

BACK TO BASICS

TOWARDS A SAFER TOMORROW



Bavarian Visit Analysis of Crime

#CrimeMustFall

SOURCES OF INFORMATION



SAPS Systems

- Crime Administration System (CAS / ICDMS)
- CMI (Crime Management Information (SAP 6)
- CRIM System
- Global Access Control System
 - Management Information System (“BI”- Operational analysis)
 - Geographical Information System (Crime Mapping)
 - Profiling

Other

- Visiting of Crime Scenes
- Field visits
- Environmental assessments
- Docket analysis
- Suspects
- Witnesses

CRIME ANALISTS – POLICING LEVELS



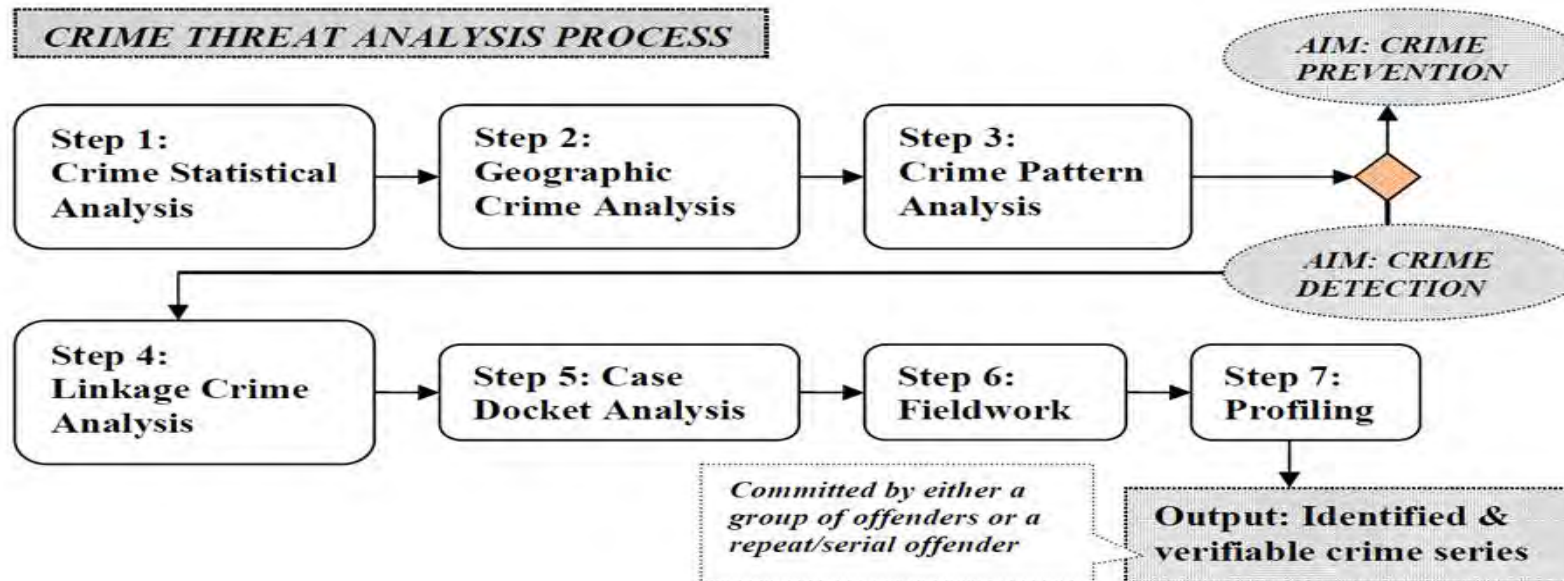
Policing Level	Analysis Capacity
Provincial Level	Intelligence Analysis Centre (IAC) – Crime Intelligence Crime Registrar Provincial Operational Coordination Centre (POCC) Monitoring and Evaluation
Cluster Level	Intelligence Analysis Centre (IAC) – Crime Intelligence
Station Level	Crime Information Management and Analysis Centre (CIMAC)

CRIME THREAT ANALYSIS PRODUCTS



Crime Threat Analysis

The diagram below indicates the CTA process from which different products will emanate.



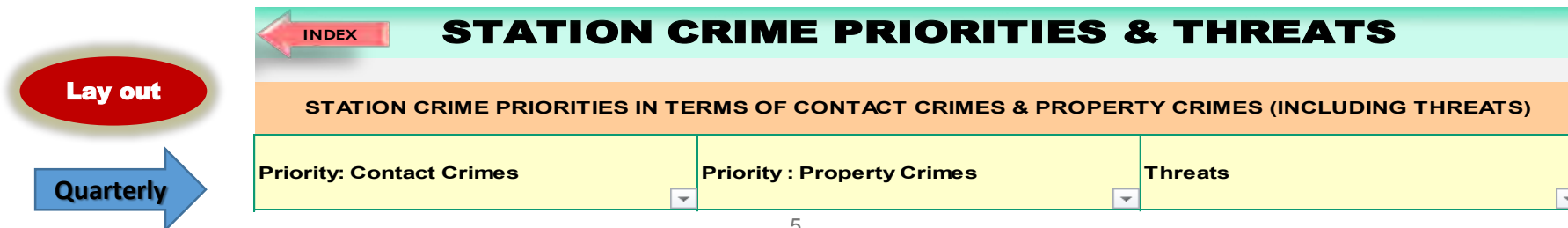
CRIME THREAT ANALYSIS PRODUCTS CONT...



Station Crime Priorities and Threats

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Station crime priorities and threats	Station CIMAC 07 (CTA 02)	Function: To reach consensus on crime priorities by all environments at the station Purpose: To determine crime categories that should be prioritised by the station	Adequate consensus on crime priorities and threats must be reached by station management and the concluding findings must be based on the following six indicators (all indicators or at least the majority thereof): The seriousness of the crime - The extent of crime - Increasing trends - The perceived concerns and/or fears or outcry of the community - The financial losses and/or economic impact - The social impact (National Development Plan)	Station management

Example of Structure & Elements for Crime Priorities and Threats



CRIME THREAT ANALYSIS PRODUCTS CONT...



Crime Pattern Analysis Findings

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Crime prevention pattern analysis findings	Station CIMAC 07 (CTA 03.1)	Function: The analysis of the what, when, where and how aspects of crime Purpose: To provide Crime Prevention units with crime information to assist in the deployment of resources on specific days of the week during specific time periods in specific geographical areas for crime prevention purposes (pro-active policing)	Elements: - The “what” aspect of crime - The “where” aspect of crime - The “when” aspect of crime - The “how” aspect of crime	- Business Intelligence (BI) - Geographic Information System (GIS) - Suspect profiles - GACS - Management Information matrix in conjunction with pivot tables.

Example of Structure & Elements for Crime Pattern Analysis Findings

Lay out

Weekly

INDEX

CRIME PATTERN ANALYSIS

CRIME DATA

FOCUSSED - ON STATION CRIME PRIORITIES

Count of Offence		TIME								
Day of Week	Offence	15:00 to 17:59	00:00 to 02:59	06:00 to 08:59	18:00 to 20:59	09:00 to 11:59	21:00 to 23:59	12:00 to 14:59	03:00 to 05:59	Grand Total

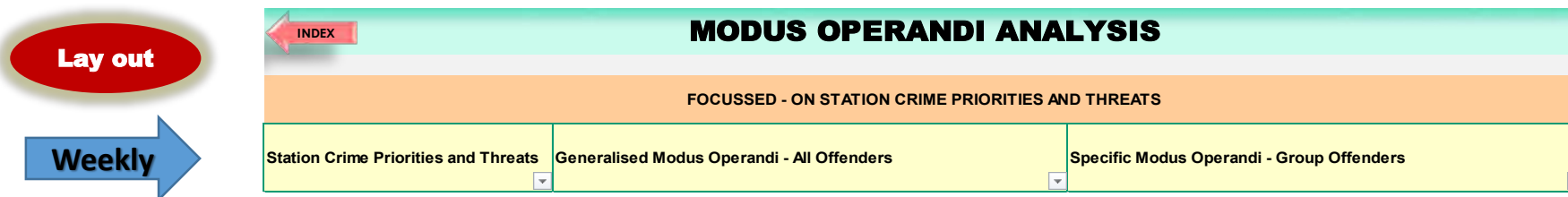
CRIME THREAT ANALYSIS PRODUCTS CONT...



Modus Operandi Findings

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Modus Operandi Findings	Station CIMAC 07 (CTA 03.2)	Function: The analysis of the what, when, where and how aspects of crime Purpose: To provide Crime Prevention units with crime information to assist in the deployment of resources on specific days of the week during specific time periods in specific geographical areas for crime prevention purposes (pro-active policing)	Elements: - Station Priorities - Generalised modus operandi – All offenders - Specific Modus Operandi – Repeat/group offending	- Business Intelligence (BI) - Geographic Information System (GIS) - Suspect profiles - GACS Management Information matrix in conjunction with pivot tables.

Example of Structure & Elements for Modus Operandi Findings



CRIME THREAT ANALYSIS PRODUCTS CONT...



Repeat and Group Offenders

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Repeat, serial and group offender product	Station CIMAC 07 (CTA 04)	Function: Linking of case dockets Purpose: To determine crime series	Elements: The following are elements that have to be included in the matrix for linking purposes: - Numerical serial number - Current case number - Date of the crime - Time of occurrence - Crime address/location - Crime category/type - Victim particulars - Offender particulars - Vehicle details - Modus operandi - Co-accused particulars - Previous convictions (SAPS 69) - Any other pending cases	- Crime Administration System (CAS): Functions 8.5.2.9.2 / 8.5.5.2.1 / 8.1.1.3 / 8.5.2.1.1 - Criminal Record System: Functions 3.20.5 / 3.20.6 - GACS (BI): Profiling function - Circulation System: Goods & Persons - GACS (MI) Matrix. - Case dockets

Example of Structure & Elements for Repeat and Group Offenders

Lay out

Monthly

REPEAT & GROUP OFFENDERS						
FOCUSSED - ON STATION CRIME PRIORITIES AND THREATS						
Name in full	Indicate the type of offender whether it is a Repeat Offender or Group Offender	Profile Yes / No	Address of Repeat or Group Offender	Previous Cases including Current Case	Cas Numbers	Outcome

CRIME THREAT ANALYSIS PRODUCTS CONT...



Most Wanted Offenders

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Most wanted offenders	Station CIMAC 07 (CTA 05)	Function: Information is supplied by detectives after applying their criteria Purpose: Assist detectives to detect the most wanted suspects	- Focus on crime priorities as per station CIMAC 07 (CTA 02) and threats as per station CIMAC 07 (CTA 10) - Most wanted offenders must be determined by the station detectives every month - The list should consists of the 10 most wanted offenders	- Detective Service - Crime Intelligence - DPCI

Example of Structure & Elements for Most Wanted Offenders

Lay out

Monthly

INDEX

MOST WANTED OFFENDERS

FOCUSED - ON STATION CRIME PRIORITIES AND THREATS

Name & Surname of Offender	Identity Number / DOB	Address of Wanted Offender	Station Name	Cas number	Offence	Circulation Number	Profile with Photo Indicate if available / not available
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CRIME THREAT ANALYSIS PRODUCTS CONT...



Verified Drug Posts

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Verified drug posts	Station CIMAC 07 (CTA 06)	Function: Collect the information from sources Purpose: To determine drug outlets	An operational working definition of a drug post: A drug post can be defined as a structure (like a house, shack, tent, caravan, garage, storeroom, etc.) where an exchange and/or transaction related to illegal substances or drugs takes place	- Sector commanders - Crime Intelligence - Detective Service - Members of the public

Example of Structure & Elements for Drug Posts

Lay out

Monthly

INDEX

DRUG POSTS (OUTLETS)

FOCUSSED - ON STATION CRIME PRIORITIES AND THREATS

Address of Drug Post	Illicit	Inkwazi Number
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CRIME THREAT ANALYSIS PRODUCTS CONT...



Unlicensed and Problematic Licensed Premises

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Unlicensed and problematic licensed liquor outlets	Station CIMAC 07 (CTA 07)	Function: Collect the information from relevant sources Purpose: To determine problematic liquor outlets	- Focus only where crime is prevalent or problematic in relation to licensed liquor outlets, e.g. if analysis indicates a high prevalence of rapes and assaults in the immediate vicinity of a liquor outlet - In relation to unlicensed liquor outlets – these must be closed down (Liquor Act)	- Designated police office (FLASH) - Sector commanders

Example of Structure & Elements for Unlicensed / Licensed liquor Outlets

Lay out

Daily

INDEX
UNLICENSED AND LICENSED LIQUOR OUTLETS

FOCUSED - ONLY WHERE CRIME WAS PREVALENT OR PROBLEMATIC IN RELATION TO OUTLETS

Trade Name (Name of Outlet)	Owner / Manager Details	Address of Outlet	Criminality	Crime Generators	Date listed	Licensed / Unlicensed

CRIME THREAT ANALYSIS PRODUCTS CONT...



