

crimebook

YOUR POCKET-SIZED
POLICE DEPARTMENT!

The crimebook application can:

1. Detect dangerous situations & alert you about nearby criminals
2. Automatically record suspicious activity
3. Identify criminal suspects – thereby DETERING future crimes



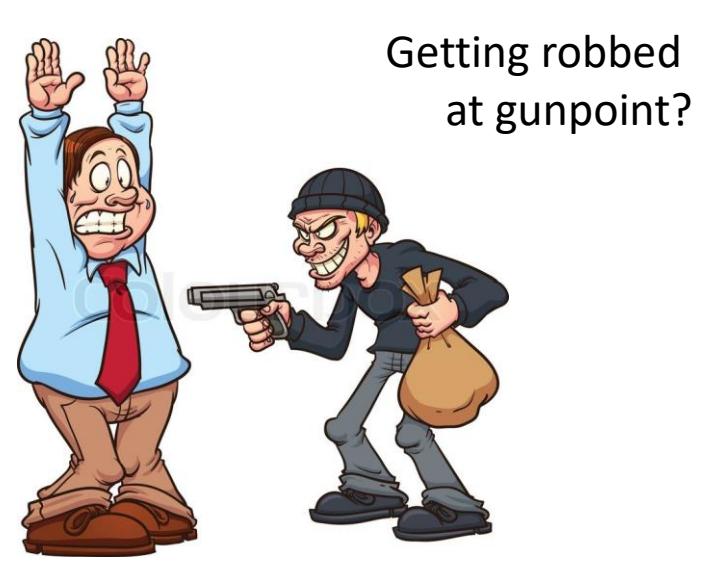
PROTECT YOURSELF
& YOUR LOVED
ONES
*from terrifying
situations*

... have you ever worried about
the following?





Walking home late at night?



Getting robbed
at gunpoint?



Being trapped in a trunk?



Being
held
hostage?



Getting abducted?



Being physically overpowered
by your captor?



1. DANGER DETECTED:
ASSESS SITUATION



2. EMERGENCY SERVICES
& CONTACTS ARE NOTIFIED



3. PHONE WILL LOG
RELEVANT SENSOR DATA

THE 3-STEP SOLUTION

HOW DOES **STEP 1** WORK?





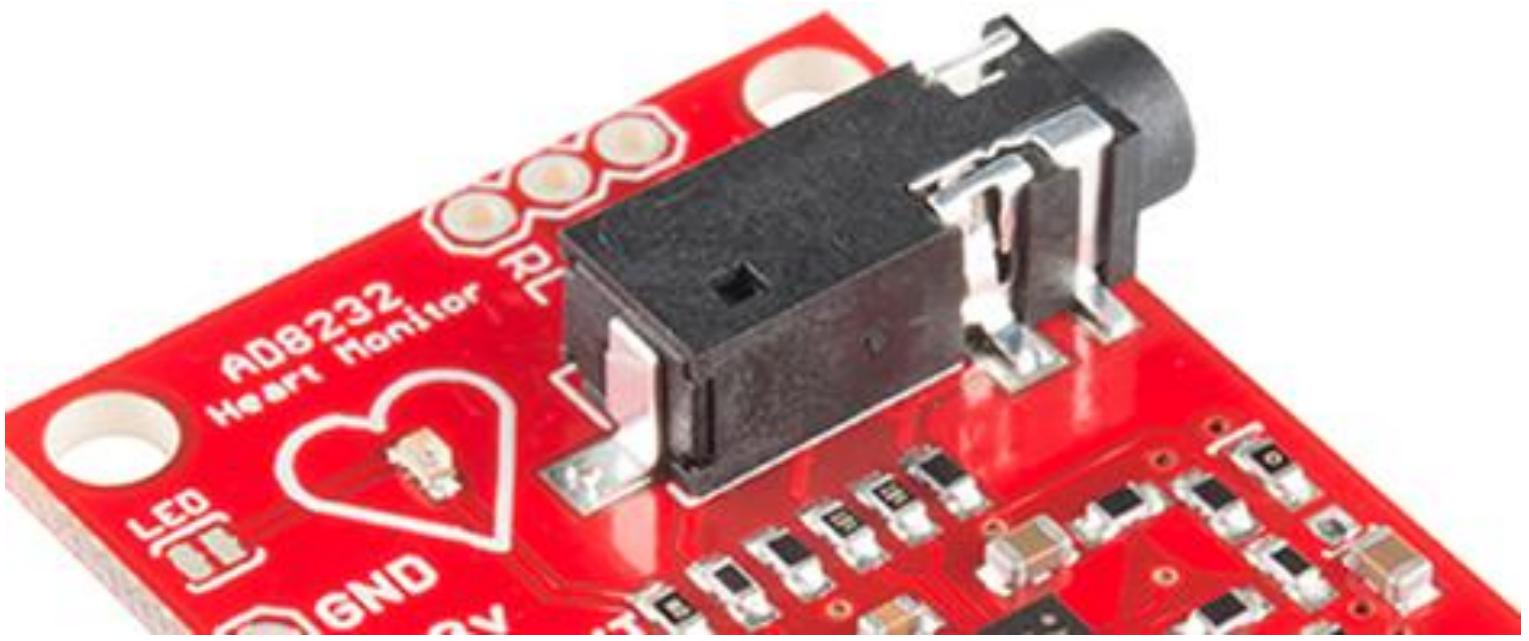
CRIMEBOOK uses 3 hands-free sensors to automatically detect when you are in danger: the MEMS microphone, the heart monitor, and the internal WiFi radio



Go ahead,
I'm listening.

