Welcome

2016 OSCE ANNUAL POLICE EXPERTS MEETING

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Predictive analytics and policing in Bavaria

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Organisational structure of the Bavarian Police Forces

**Bavarian State Ministry of the Interior, Building and Transport**

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<th>Regional Police Headquarters by Region and City</th>
<th>State-level Police Authorities</th>
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<td>Middle Frankonia (Nuremberg)</td>
<td>Bavarian State Criminal Police Office (Munich)</td>
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<td>Upper Frankonia (Bayreuth)</td>
<td>Police Administration Office (Straubing)</td>
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<td>Northern Swabia (Augsburg)</td>
<td>Bavarian Stand-by Police Headquarters (Bamberg)</td>
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<td>City of Munich</td>
<td>University of Applied Sciences for the Bavarian Police (Fuerstenfeldbruck and Sulzbach-Rosenheim)</td>
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<td>Upper Palatinate (Regensburg)</td>
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<td>Southern/Western Swabia (Kempten)</td>
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<td>Lower Bavaria (Straubing)</td>
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<td>Lower Frankonia (Wuerzburg)</td>
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268 local police stations
42 local traffic police stations
10 internal criminal police divisions
42 local criminal police stations
2 police stations special units
Intelligence-Led Policing

Fight against crime through:

• gathering and review effective informations
• established analysis of all findings and merging data

to:
• create risk assessments
• effectively use resources
• develop strategies to combat crime
• operate Crime Prevention

our target:
to provide proaktive policing
MY HOME IS MY CASTLE
Domestic Burglary – Crime Situation in Bavaria

The Problem is….

- Domestic burglary is a widespread criminal offence; cases are hard to solve
- Little information on how offenders are organised (15.7% of cases are solved)
- Local/regional **and** mobile, travelling perpetrators
- Rising crime rate since 2008 probably due to mobile perpetrators from Southeast Europe
- Crime series and serial offenders
Strategy for Combating Domestic Burglary

Solutions are...

- Recognising burglary series and identifying trans-regional connections
- Perpetrator-oriented approach
- Decentralised and centralised investigations
  - specialised police units
- Central analysis
- Information management
BLKA Framework Concept

- Offender-oriented countermeasures, particularly in the case of transnational crimes (travelling offenders, legal classification of crimes)

- Structured exchange of information – within Bavaria, Germany and internationally
  - Cooperation with Baden-Württemberg and Hessen
  - Daily operational exchange from data of cases and suspects with Austria
  - Operational Domestic Burglary Network und Strategic Domestic Burglary Network in cooperation with Europol

- Centralised case management

- Cooperation with public prosecutors
Impact, Findings, Perspectives

- A state-wide holistic approach to fighting domestic burglary in accordance with basic guidelines will lead to better data, have a certain effect on crime displacement, and increase public perception and awareness.

- By managing, coordinating and analysing information centrally, it is guaranteed that the police stations responsible for the case as well as the neighbouring police stations are quickly and adequately brought to date.

- **Burglaries are still on the rise, however.**

- The domestic burglary phenomenon has top priority in the whole of Germany. For this reason, a project group including members of federal and state agencies dealing with this issue has been formed.

- We have to cooperate with the science sector and test new methods (e.g. Predictive Analytics)
Predictive Policing???

Blue Crash!

PredPol

Predictive Analytics

Risk Terrain Model

- The behaviour of perpetrators follows certain patterns which can be recognised by IT systems.
- The time required for extensive data analyses in the field of volume crime can be reduced by IT systems.
- Daily crime situation analysis as well as preventive and operational police work are rendered more effective by IT systems.
- The time-saving effect reduces the burden on police officers and can be used to improve day-to-day police work.
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.

PredPol and other also qualified, they pursue a different approach

The benefit is:

We can take one step in the future!
What happens???


-11,4  -15,5  -34,2  -22,2

objektbezogene ED  WED  Kerngebiete  Kerngebiet inkl. Randzone (500 m)
Thank you for your interest

We want you to live savey!