VIDEO TECHNOLOGY FOR THE DUTCH POLICE

RESPONSIBLE INNOVATION

SANDER FLIGHT

1

2

TODAY'S MENU

- DOUBLE DIAMOND
- BODYCAMS
  - THE THING
  - THE USER
  - THE CONTEXT
    - CULTURE
    - PRIVACY
- OTHER STUFF
  - CAMERAS OR SENSORS?
  - HUMAN VALUES

RESEARCH DESIGN

DPIA

ETHICS

3

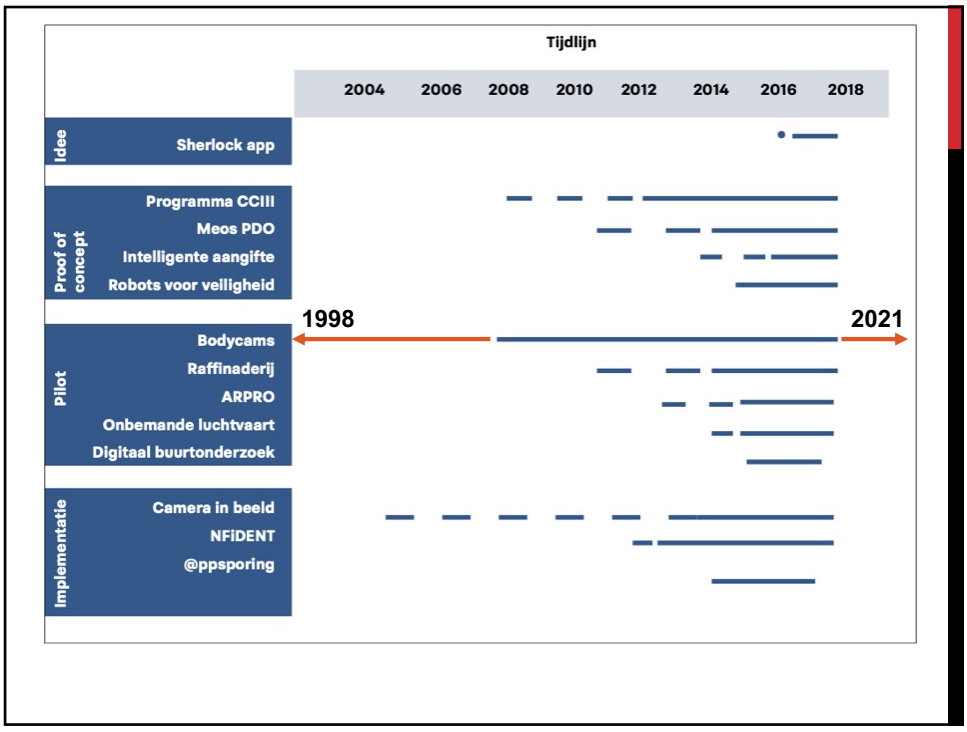
4

5

6

POLITIE

7


Tijdlijn
2004
2006
2008
2010
2012
2014
2016
2018
Idee
Sherlock app
Proof of concept
Programma CCIII
Meos PDO
Intelligente aangifte
Robots voor veiligheid
1998
2021
Pilot
Bodycams
Raffinaderij
ARPRO
Onbemande luchtvaart
Digitaal buurtonderzoek
Implementatie
Camera in beeld
NFIDENT
@ppsporing

8

Bij spoed: 112
Geen spoed: 0900-8844

POLITIE

Zoek...

Home | Aangifte of melding doen | Mijn buurt | Nieuws | Gezocht & Vermist | Onderwerpen | Contact

Home > Onderwerpen >

Politie heeft tweeduizend bodycams

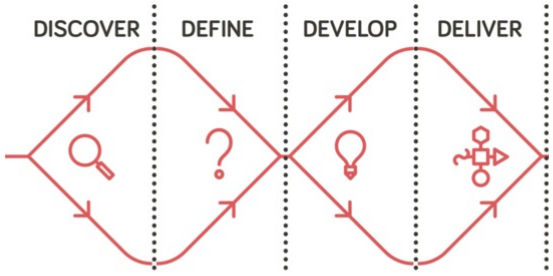
De politie heeft ongeveer tweeduizend bodycams gekocht. De verwachting is dat deze bodycams medio 2021 allemaal worden gebruikt.

Feedback

9

DOUBLE DIAMOND

DESIGN THE RIGHT THING	DESIGN THE THING RIGHT



10

DOES THE THING WORK?

11

find a job dating more International edition

theguardian

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americas asia australia africa middle east cities development europe

California police use of body cameras cuts violence and complaints

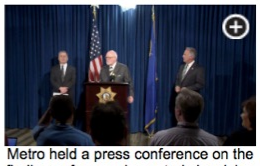
Body cameras worn by police in Rialto, California have resulted in better policing - and now other forces may follow suit

12

Study: Body-worn cameras reduced Metro's use-of force

Posted: Nov 27, 2017 9:12 PM CET
Updated: Nov 28, 2017 3:30 AM CET

Written by Brenda Yahm **CONNECT**



Metro held a press conference on the findings of a year-long study involving body cameras. (Jason Westerhaus/FOX5)

LAS VEGAS (FOX5) - A study conducted by CNA, a nonprofit research firm, the University of Nevada, Las Vegas, and the Las Vegas Metropolitan police department found that the implementation of body-worn cameras reduced the number of use of force incidents, found officers and community members more accountable and increased efficiency within the department.

During a press conference on Monday, James Coldren, of CNA, said the study was the largest and most successful study of body-worn cameras. He said it found that the use of body cameras of officers held police and civilians more accountable. The cameras reduced the number of use of force incidents by 30 percent.

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OCT 23, 2017 @ 01:00 PM 7,263 The Little Black Book of Billionaire Secrets

Why Don't Police Body Cameras Work Like We Expected?

