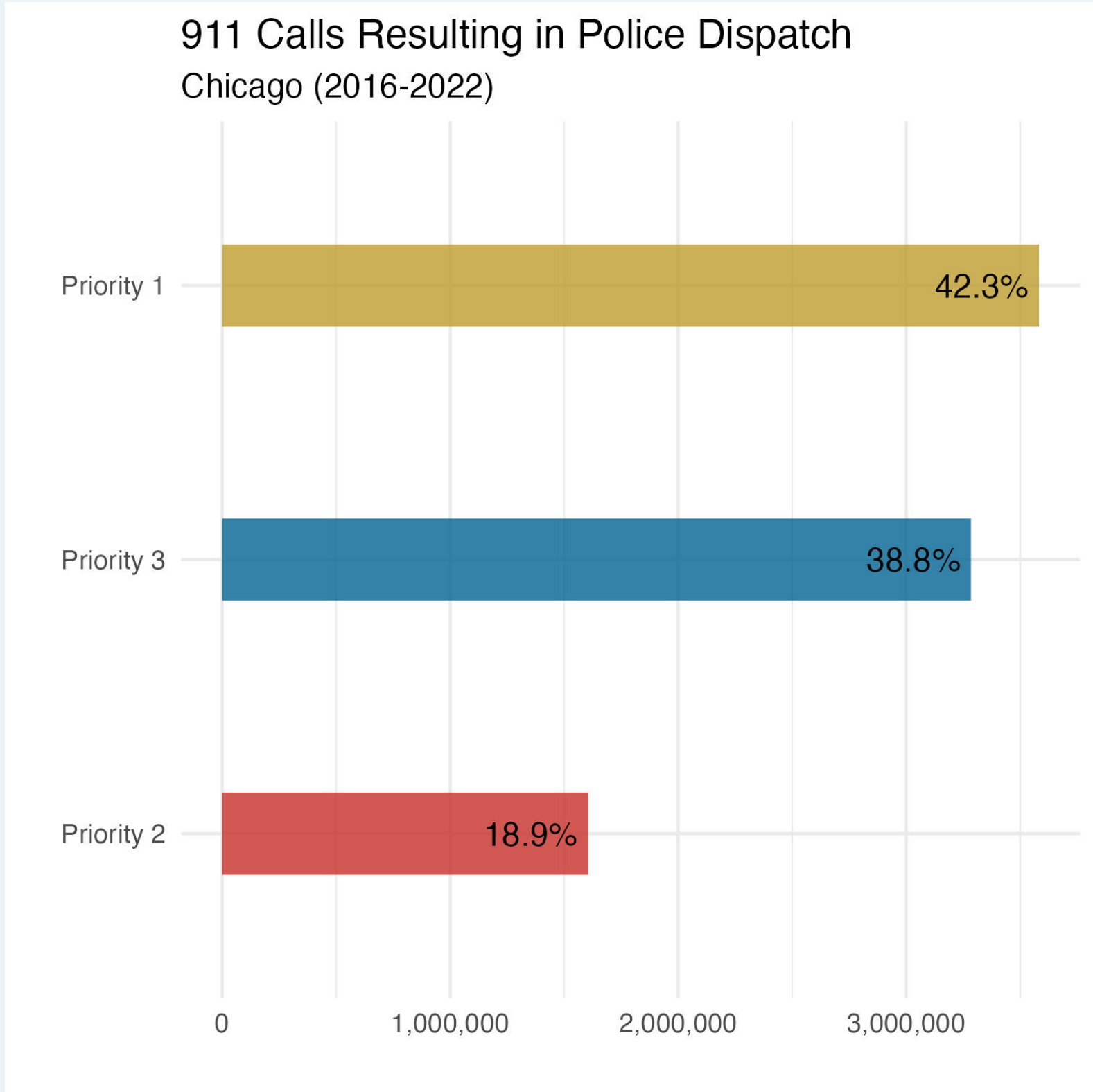
there are more than **61 ShotSpotter-initiated police deployments** that turn up **no evidence of any crime, let alone gun crime.**

