Predictive Policing Pilot Evaluation

June xxxx, 2016

NYPD OMAP ORS

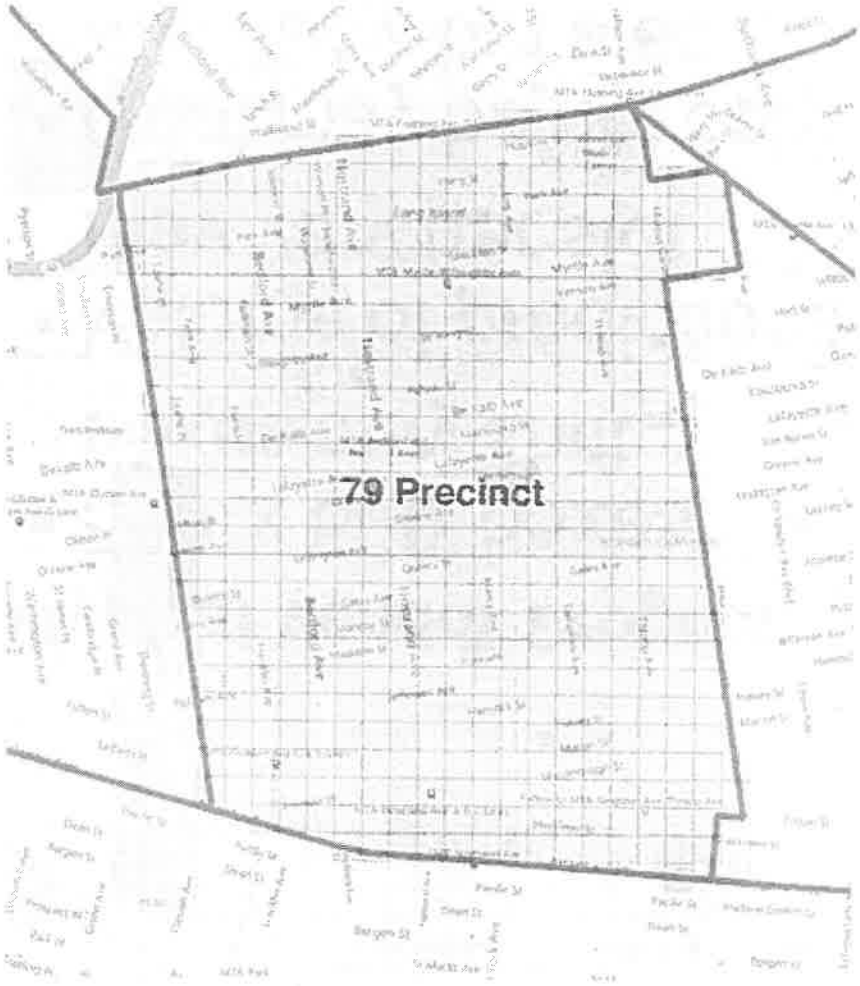
Pilot Background

- "Predictive policing" in this presentation refers to the selection of a limited number of geographic boxes, predicted to have the highest risk of crime, for an upcoming time window
- Three external vendors bid to participate in a no-cost NYPD pilot of predictive policing algorithms: PredPol, Azavea (HunchLab), and KeyStats
- OMAP and the Predictive Policing Committee, which included DCO, OCD, Counterterrorism, and ITB, established the framework for the pilot and the evaluation

Pilot Parameters

Predict 300' x 300' boxes:

- Either five boxes per precinct or 1% of patrol borough's area
- Per platoon
- Per crime type:
  - Robbery
  - [Felony]? Assault
  - Burglary
  - Grand Larceny from Person
  - Larceny from Auto
  - Shooting
  - Plus one composite of all six crime types



