The Swedish Crime Harm Index (SCHI)

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Research Objective

• Comparing Crime Hot Spot versus Crime Harm Spots in a Swedish City: A descriptive research study.
Research Method and Design

• Identify all crimes in Gothenburg City
• Identify crimes against the person in public place and cluster these crimes onto the Gothenburg City map by location
• Create the ”Swedish Crime Harm Index”
• Assess all crimes against the person in public place with the Swedish CHI and cluster the Swedish CHI by location onto the Gothenburg City map
• Comparing Crime Hot Spots with Crime Harm Spots
Crime Data Gothenburg City 2014

38,351 All crimes recorded in RAR

953 All reported crimes against the person in public place according to the official decision

2,717 recorded crimes against the person in public place

87 Misclassified

2,630 Crimes against the person in public place
Officially 16 Crime Classification Codes generated 953 violent crimes against the Person in Public Place

"The Official Recording"

Population: 123,594
38,351 Crimes reported in RAR
953 Violent Crimes
8 Frequent Crime Addresses
11-25 Violent Crime/Address during the period of 12 months
2,717 Crimes against person in public place – Extended Recording

Extended Recording based on information from RAR and presented by Hobit 1.5

In total 74 Crime Classification Codes including the 16 official

4 Hot Spots Addresses
25 High Crime Addresses
Crime Harm Index

- The Cambridge Crime Harm Index (CHI) and the US Index for Harm-Focused Policing uses sentencing policy (Guidelines) to assign a “weight” of severity to each offence type. It then creates an index based on prison days.
- The Canadian Police Reported Crime Severity Index (SCI) and the Western Australian Crime Harm Index (WACHI) uses sentences from courts for each crime type to creating the index based on prison days.
- **The Swedish Crime Harm Index is based on estimated sentence for each crime that the offender can spend in prison. (Guiding verdicts from the Court of Appeal and precedents the Supreme Court)**
- The Danish Crime Harm Index is based on the Director of Public Prosecutions (DPP) specifying what sentence the prosecutor should ask for in court when having a first time offender charged without mitigation or aggravating factors.

- These Indexes can be calculated within societies or cities over time, across areas within cities, and across offenders and victims in their individual crime histories.
The "Swedish Crime Harm Index" (Guiding verdicts from the Court of Appeal and precedents the Supreme Court)

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>0312</td>
<td>Murder, manslaughter or assault with a fatal outcome with the use of firearms against woman</td>
<td></td>
<td>6570</td>
<td>18.00.00</td>
<td>18 Years</td>
<td>18 Years</td>
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<tr>
<td>0357</td>
<td>Physical abuse, other than gross, against man 18 years or older, unfamiliar with the victim, outdoor</td>
<td>C</td>
<td>60</td>
<td>00.02.00</td>
<td>2 Months</td>
<td>2 Months</td>
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<tr>
<td>0441</td>
<td>Unlawful persecution of boy under 18 “Stalking”</td>
<td></td>
<td>292</td>
<td>00.09.22</td>
<td>6 Months</td>
<td>1 Year</td>
</tr>
<tr>
<td>9806</td>
<td>Robbery against an individual, not functional impairment, under 18 years, without firearms, outdoor (Mugging)</td>
<td></td>
<td>365</td>
<td>01.00.00</td>
<td>1 Year</td>
<td>1 Year</td>
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5 judges, Inter-rater reliability: Pearson correlations ranging from $r = .966$ to $.994$
Crime Harm Locations in Gothenburg City

H. SChI and Hot Spots 2014.
## Comparison Crime Harm – Hot Spots

<table>
<thead>
<tr>
<th>CHI_top 5% location</th>
<th>Count</th>
<th>% within CHI_top 5%</th>
<th>% within HOT SPOT_top_5%</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>no</td>
<td>0</td>
<td>0,0%</td>
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</tr>
<tr>
<td>yes</td>
<td>32</td>
<td>53,3%</td>
<td>100,0%</td>
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**A sole focus on hot spots would miss 50% of CHI spots**

### Total

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**A sole focus on CHI would miss 53% of hot spots**
Summary of Findings

- **2,630 crimes** against the person in public place
- Swedish Crime Harm Index: **333,871 prison days**
- **60 locations** make up for nearly half the crime harm (154649 days = 46.3 %) (= top 5% of CHI Harm per location)
- Number of crimes in these top 5% locations ranges from 1 – 45.
- The top 60 CHI spots include the 4 locations that are also hot spots:
  - The highest hotspot is also the highest harm spot,
  - Two hotspots within the top 1% of CHI spots, 1 hot spot is in the top 2% of CHI spots.
- A sole focus on Hot Spots would miss 50% of CHI spots
- A sole focus on CHI would miss 53% of hot spots
Implication and Implementation

- Municipality of Helsingborg (2017)
- Establishment of the WACHI (2018)
- Establishment of the DCHI (2018)
- Expected establishment of Hong Kong Crime Harm Index (2019)
THANK YOU

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References