THE FOUNDATION FOR SCIENCE AND TECHNOLOGY

Ada Lovelace Institute

Facial Recognition and Biometrics – Technology & Ethics
29 January 2020

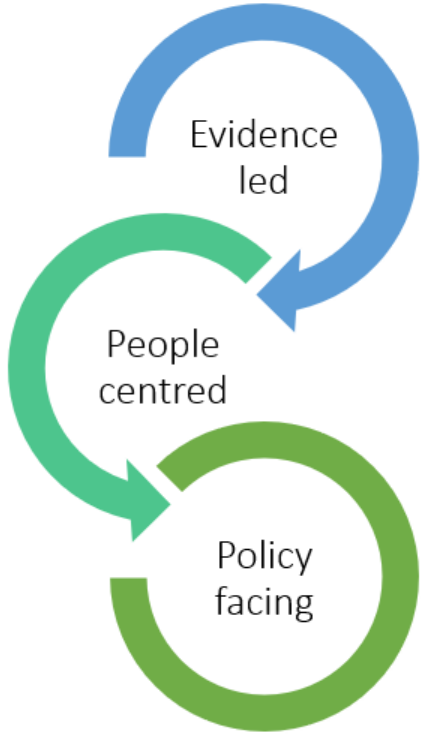
@FoundSciTech, @AdaLovelaceInst
#biometricsdebate

The Ada Lovelace Institute is:

Evidence led: we conduct, support and amplify rigorous independent interdisciplinary research into the ethical and societal impacts of data and AI on people and society.

People centred: we enable informed and complex public dialogue about technology, policy and values, and represent the voice of the public in debates around data and AI

Policy facing: we translate our research and others' into workable solutions, practices and recommendations for companies, policy-makers, regulators and the public