Problematic Firearms and Second – Hand Dealers

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Problematic firearms and second-hand dealers	Station CIMAC 07 (CTA 08)	Function: Collect the information from relevant sources Purpose: To identify problematic firearms and second-hand dealers	Focus on dealers that came under the attention of the SAPS because they are linked to possible criminality	- Designated police office (FLASH) - Sector commanders

Example of Structure & Elements for Firearms and Second-Hand Dealers

Lay out

Daily

INDEX

SECOND-HAND DEALERS AND FIREARM DEALERS

FOCUSED - ONLY THOSE DEALERS THAT CAME UNDER THE ATTENTION OF THE SAPS LINKED TO POSSIBLE CRIMINALITY

Trade Name (Name of Dealer)	Owner / Manager Details	Address of Dealer	Second-hand Good Act or Firearm Act Compliance	Criminality	Licensed Trader (Second-hand Dealer or Firearm Dealer)	Date Listed

12



Problematic Chop Shops

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Problematic chop shops	SCIMAC 08 (CTA 09)	Function: Collect the information from relevant sources Purpose: To determine problematic scrapyards	Focus only on scrapyards that are problematic	- Designated police office (FLASH) - Sector commanders - Crime intelligence

Example of Structure & Elements for Chop Shops

Lay out

Daily

CHOP SHOPS			
FOCUSSED - ALL CHOP SHOPS			
Suspect Owner Details	Address of Chop Shop	Date Listed	Criminality

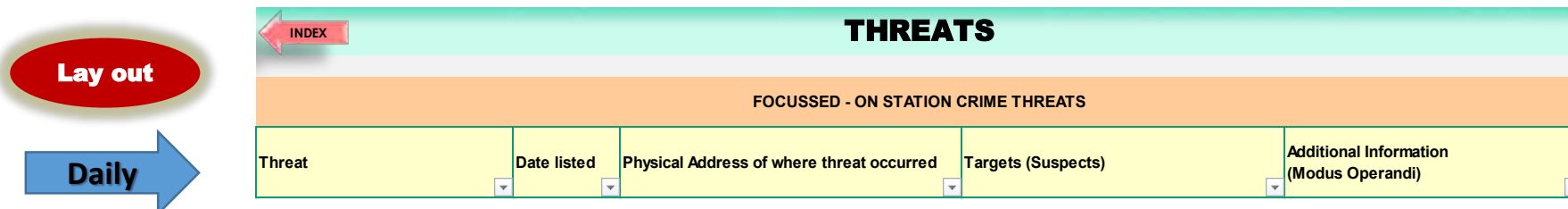
CRIME THREAT ANALYSIS PRODUCTS CONT...



Threats

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Threats	Station CIMAC 07 (CTA 10)	Purpose: To provide operational units with threats of the station	Threats refer to those unique crime threats limited to certain geographical areas which are not necessarily covered by the normal crime statistics or station crime priorities – such as abalone smuggling, drugs in schools, drug labs, rhino poaching, theft of solar panels, copper wire cable thefts, illegal mining, illegal occupation of land or land invasions, spaza shop robberies, attacks/murders on foreign nationals, and so forth. Threats appear infrequently and warrant urgent intervention. A threat is not necessarily a crime category	- Station management - Crime intelligence - Detective services - Visible policing

Example of Structure & Elements for Threats



CRIME THREAT ANALYSIS PRODUCTS CONT...



Early Warning Information

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Early warning information	Station CIMAC 07 (CTA 11)	Function: Collect the information from relevant sources Purpose: To provide the station with pro-active information for deployment purposes	All events that could impact on the crime or policing in the precinct should be listed	- Sector commanders - Crime intelligence - Station management - Municipalities

Example of Structure & Elements for Early Warning Information

Lay out

Daily

INDEX					EARLY WARNING INFORMATION				
FOCUSSED - SPECIFIC EVENTS WHICH MAY INFLUENCE CRIME OCCURENCES OR DEVIATION IN THE NORMAL CRIME PATTERN ANALYSIS									
Date	Day of the week	Time Span	Address / Location	Type					

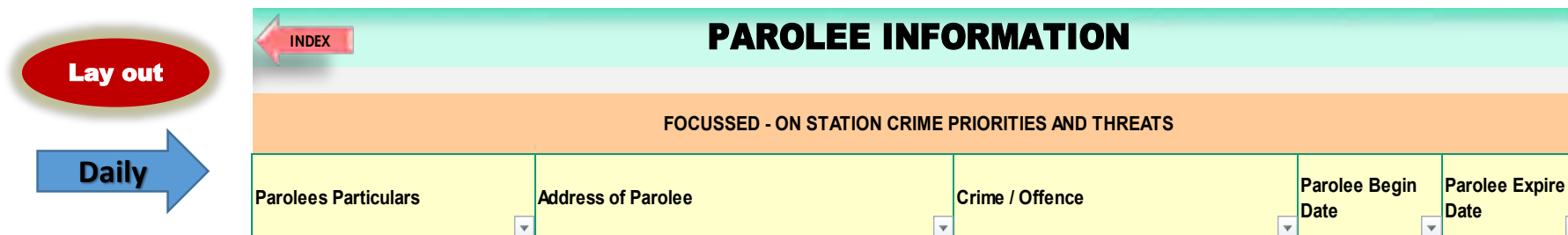
CRIME THREAT ANALYSIS PRODUCTS CONT...



Parolee Information

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Parolee information	Station CIMAC 07 (CTA 12)	Function: Collect information from relevant sources Purpose: To assist operational members to monitor movements of parolees	All parolees convicted of serious or priority crimes should be on the list and all necessary particulars captured	- Correctional Services - Detective services

Example of Structure & Elements for Parolee Information



CRIME THREAT ANALYSIS PRODUCTS CONT...



OCTA Matrix

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
OCTA matrix	Station CIMAC 07 (CTA 13)	Function: Perform linkage/matrix/association analysis Purpose: To determine possible organised crime	- Group of 2 or more persons - Involved in a series of serious crimes - Prolonged period - Financial gains or power	

Example of Structure & Elements for Matrix – Group Offending

Lay out

Daily

MATRIX - GROUP OFFENDING							
FOCUSSED - ON STATION CRIME PRIORITIES AND THREATS							
Annual Reference Number	Date Escalated to CCF	Crime Threat	Description of Threat (Modus Operandi)	Date Escalated from SCCF to IAC (CI)	Verification (Intelligence Confirmation on the threat)	Type of Operational Approach (Including Ref number)	Outcome or Progress

OTHER CRIME-RELATED INFORMATION (SIP)



Station Intelligence Profile

Product	Product Code	Functions & Purpose	Minimum Standard Guideline	Sources and Systems
Station intelligence profile	Station CIMAC 08	Function: Collecting information from relevant sources Purpose: To provide a holistic profile of the station precinct	- Geographical information - Crime hot spots (maximum of 10 top hot spots) - Priority crimes (maximum of 10 top priority crimes) - Date and time analysis of the top hot spots <i>(Indicate the crimes, the days and times of occurrence in table format and include graphs)</i> - Wanted suspects - Parolees - General geographic information	- Other CIMAC products - Fieldwork activities - Sector commanders - Local government - Other government departments - Stats SA - Etc

Example of Structure & Elements for SIP

Lay out

Daily

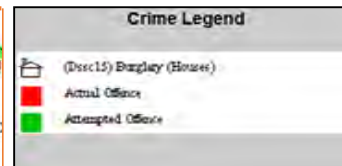
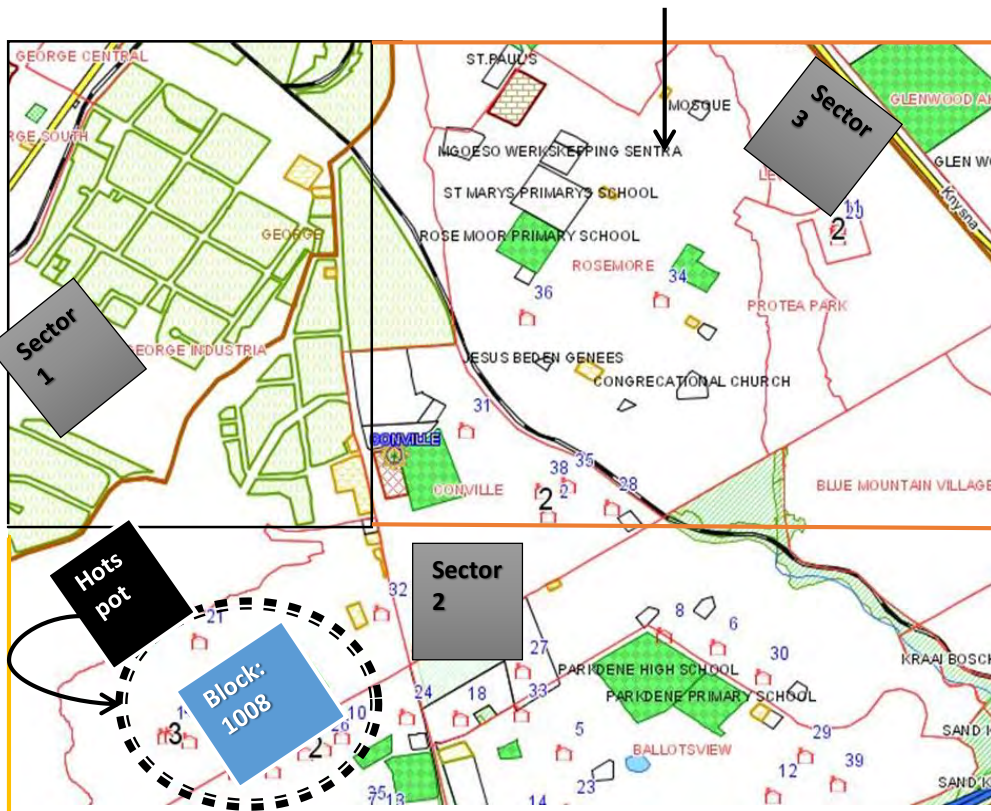
STATION INTELLIGENCE PROFILE					
SECTION 6.7: BROTHELS					
NAME OF BROTHEL	CONTACT PERSON	CONTACT NUMBER	ADDRESS	BLOCK	SECTOR

ENVIRONMENTAL ASSESSMENT (HOTSPOT ANALYSIS)



DESCRIPTION / LOCATION / IMAGES OF THE HOTSPOT

- **Block 1008** – Lawaaikamp Suburb (Residential area), **Sector 2**
- **Boundaries:** Located between **Garcia Str to the North**, **Vuyani Ncamazana Str to the West and South** and **Nelson Mandela Blvd to the East**



ENVIRONMENTAL ASSESSMENT (HOTSPOT ANALYSIS)



ENVIRONMENTAL LAYOUT / ACCESS

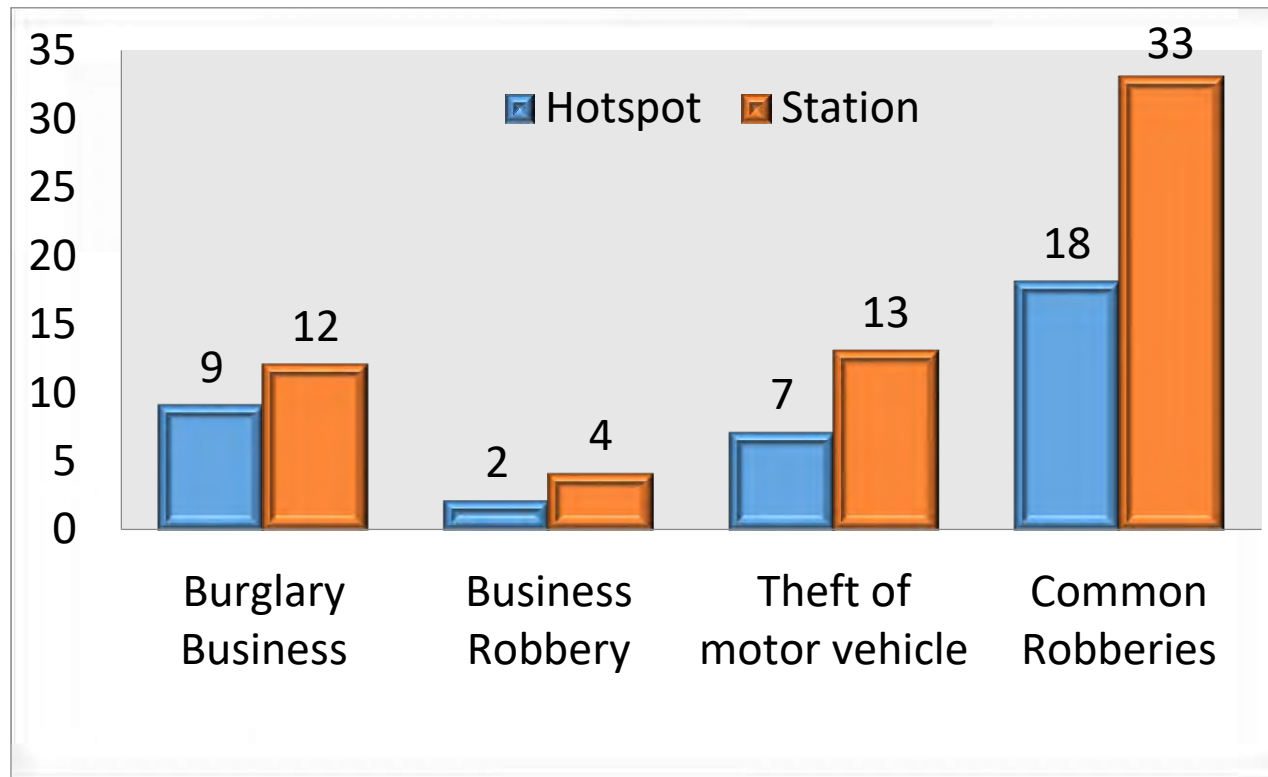
(Pictures of the Hotspot: Access control, Entrances & Escape routes, Transport)



ENVIRONMENTAL ASSESSMENT (HOTSPOT ANALYSIS)