> SHOUTING FOR HELP
will trigger an alert





> HEART RATE above 140
BPM will trigger an alert

indicating that your sympathetic nervous system has shut down specific body functions to focus on survival



INTERNATIONAL
CRIME DATABASE

MAC ADDRESS IDENTIFIED!

00-15-E9-2B-99-3C

JUBILANT
JHONEN

AGE: 21 SEX:M
H:5'3 w:105

CHARGED WITH:
BLUDGEONING
4 TALKING
DOGS

SENTENCED TO:
69 YEARS IN
AN ASYLUM



WARNING!
YOU ARE BEING FOLLOWED

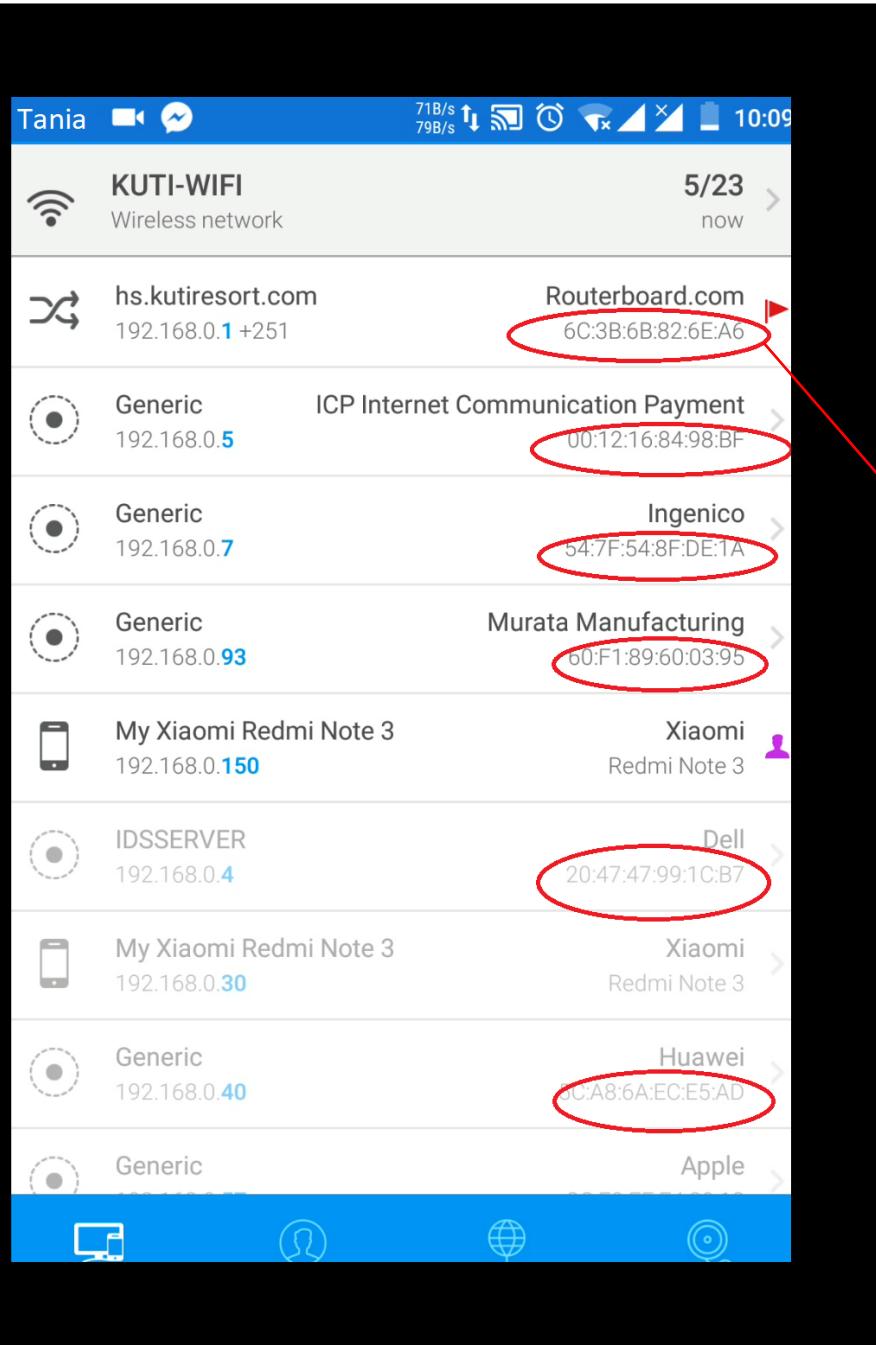


> BEING FOLLOWED by registered criminal
will trigger an alert

Your phone's built-in WiFi & Bluetooth radios can automatically detect 95% of passers-by.