Pilot Parameters

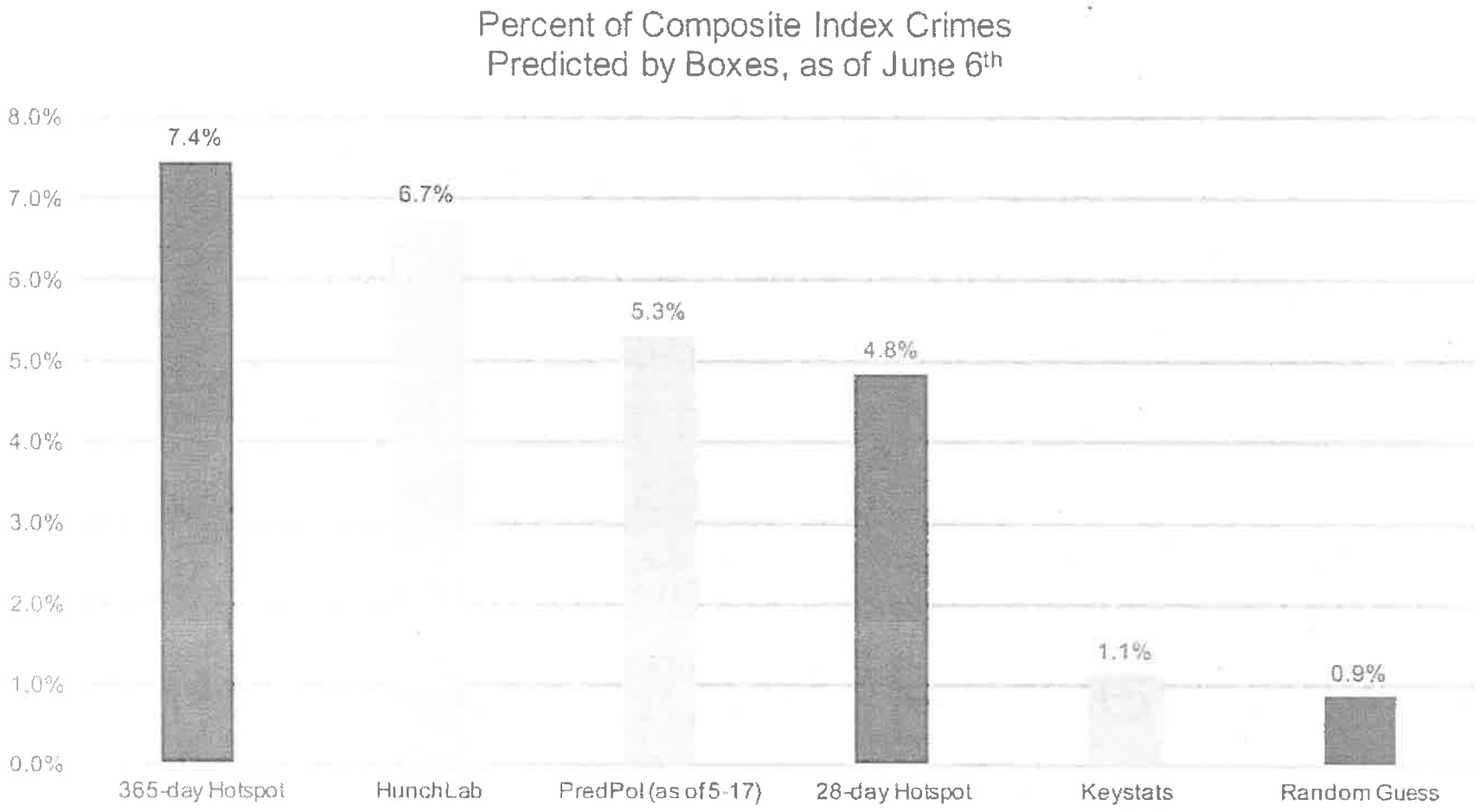
NYPD Pilot

- Static 300' x 300' grid for all vendors
- Five predictions every slot
- **Goal is to maximize fairness of comparison**, hit accuracy

Typical Vendor Product

- 500' x 500' boxes; boxes may shift
- Volume of predictions may vary per slot
- Goal may be not only accuracy, but also practicalities of patrol