小心車輛出入
BEWARE OF VEHICLE
勿進入

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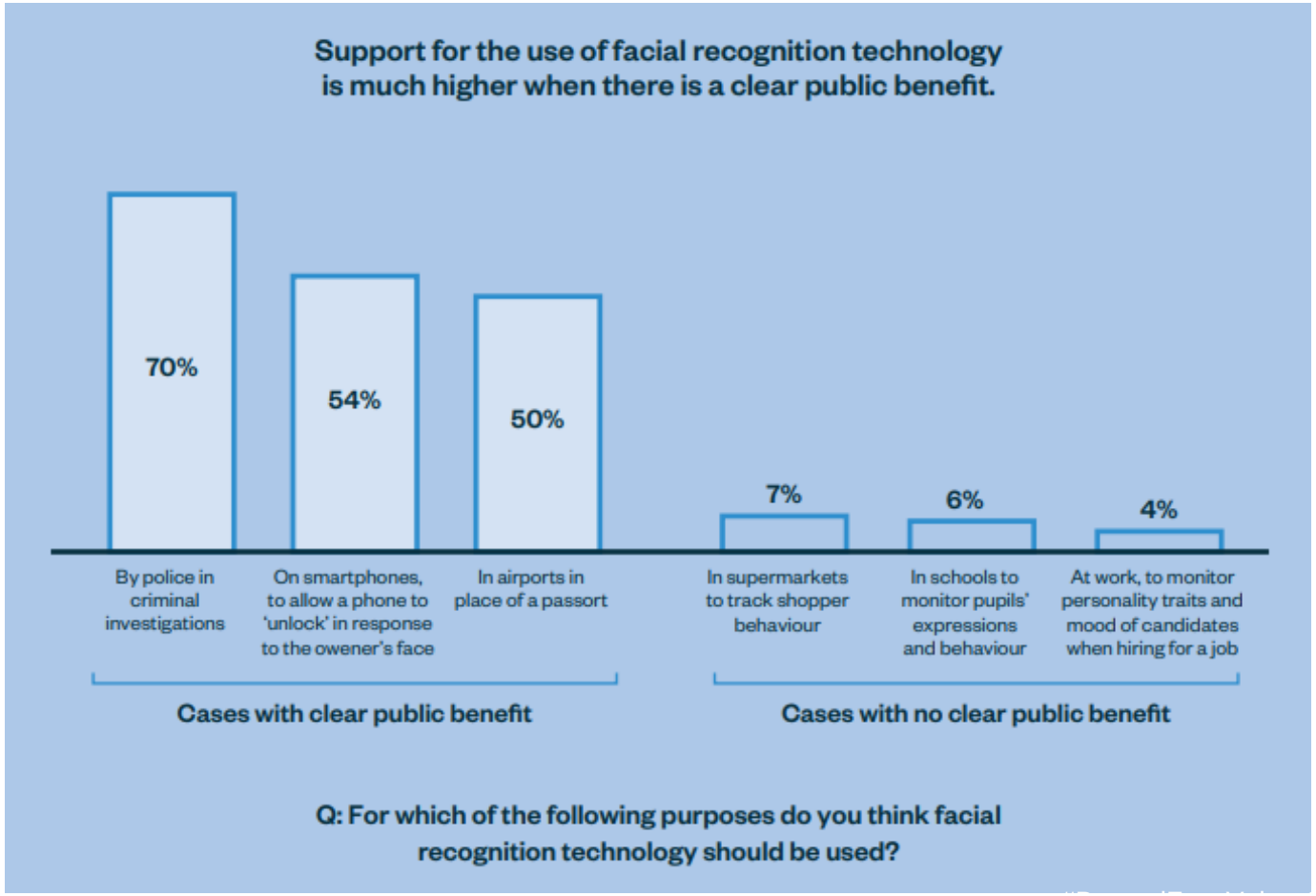
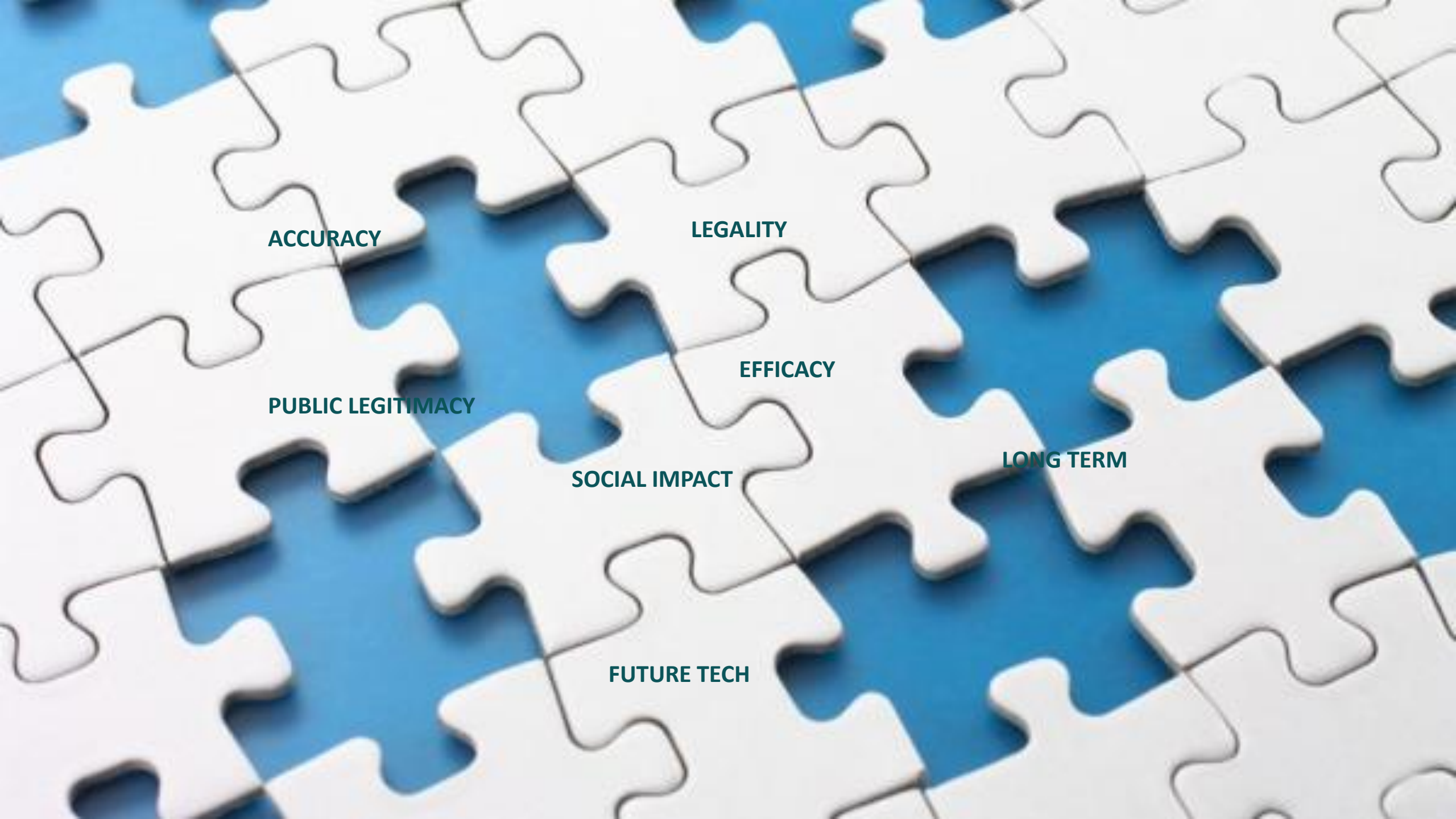
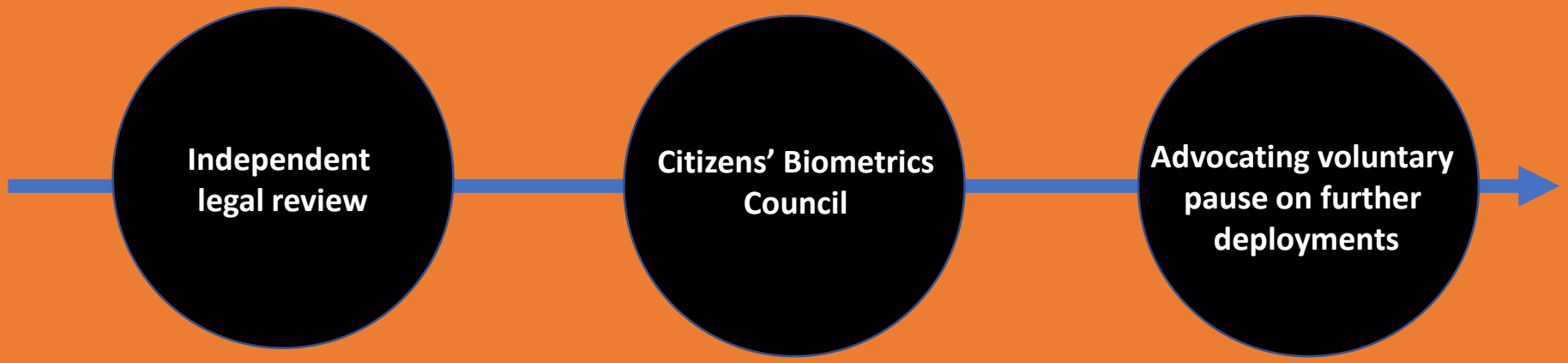
IVECO
BU07 AZB
POLICE TRIAL OF FACIAL RECOGNITION TECHNOLOGY
We are trialling the use of facial recognition technology to help us identify and arrest wanted people.
This trial will involve the use of mobile cameras installed with facial recognition software in the Westminster area.
For more information go to: -
www.met.police.uk/advice/advice-and-information/facial-recognition/live-facial-recognition-trial/
METROPOLITAN POLICE