All surrounding smartphones silently send out probe requests to WiFi & Bluetooth radios.

CRIMEBOOK collects these probe request details, which give away a user's MAC address (a device's identifier) and the RSSI (distance from you.)



Example of information monitored by the **WiFi Scanner**:

DB ID	Timestamp	MAC	AP	RSSI	Vendor
53483	2012-04-24 07:56:25	C4:2C:03:96:0E:4A		69	Apple
53482	2012-04-24 09:11:26	D8:2A:7E:10:1E:63	libelium_wsn1	60	Nokia Corporation

Example of information monitored by the **Bluetooth Scanner**:

DB ID	Timestamp	MAC	ID	RSSI	CoD	Vendor
45400	2012-05-16 16:18:12	00:26:7E:5F:3C:18	myCar	-72	Handsfree	PARROT SA
78005	2012-04-20 12:59:27	D8:2A:7E:0E:C3:10	Tropic	-85	Smartphone	Nokia Corporation

The **MAC ADDRESS** can be cross-referenced in our database to identify if the user is a criminal.

All surrounding smartphones silently send out **probe requests** to WiFi & Bluetooth radios. CRIMEBOOK collects the **probe request** details, which give away a user's **MAC address** (a device's identifier) and the **RSSI** (distance from you.)



CRIMEBOOK's **custom database** contains the following information for U.S. smartphone users:

- MAC address
- IMEI address
- Phone carrier
- First and last name
- Public criminal records
- Social Media profile picture

This personal data has been purchased legally from U.S. data broker Acxiom.

WHAT
HAPPENS IN
**STEP
2?**





If the coast is clear, you can dismiss the alerts that were triggered in **STEP 1**.



Otherwise, CRIMEBOOK will automatically contact **emergency services** for help.

(Users can of course set their own emergency contacts and wait-time before calling)



Car Accident



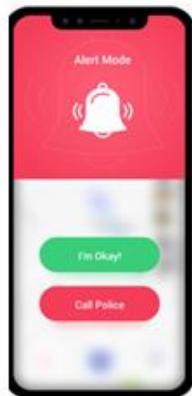
Emergency



Criminal



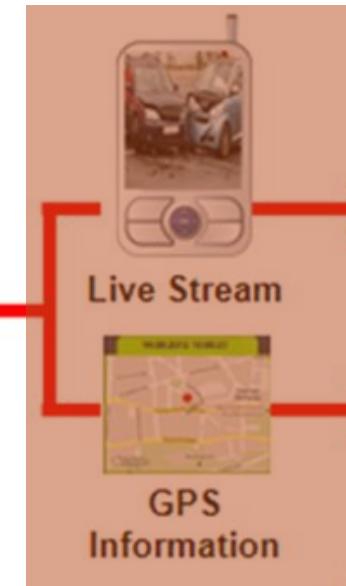
Fire



CRIMEBOOK contacts
emergency services



Talk Back



911 or Control Center

Emergency Contact

Site Mobilization





Temperature



Zoom Out

Last 6 hours

Refresh every 5m



Temperature OUT

17.49 °C

Temperature OUT 1day ago

14.1 °C

Humidity OUT

55 %H

Temperature Bedroom

23.00 °C

Temperature Livingroom

23.50 °C

Humidity Bedroom

46 %H

Yahoo Weather

18 °C Cloudy

Yahoo Weather

Sunrise: 6:29 am
Sunset: 7:23 pm
Pressure: 33457.53mb Rising: 0

Yahoo Weather

Wind Speed: 17.70 km/h
Humidity: 48 %
Visibility: 25.91km

Bedroom 2 day average

23.38 °C

Livingroom 2d average

23.59 °C

Humidity Bedroom 2d average

54 %H

> Predpoved' na štvrtok 31.03.2016

Prevazne jasno, rano a vecer zvacsena oblacnost.
Najnizsia ranna teplota 9 az 7 °C.
Najvyssia denna teplota 21 az 23 °C.
Prevazne JV vietor okolo 4 m/s.

> Predpoved' na piatok 01.04.2016

Oblacno az zamracene.
Najnizsia ranna teplota 15 az 13 °C.
Najvyssia denna teplota 20 az 22 °C.
SZ az S vietor 4 az 6, v narazoch 9 az 13 m/s.