CRIME ANALYSIS INFORMATION – CRIME CATERGORIES AND INCIDENTS IN HOTSPOT



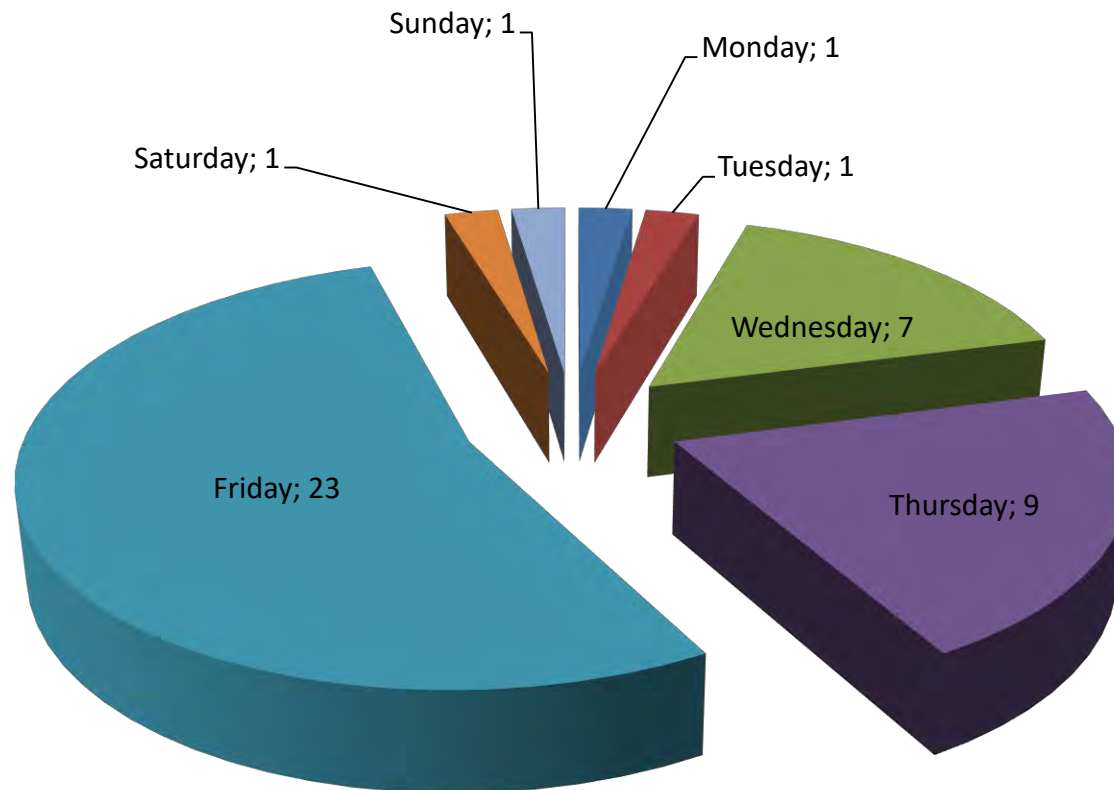
Percentage contribution of Hotspot to Station Crime Picture

Type of crime committed within Hotspot	Percentage contribution
Burglary Business	33 %
Business Robbery	50 %
Theft of motor vehicle	86 %
Common Robberies	83 %



CRIME PATTERN ANALYSIS

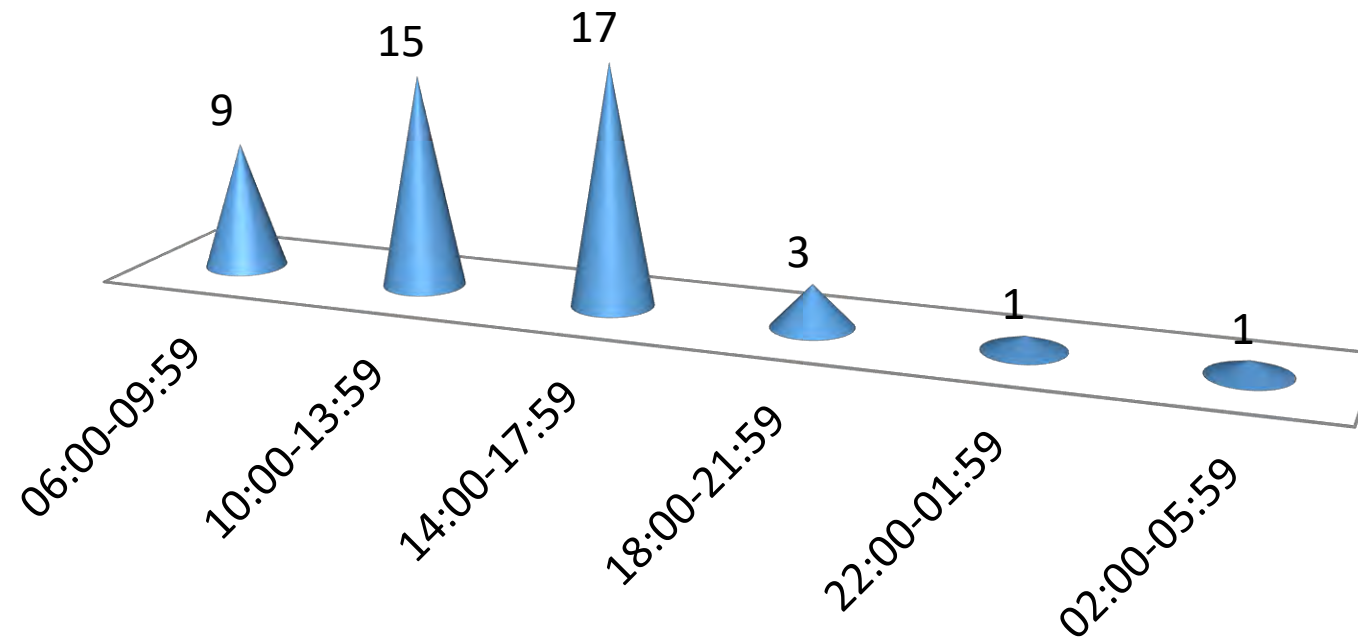
Problematic day of the week





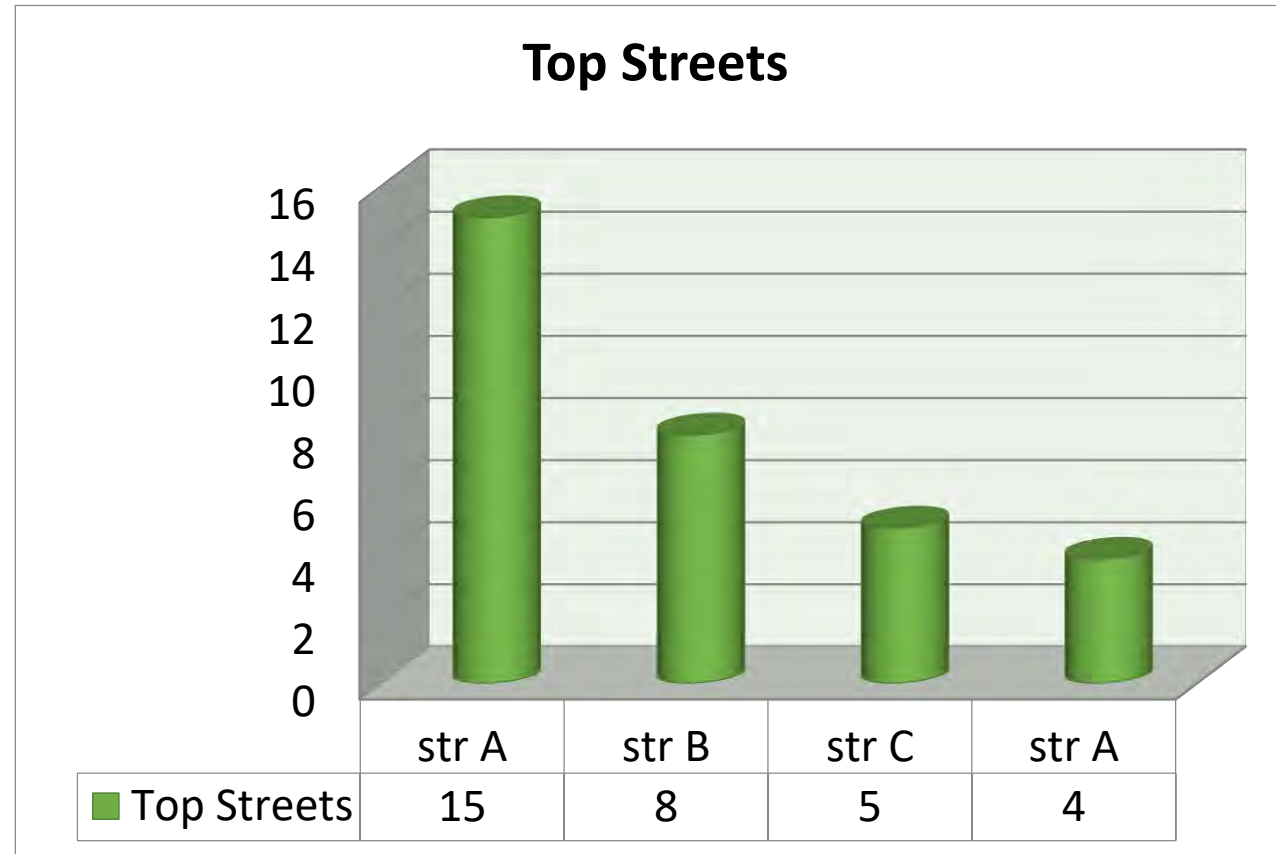
CRIME PATTERN ANALYSIS

Problematic time of the day

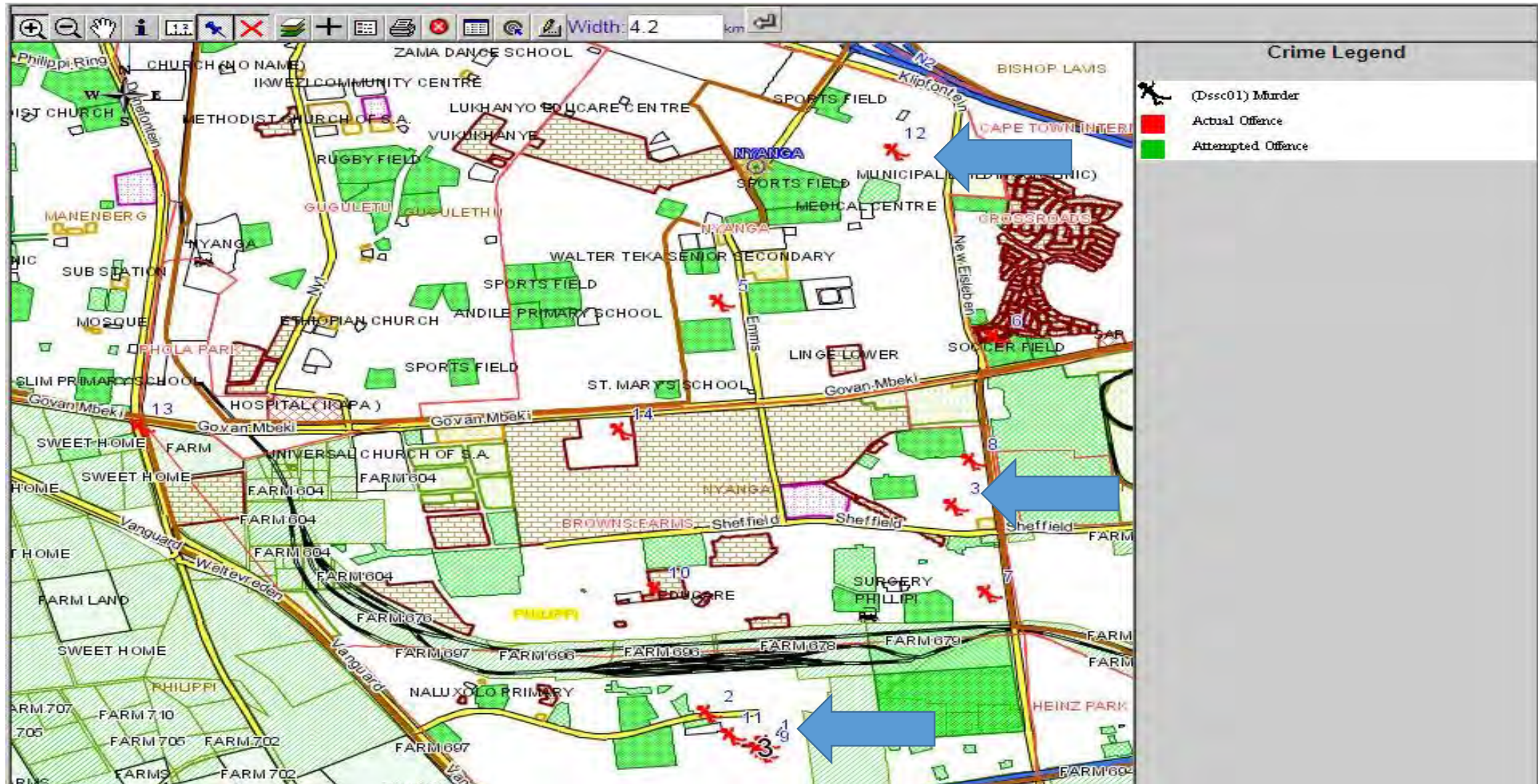




CRIME PATTERN ANALYSIS



CRIME MAPPING - GIS





LKD Bernhard Egger
PD Peter Breitner

Bavarian Police



South Africa 9/2018

„crime analysis“

as basis for professional policing

„exchange and sharing of theoretic and practical
experiences between South Africa & Germany“





crime analysis

...agenda

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – “daily routine” at a Police Station – controlling & nalysis

...your questions...