EndPoliceSurveillance.com

This study was conducted by the MacArthur Justice Center

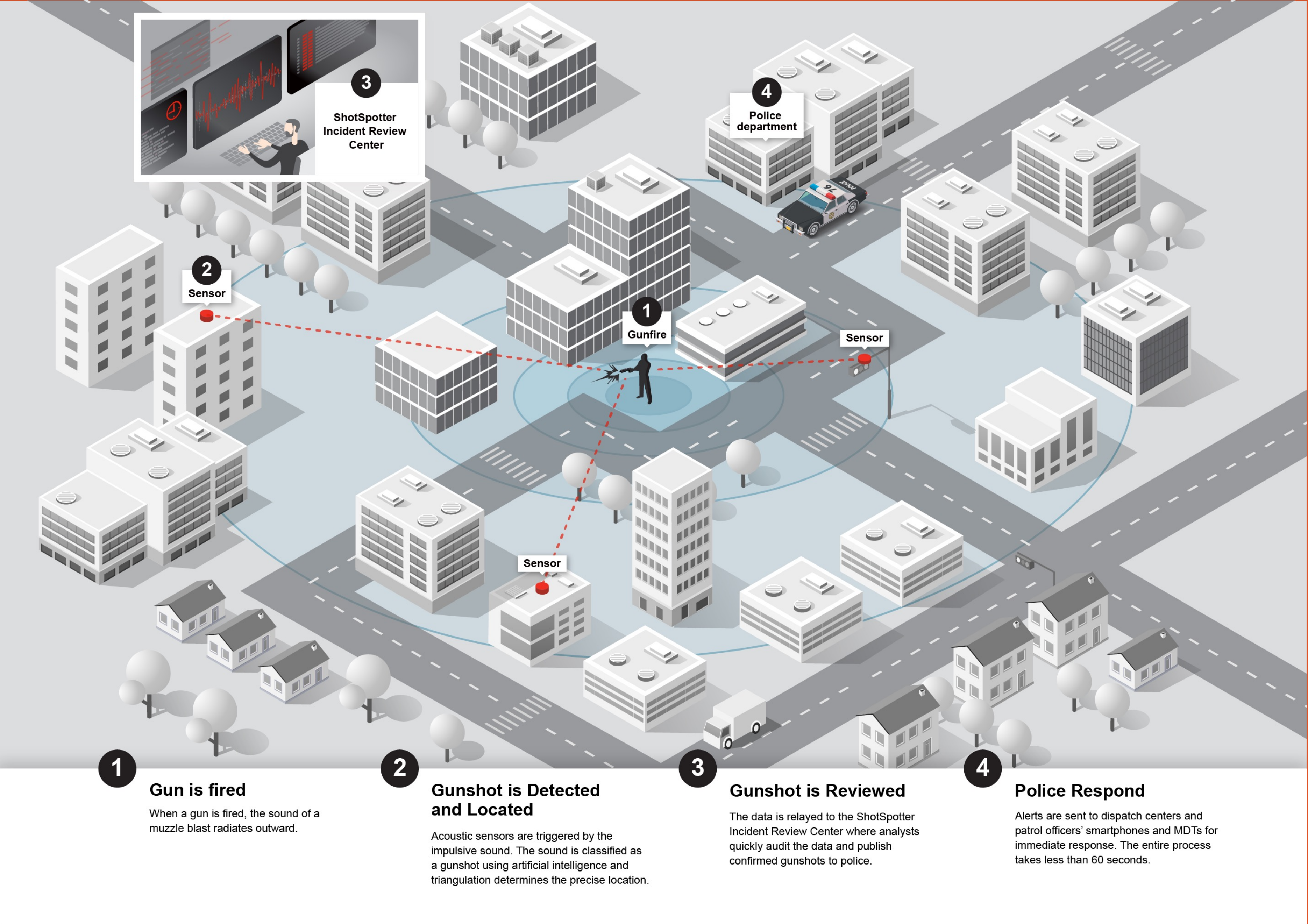
We use a comprehensive data set of Priority 1 911 call dispatches over 2016-2022. Merge with shifts, arrests, victimizations.