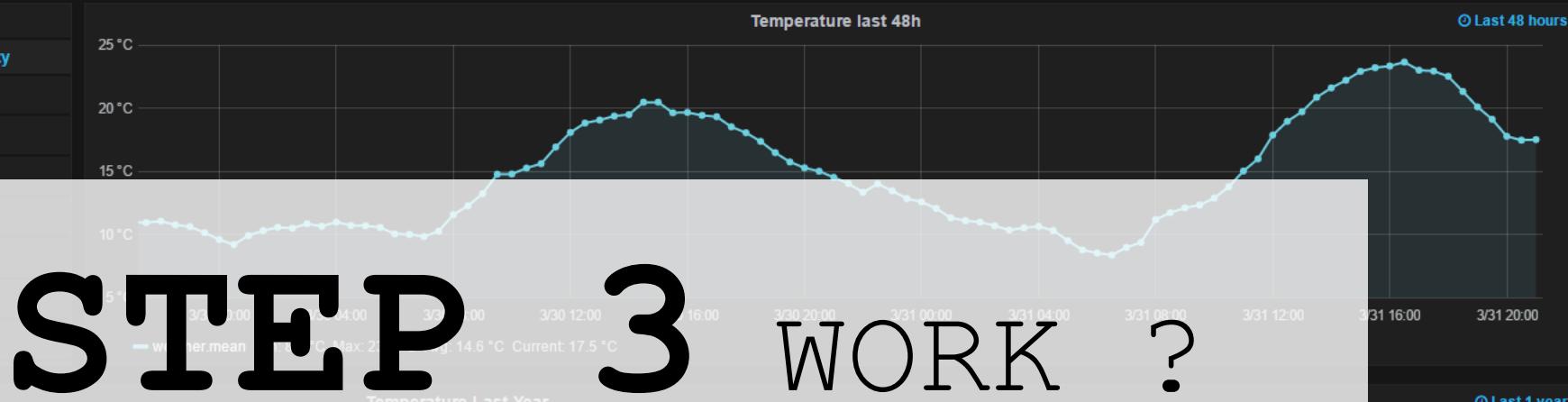
SHMU forecast for Bratislava

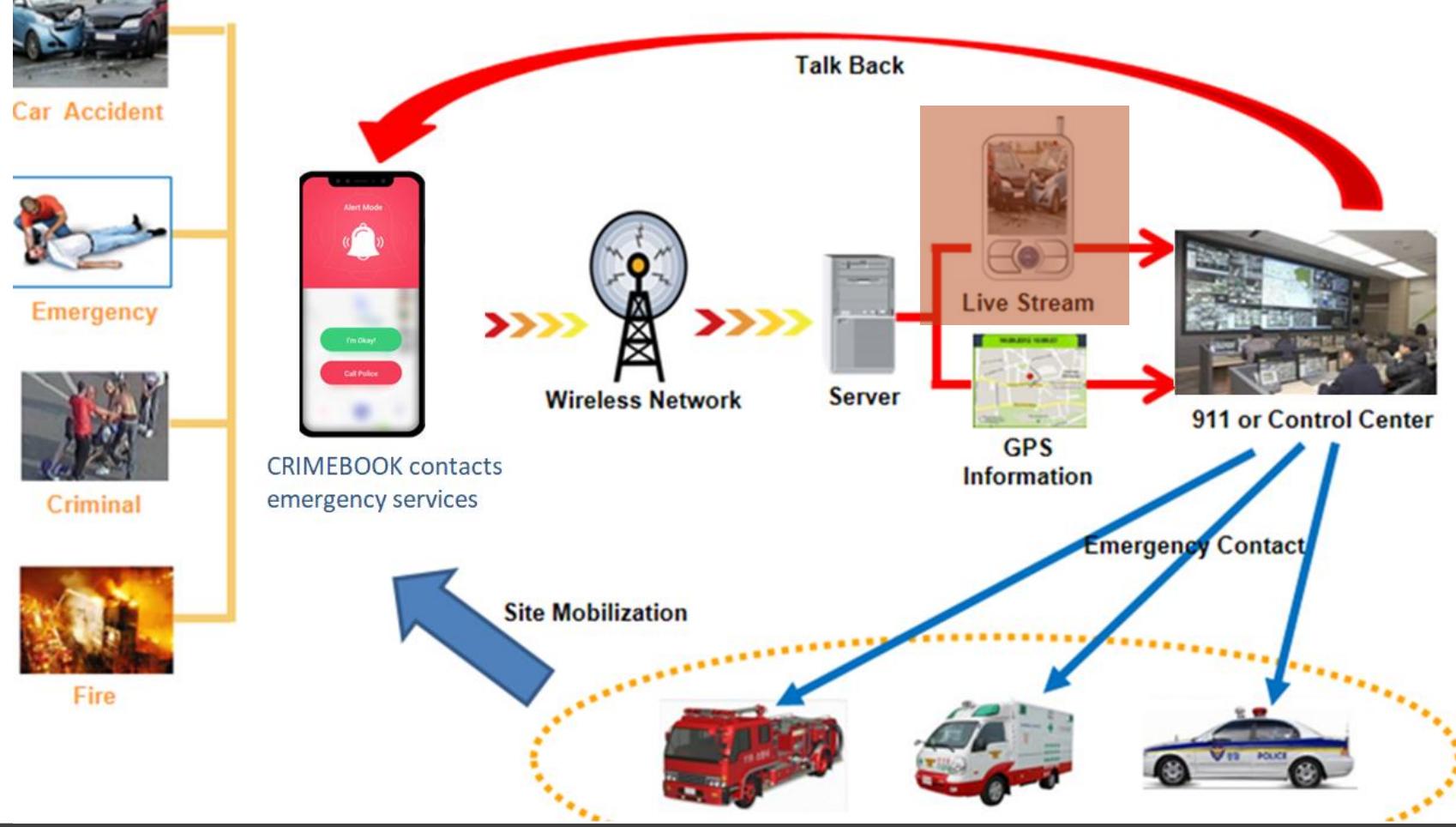
> Predpoved' na sobotu 02.04.2016

Spociatku jasno, postupne az polooblacno.
Najnizsia ranna teplota 7 az 5 °C.
Najvyssia denna teplota 15 az 17 °C.
Prevazne JV vietor okolo 5, v narazoch 8 az 12 m/s