Washington D.C. Police Officers model body cameras during a press conference at City [+]

Police-worn body cameras do not reduce the instances of police use of force. Nor do they reduce citizen complaints about excessive force. These are the unexpected findings from the largest study to date on the subject, which casts doubt on the generally accepted wisdom regarding body

14

Institut für Polizei- und Kriminalwissenschaft ■ Fachhochschule für öffentliche Verwaltung NRW

BODY CAM

Die deeskalierende Wirkung von Bodycams im Wachdienst der Polizei Nordrhein-Westfalen

15

Geschädigte PVB in Schichten mit und ohne Bodycam

		Keine gesch. PVB	Gesch. PVB	Gesamt
Schichten mit BC	N	2.182	285	2.467
		88,4	11,6	100
Schichten ohne BC	N	2.161	232	2.393
		90,3	9,7	100
Gesamt	N	4.343	517	4.860
		89,4	10,6	100

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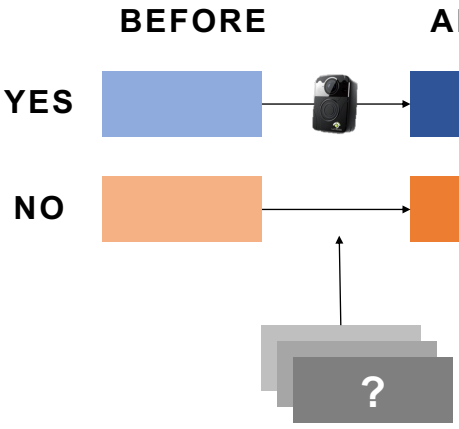
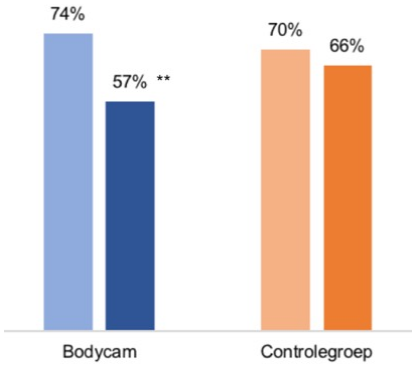
HOW CAN YOU "PROVE" SOMETHING WORKS?

17



18

SERIOUS THREATS



19

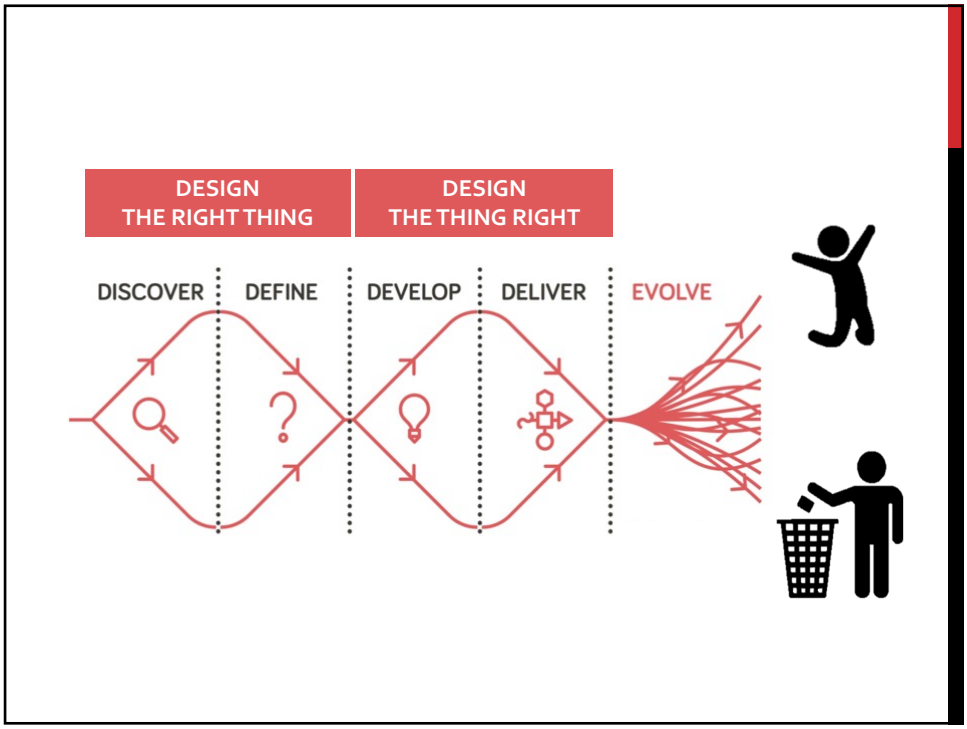
RESEARCH

“IT DEPENDS”

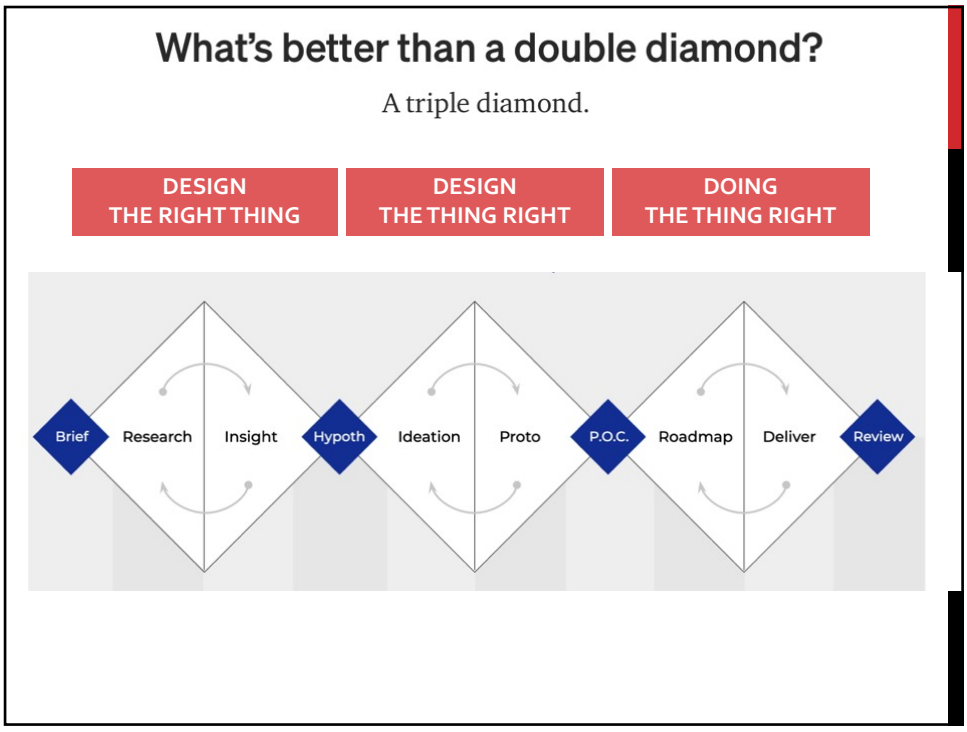
“NO, THEY DON’T”

“YES, THEY WORK”

