

About UNICRI

A UN Research and Training Institute

- Established in 1968 by UN Economic and Social Council Resolution 1086 B (XXXIX)
- Support Member States design and implement criminal justice policies

- Headquarters in Turin, Italy









UNICRI's Centre f









REVISED NOVEMBER 2022

INTERPOL

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7 with support of Netherlands
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and related technology from and rule of law lies of new technology



PELITIE ECONOMIC FORUM

Facial recognition technology for law enforcement

Facial recognition presents new opportunities

- Biometric technology can help support the identification of criminals and fugitives, missing persons, victims and other persons of interest
- It can help conduct faster and more accurate investigations.
- The technology is only one step in the identification process which includes face experts' evaluation, peer review, and further investigation always only an *investigative lead*.

However, it also represents a new challenge

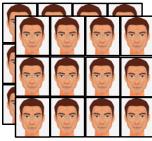
- Acute and specific risks in law enforcement
- Unintended biases could lead to discrimination and consequential misidentifications, undermining presumption of innocence, freedom of expression, freedom of assembly and association, and the right to privacy.

Step 1



Probe image

Automated Face Identification



Reference database



Probe image

Automated Face Verification

Manual Examination



Reference image

Step 2



Probe image



Candidate image

Facial recognition technology for law enforcement

"Advances such as facial recognition software, robotics, digital identification and biotechnology, must not be used to erode human rights, deepen inequality or exacerbate existing discrimination."

- United Nations Secretary-General, Antonio Guterres at the Human Rights Council in Feb. 2020



Motions to regulate facial recognition

Concerns have resulted in intensified policy activity

- A court in Brazil blocked in 2021 the deployment of facial recognition in the public transport system.
- In 2019, the Dutch government requested additional privacy, ethical and human rights impact assessments before authorizing any more pilots.
- In the US, some local and state governments have banned the use of facial recognition by public agencies, including law enforcement.
- Large US technology companies stopped selling or placed moratoriums on police use of its facial recognition software.
- The European Commission proposal for the Al Act submitted in April 2021 prohibits the use of real time facial recognition in public spaces and classifies other facial recognition uses as 'high-risk' applications.
- The United Nations Office of the High Commissioner for Human Rights recommended banning AI applications that cannot be used in compliance with international human rights law.



Our contribution to policy discourse

A Policy Framework for Responsible Limits on Facial Recognition in law Enforcement Investigations

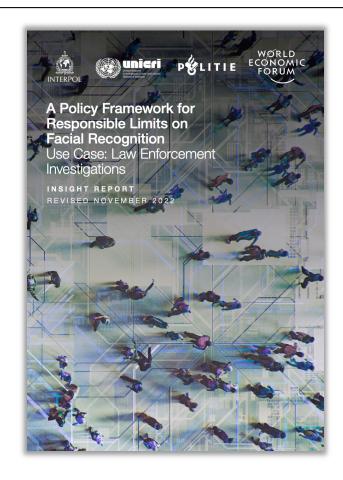
GOAL

To promote and ensure the safe, trustworthy and inclusive application of facial recognition by law enforcement agencies

OUTCOME

A **policy framework designed to** proactively **mitigate the risks** related to facial recognition technology use in criminal investigations:

- 1. A tool to help **law enforcement** improve their use of facial recognition technology.
- 2. A tool to support **policy-makers** across the globe in the design of governance frameworks for facial recognition technology.



A multi-stakeholder approach for a policy framework

1



Co-design a list of **Principles for action**

- These principles guide how FRT should be used by law enforcement agencies
- General and universal principles with the vision of being largely adopted by law-enforcement agencies worldwide



2



Co-draft a Self-Assessment Questionnaire

- Tool to help law enforcement agencies check their compliance with the principles for action
- To review and improve their daily practices
- Results can be made public to help build transparency and trust among citizens

3



Test the policy framework with law enforcement

- Piloting the policy framework, with law enforcement agencies from different countries
- To attest its the achievability, relevance and usability
- The results and findings help iterate on the policy framework