Pilot Results: Daily Precinct-Level Predictions



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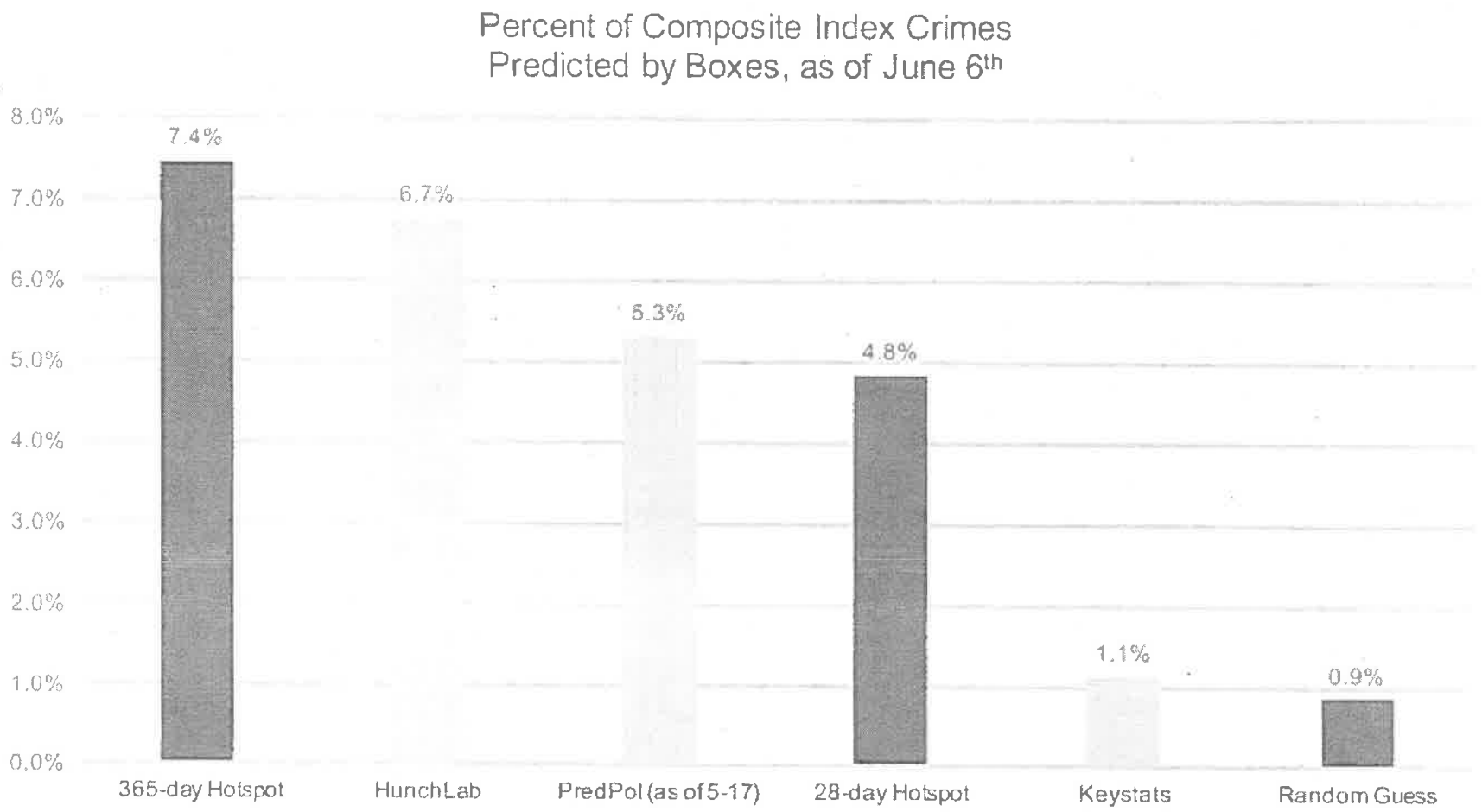
Pilot Results: Weekly Precinct-Level Predictions [Placeholder]



