

Using virtual reality for police training on hate crimes and victim support

Prof. Dr. Eva Groß, Prof. Dr. Ulrike Zähringer & Dr. Anabel Taefi

Pilot project on the use of VR technology in Hamburg to professionalize/sensitize police officers to the experiences of victims of bias-motivated crimes

Structure

Introduction

Bias crime

Research objective

Methods

Results

Summary

Literature



Introduction

- Immersive technologies offer new opportunities for learning
- Virtual reality (VR) = digital image of reality created on a computer
- Trainees can immerse themselves in virtual and fictional worlds
- Technologies offer great potential for education and training in various fields
- Professionalization in dealing with those affected is important for trust in the police and the state
- VR pilot project at Hamburg Police University focused on bias crime

Bias crime

- Biased actions are a problem for diversity and inclusion in many countries
- Hate crime = crimes are directed against people because of their social group affiliation and are based on characteristics such as skin color, religious beliefs or sexual orientation (Groß & Häfele, 2021)
- Group-focused enmity (GMF) = attitudes;
 Bias crime (BC) = acts
- Concept of assuming inequality of different population groups is the same for GMF and BC (Heitmeyer, 2002; Zick, Küpper & Heitmeyer, 2009)
- In bias crime, victims are **not attacked for personal actions/statements**, but because of **ascribed group membership** (Groß & Häfele, 2021)

Bias crime

- Criminal offense sends an intimidating message to the entire group (Groß & Häfele, 2021)
- Since 2001, such acts are officially recorded as "hate crime" in Germany (Lang, 2014)
- Registered case numbers rose significantly in Germany between 2014 and 2018

(Riaz et al., 2021)

• 2023: 17.007 offenses → Increase 2022 to 2023: 48% 2021 to 2022: 10% (BMI & BKA, 2023; 2024)

• Unreported cases: 50%-90% (z.B. Church & Coester, 2021)

Offenses against persons based on their... ("hate crime"):

- Political attitudes/engagement
- Nationality
- Ethnic affiliation
- Skin colour
- Religious affiliation
- Belief/social status
- Physical/psychological impairment
- Sexual identity
- Sexual orientation
- Physical appearance

Bias crime

- Recording hate crime in Germany: Continuous adjustments (Groß & Häfele, 2021)
- Indications of quality gaps in the perception and recording of bias crime in police practice
- Underestimation of BC: Counseling centers register approx. 1/3 more acts of violence than the police; especially homicides caused by right-wing and racist violence (Lang, 2014; Feldmann et al., 2018)
- Causes for this discrepancy: Among other things, non-reporting of BC, as victims often lack trust in the police (Groß, Dreißigacker & Riesner, 2019)
- Reasons for low trust: Lack of empathy, lack of understanding, insufficient training
 - → Solution: Professionalization

Research objective

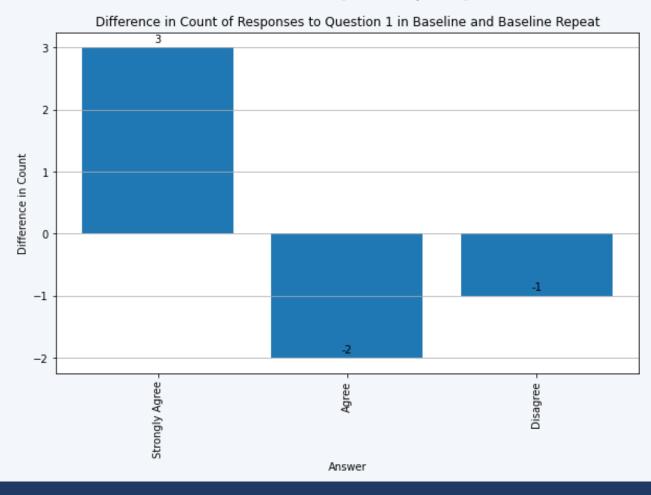
- Familiarize police officers with bias crime (sensitively & professionally)
- Virtual reality-based training "Affinity": Developed by "Mother Mountain Productions" together with Greater Manchester Police based on the experiences of those affected
- With the help of immersive virtual reality: VR glasses can bring real people's stories to life. Real case scenarios were re-enacted by actors and recorded in 3D technology.
- Training: Scenario from the victim's perspective, including encounters with officers; effects of posture & wording
- Thus tangible: Narratives and stereotypes, police officers should be sensitized in this way