Support for the use of facial recognition technology is much higher when there is a clear public benefit.
70%
54%
50%
7%
6%
4%
By police in criminal investigations
On smartphones, to allow a phone to 'unlock' in response to the owener's face
In airports in place of a passort
In supermarkets to track shopper behaviour
In schools to monitor pupils' expressions and behaviour
At work, to monitor personality traits and mood of candidates when hiring for a job
Cases with clear public benefit
Cases with no clear public benefit
Q: For which of the following purposes do you think facial recognition technology should be used?

Gender Classifier	Darker Subjects Accuracy	Lighter Subjects Accuracy	Error Rate Diff.
Microsoft	87.1%	99.3%	12.2%
FACE++	83.5%	95.3%	11.8%
IBM	77.6%	96.8%	19.2%

ACCURACY


ACCURACY
LEGALITY
EFFICACY
PUBLIC LEGITIMACY
LONG TERM
SOCIAL IMPACT
FUTURE TECH



Where is the Ada Lovelace Institute doing?

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The Citizens' Biometrics Council

60 members of the public

2 groups: Bristol & Manchester

Meeting across 3 rounds of workshops

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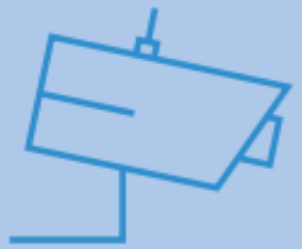
There is support for a pause on sale of facial recognition technology for now, so that the public can be consulted about its use



50%

of people agree that the private sector should not sell facial recognition technology to the police *

70%

of people agree that the private sector should not sell facial recognition technology to schools *