20


DESIGN
THE RIGHT THING
DESIGN
THE THING RIGHT
DISCOVER
DEFINE
DEVELOP
DELIVER
EVOLVE

21


What's better than a double diamond?
A triple diamond.
DESIGN
THE RIGHT THING
DESIGN
THE THING RIGHT
DOING
THE THING RIGHT
Brief
Research
Insight
Hypoth
Ideation
Proto
P.O.C.
Roadmap
Deliver
Review

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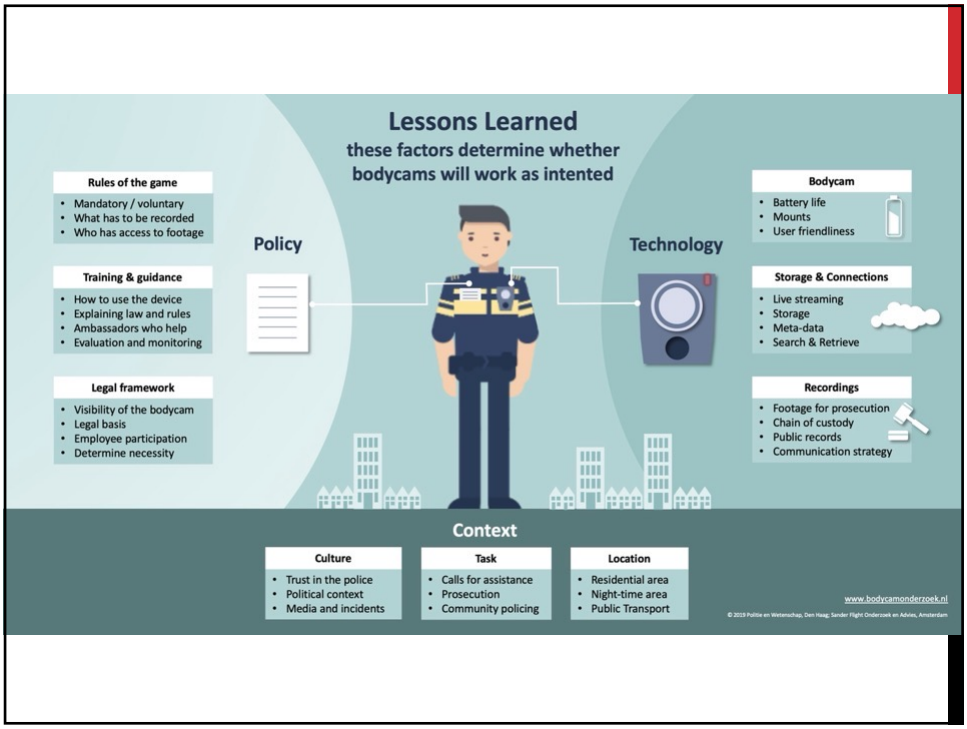

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THREE LEVELS

Technology

Guidelines

Context

DESIGN

USER POLICIES

SOCIAL & LEGAL

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‘DOES THE THING WORK?’ IS THE WRONG QUESTION

HOW DO THEY WORK?

WHEN DO THEY WORK?

WHERE DO THEY WORK?

=> OPEN UP THE BLACK BOX

25

WHEN DO THEY WORK? THREE MECHANISMS

BEFORE: PREVENTION

DURING: LIVE VIEW

AFTER: EVIDENCE

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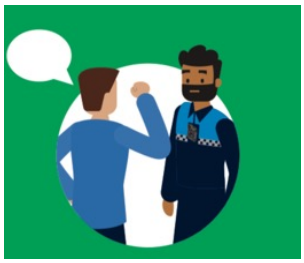

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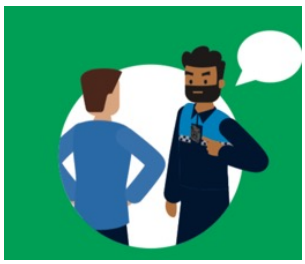

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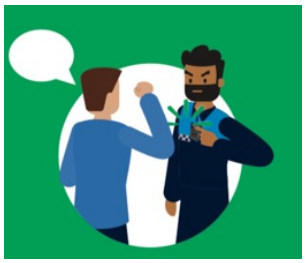

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A CLOSER LOOK AT THE FIRST MECHANISM: PREVENT

WHAT DESIGN CAN DO

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VIEVU

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RS2-X2
FULL 1080P HD
A2201
1280 x 720
30 FPS
2014/05/12
11:34 AM
000:05:13
reveal

34

35

36

37

38

39

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VIDEO
& AUDIO
AXON

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BWV CAMERA PR6 HD WDR
02
VIDEO
PINNACLE
POLIZE

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POLIZEI
VIDEO
AUDIO
POLIZEI
VIDEO
AUDIO

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POLIZEI
Videoüberwachung
REVEAL

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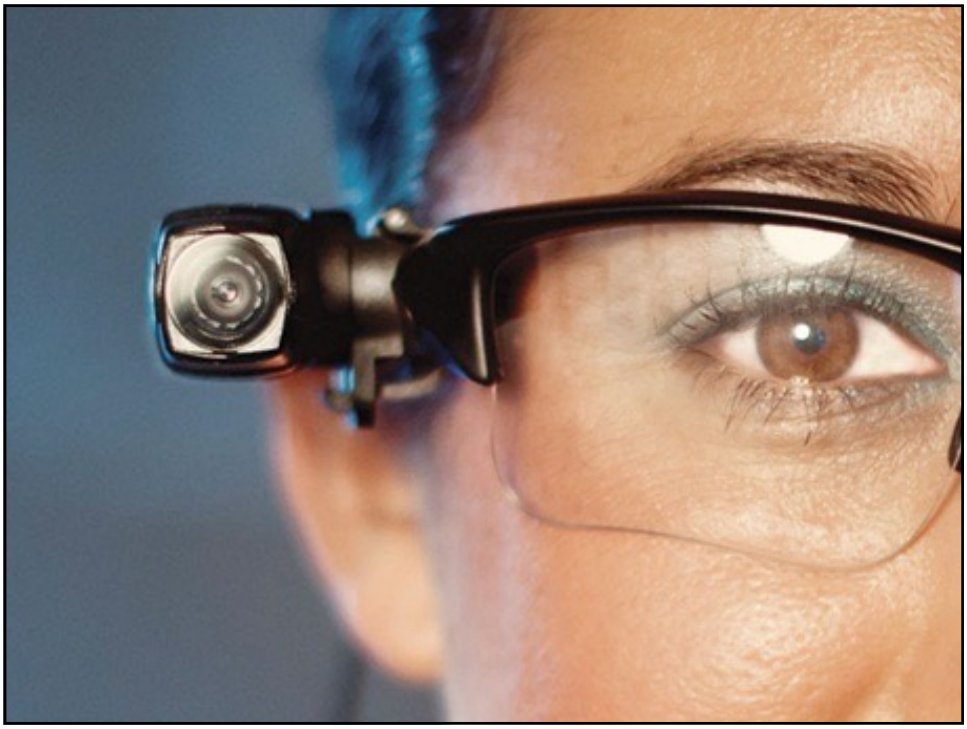

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THREE LEVELS

DESIGN

USER POLICIES

SOCIAL & LEGAL

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USER GUIDELINES

WHO USES THE BODYCAM?