Methodes

- Objective: Create feelings of connection
 and empathy with the victims, increase trust in the police, higher reporting rate
- Immersive democracy project: August 21st & 22nd 2023; VR affinity training with future police officers
- N = 25; Police students in their 3rd semester
- Three different English-language films (topics of the attacks: anti-Semitic, trans-hostile, against people with visual impairments)
- Procedure:
 - 1) Scenario
 - 2) Questioning of the victim by the police & mocked original interviews
 - 3) Questions on empathy immediately before and after the training

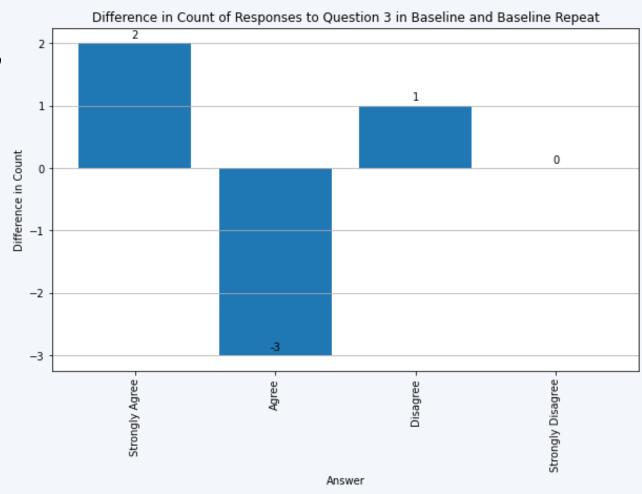
- 21/25 students answered all questions before and after the application; therefore not representative
- No control group & lack of randomization → weak quasiexperimental design
- Strong agreement that hate crime should be a priority in police work
 - → Greater sensitivity after the VR application

"Hate crime should be a priority in police work."



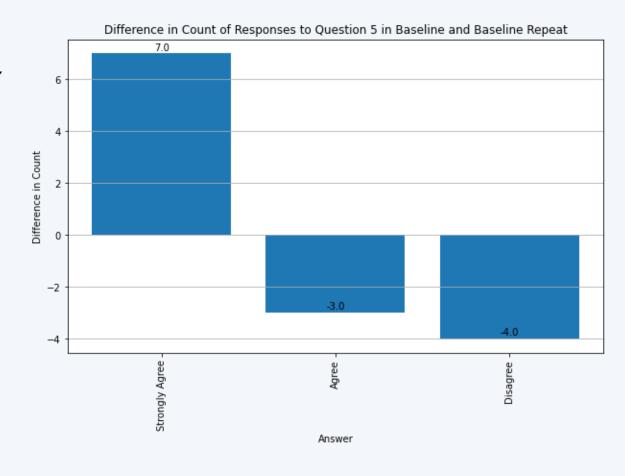
"Victims of hate crime should be more resilient and able to deal with the situation without reporting it to the police."

- Statement lost approval after the VR application, rejection increased
 - → Indicates greater sensitivity



"I believe that my way of interacting with a victim of a prejudiced act can affect that person's ability to deal with what has happened."

- This statement also gained approval after the VR training
- Increased sensitivity and increased reflection on one's own behavior as a police officer after the application

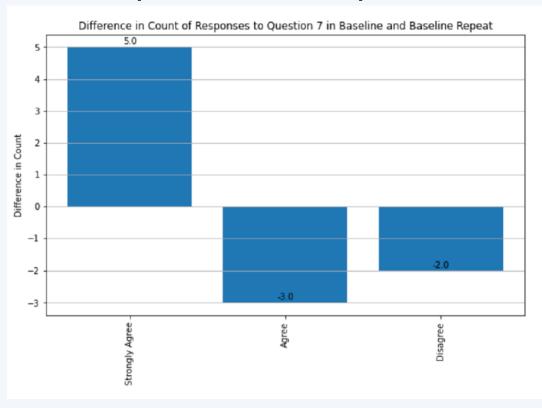


- Similar direction of difference in the answers before and after the application can also be seen here
- Similar to the ones of the Manchester police officers, also with a view to long-term effects
- Opinions on the Affinity application: "Understand more how the people feel."