crime analysis

1 – intelligence-led-policing

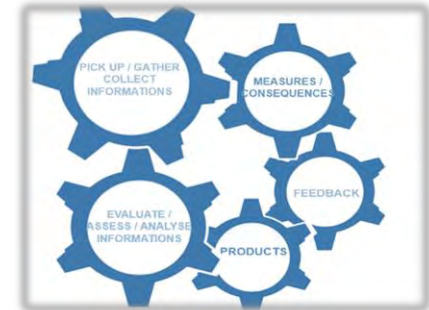
2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

intelligence-led policing



predictive policing



identification





preconditions

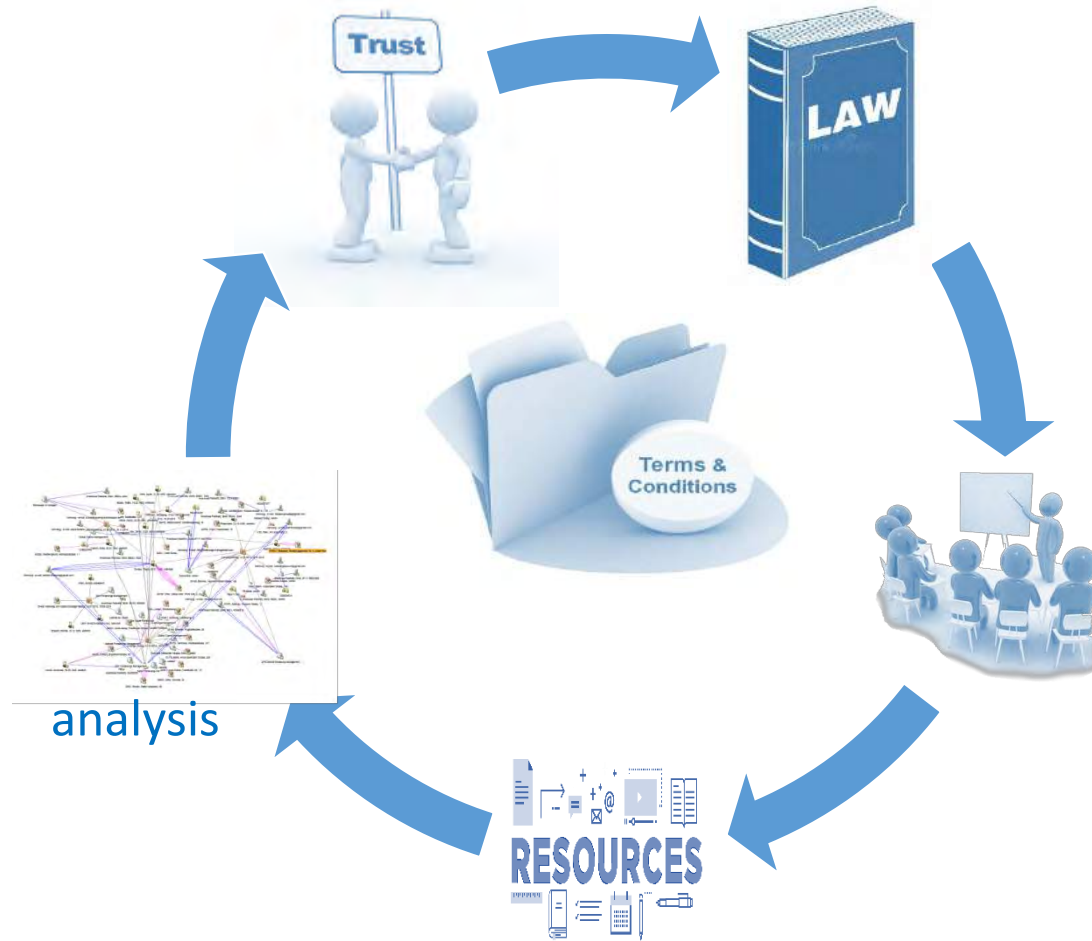
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





ILP – intelligence-led policing

information is the (natural) resource for police work

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

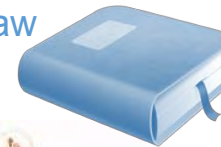


**pick up/gather/
collect informations**



measures/consequences

law



products



**evaluate/assess/
analyse informations**





crime analysis



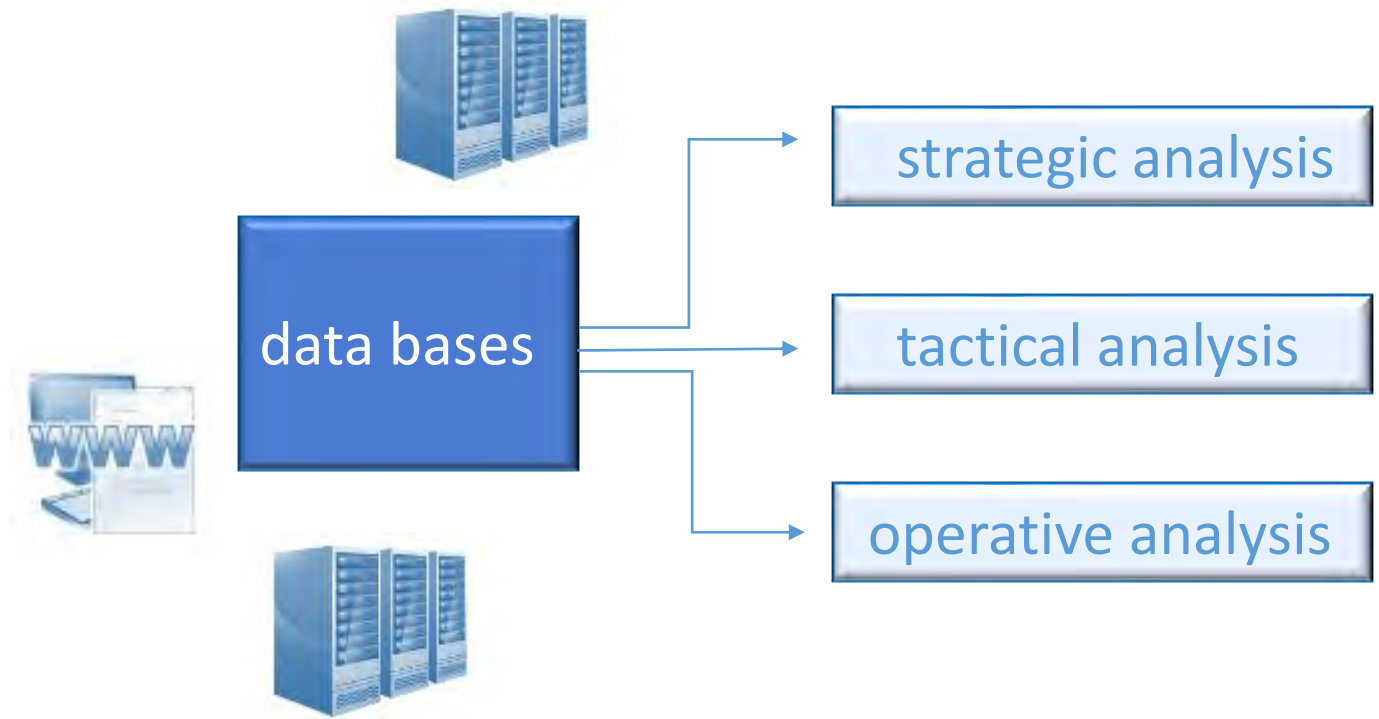
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





workflow

- 1 – intelligence-led-policing
- 2 – predictive policing
- 3 – identification
- 4 – daily routine at Police Station
- ...your questions



officer
recognize crime



registration
criminal offence
in PVP
(police data base)



quality
management/control





crime analysis

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



Crime Analysis Unit





-
- The diagram illustrates the architecture of the INPOL system, showing the flow of data between various components. The system is divided into several layers and functional areas:
- External Services (extern):** Includes WAF, Web, BS2, AKDB, Justiz (JVA), Führersch Kfz-Zul, Gewerbe Waffen, EWO Bayern, and Zentrale Vollzugsdatei. These services interact with the system via logics-Gateway and HTTP/XML.
 - Application Layer (Anwendungen Stadt München):** Includes SMU-Proxy, Logweb, and logics-Gateway. SMU-Proxy interacts with the system via Protokolldaten and eMail.
 - Core System (INPOL-Bayern 7.3.x):** The central component, which manages data for various entities (ILAC, mobil, AEC, KBA, AZR, FADA, EWO, ED-Di). It includes modules like ED-PHP, VGL, QS, and a Haftarchiv. It interacts with external services via HTTP/XML and eMail.
 - Database Layer (Datenbanken):** Includes databases like HaftSNIT, Haftdaten, nist, VGL, QS, and various entity-specific databases (Person, Sachf., Fallgrd, DigiF, DigiL, Libi-Rech.).
 - Integration Layer (INPOL-Zentral 7.2 mit DNA-Z):** The central hub for data exchange, interacting with various external systems like AFIS, N.SIS, NSIS-Persf, NSIS-Sachf, DAD-Z, C.SIS, and BKA. It also interacts with the external services via logics-Gateway and HTTP/XML.
 - External Systems (extern):** Includes WAF, Web, BS2, AKDB, Justiz (JVA), Führersch Kfz-Zul, Gewerbe Waffen, EWO Bayern, and Zentrale Vollzugsdatei. These systems interact with the central system via logics-Gateway and HTTP/XML.
 - Other Components:** Includes I-Explorer, IGVP/PVP, SFM/KBM, ED-Di Clients, EZ, EASy, DISOZ, MAB, BDB, Import-FV, Fahrverbote, Tarnkennz, TKA, Kennz, AKE, MobDat, INPOL-BZR, BZR, ZEVIK/KBA, Audi/VW, BMW, Damier, Porsche, ZFZR, ZFER, VZR, ZKR, Tachonet, Prüm Kfz, BVA Web, AZR / Visa-Datei, AZR, and Visa.
- The diagram uses various symbols to represent different types of connections and data flows, such as arrows for data flow, double-headed arrows for bidirectional communication, and specific symbols for eMail and Filetransfer.



situation reporting & information management

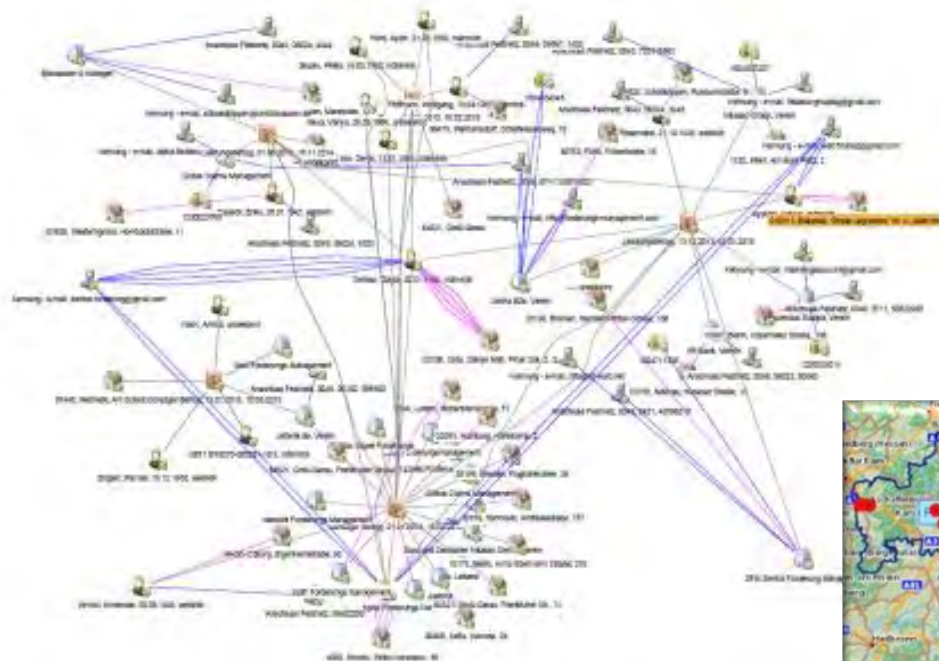
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



EASY & GIS





cell site analysis

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





crime mapping

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

1 Täter

55 Einbrüche (Büros, Wohnungen)
im 1 HJ 2009

Alle Taten im unmittelbaren
Umkreis seiner Wohnung





predictive policing





research into „near repeats“

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

the “**near repeat**” phenomenon has been investigated and documented in scientific studies worldwide:

- areas with higher levels of crime are much more likely to see higher crime in the future than areas where few or no crimes are committed.
- mathematicians have developed algorithms for calculating intervals between near repeats (Short, Mohler).
- the phenomenon can be found in other fields of crime as well.