WHAT IS RECORDED?

WHO HAS ACCESS TO THE FOOTAGE?

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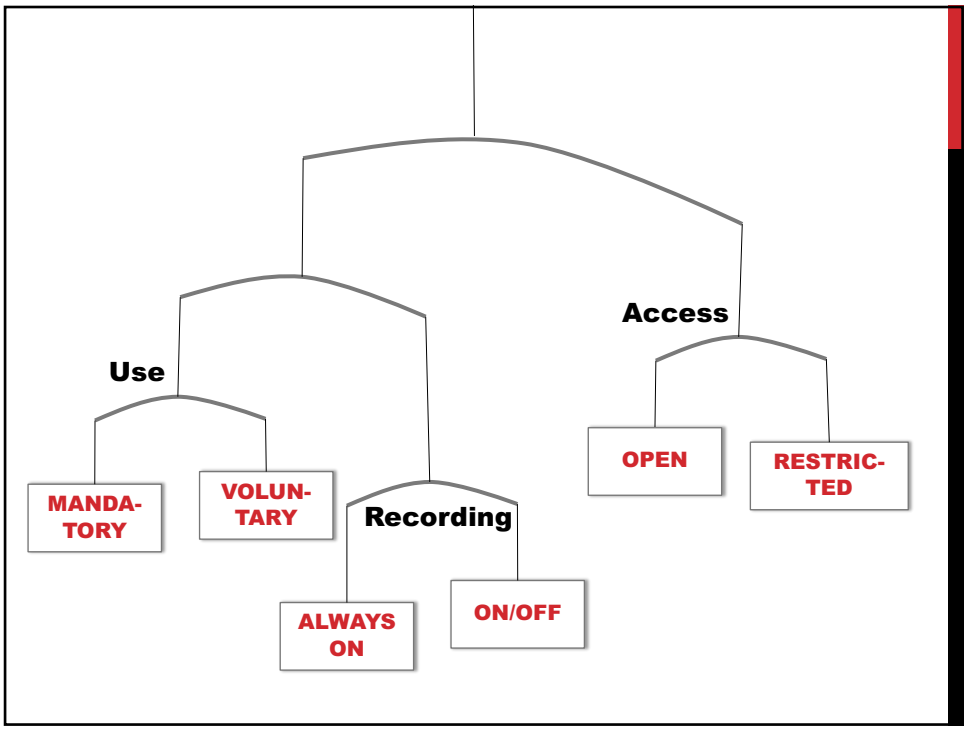

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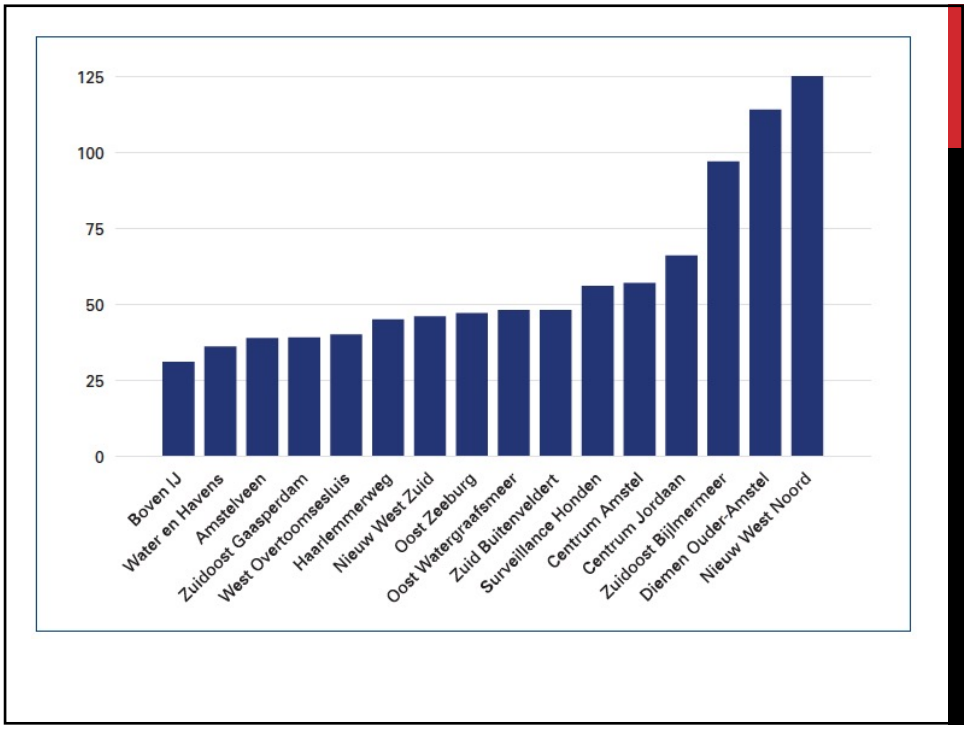
125
100
75
50
25
0
Boven IJ
Water en Havens
Amstelveen
Zuidoost Gaasperdam
West Overtoomsesluis
Haarlemmerweg
Nieuw West Zuid
Oost Zeeburg
Oost Watergraafsmeer
Zuid Buitenveldert
Surveillance Honden
Centrum Amstel
Centrum Jordaan
Zuidoost Bijlmermeer
Diemen Ouder-Amstel
Nieuw West Noord