"An experience like being there yourself."

"Good way to get people's point of view, which is important when they are in contact with the police."

"The way I interact with a victim has the potential to improve the victim's experience."



Summary

- Hate crime: Implicit message of devaluation, exclusion & inequality
- Victims of hate crime often do not turn to the police; they have a particularly low level of trust in the police
- It must be in the interest of the police to increase this trust so that vulnerable victims turn to the police and the number of unreported cases is thus reduced
- The virtual reality-based training "Affinity" was developed to put police officers
 in the perspective of victims of bias crime
- Data from England shows high and long-term effectiveness of such training in terms of attitude and behavior change

Summary

- Similar results in Hamburg pilot project:
 - After the application: Strong approval for the prioritization of hate crime, the required resilience decreased
 - Participants also became aware of their own responsibility in dealing with victims → Positive effect of the training!
- But: Real victimization can never really be replicated!
- Increased sensitivity: Increased trust in the police and willingness to report
- In terms of language, clothing and environment, the scenarios should be adapted for Germany to make the experience as realistic as possible

Thank you!

eva.gross@poladium.de; ulrike.zaehringer@poladium.de; anabel.taefi@poladium.de

Literature

- Church, D. & Coester, M. (2021). Opfer von Vorurteilskriminalität. Thematische Auswertung des Deutschen Viktimisierungssurvey 2017. Forschungsbericht. Kriminalistisches Institut, Kriminalistisch-kriminologischen Forschung, BKA.
- Feldmann, D., Kohlstruck, M., Laube, M., Schultz, G. & Tausendteufel, H. (2018). Klassifikation politisch rechter Tötungsdelikte Berlin 1990 bis 2008. Berlin: Universitätsverlag der TU Berlin.
- Groß, E. & Häfele. J. (2021). Vorurteilskriminalität. Konzept, Befunde und Probleme der polizeilichen Erfassung. Forum Politische Bildung und Polizei, (Heft 1/2021), 20-30.
- Groß, E., Dreißigacker, A. & Riesner, L. (2019). Viktimisierung durch Hasskriminalität. Eine erste repräsentative Erfassung des Dunkelfeldes in Niedersachsen und in Schleswig-Holstein. Wissen schafft Demokratie Open Access Schriftenreihe des IDZ 4/2019, 140-159.
- Heitmeyer, W. (2002). Gruppenbezogene Menschenfeindlichkeit. Die theoretische Konzeption und erste empirische Ergebnisse. Deutsche Zustände. Folge 1. Frankfurt/M.
- Lang, K. (2014). Vorurteilskriminalität. Eine Untersuchung vorurteilsmotivierter Taten im Strafrecht und deren Verfolgung durch die Polizei, Staatsanwaltschaft und Gerichte. Baden-Baden: Nomos-Verlag.
- MMP (Mother Mountain Productions CIV) & GMP (Greater Manchester Police) (2023). Affinity. VR Hate Crime Training Program 2020 2023. Impact Review (Presentation by MMP at the workshop in Hamburg 2023).
- Riaz, S., Bischof, D. & Wagner, M. (2021). Out-group Threat and Xenophobic Hate Crimes: Evidence of Local Intergroup Conflict Dynamics between Immigrants and Natives, OSF Preprints.
- Zick, A., Küpper, B. & Heitmeyer, W. (2009). Prejudices and group-focused enmity a socio-functional perspective. In A. Pelinka, A., K. Bischof, K., & K. Stögner, K. (Hrsg.), Handbook of Prejudice. Amherst, N.Y: Cambria Press; 2009: 273-303.