1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

near repeats - definition

near repeats: at least 2 offences
that meet the following criteria:

- near in time (e.g. 72 hours)
- near in place (e.g. 500 m)
- similar crime characteristics:
 - type of offence
 - location (e.g. flat, detached house, semi-detached)
 - modus operandi
 - stolen goods



the near repeat phenomon reflects human behavioural patterns
widespread behavioural patterns can be predicted



near repeats areas ...example Munich

1 – intelligence-led-policing

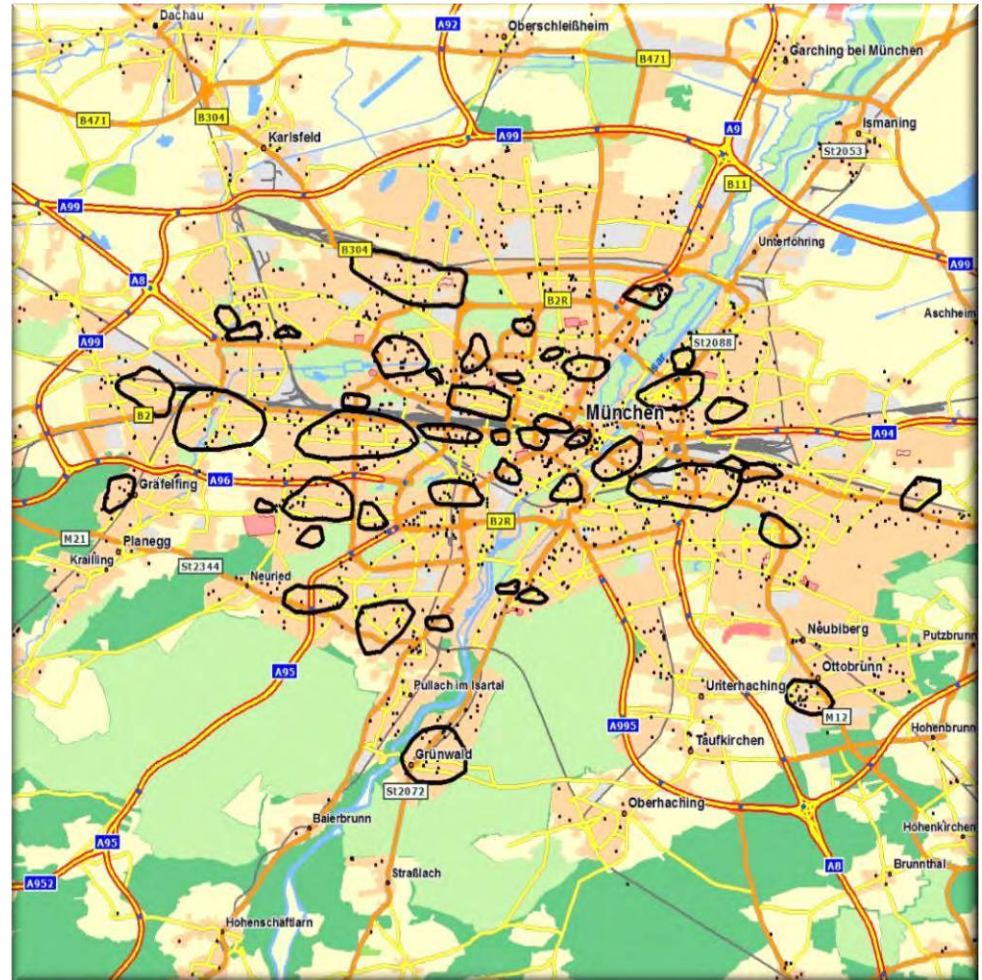
2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

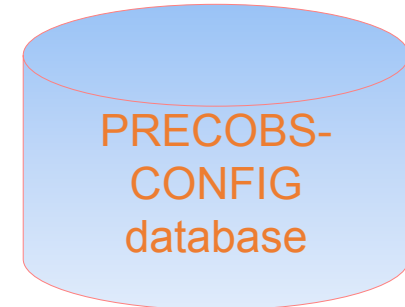
- 47 observed areas
- 76 km²
- 24,4% of the city
- total area 310,77 km²
- 705 burglary





predictive policing Infrastructure

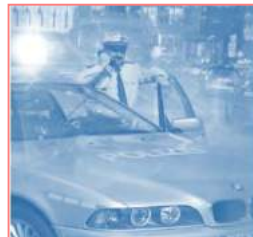
1. import up-to-date burglary data



2. identify patterns



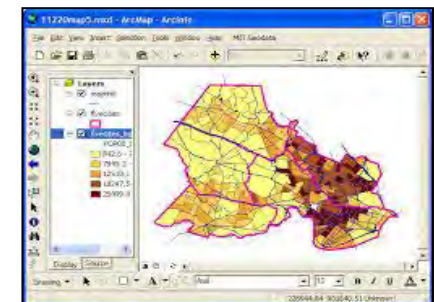
5a preventive use (on patrol)



5b operational use (alerts/searches)



3. Visualise + check



4. forward the forecast



example

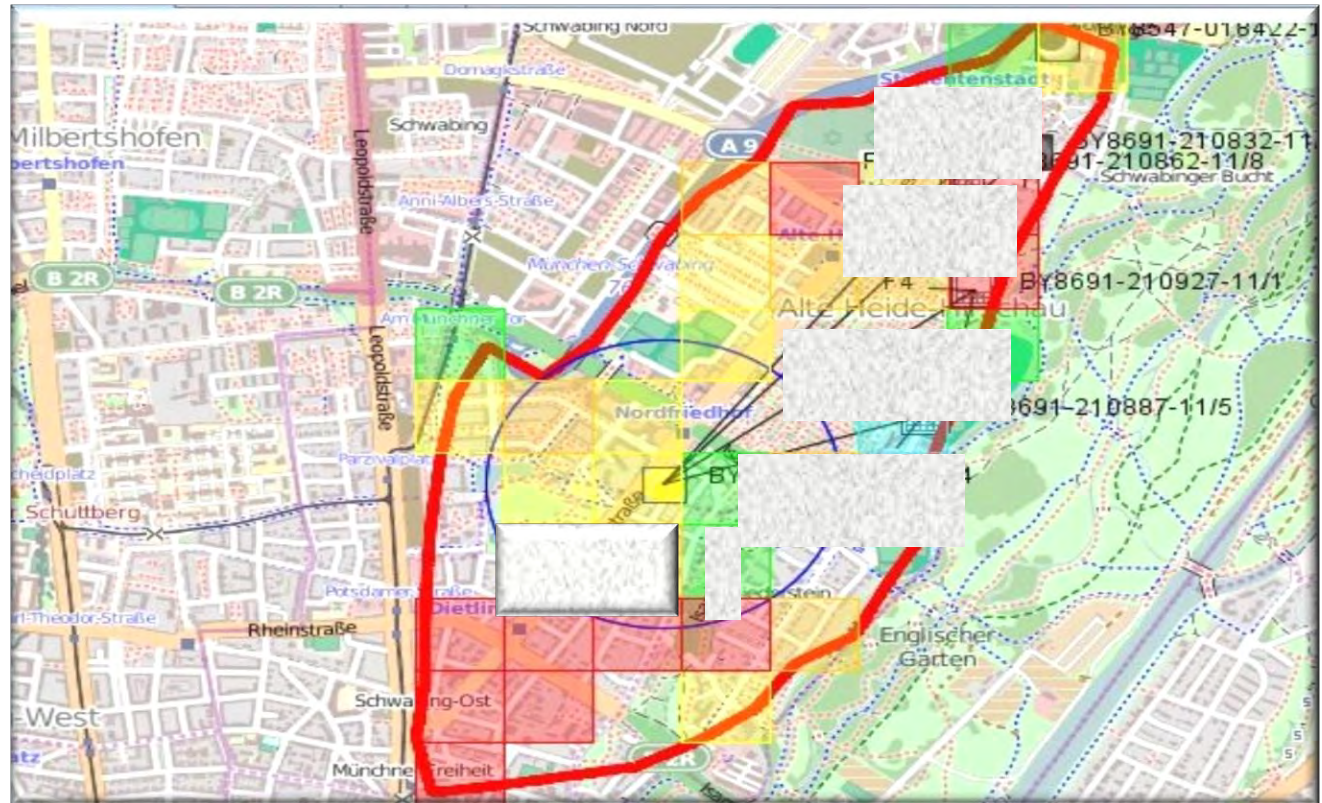
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

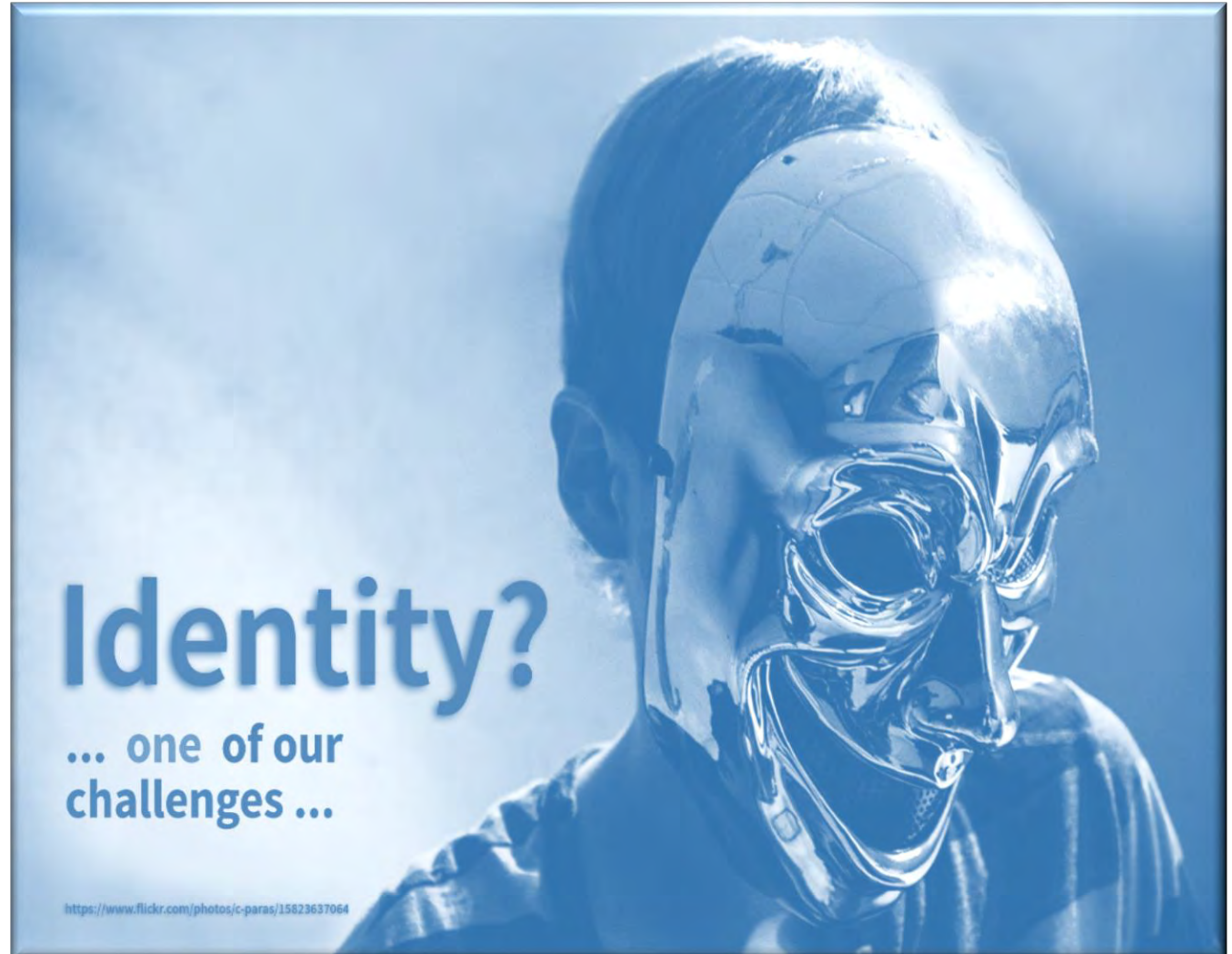
...your questions



Alarm Trigger	14.12.2011 - 08:00-14.12.2011 - 19:00	☒	brechen, hebeln
F3-Follower (...)	17.12.2011 - 17:00-17.12.2011 - 23:00	☐	brechen, hebeln
F3-Follower (...)	16.12.2011 - 15:00-18.12.2011 - 16:00	☐	brechen, hebeln
F3-Follower (...)	16.12.2011 - 18:00-19.12.2011 - 09:00	☐	brechen, hebeln
F4-Follower (...)	07.12.2011 - 16:00-20.12.2011 - 17:00	☐	brechen, hebeln



identification





fingerprints – DNA - faces

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

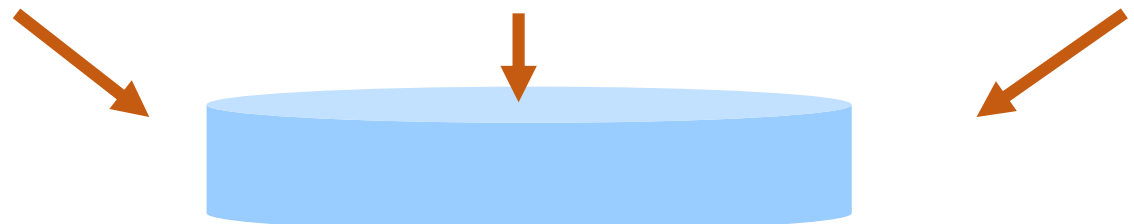
...your questions



“three” dimensions of the record department



-



DNA-database

867.000 DNA-profiler persons

326.000 DNA-Muster traces



210.000 hits trace - person (suspect)

56.000 hits trace – trace (connection between offences)



securing of evidence in the past

(before DNA)...

problem
contamination

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





... securing of evidence nowadays

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



Der Mord an einer Heilbronner Polizistin und die Jagd auf ein Phantom: „Wir können nichts ausschließen“

Blutspuren einer Unsichtbaren

Dank der DNS-Analyse suchen die Ermittler nun eine geheimnisvolle Serientäterin – sie wissen so viel über diese Frau und können sie doch

Von Bernd Dörries

Heilbronn, im Juni – Wenn Volker Rittenauer in den vergangenen Wochen mit dem Auto durch die Heilbronner Innenstadt fuhr, dachte er oft, die Frau dort drüben, die könnte er doch sein. Kleidung, Alter, Blick – so hat er sie tausendmal abgehalten hat er sie. Er weiß viel über die Frau, die er und die vielen anderen Polizisten suchen. Er kennt ihr Blut und ihren Spielzeug, ihre DNS, ihren gewöhnlichen Bauplan. Normalerweise ist das eine ziemlich gute Basis, die Wahrscheinlichkeit, dass zwei Menschen, dasselbe DNS-Muster haben, liegt bei einer zu mehreren Milliarden. Es klingt nach einer sicheren Sache. Rittenauer aber könnte irreführen: So nah dran und doch weit weg. Er fährt mit dem Auto durch Heilbronn und schaut Frauen hinterher. Er hat einen Genocid, eine lange Zählerei, aber sie regeln sich: kein Blut, keine Augen, keine Haare, kein Gesicht.

