DON'T GO THERE...
Hot Spots, Dens of Iniquity and
Risky Facilities,
or
Why Do So Many Bad Things Happen at a Few Places

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WHAT IS COMMON ABOUT THESE PLACES?
They are among the Top 10 Call Locations for Cincinnati, 2003

1. University Hospital – 824 calls
2. Corry St. Shopping Ctr – 734 calls
3. Drop-In Center – 532 calls
4. W. Liberty Gas Station – 429 calls
5. Alms Apartments – 419 calls
6. Westwood Apt Complex – 347 calls
7. Westwood Apt Complex – 296 calls
8. Greyhound Bus Station – 288 calls
10. Childrens Hospital – 250 calls

Thanks to Cincinnati PD for data
OVERVIEW

• Problem
• 80-20 rule
• Theories
• Responding
PROBLEM

- Crime & Disorder are concentrated
- Concentration at places
- Why would some places be worse than others?
- Concept confusion (Is this just another hot spot lecture?)
“HOT SPOT” COVERS A MULTITUDE OF SINS IN MANY SCALES

Illustrations from
K. Harries *Mapping Crime: Principle and Practice*
Alcohol-related crime in Melbourne's inner suburbs could be traced to specific venues, with a pilot program to identify problem areas and operators. While the $110,000, one-year pilot program operates, hospitals will be encouraged to electronically transfer information to police when a patient is admitted after an incident in a nightclub precinct, to be investigated when police identify a pattern emerging from particular hotels or nightclubs.
RISKY FACILITY ANALYSIS FOCUS ON A SINGLE TYPE OF PLACE

BARS IN SHAWNEE (KS) VARY IN THE TROUBLE THEY PRODUCE

A few are hot

Most are cool

Thanks to Susan Wernicke, Shawnee PD
80/20 RULE

• Applies to ANY Facility
• Seldom Exactly 80-20
• Most Facilities Are Cold - A Few Are Hot
• Most Bad Things Happen In A Few Facilities – Regardless Type
• This Is A Law of Thumb

Worst 20% (3) of the bars account for 62% of reports
Highest 20.3% produce 84.9% of reports

Thanks to Christopher Bruce, Danvers PD
Violent Crimes in Apartment Complexes with over 50 Units
Jacksonville FL

Most violent 20% account for 48% of incidents

Thanks to Stacy Belledin, Jacksonville-Duval SD
CALLS FROM MOBILE HOME PARKS IN CHULA VISTA CA
July 30, 2003 through July 29, 2004

Highest 23% of parks contribute 45% of calls from parks

Thanks to Karin Schmerler and Aaron Anderson, Chula Vista PD
SCANNING FOR RISKY FACILITIES

- Select a facility type important to your agency
- Get a list of everyone of them, with their addresses
- Match incidents to their addresses
- Rank facilities from worst to best
- Look at graph
- Calculate % of incidents at worst 10% or 20% of facilities
THEORIES OF CAUSES

• RANDOM VARIATION
• REPORTING

• MANY TARGETS/USERS
  – Crime generators*
• LOTS OF OFFENDERS
  – Crime attractors*
• POOR MANAGEMENT
  – Crime enablers**

* Brantingham & Brantingham (1995) “Criminality of Place…”
** Clarke & Eck (2003) Becoming a Problem Solving Crime Analyst…”
RANDOM VARIATION

• Possible to get concentration in a few places by some fluke of randomness

• Most likely when
  – Few locations
  – Number of events is low
  – Time period examined is short
  – Concentration is low

• Unlikely in most cases
  – Statistical tests available
  – If persistently hot over time, probably not random
REPORTING

• Facilities are hot because of organizational reporting behavior, not crimes per se

• Organization controls reporting
  – Shoplifting
  – Thefts from hospital patients
  – Minor assaults in homeless shelters
  – Police arrest statistics
  – etc.

• Less likely when victims can report directly
MANY TARGETS*
(crime generators)

- Bigger facilities have more targets
- More targets mean more crime
- Testable by examining risk – events/size
- Watch for two things
  - Change in shape of graph
  - Change in position of facilities on graph

* AKA the “Size Matters Thesis”
Jacksonville Apartment Complexes (>50 units)

Complexes ranked by number

Within a range of violence...

Sizes of Jacksonville Apartment Complexes (>50 Units)

Complexes ranked by number

…complex size varies a lot.
Violent Crime Rates in Jacksonville Apartment Complexes (>50 Units)

Complexes ranked by number:

Highest rates only loosely correspond to highest ranks.

Original shape similar, but individual complexes shift rank (e.g., #3 declines, #81 jumps).

Complexes ranked by rate:
NOTE THE FAMILIAR SHAPE

CHULA VISTA CHAIN HOTELS

Calls per Room

Size is measured by number of rooms.
But there may be other measures you could use.

Thanks to Karin Schmerler, Chula Vista PD
DOES SIZE MATTER?

• Hard to tell - often difficult to get size data!
  – Consistent records often unavailable
  – Measures are often less than ideal

• Size is often over rated – seldom entire story
  – Compare graphs of numbers and rates

• Which to target – high numbers or rates?
  – to reduce incidents and workload, number
  – to reduce risk, rate
LOTS OF OFFENDERS*  
(crime attractors)

• Common explanation
• Hard to verify
  – Many offenders, or
  – Few very active offenders
• Probably part of all risky facility problems
• Why do offenders come to these places?

*AKA “The Psycho hypothesis.”
POOR MANAGEMENT
(crime enablers)

• Owners & employees fail to regulate behavior
• Reduces protection to targets
• Enables offenders

• Common examples include
  – Persistent drug dealing places
  – Violent drinking places
  – Student rental housing
  – Abandoned buildings
WHAT IS POOR MANAGEMENT?
The role of enablers.

• Make offending less risky through lax guardianship

• Do little to reduce rewards for offending

• Reduce effort for offending

• Allow excuses for misbehavior

• Provide provocations for misbehavior
RESPONDING

• Randomness – ignore it (it will go away by itself)

• Reporting – create consistent reporting across facilities (to get better picture)

• Size – work on biggest contributors to workload

• Offenders – work on attractive features

• Management – address ownership of problem