Weather OUT		
Time ▾	weather.temperature	weather.humidity
2016-03-31 21:00:00	17.50 °C	55.47 %H
2016-03-31 20:00:00	17.59 °C	54.06 %H
2016-03-31 19:00:00	19.54 °C	52.48 %H
2016-03-31 18:00:00	21.84 °C	42.24 %H
2016-03-31 17:00:00	22.95 °C	38.26 %H
2016-03-31 16:00:00	23.50 °C	38.22 %H
2016-03-31 15:00:00	23.19 °C	39.01 %H

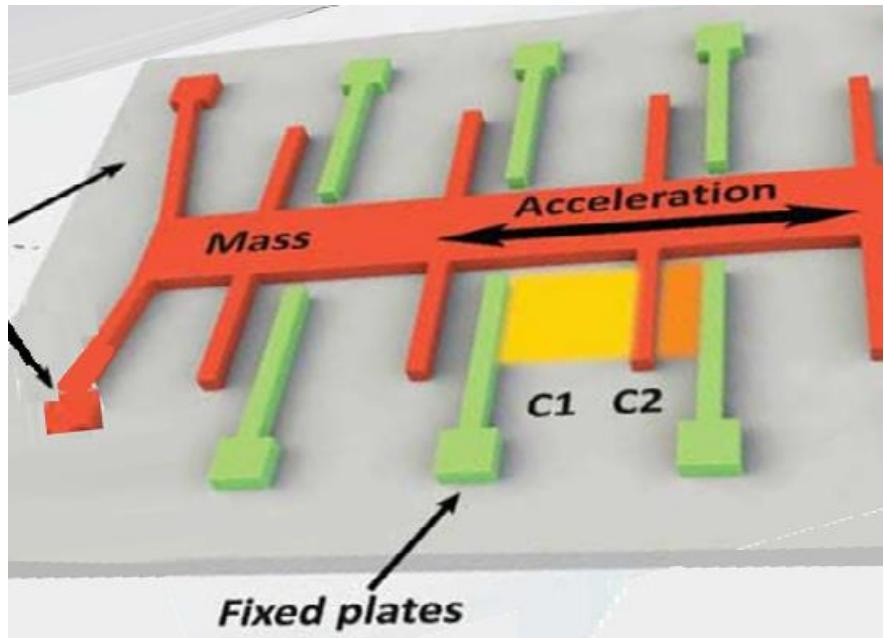
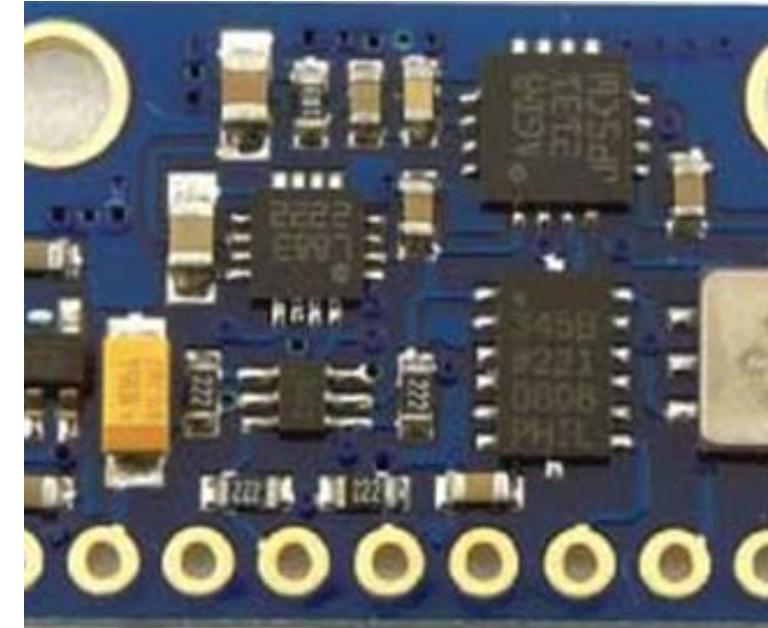
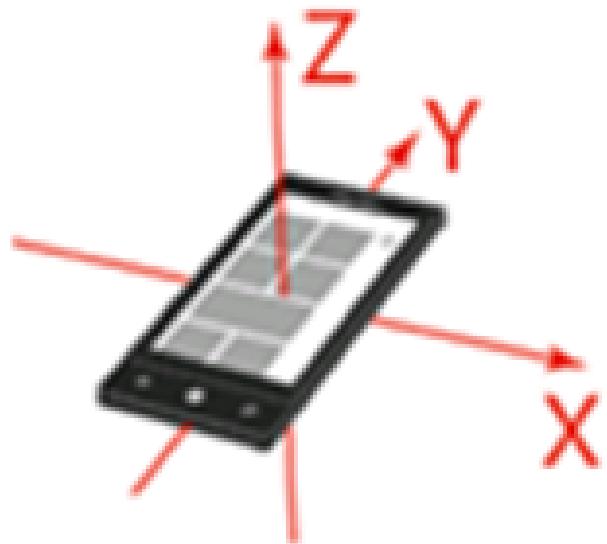
HOW DOES STEP 3 WORK ?