Rittenauer, 51, ist Leiter der Heilbronner Kriminalpolizei, und er sucht nach einem Phantom. Nach einer Frau, die in den vergangenen 14 Jahren mit mindestens 27 Verbrechen in Verbindung gebracht wird, mit drei Morden und mit Diebstählen. In Deutschland, Österreich und Frankreich. Vor zehn Jahren wären es lauter Einzelkinder geblieben, man hätte den Einbruch in einem Schrebergarten in Österreich kaum mit dem Mord an einer Polizistin in Heilbronn in Verbindung gebracht. Zu einer Serientäterin wurde die Frau erst im DNS-Zustand.

Das Klebeband gibt Auskunft

Heute suchen fünf Staatsanwaltschaften und mehrere Sonderkommissionen nach ihr. Manchmal denken die Verfolger, sie wären ihr auf den Fersen. Aber nach 14 Jahren hat die Frau noch immer kein Gesicht, kann Volker Rittenauer nur sagen, dass er „nichts ausschließen kann“. Und dies ist ein Satz, den man realen Ermittlern hört, wenn man sich in den Orten der Verbrechen begibt, nach Lust-Oberstein in Rheinland-Pfalz, nach Freilande und Heilbronn, nach Linz in Oberösterreich.

Rittenauer sitzt im Besprechungszimmer des Polizeipräsidiums. Er trägt eine weiße Schutzkittel, die er über seinen grauen Anzug gezogen hat. Er ist ein Mann mit einem freundlichen Gesicht, das aber eine gewisse Härte hat. Er ist ein Mann, der die Arbeit eines Polizisten liebt. Er ist ein Mann, der die Arbeit eines Ermittlers liebt. Er ist ein Mann, der die Arbeit eines Mannes liebt.

Getötet per Kopfschuss: Im April starb in Heilbronn eine 23-jährige Polizistin, zwei Monate später gibt es zur Täterin ein Profil, aber kein Gesicht.

5-er BMW der beiden Beamten. Fünf Wochen lang haben Kriminaltechniker Klebeband über den Lack gelegt und abgezogen. Immer wieder, bis im Anfang Juni.

Nach dem Mord habe man am Tatort keinerlei Spuren gefunden, sagt Appel, nur drei Gläser auf dem Küchentisch und eine Flasche Sprudel. Das einzige

teer ihn. An einem Glas fand die Polizei die Spuren einer Frau. „Sie ist eine gute Spurensucherin“, sagt Bruno Bösch, 33, Kriminalhauptkommissar in Freising.

Frau. „Wenn so ein Täter läuft die Maschinen. Die Ermittler glauben stellen zu können.“



fingerprint identification

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



**BLKA SG 525
analysis**



suspects

excludable traces

open traces



drug parcels

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





picture child porn

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



DSC00418_Dakt.jpg



propaganda in the Internet

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





grid lines for biometry measurements

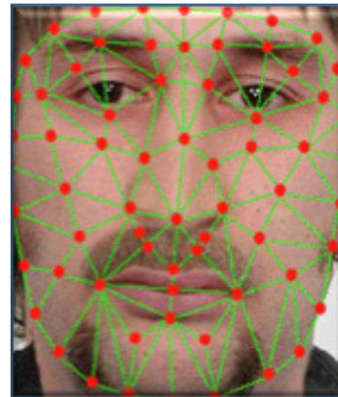
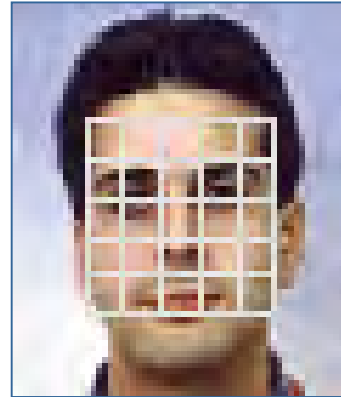
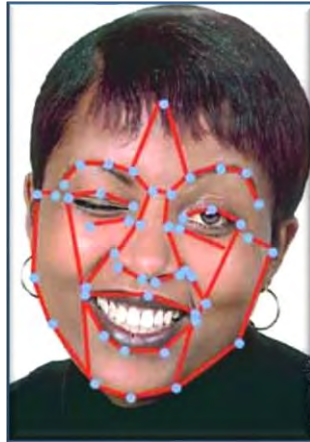
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





verification vs. identification

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

verification



is it really her?

identification



1 : n



who is she?



face recognition research process

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

GES-Recherche INPOL

Kommentar

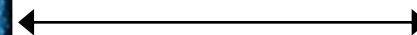
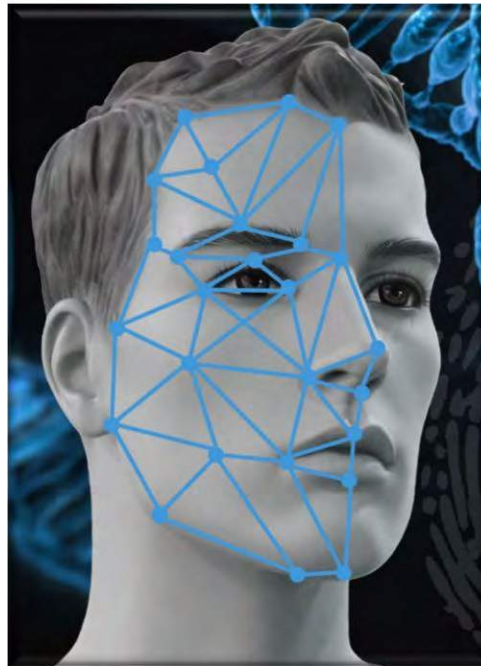
Für diese Auswertung berechtigt

Max.Anzahl Schwellwert %

Augenkoordinaten links X Y

Augenkoordinaten rechts X Y

Bilddatei



0012765431212
1299838092473
2837287462874

INPOL-central





face recognition research process

„hit“

INPOL-BKA

Gesichtserkennung

Suchbild



G2017184

Trefferliste für GES-Vorgangs-Nr. G201718400075: 10 Treffer

Position 1



P1509801
E0915104

Position 2



P1509801
E0915104

Position 3



P9702308
E0201193

Position 4



P9912501
E1199125

Position 5



P9909001
E1599090

Position 6



P9413801
E0304246

Position 7



P1526704
E0816076

Position 8



P9301120
E0811255

Position 9



P9807713
E0813303

Position 10



P8709700
E1197335



comparison by a specialist

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

search template



“hit” (in police database)





face recognition research process

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

Cognitec

PRODUCTS APPLICATIONS TECHNOLOGY SERVICE COMPANY

Visits

Grid of face images with labels: *valued customer (company)*, *manager visit (shop)*, *valued customer (company)*, *manager visit (shop)*, *valued customer (company)*.

Details

Name: Dana Smith
Internal ID: SLG791856
In Gallery: Valued Customer

Statistics

Number of Visiting Persons (3.34.19): [Bar chart showing counts for various age groups]

Gender Distribution (3.34.19): [Pie chart showing 50% females and 50% males]

Visit of Person in Gallery

Visit ID	Visit Date	Visit Time	Visit Status
1	09:30:49 2013-12-11	10:51:59 2013-12-11	Ongoing

Person Details:

Person ID	Person Name	Person Gender	Person Age
ME05YG14	ME05YG14	male	1976.00



major challenge „personal identification“

1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





4. Police Station Schwabing





PI 13 - organization / statistics



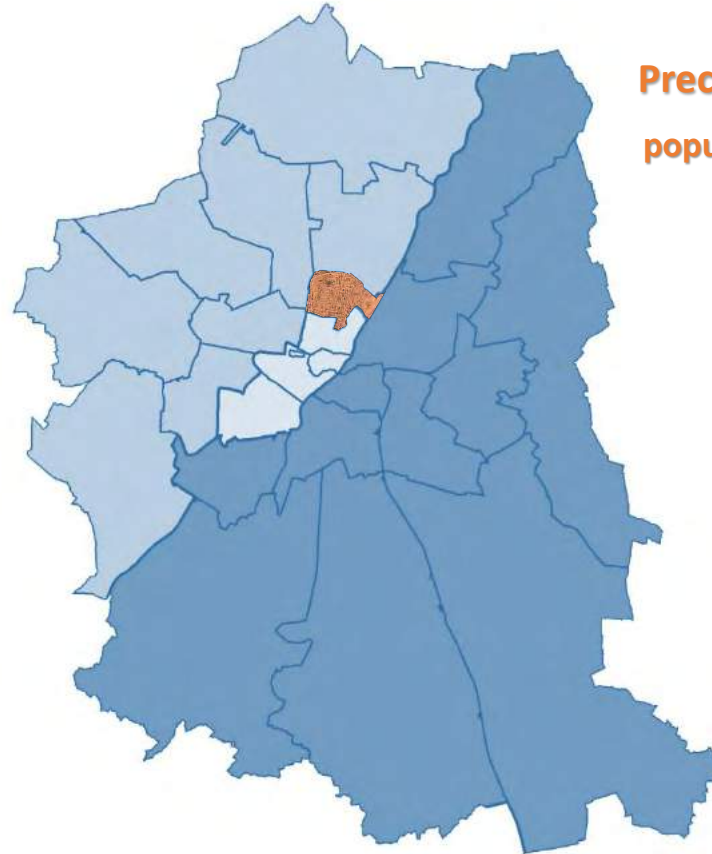
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



Precinct 13 - jurisdiction

population: 74,907 citizens

area: 6,8 km²

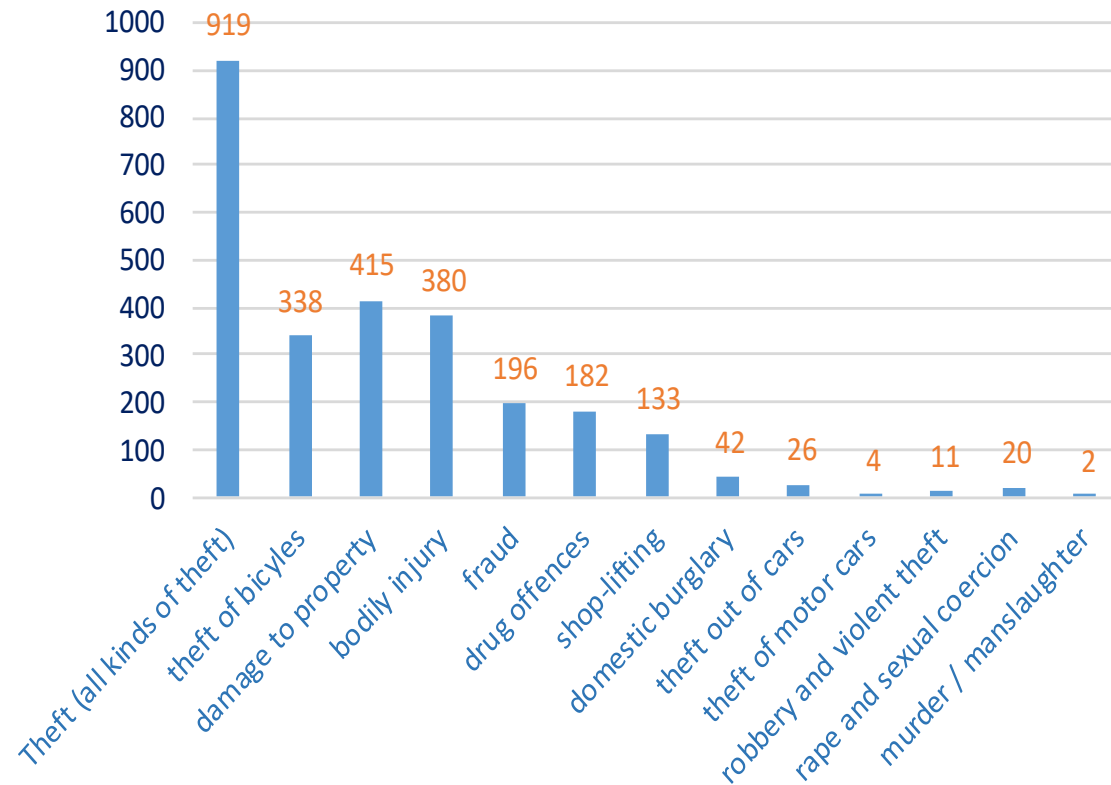


crime statistics – Precinct 13



all offences / complaints in 2017: 3.397

- including attempted offences



1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



daily routine



1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions





daily routine



1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

- daily briefing with all groupleaders (08.45 h)
 - information exchange
 - assessment of the actually / daily situation
 - coordination of necessary tasks / determination of individual cooperation of the several groups in our Police Station
- monthly briefing
- annual briefing
- annual „Controlling Report“ with a special view on
 - successes
 - problems and challenges
 - setting targets



PI 13 - Organization



Chief

Chief of personnel tasks

Deputy Chief / coincident Supervisor Operations

AREA I

Executive Officer
personnel

- weapons and equipment
- personnel
- facility management
- IT-administration
- budgeting / training...