55

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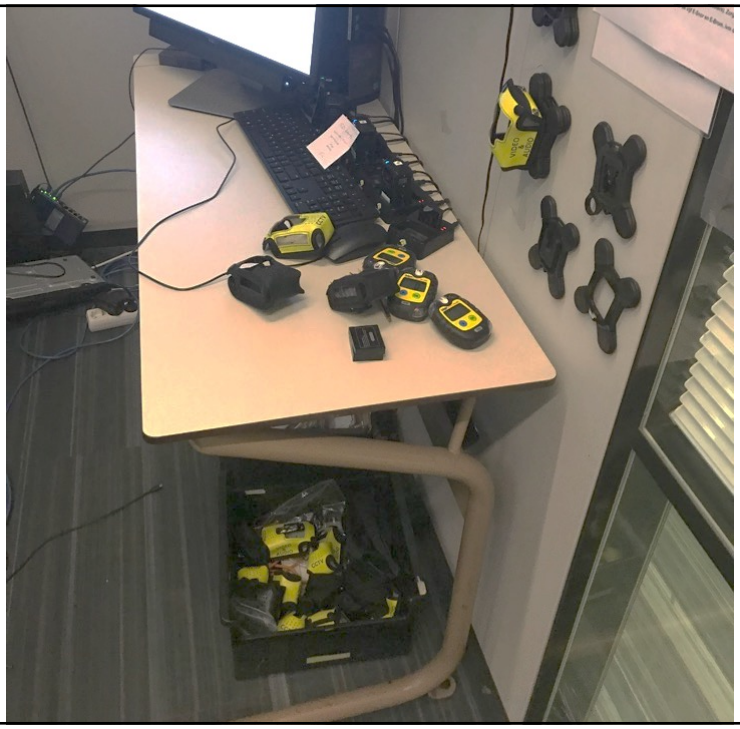

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THREE LEVELS

DESIGN

USER POLICIES

SOCIAL & LEGAL

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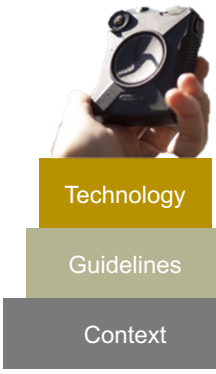
THREE LEVELS



DESIGN

USER POLICIES

SOCIAL & LEGAL

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UNITED STATES

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"The Peacemaker"
RICHLAND COUNTY DEPUTY SHERIFF

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Film The Police
Capture The Truth

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THE UNITED STATES DEPARTMENT of JUSTICE

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JUSTICE NEWS

FOR IMMEDIATE RELEASE — Monday, September 21, 2015

Justice Department Awards over $23 Million in Funding for Body Worn Camera Pilot Program to Support Law Enforcement Agencies in 32 States

As part of President Obama's commitment to building trust and transparency between law enforcement and the communities they serve, Attorney General Loretta E. Lynch today announced that the Justice Department has awarded grants totaling more than $23.2 million to 73 local and tribal agencies in 32 states to expand the use of body-worn cameras and explore their impact. The body-worn camera pilot program announced in May 2015 includes $19.3 million to purchase body-worn cameras, $2 million for training and technical assistance and $1.9 million to examine the impact of their use. The grants, awarded by the department's Office of Justice Programs (OJP), build on President Obama's proposal to purchase 50,000 body-worn cameras for law enforcement agencies within three years.

"This vital pilot program is designed to assist local jurisdictions that are interested in exploring and expanding the use of body-worn cameras in order to enhance transparency, accountability and credibility," said Attorney General Lynch. "The impact of body-worn cameras touches on a range of outcomes that build upon efforts to mend the fabric of trust, respect and common purpose that all communities need to thrive."

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RELEASE
ALL
THE
TAPES

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AGO
M CT
AKING TONIGHT
RELEASE OF VIDEO SHOWING CHICAGO PO
SHOOTING OF BLACK TEEN SPARKS PROT

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THE NETHERLANDS

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rtlnieuws

Nieuws Economie Sport Entertainment Tech Lifestyle EditieNL Uitzending

Toename in uitgaansleven

Geweld tegen politie stijgt: 29 gevallen per dag

02 april 2019 03:19
Aangepast: 02 april 2019 08:14

Het aantal gevallen van fysiek en verbaal geweld tegen de politie in Nederland is in 2018 met 11 procent toegenomen ten opzichte van een jaar eerder. Uit cijfers van de politie blijkt dat er bijna 29 gevallen van geweld per dag zijn. In het uitgaansleven nam het aantal met 40 procent toe.

70

AD
Nieuws
Regio
Sport
Show
Video
Koken & Eten
POLITIE
Foto ter illustratie. © Robin Utrecht
‘Ontzag voor de politie? Ze spugen je in je gezicht’
Hoe groot de maatschappelijke verontwaardiging over het geweld van afgelopen weekeinde tegen Rotterdamse agenten ook is, voor de dienders is het niks nieuws. Sommigen worden er zo vaak mee geconfronteerd dat ze niet eens meer de moeite nemen er melding van te maken. „Je krijgt een middelvinger of wordt verrot gescholden alsof het de normaalste zaak van de wereld is.”
Sander Sonnemans 02-09-19, 20:18 Laatste update: 21:52