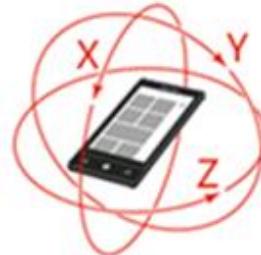


CRIMEBOOK will **collect** and **send** evidence to the emergency
“**LIVE STREAM**” from 5 mobile sensors

(in addition to the aforementioned microphone, heart rate, and probe requests)



1. Accelerometer

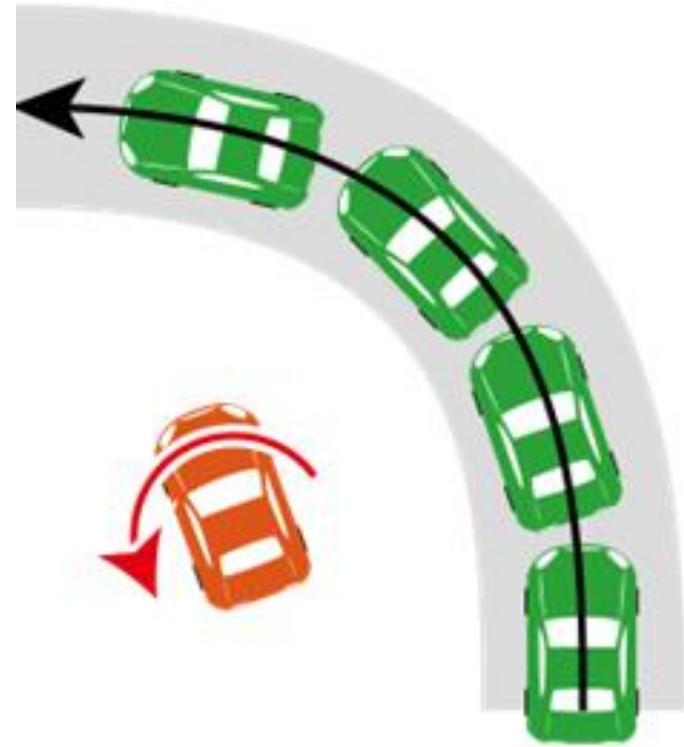


3-axis rotation rate sensor

X (Pitch): $1^\circ 29'$ per sec

Y (Roll): $0^\circ 20'$ per sec

Z (Yaw): $1^\circ 1'$ per sec



2. Gyroscope



3-axis magnetometer sensor

Field strength X: -0.19 µT

Field strength Y: -0.89 µT

Field strength Z: 0.34 µT

Magnetic North: 153° 0'



