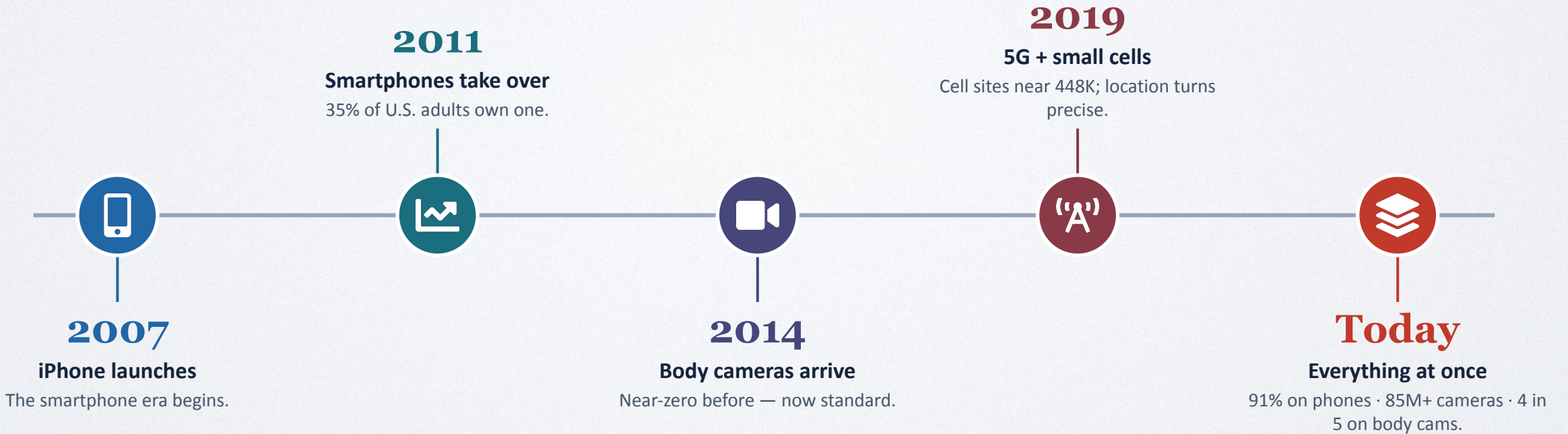


Everything Records Now

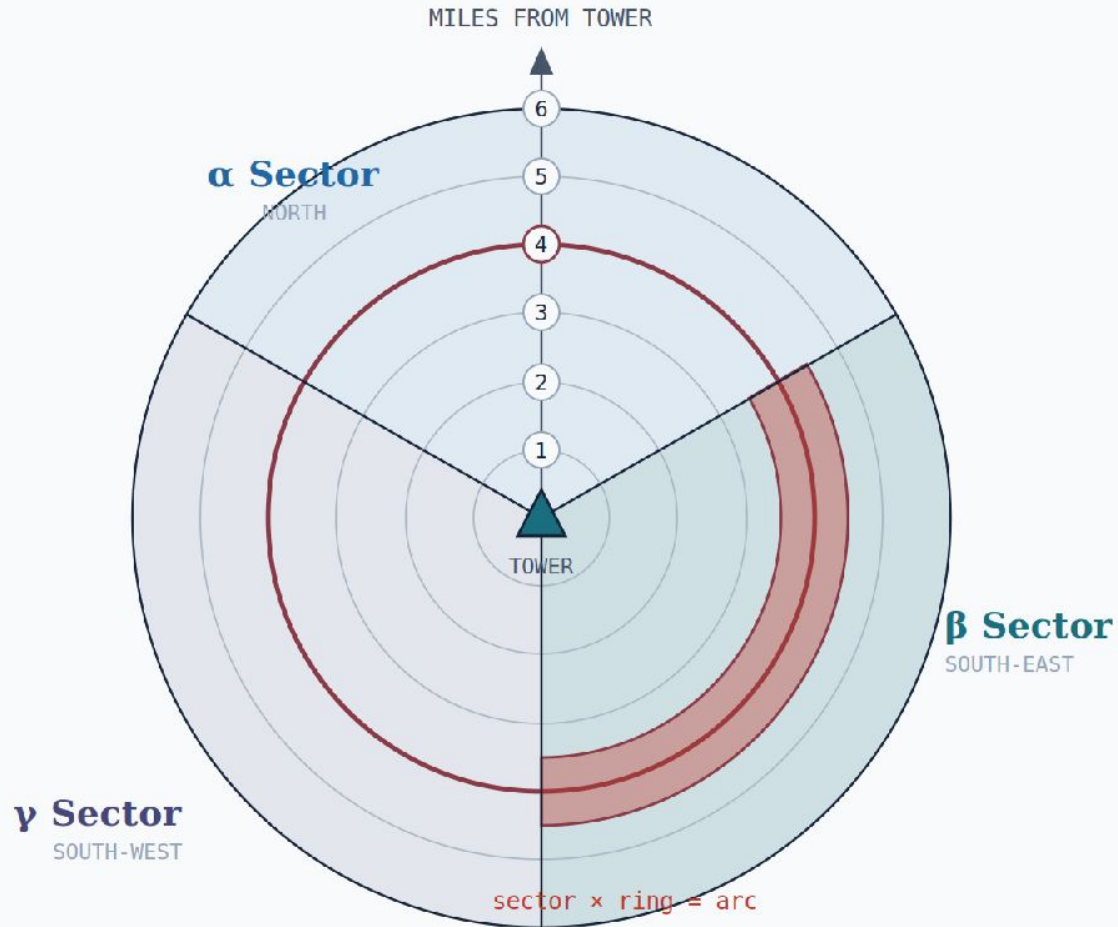
Digital evidence is new — and it's accelerating.