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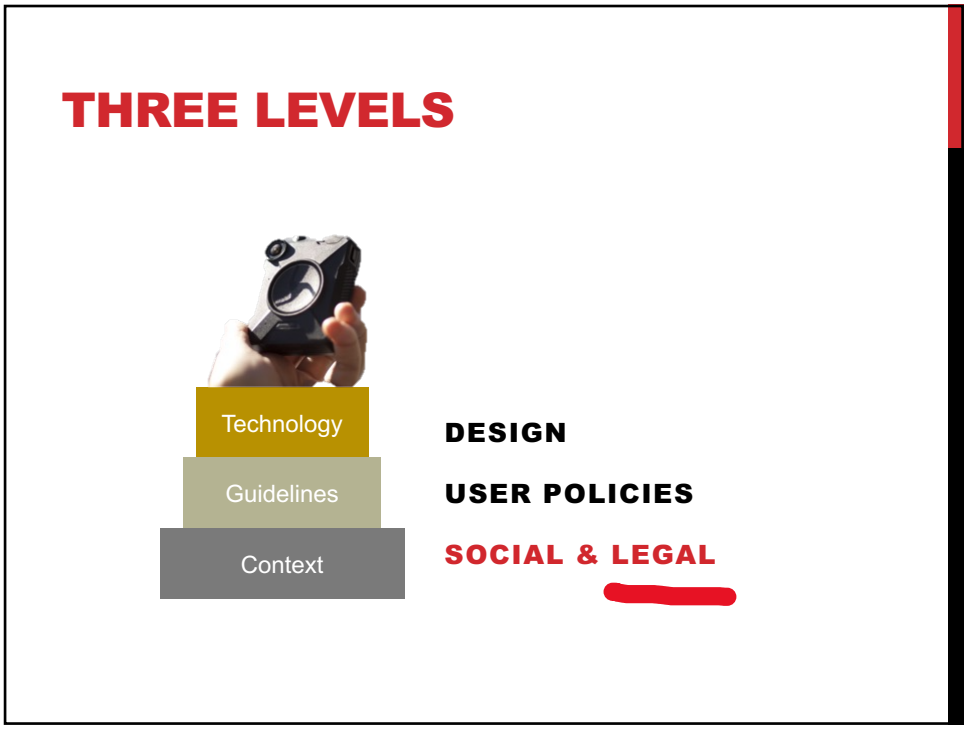
THREE LEVELS
Technology
Guidelines
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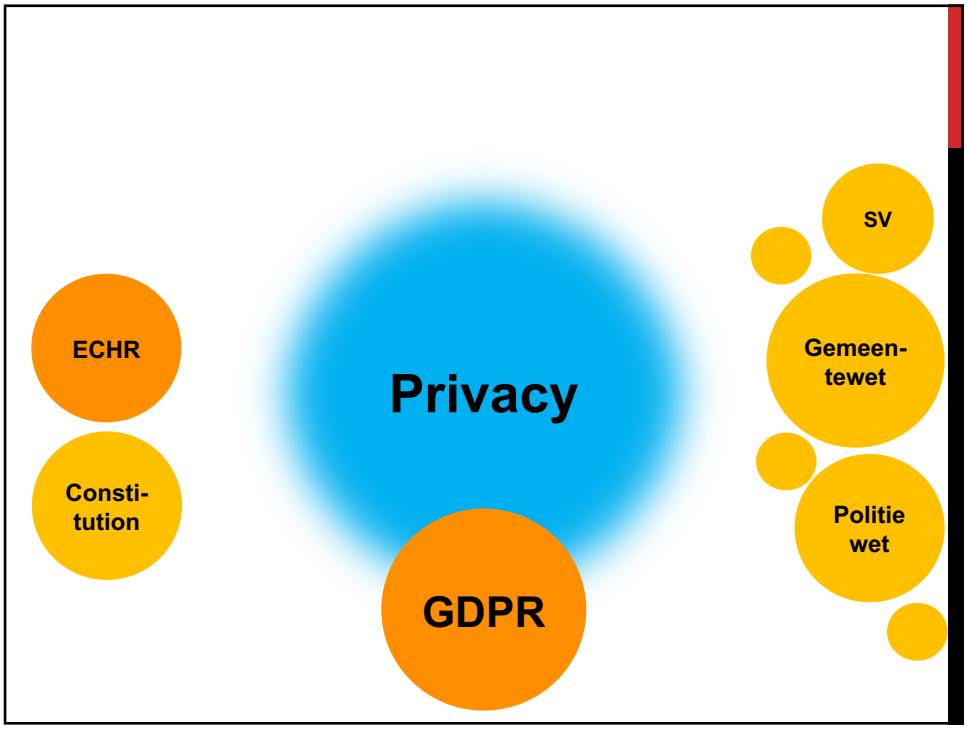
ECHR
Consti-
tution
Privacy
GDPR
SV
Gemeen-
tewet
Politie
wet

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NECESSARY
EXCEPTION

74

OR NOT?

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DATA PROTECTION IMPACT ASSESSMENT

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GDPR

4.5.2016 EN Official Journal of the European Union L 119/1

I

(Legislative acts)

REGULATIONS

REGULATION (EU) 2016/679 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 27 April 2016

on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

77

Article 35

Data protection impact assessment

1. Where a type of processing in particular using new technologies, and taking into account the nature, scope, context and purposes of the processing, is likely to result in a high risk to the rights and freedoms of natural persons, the controller shall, prior to the processing, carry out an assessment of the impact of the envisaged processing operations on the protection of personal data. A single assessment may address a set of similar processing operations that present similar high risks.

2. The controller shall seek the advice of the data protection officer, where designated, when carrying out a data protection impact assessment.

3. A data protection impact assessment referred to in paragraph 1 shall in particular be required in the case of:

(a) a systematic and extensive evaluation of personal aspects relating to natural persons which is based on automated processing, including profiling, and on which decisions are based that produce legal effects concerning the natural person or similarly significantly affect the natural person;

(b) processing on a large scale of special categories of data referred to in Article 9(1), or of personal data relating to criminal convictions and offences referred to in Article 10; or

(c) a systematic monitoring of a publicly accessible area on a large scale.

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7. The assessment shall contain at least:

(a) a systematic description of the envisaged processing operations and the purposes of the processing, including, where applicable, the legitimate interest pursued by the controller;

(b) an assessment of the necessity and proportionality of the processing operations in relation to the purposes;

(c) an assessment of the risks to the rights and freedoms of data subjects referred to in paragraph 1; and

(d) the measures envisaged to address the risks, including safeguards, security measures and mechanisms to ensure the protection of personal data and to demonstrate compliance with this Regulation taking into account the rights and legitimate interests of data subjects and other persons concerned.

8. Compliance with approved codes of conduct referred to in Article 40 by the relevant controllers or processors shall be taken into due account in assessing the impact of the processing operations performed by such controllers or processors, in particular for the purposes of a data protection impact assessment.

9. Where appropriate, the controller shall seek the views of data subjects or their representatives on the intended processing, without prejudice to the protection of commercial or public interests or the security of processing operations.

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HOW CAN WE BEST PROTECT PRIVACY?

RISKS	MEASURES
...	...
...	...
...	...

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BODYCAMS

RISKS

1. **NOT TRANSPARENT**
2. **UNAUTHORIZED ACCESS**
3. **FUNCTION CREEP**
4. **CHILLING EFFECT**
5. **STORAGE OUTSIDE E.U.**

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BODYCAMS

MEASURES:

1. **TECHNOLOGICAL**

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Technische maatregelen

Beveiliging bodycam

De T2+ bodycams van Zepcam slaan de bodycamopnames versleuteld op conform de geavanceerde standaard AES-256 bit CBC. Bij verlies of diefstal van de bodycam kunnen de opnames dus niet door onbevoegden worden bekeken, dankzij deze encryptie. De opslag van de bodycam vindt plaats op een niet verwijderbare hardwarecomponent. Ongeautoriseerde toegang via USB is ook onmogelijk: elk apparaat is vergrendeld met een unieke PIN-code op basis van een hashwaarde van het serienummer en mac-adres. Toegang tot de opnames is uitsluitend mogelijk als de bodycam in het dockingstation wordt geplaatst, zodat de opname geupload wordt naar de opslag (zie hieronder).