Tracking Location

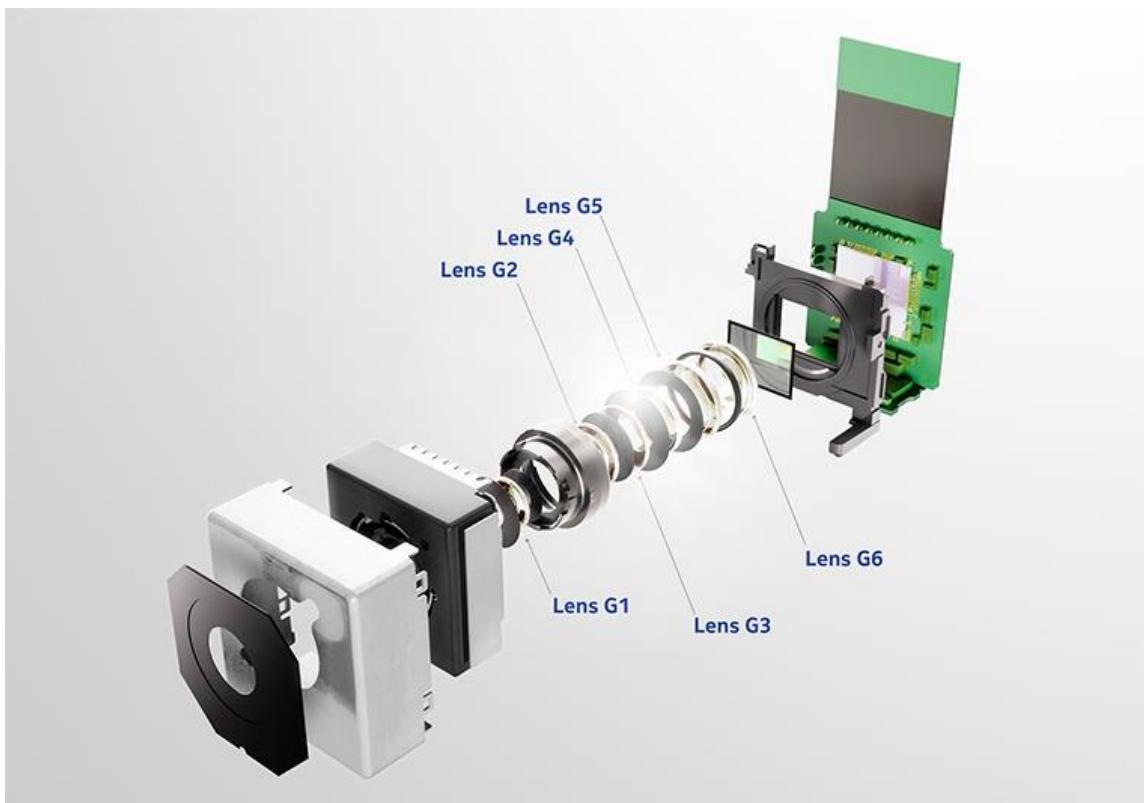
3. Compass



4. Thermal Sensor

The thermal images help police determine the victim's surroundings and the characteristics of the attackers. This sensor can provide valuable evidence when the user cannot expose the phone's camera in their pocket.

5. Camera



Cognitec
The face recognition company

Face Detection
Feature Points Collection
Locate key facial landmarks and evaluate skin texture
Translate collected information and image into coded data

FaceVACS-DBScan ID

FaceVACS-DBScan ID instantly compares facial images from various sources to large image databases, supporting the biometric verification and identification of persons.

ID issuance agencies can compare ID portraits to large image databases to prevent ID fraud or detect clerical errors. In addition, agencies can perform database de-duplication (1:n or n:n) to compare, clean and maintain ID databases with facial images.

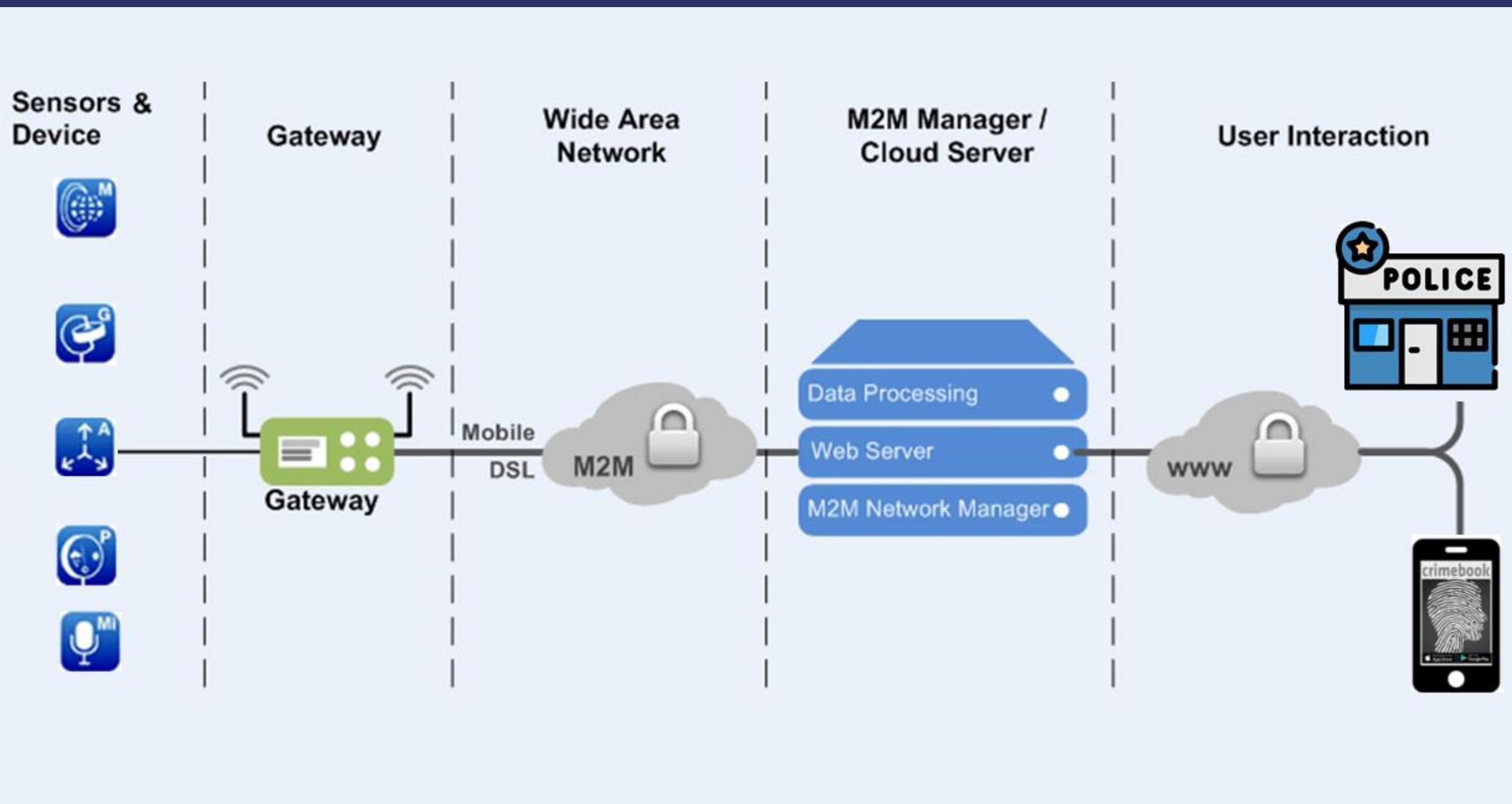
The Examiner toolset can enhance images for better comparison to the gallery, and provides a set of inspection tools that help identify the person by comparing images side by side or by measuring facial features. Users can develop watch lists of potential matches while recording a full audit trail for each step in the process.