Data: Priority 1 911 Call Dispatches



The Effect of ShotSpotter Technology on Police Response Times

Michael Topper and Toshio Ferrazares

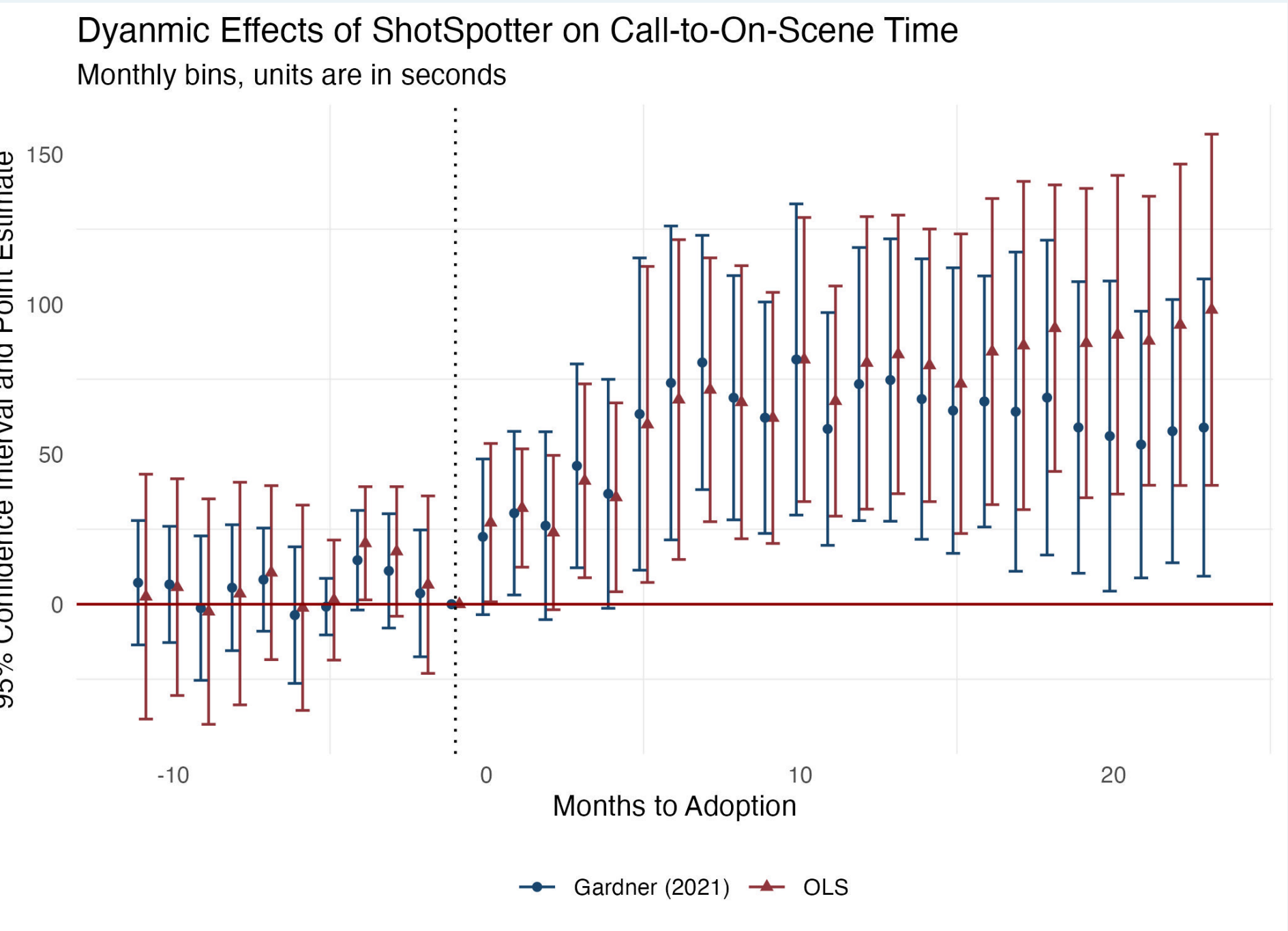


Source: Soundthinking website <https://www.soundthinking.com/law-enforcement/gunshot-detection-technology/>



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.

More ShotSpotter alerts results in larger effects