The data outran the procedures.



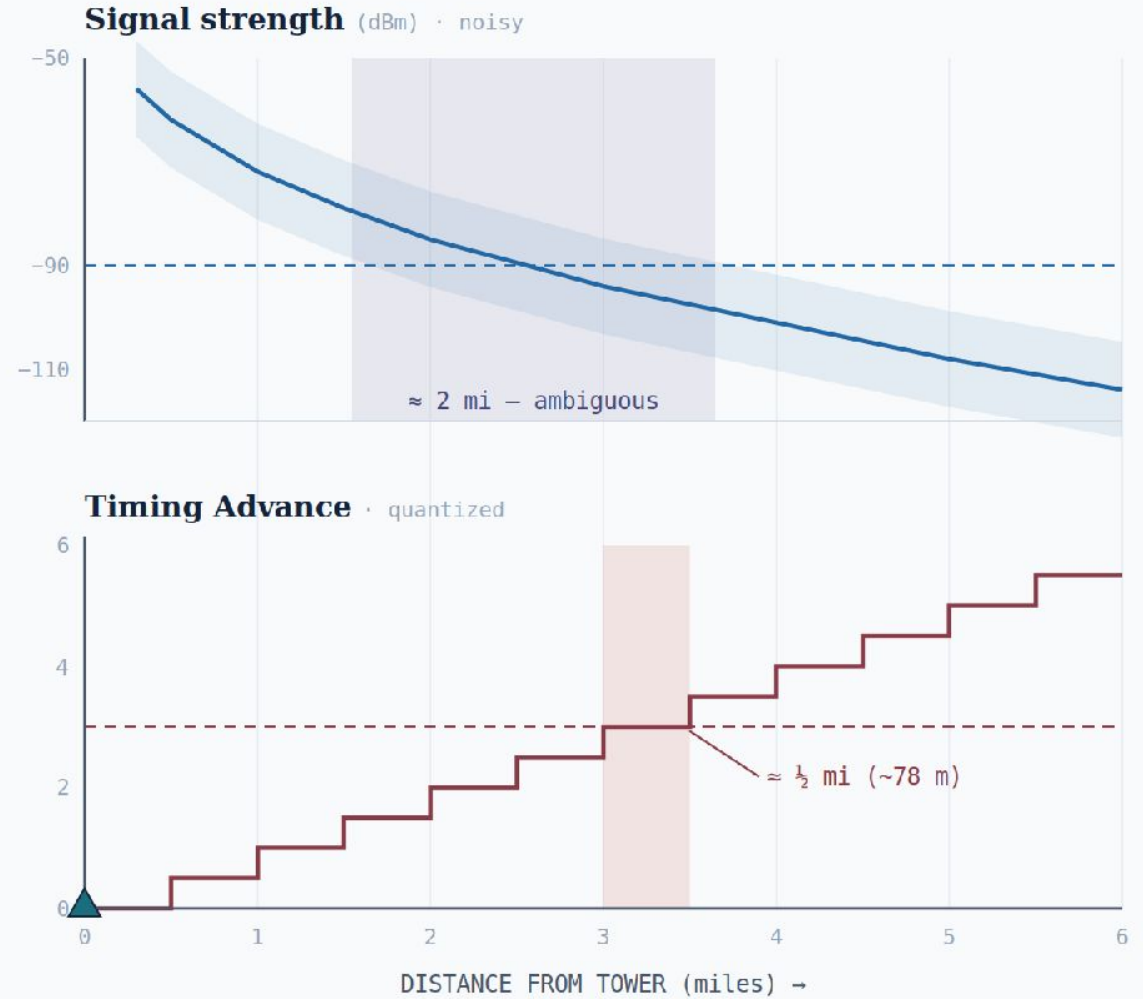
Cell site: sectors & range

3 faces (direction) × rings (distance)



Reading distance from a tower

signal (fuzzy) vs. Timing Advance (measured)



Left: where the phone is (sector × range). Right: how distance is read – a signal value is fuzzy, a TA value is measured.