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Beveiliging dockingstation

Het doel van het dockingstation is het opladen van de batterij van de bodycam en het veilig overbrengen van opnames naar de opslag. Bij elke installatie versleutelt het dockingstation zijn ingebouwde SSD-opslag met behulp van een AES-CBC 256 bit met een unieke identificatie van 2048 bytes. Een SHA256-checksum wordt berekend over elk bestand dat van de bodycam naar de opslag van het dockingstation wordt overgebracht en naar de laptop wordt overgebracht. De interface van het dockingstation is beveiligd met een wachtwoord.

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Beveiliging opslag

De opnames worden goed beveiligd opgeslagen op een laptop. Toegang tot die laptop is uitsluitend mogelijk voor de kleine groep geautoriseerde gebruikers. De laptop zelf staat in een beperkt toegankelijke ruimte waar alleen geautoriseerde personen met een toegangspas toegang hebben: gebruik van die toegangspas wordt gelogd. Om gegevensverlies te voorkomen wordt een *back-up* gemaakt van de laptop op een met wachtwoord beveiligde externe *hard-disk*. Het zelf opslaan van de gegevens betekent dat er geen verwerkers zijn behalve de gemeente Eindhoven zelf. Ook betekent het dat er geen risico is op opslag van de persoonsgegevens buiten de EER.

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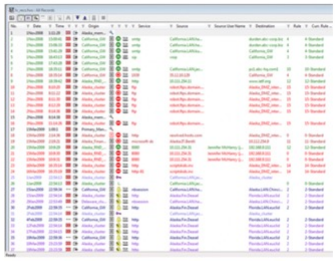
Logbestanden



Alle handelingen met opnames worden automatisch gelogd door het systeem dat de opnames beheert: door welke persoon en op welke datum en tijd is een opname bekeken, bewerkt, verstrekt of verwijderd? Het feit dat alle handelingen met de opnames op deze manier wordt gelogd zal ook duidelijk gecommuniceerd worden richting handhavers en burgers. Tevens komt er een mechanisme van controles, toezicht en audits om te zorgen dat gemaakte afspraken worden nagekomen.

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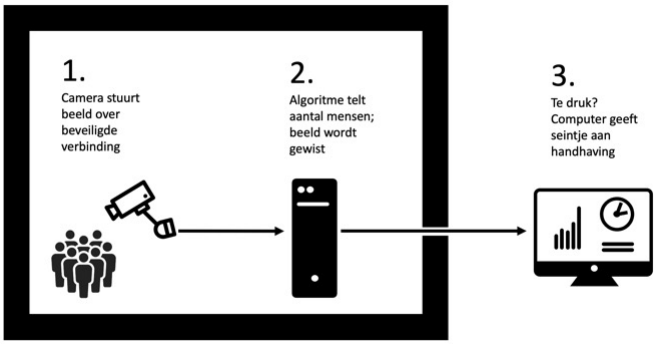
USE TECHNOLOGY TO PROTECT PRIVACY

PRIVACY BY DESIGN



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BODYCAMS

MEASURES:

1. **TECHNOLOGICAL**
2. **ORGANIZATIONAL**

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BODYCAMS

1. INFORM THE PUBLIC
2. RIGHTS FOR DATA SUBJECT
   (ACCESS, RECTIFY, ERASE, OBJECT)
3. USER TRAINING
4. AUTHORIZED ACCESS
5. REGULAR CHECKS
6. OVERSIGHT & AUDITS

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TODAY'S MENU

- DOUBLE DIAMOND
- BODYCAMS
  - THE THING
  - THE USER
  - THE CONTEXT
    - CULTURE
    - PRIVACY
- OTHER STUFF
  - CAMERAS OR SENSORS?
  - HUMAN VALUES

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CAMERAS OR SENSORS?

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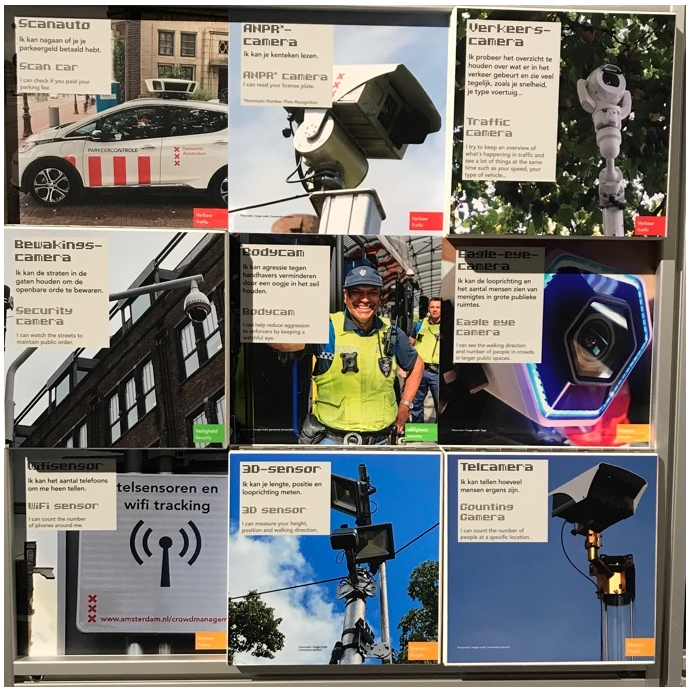