AREA II

Executive Officer
for protection tasks

- planning operations
- org. manpower support for other police stations
- management of object/personal security

AREA III

Executive Officer
for crime fighting

- coordination of all action force matters
- local crime strategies

**SUPPORTOFFICER
for crime analysis**

- daily crime report
- local crime analysis
- crime statistics
- local GIS & PRECOP

AREA IV

Executive Officer
for road safety / traffic

- controlling local traffic situation / flow regulation
- accident statistic
- way to school protection

4 shifts

Staff:

4 x 2 supervisors
4 x 9 officers

- 24 shift
- watch/ patrol duty
- first access to any case

2 disposal groups

Staff:

2 supervisors
2 x 20 officers

- special tasks e.g. assemblages, soccer related tasks, object security
- trade officers
- traffic field service supervisor
- bike patrol
- traffic surveillance
- speed control
- ...

plainclothes patrol

Staff:

2 supervisor
8 officers

- plainclothes patrol
- combating street crime
- enforcement of arrest warrants
- wanted persons

search squad

Staff:

2 supervisors
12 officers

- specialized to recognize forged documents
- combating illegal entries/migrants
- cross-border-crime

traffic warden

Staff:

13 public employees

- check of stationary traffic
- crossing guard duty
- way to school protection

community liaison officers ("KOB") & local investigations

Staff:

1 supervisor
12 officers + 9 KOB's

- community liaison officer staff
- investigators for minor cases
- youth officers

Citizen Patrol
voluntary citizens which support the police



controlling & crime analysis



1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

CID

special crime analyses/reports

global, transnational, national information

MPD

special crime analyses/reports

daily crime report from MP-headquarter

PS

- **regional** analyses/reports

- input of “own” local informations

result: local daily “situation picture”



daily routine



1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

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08:00 - 09:30 Uhr Lesefische Hainhauser-Schule (Klemens)	10
12:30 - 15:30 Uhr Besprechung LELEX, PP Rapportsaal (PD Brettnier, PHK+ Kraus)	10
13:00 - 13:30 Uhr Besprechung Einsatzraum IV, Stock (PHK+ Amthor)	10
13:30 - 15:30 Uhr Ortstermin Streetlife (EPHK Fischer, PHK Brill)	10
6. FKZ	10
entfällt	10

Lagebericht der PI 13 vom Dienstag, 17. April 2018

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Polizeiinspektion 13 (Schwabing)

Sachbereich Lage

17.04.2018

Lagebericht der PI 13 vom Dienstag, 17. April 2018	
1. Gewaltdelikte	
1.1 UBT stört Feuerwehreinsatz und führt Feuerwehrmann an	
Anzeige BY8513-004827-18-4 SB: PP München-PI 13 Aufnahme: 13.04.2018 (Fr), 17:10	
ZLW: Aggressionsdelikt im Straßenverkehr	
TÜ: 80803 München, Schwabing-Freimann, Karl-Theodor-Straße 39 / Straße, Platz innerhalb geschlossener Ortschaften / FR, östlich	
TZ: 13.04.2018 (Fr), 17:05	
BGW: sonstige Begehrungsweise	
UBT(1), männlich	
0 cm / 10 Jahre	
AES GES ZEG Spanner, Herman, 09.12.1989 in Bad Tölz, deutsch, männlich, 80331 München, An der Hauptfeuerwache 8, 089/235370421	
ZEG GES Kühnemann, Sebastian, 20.05.1983 in Dresden, deutsch, männlich, 80331 München, An der Hauptfeuerwache 8, 089/235370421	
ZEG Haas, Jürgen in unbekannt, männlich, 80331 München, An der Hauptfeuerwache 8, 089/235370421	
AUS Frick, Kerstin Silke, 26.06.1975 in München, deutsch, weiblich, 81541 München, St.-Martin-Straße 4 / 4, 0171/7581502	
Pkw / D / WDB906651S603811 / M-MT1902 / Mercedes/Mercedes- / Sprinter / weiß ZU: Frick, Kerstin Silke ZU:	
Kurzschverhalt:	
AES ist Einsatzleiter der Feuerwehr. Daren Einsatzfahrzeuge waren aufgrund eines Einsatzes (Nr. 834) in der Karl-Theodor-Straße 39-37 geparkt. Während den Aufräumarbeiten wurden die eingesetzten Kräfte durch den UBT an ihrer Arbeit behindert, indem dieser die Absperrung missachtete und an ihnen und den Einsatzfahrzeugen vorbeifuhr. Hierbei touchierte der Pkw des UBT den AES am Ellenbogen. AES wurde nicht verletzt.	
2. Eigentumsdelikte	
2.1 BES befindet sich unberechtigt in Wohnung der GES und bricht Sparschwein auf	
Anzeige BY8513-004839-18-3 SB: PP München-PI 13 Aufnahme: 14.04.2018 (Sa), 13:39	
TÜ: 80803 München, Schwabing-Freimann, Berliner Straße 42 / Mehrfamilienhaus - Wohnung	
TZ: 13.04.2018 (Fr), 22:00	
BGW: sonstige Begehrungsweise	
EHW: BES gelangte auf unbekannte Weise in die Wohnung und entwendete Bargeld.	
BES Sieget, Marcel Adriano, 29.03.2000 in München, deutsch, männlich, 86825 Bad Wörzshofen, Röntgenweg 11	
UBT(1), männlich	
UBT(1), männlich	
GES ZEG AES MITT Spinning, Yvonne, 21.03.1994 in München, deutsch, weiblich, 80605 München, Berliner Straße 42 3, 0171/7235714 / Ehemalige GdW EFR 5	
ZEG Trapp, Fredrik, 05.10.1992 in Forchheim, deutsch, männlich, 80805 München, Berliner Straße 42, 0171/9199688	
ALI unbekannt, Isam, männlich	
ALI unbekannt, Tobit, männlich	
Kurzschverhalt:	
BES gelangte mit den beiden UBT auf unbekannte Weise in die Wohnung der GES. Der BES und die UBT konsumierten in der Wohnung während der Anwesenheit Alkohol und Lebensmittel der GES und entwendeten 5,00 Euro aus einer unversicherten Spardose. BES und UBT entfernten sich bei Eintreffen des Mitbewohners ZEG T. aus der Wohnung. ZEG T. stellte erst nach Rücksprache mit der GES fest, dass die Personen unberechtigt in der Wohnung waren. BES und UBT befanden sich zuvor bereits berechtigt mit der GES in der Wohnung. Keine Aufbruchspuren vorhanden. Sämtliche Schlüssel zur Wohnung bei der GES vorhanden. Nach tel. Rücksprache mit KDD keine Sofortmaßnahmen.	

Lagebericht der PI 13 vom Dienstag, 17. April 2018

Seite 2 von 10

Polizeiinspektion 13 (Schwabing)

Sachbereich Lage

17.04.2018

example: daily „crime report“ on our „local level“



crime mapping



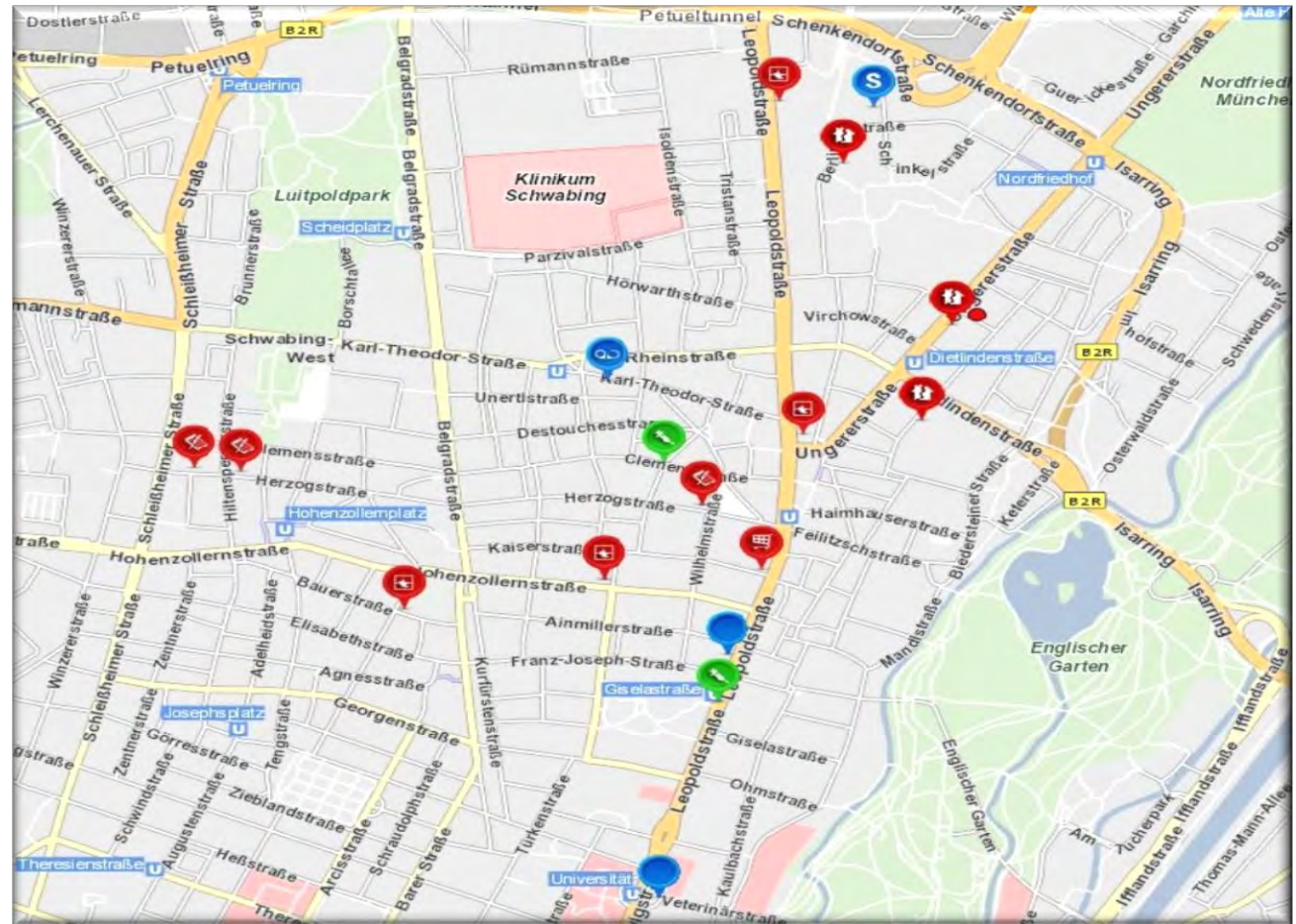
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



example: daily crime mapping on our „local level“



crime mapping



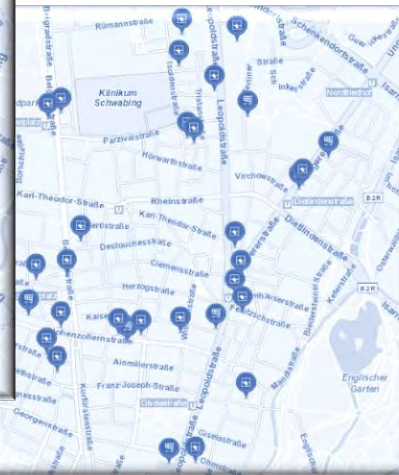
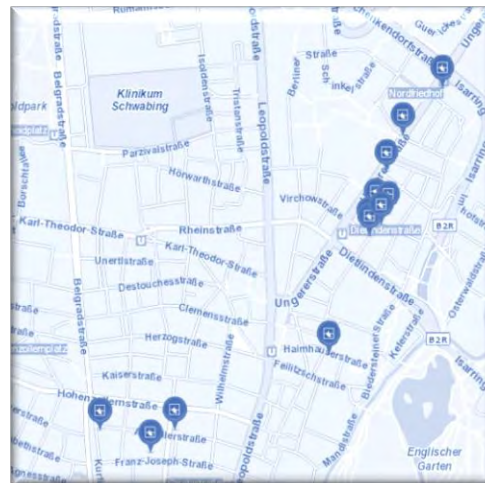
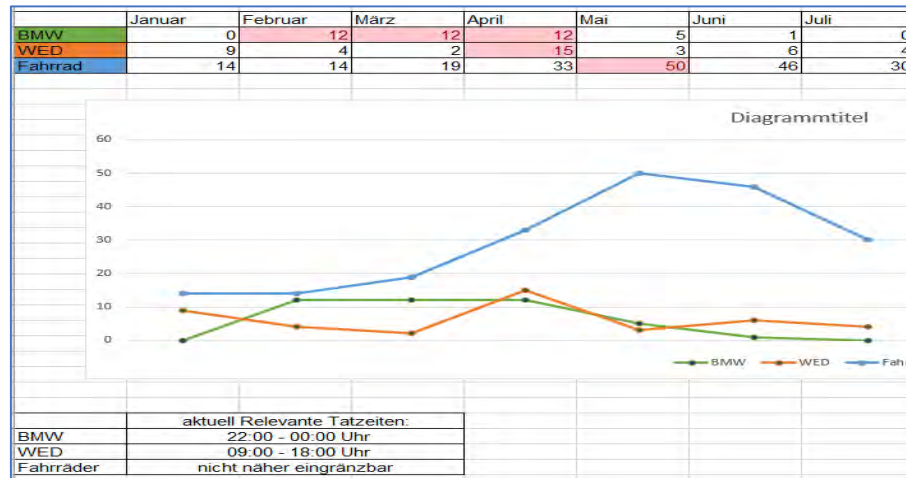
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



examples:

monthly crime mapping and analysis on our „local level“



crime mapping



1 – intelligence-led-policing

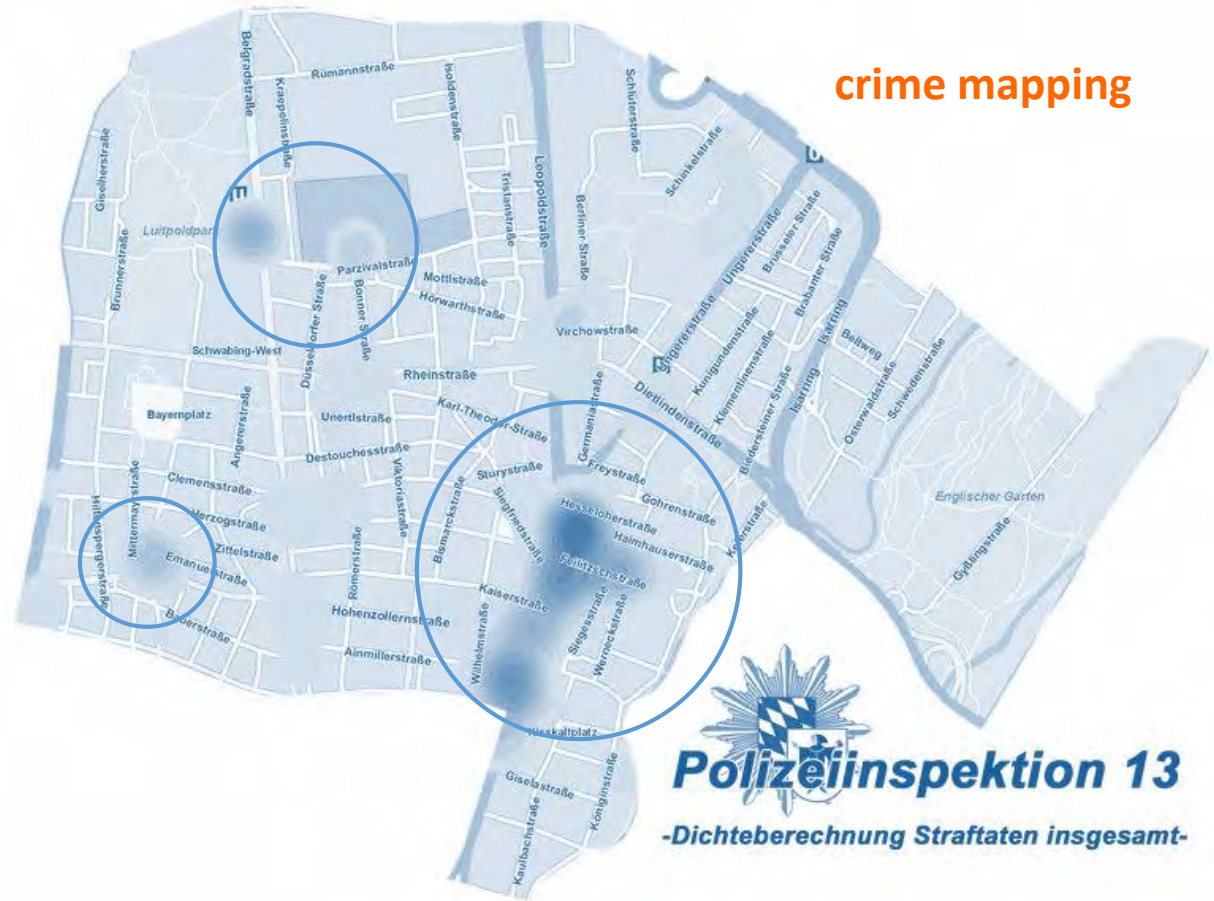
2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions

crime mapping



Polizeiinspektion 13

-Dichteberechnung Straftaten insgesamt-

example: crime density analysis
- identifying and recognizing „hotspots“



...operating with predictive policing

hidden measures vs. maximum presence ?

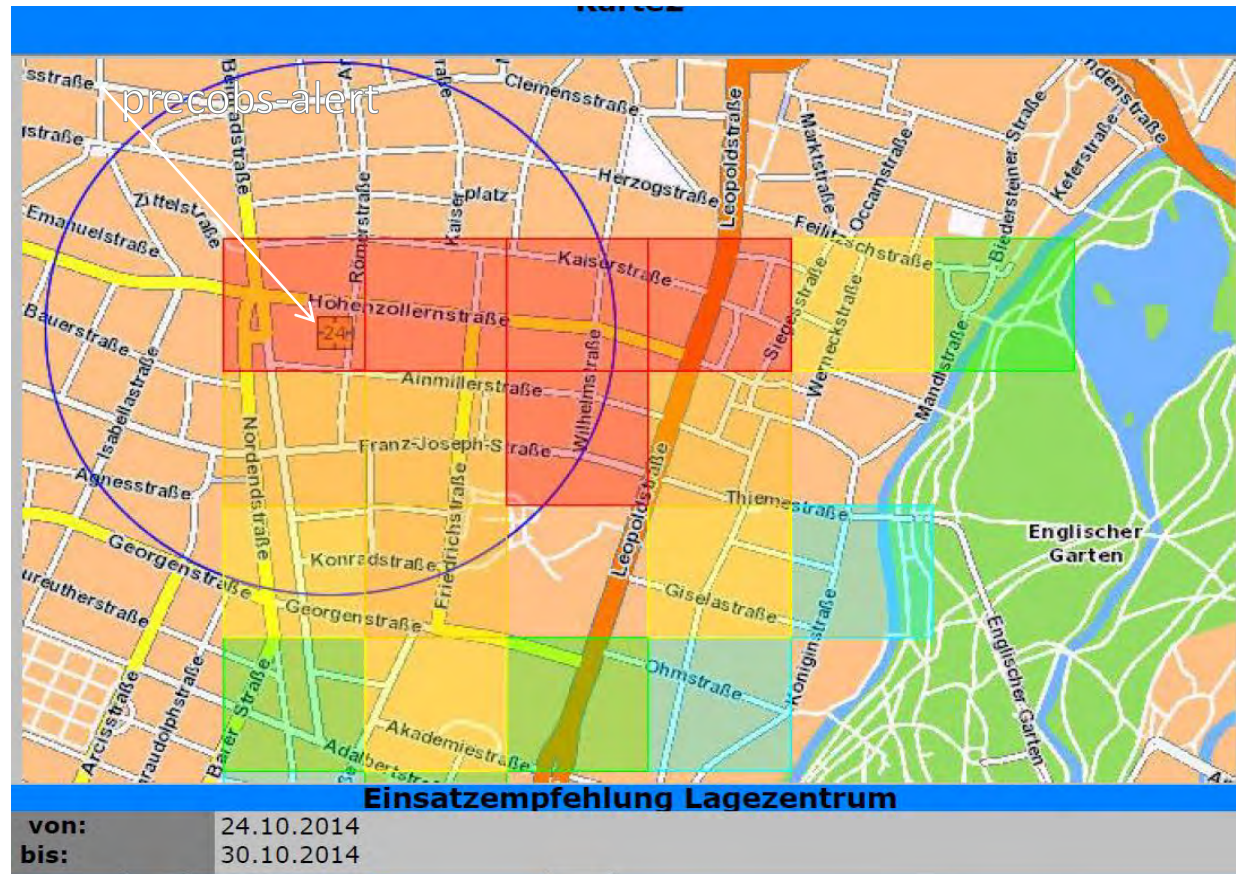
1 – intelligence-led-policing

2 – predictive policing

3 – identification

4 – daily routine at Police Station

...your questions



prediction of burglaries / based on police data bases of the headquarter
- giving recommendations for police operations / activities



summary



crime analysis is the basis for a realistic reflection of the current crime situation and crime trends...



to be aware of the current crime situation and crime trends is the basis for targeted and professional police work...
(enforcement and prevention)



to be aware of the current crime situation and crime trends is crucial for political decision makers for enacting laws and provide needed resources...

The importance of police data for violence prevention

ISS Seminar, 11 September 2018



Andrew Faull

Justice and Violence Prevention Programme

Why data is central to effective violence prevention

Is crime predictable?

Police are the custodians of key data

Violence prevention requires a ‘whole of society’ approach to crime prevention, supported by regular sharing of relevant data

Police can't be everywhere, but can be where it matters most.

The same is true for complimentary services & stakeholders

Crime & violence are usually:

- Focused in space and time
- Perpetrated by a small number of offenders
- Associated with types of behaviour

South Africa has 1144 police station areas (precincts)

In 2017/18, **2.6% (30)** of stations recorded **20% (4124)** of all murders

In 2016/17, **13% (148)** of stations recorded **50% of all murders**

The Western Cape has 150 SAPS stations

In 2016/17, **10 stations** (6.6%) recorded **47%** of the province's murder, and **8% of national murder**

In 2017/18, they accounted for **9% of all murder countrywide**

**42% of the 1320 additional murders in
2017/18 occurred in 30 police precincts**

2016/17 – Most murder occurred on **weekend evenings**

Northern Cape: 77% over weekends

Western Cape: 65% over weekends

Eastern Cape: 65% over weekends

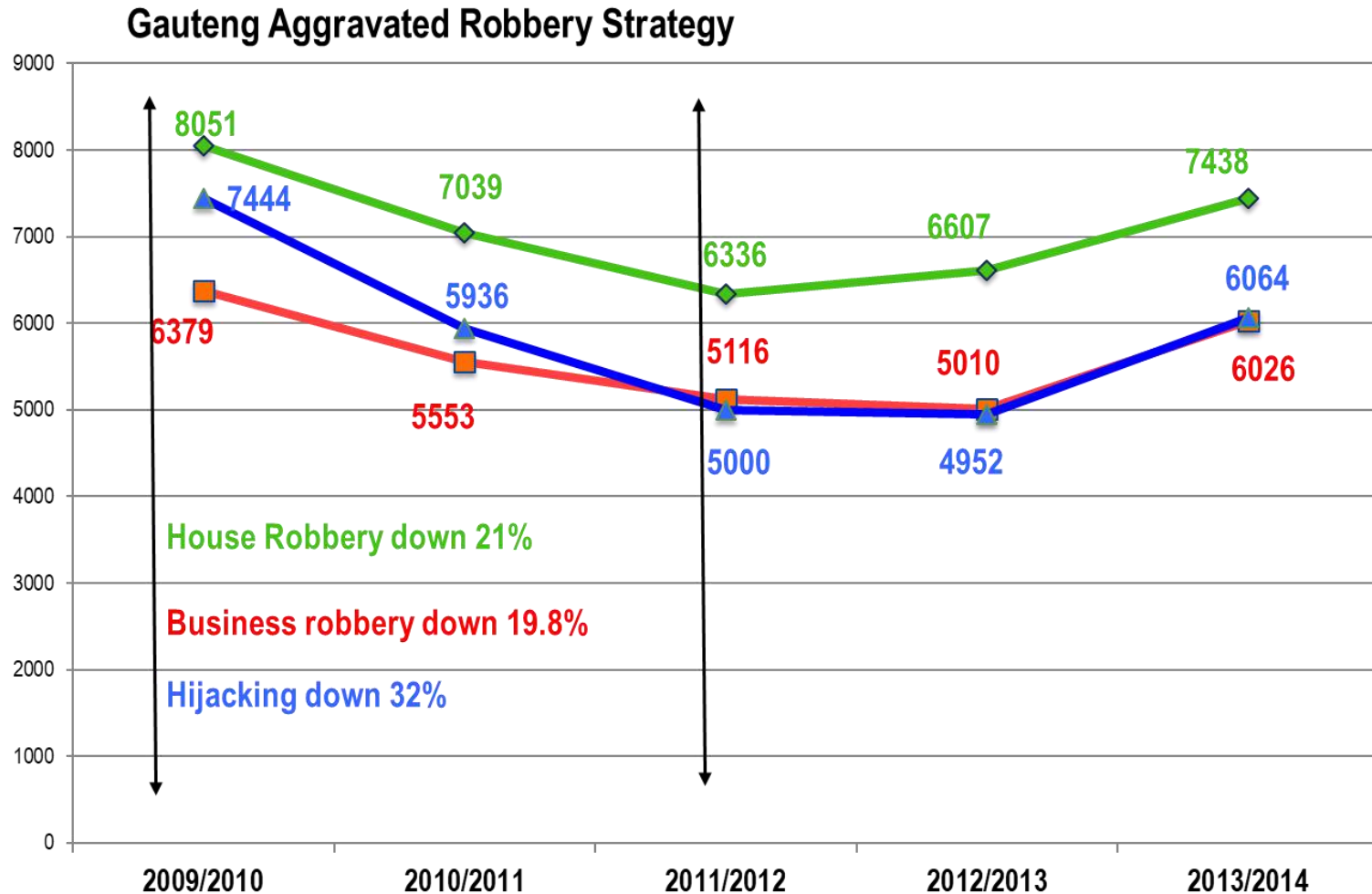
KwaZulu-Natal: 61% over weekends

Mpumalanga: 50% over weekends

SAPS analysis identifies **alcohol** as common to:

- murder
- attempted murder
- assault GBH
- domestic violence
- robbery
- rape

A small % of people account for a large % of select crimes



To reduce violence police should concentrate resources:

- In high-murder precincts
- Over weekends, evenings
- Where alcohol is frequently consumed
- On those at risk of committing robbery (and other repeat offenders)

But police cannot prevent violence alone

Deployment must be complimented by other interventions



**WHAT WORKS IN REDUCING
COMMUNITY VIOLENCE:
A META-REVIEW AND FIELD STUDY FOR THE NORTHERN
TRIANGLE**

1. Focus on **specific problem** in targeted area (e.g. domestic violence)
2. Identify and reach out to **high-risk individuals** in target area - offer support, let them know authorities are watching
3. Coordinate between partners, be **very adaptable** (schools, parks, community groups, prosecutors, etc.)
4. Interventions must be guided by **a theory of change** understood by all involved
5. **Data must be used to analyse problems, identify targets, guide interventions, drive implementation and evaluate effectiveness**

SAPS data is fundamental to reducing violence in South Africa.

Regular sharing of data would build trust between the public and police.

Police can't be everywhere, but can be where it matters most.

The same is true for complimentary services & stakeholders

Effective violence prevention requires focused interventions based on partnerships, guided by a shared vision and shared data

THANK YOU

The importance of police data for violence prevention

ISS Seminar, 11 September 2018



Andrew Faull

Justice and Violence Prevention Programme