

PRoTECT online seminar

Session 2

Case studies: The protection of public spaces at practitioner level

Super-Recognizers in Policing –

Berlin Model for Super-Recognizer Identification

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Super-Recognizers in Policing –

Berlin Model for Super-Recognizer Identification (BeMo SR-id)

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Ramon M & Rjosk S (2021). Super-Recognizers in Policing – best practices established during development of the Berlin Model for SR-identification (BeMo SR-id).

In: Best Practice Handbook of the EU project SafeCi - Safer Space for Safer Cities







Content

- I. Introduction of the problem
- II. The proposed solution
- **III.** Results
- **IV.** Challenges and lessons learned









Background

Increasing interest in SR deployment in policing



Source: ghettyimages

Growing demand for image/video processing

Issues concerning automatic solutions









The problem

Increasing interest in SR deployment in policing

We have a wailable ⇔ many open questions

- What is a SR? •
- *How* should SRs be identified? •
- Who should identify SRs? •
- Why deploy SRs? Expected outcome? ٠



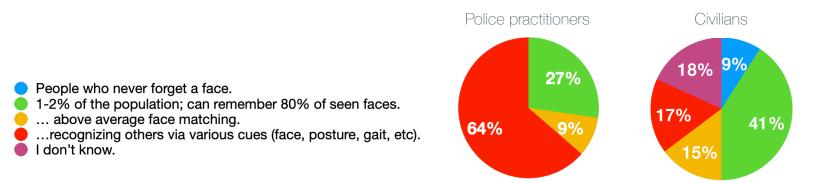






"What is a Super-Recognizer (SR)?"*

Poll conducted prior to the 2nd workshop of the EU project SafeOi – Safer Space for Safer Oities



Varied definitions among practitioners, researchers & civilians



The problem











"Developmental prosopagnosia "... any [lab test] in the (DP) is commonly referred to as superrecognizer literature; e.g.

White et al (2017), QJEP

[...] did not differ from normative scores on the GFMT"

blindness'

How should SRs be identified?

Ramon et al (2019), BJP



Lab vs. real world ?

Currently no consensus on diagnostic criteria & tests

'face

Questionable research practices (e.g. insufficient sensitivity & relevance for police tasks)



The problem

Phillips et al (2018), PNAS

Test (GFMT) ...

[...] Glasgow Face Matching

"Same person?"





Existing methods:

suboptimal to identify SRs & evaluate their deployment

What's needed:

The problem

Solution for SR-identification developed specifically to meet the needs of the police









Berlin Model for Super-Recognizer Identification (BeMo SR-id)

- **Collaborative:** combines scientific procedures & policing practices
- Tech-assisted, human-centered assessment of face processing
 - police-relevant psychometric testing
 - large-scale, representative validation (total possible N: >25K Berlin employees)









Berlin Model for Super-Recognizer Identification (BeMo SR-id)

5-step approach:



Image search & comparison

eg image analysis, crime series grouping, prevention



urce: ghettyimages



Source: CVD

Search & surveillance

eg monitoring or targeted search for wanted individuals





Source: ghettyimages









Berlin Model for Super-Recognizer Identification (BeMo SR-id)

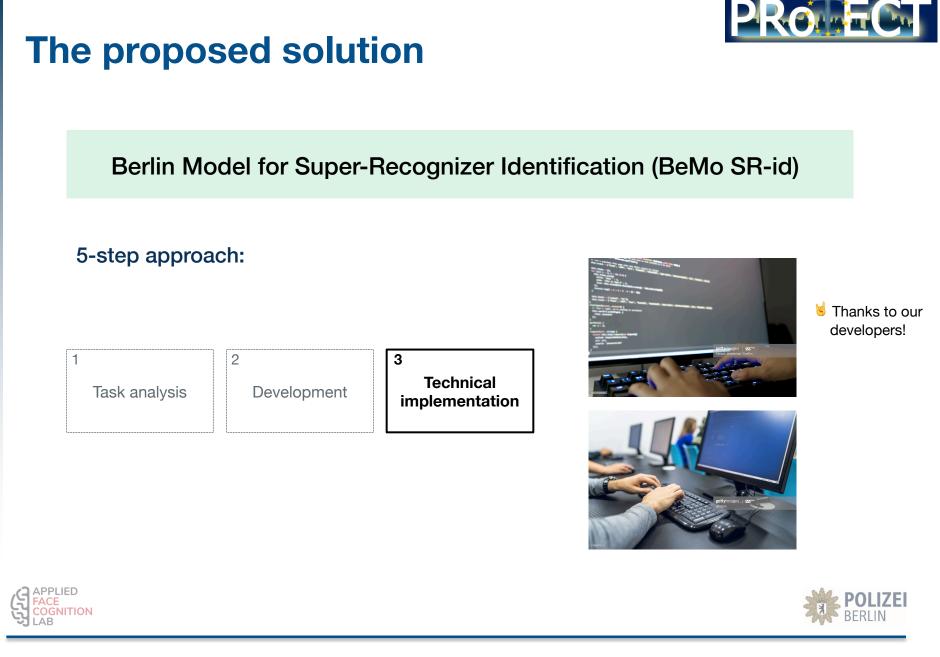
5-step approach:















Berlin Model for Super-Recognizer Identification (BeMo SR-id)

5-step approach:

1	2	3	4	5
Task analysis	Development	Technical implementation	Pilot	Roll-out
			"Testing the test"	

Summer 2020 Fall/winter 2020











Berlin Model for Super-Recognizer Identification (BeMo SR-id)

= State of the art assessment of face processing combining science & policing

Police-relevant

- Real case material & professionally relevant tasks

Scientific

- Validated in representative, large population (

uncontrolled mass online testing)

- Procedures/data/results OPEN and transparent via scientific publication

- Available to other agencies for free ٠
 - Enabling widespread comparability; evaluation of deployment











Challenges and lessons learned

Berlin Model for Super-Recognizer Identification (BeMo SR-id)

What we needed / wanted:

- Clarity (definitions, expectations) & transparency
- Police-relevant & objective assessment tool

Challenges:

- Strict data protection laws in Berlin
- Distributed, interdisciplinary team

What we learned:

- Solid work takes time, effort & collaboration
- Interdisciplinary work → learning opportunities

Future opportunities:

- Evaluate task-specific deployment of Be-Mo SRs
- Evidence-informed practices & operations









Thanks



FONDS NATIONAL SUISSE Schweizerischer Nationalfonds FONDO NAZIONALE SVIZZERO SWISS NATIONAL SCIENCE FOUNDATION















Interested in BeMo SR-id?

Contact us

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Read more

• Ramon M & Rjosk S (2021). Super-Recognizers in Policing – best practices established during development of the Berlin Model for SR-identification (BeMo SR-id).

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in Simon Rjosk

In: Best Practice Handbook of the EU project SafeCi - Safer Space for Safer Cities

• Ramon M (submitted). Super-Recognizers - a novel diagnostic framework, 40 cases, and guidelines for future work.