Mobile Device Location Timeline

MATTER
State v. Whitfield

CASE NO.
26-F-184

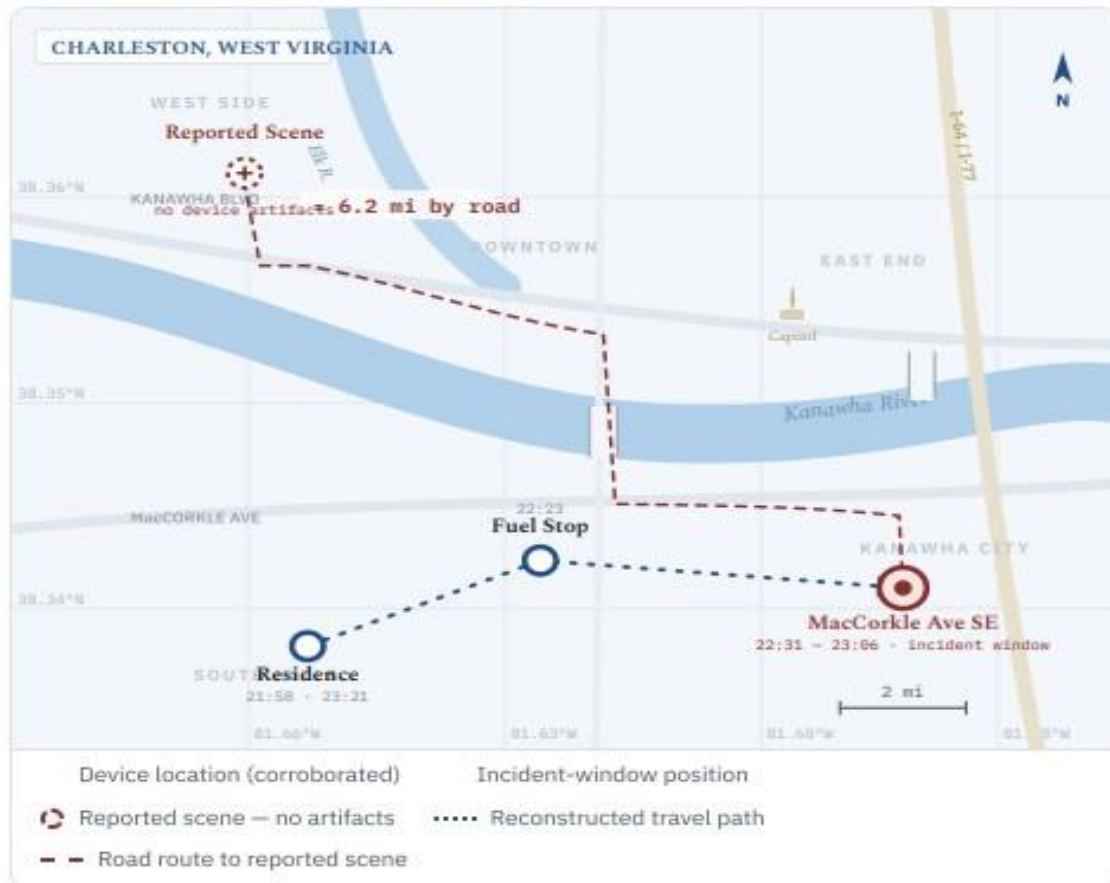
VENUE
Kanawha Co., WV

DEVICE
iPhone 13 · A2482

DATE
14 Mar 2026

Device ≈ 6.2 mi (by road) from reported scene during incident window. Across 22:42–22:58 EDT, location artifacts place the device **continuously in Kanawha City (MacCorkle Ave SE)**. No artifact in the extraction places it at the reported West Side scene (1247 Washington St W) at any point on the relevant date.

LOCATION PLOT · CHARLESTON, WV



RECONSTRUCTED TIMELINE · EDT

- 21:58 ○ Residence — 1408 Bridge Rd, South Hills HIGH
38.3288°N 81.6471°W · routined/Cloud-V2.sqlite + home WiFi
- 22:05 ○ Departure — vehicle connect CONTEXT
Unlock + CarPlay pairing · knowledgeC.db
- 22:14 ○ Cell registration — Corridor G / Oakwood Rd SECTOR
CI 118327 · LAC 4821 · cache.sqlite CellLocation
- 22:23 ○ Fuel stop — 4500 MacCorkle Ave SW HIGH
38.3470°N 81.6790°W · EXIF GPS IMG_4471.HEIC
- 22:31 ○ 2418 MacCorkle Ave SE — arrival HIGH
38.3402°N 81.5808°W · WiFi BSSID · cache.sqlite WifiLocation
- 22:42 ○ Incident window — device stationary WINDOW
-22:58 Cell sector unchanged · app in foreground · near-zero motion. Scene ≈6.2 mi NW; no artifacts there.
- 23:06 ○ Navigation query — destination “Home” CONTEXT
Route requested · Maps GeoHistory
- 23:21 ○ Residence — return, South Hills HIGH
38.3288°N 81.6471°W · routined visit + home WiFi

Acquisition. FFS via UFED 7.x, Physical Analyzer.

Artifacts. routined, cache.sqlite, knowledgeC.db, EXIF, WiFi.

Corroboration. ≥2 independent sources per point.

Time basis. UTC → America/New_York (EDT).

PROVEN DATA

DIGITAL FORENSICS & EXPERT TESTIMONY

MOBILE DEVICE FORENSICS

What a phone remembers

The artifacts a device leaves behind —
recovered, validated, and defensible in court.

extraction • authentication • expert testimony