Features

- cluster configurations for **multi-million person database processing**

+ Results from CRIMEBOOK's face-recognition scan..

Face-recognition software & database provided by CRIMEBOOK's partner, Cognitec.
Additional scan is measured against CRIMEBOOK's smartphone user dataset.



IN CONCLUSION:
**CRIMINALS WILL
ALWAYS BE
CAUGHT**

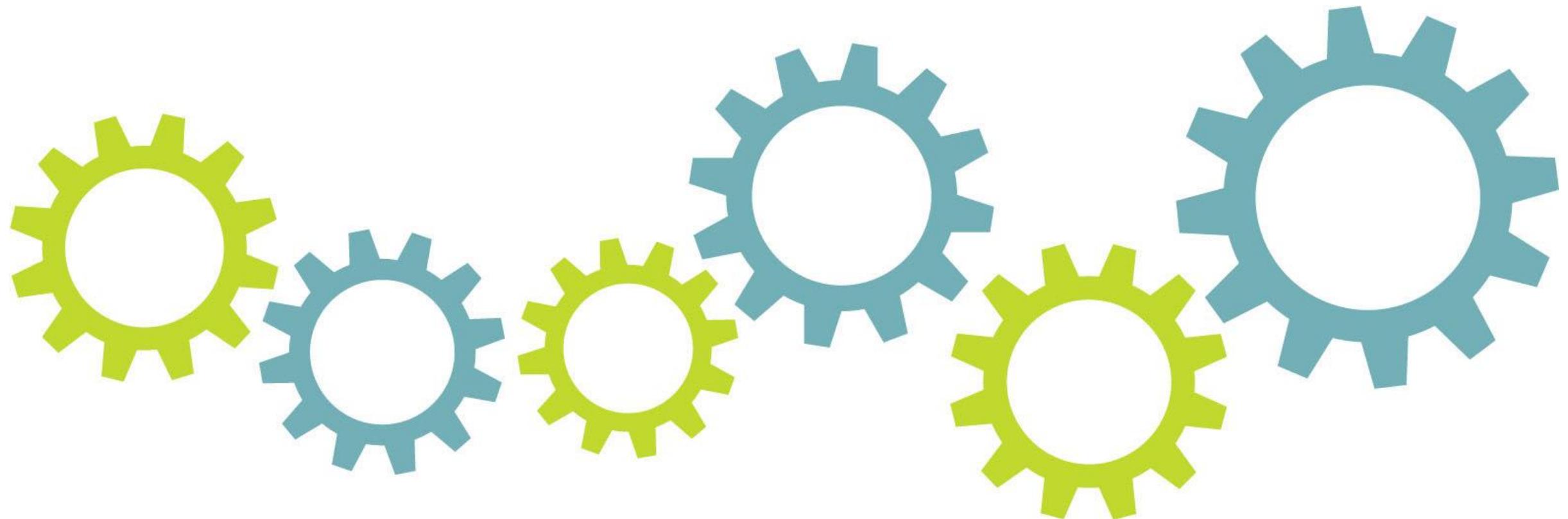
> AS LONG AS YOU HAVE



HIDING IN YOUR POCKET



WHY IT WORKS



*According to recent
studies,*

**the #1
deterrent of
crime is the
likelihood of
the criminal
being caught.**

**SEVERITY OF
PUNISHMENT DOES
NOT CHANGE
CRIMINAL
OFFENDING.**

Psychology Today

Find a Therapist ▾

Get Help ▾

Why Punishment Doesn't Reduce Crime

Evidence demonstrates why punishment does not change criminal offending

Posted Apr 25, 2018

" ... if we judge that some outcome is pretty unlikely, we ignore how great the costs or benefits are. This has direct application to the decision to engage in crime.

In committing crimes, individuals probably don't think too much about how bad it would be to be punished. **They have likely already concluded that they won't be caught!** That makes the severity of the punishment largely irrelevant to deterrence.

A person doesn't worry about how severe a punishment is if she is already convinced it won't be inflicted on her."

inspiration:

When 22-year-old Australian Eurydice Dixon was murdered earlier this year, police advised women to take responsibility and be more cautious walking home at night.

CRIMEBOOK aims to shift that responsibility away from victims.

Had CRIMEBOOK existed prior to Eurydice's death, her attacker would be the only one requiring to take responsibility that night – and stay out of prison.