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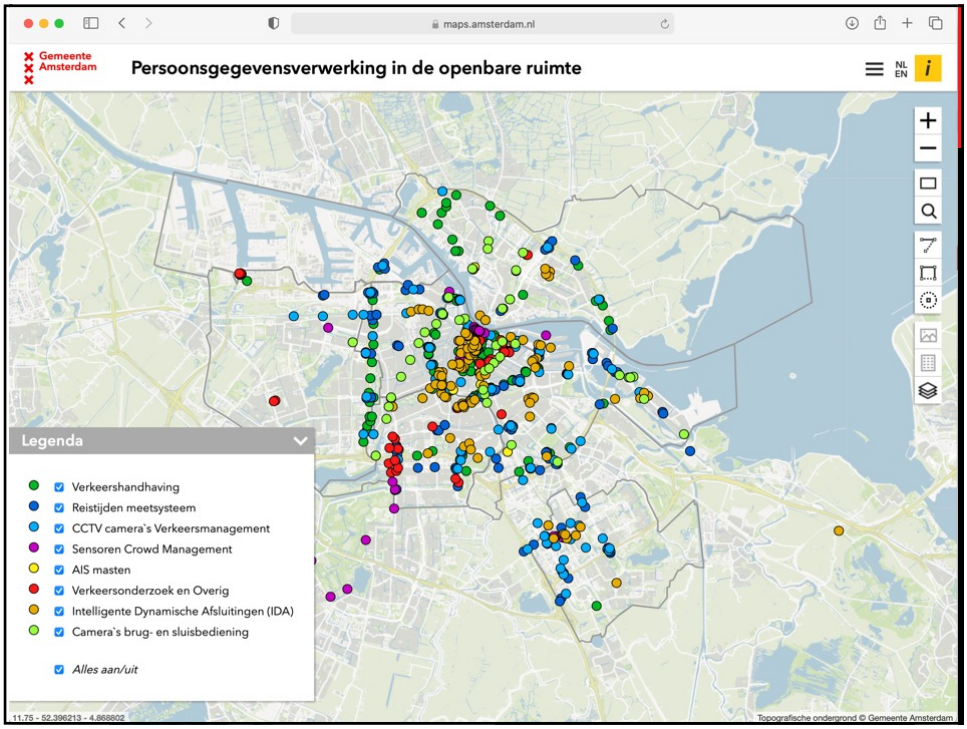

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LEGAL VALUES OR HUMAN VALUES?

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95

Unjustified parking fines by scan cars – Dailyauto.nl

woodymcconaughey · May 29, 2021

With the arrival of the scan car, one of the newer traffic weapons used by the police, the number of (unjustified) parking fines has risen significantly. These police vehicles, equipped with 'smart' cameras, sometimes automatically issue unjustified fines. NOS reports this on the basis of approved objections that they have requested from four major cities.

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HUMANIZING THE SCAN CAR

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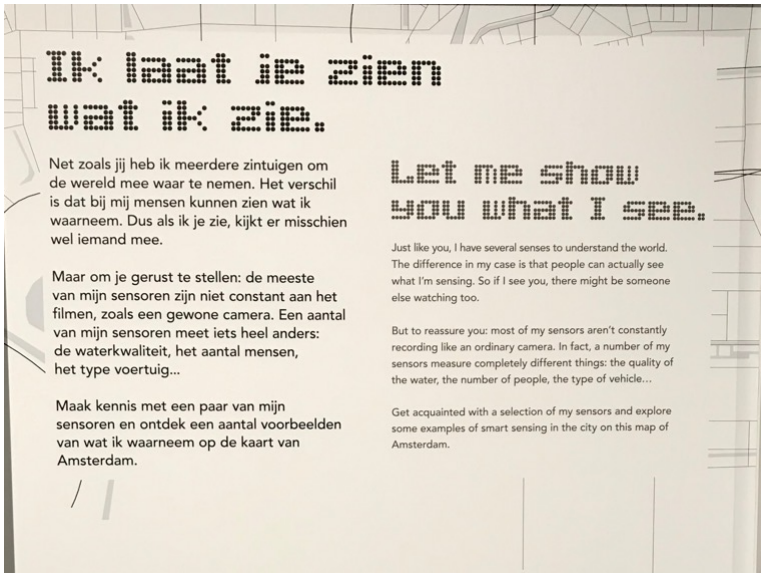
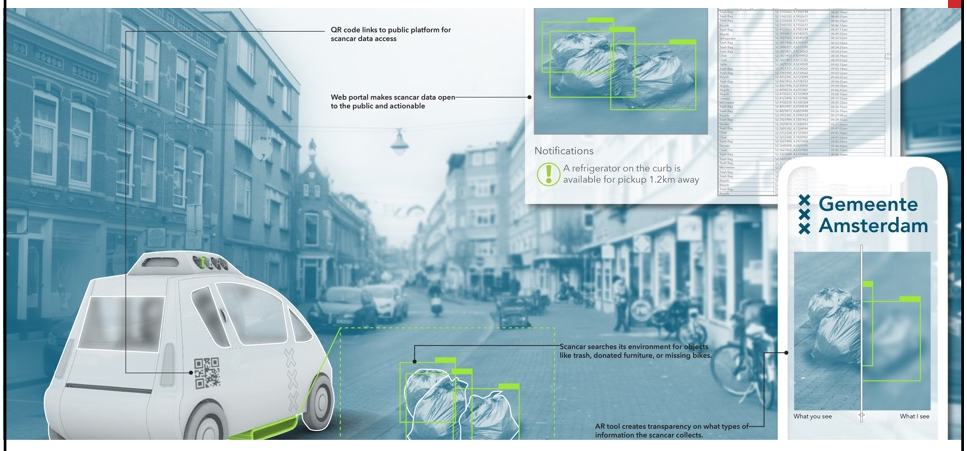


99

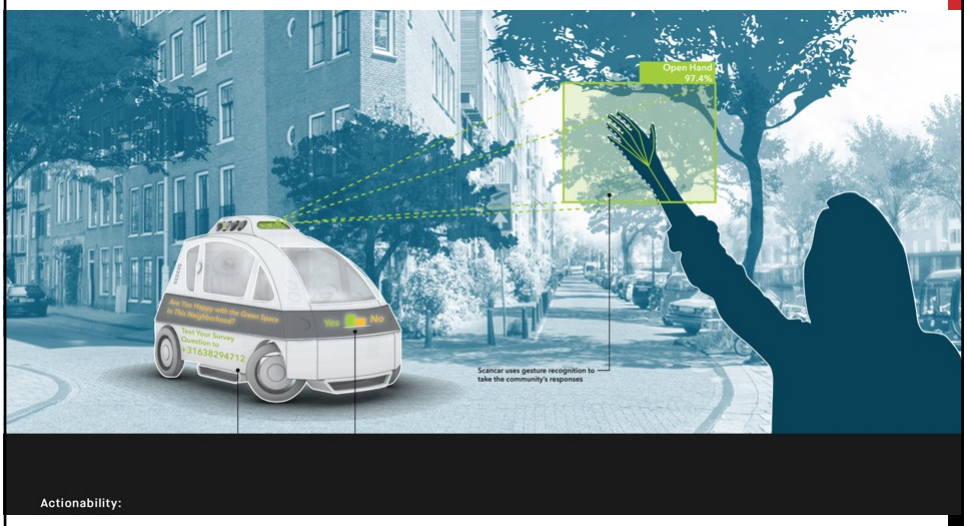


Legibility

100

Relatability

101



Actionability:

102

103

CONTACT ME

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