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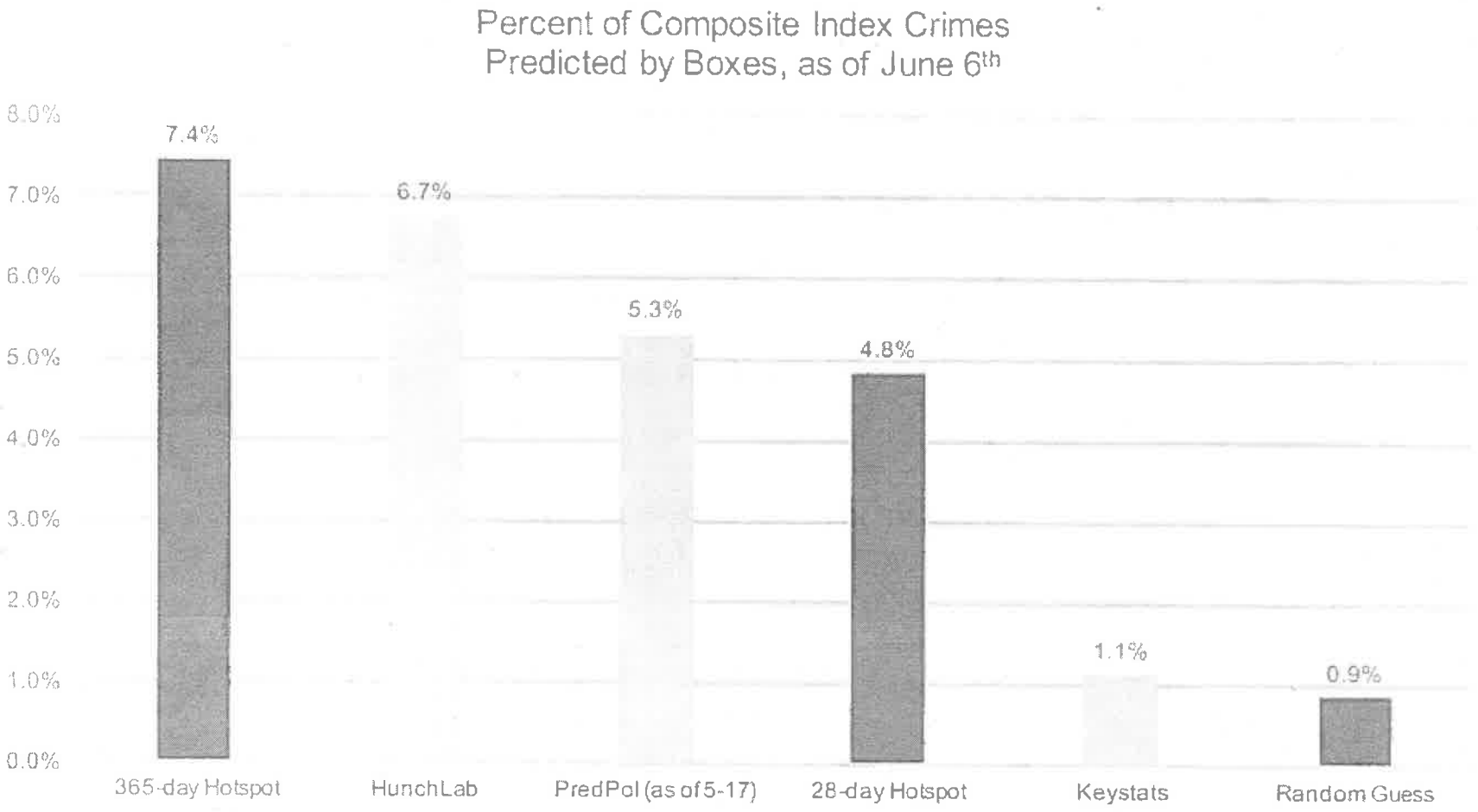
Appendix:
Additional Charts

Pilot Results: Robbery [Placeholder]



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Pilot Results: Burglary etc etc [Placeholder]