The pilot phase











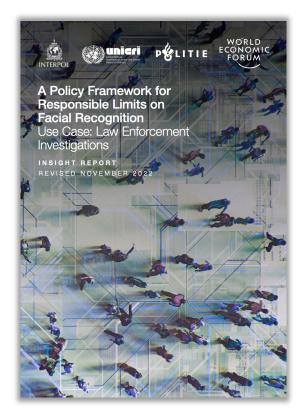


Testing the policy framework



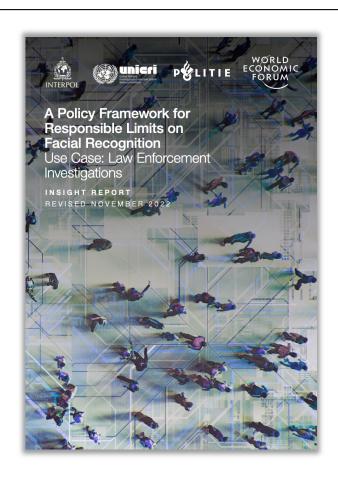






Version 2: November 2022

A look inside the policy framework





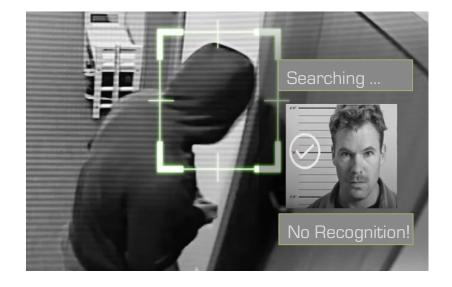
The extent of our work

Law enforcement investigations

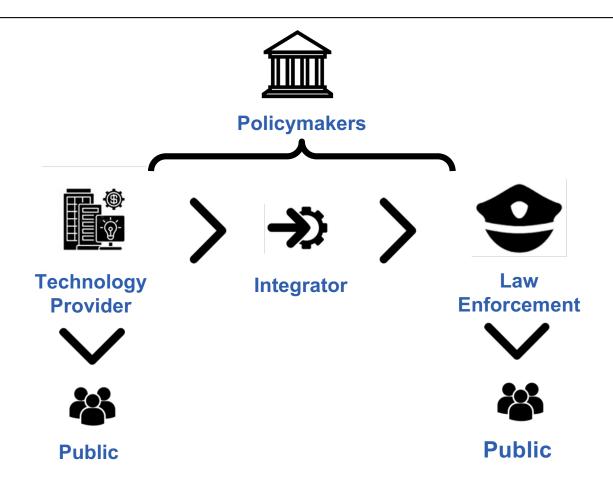
- FRT has many uses in law enforcement context.
- Policy framework focuses exclusively on law enforcement investigations.
- All other law enforcement activities related to passport, residence permit and ID card issuance/verification etc. are outside its scope

Why?

- Potential impact on human rights is the highest, particularly sensitive and controversial
- Nuance each use case presents its own challenges, e.g., passing through an airport border control with face identification is uniquely different that employing facial recognition in investigations



System lifecycle and stakeholders' chain



Proposed principles

1	Respect for human and fundamental rights	2	Necessary and proportional use	3	Human oversight and accountability
4	Optimization of system performance	5	Mitigation of error and bias	6	Legitimacy of probe images and reference databases
7	Integrity of image and metadata	8	Skilled human interface and decision-making	9	Transparency

Takeaways from the pilot

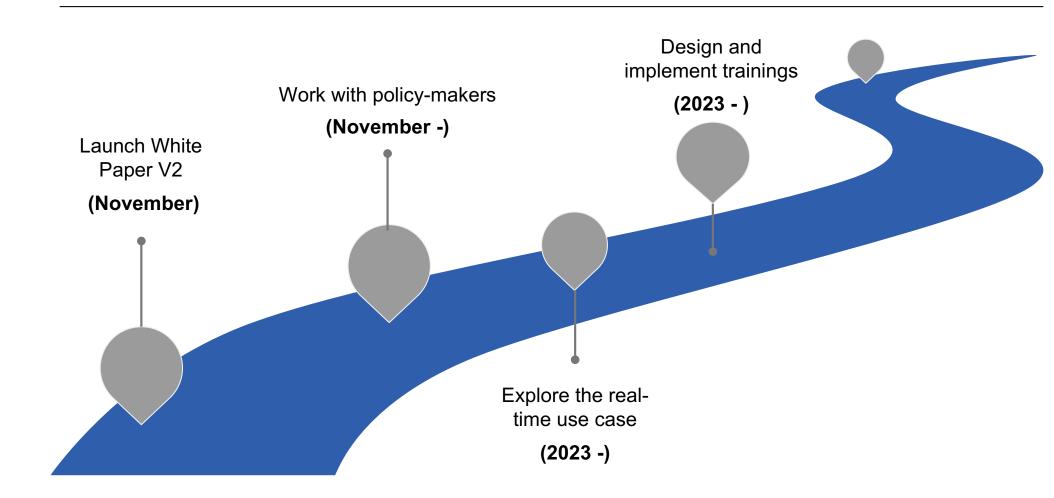
- Very different procedures exist, showing a lack of guidance and standardization
- Training is not always provided, and when it is, it is inconsistent
- The fundamental importance of being at most an 'investigative lead' is clear
- The importance of transparency and the challenge of communication is recognized
- Real-time presents unique challenges that need to be further explored
- Testing systems is essential, but lab and field tests are very distinct. Field testing may not always be possible
- The distinction between biometric template and facial images is important and should be emphasized, as each may require different treatment
- Management and storage of unidentified probe images can be complex and require specific policies







Next steps



Thank you

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Timeline

Jan 2021 Nov 2022 Jan 2023 -Feb 2021 Jan 2022 Scoping phase Draft of the framework **Testing** Dissemination · Validate understanding of • **Drafting** of the policy framework by Pilot the framework with law • Engage with policy-makers the law enforcement use WEF, INTERPOL, NL Police and enforcement agencies and promote the adoption of **UNICRI** case the framework Review the framework based on Review of the white paper by the Build the multi-stakeholder · Conceptualize and fundraise the key learnings of the pilot wider project community project community for a activities to fill gaps identified through pilot Public launch of the project **Nov 22** Jan 22 Oct 21 **Nov 21** Feb 21 Mar 2023 White paper Workshops with Final version of the Webinar with the Final meeting Workshop with the published by the pilot agencies (x3) White Paper published project community targeting policy-makers project community

at UN HQ

core community