



ICAO

2025
ICAO **TRIP**
SYMPOSIUM
MONTRÉAL, CANADA | NOVEMBER 4 - 6



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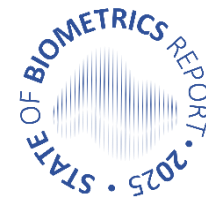


Jakob Glynstrup

Chairman, Biometrics Institute
The future of responsible biometrics

Keeping it real

One of five themes in this year's State of Biometrics Report



Deepfakes will continue to pose a significant threat in the future

85%

2024	81%
2025	85%



91%

High confidence
in biometrics as a
means to secure
digital identities



Digital identity interoperability – are we there yet?



46%

As AI improves,
human oversight
will become less
important

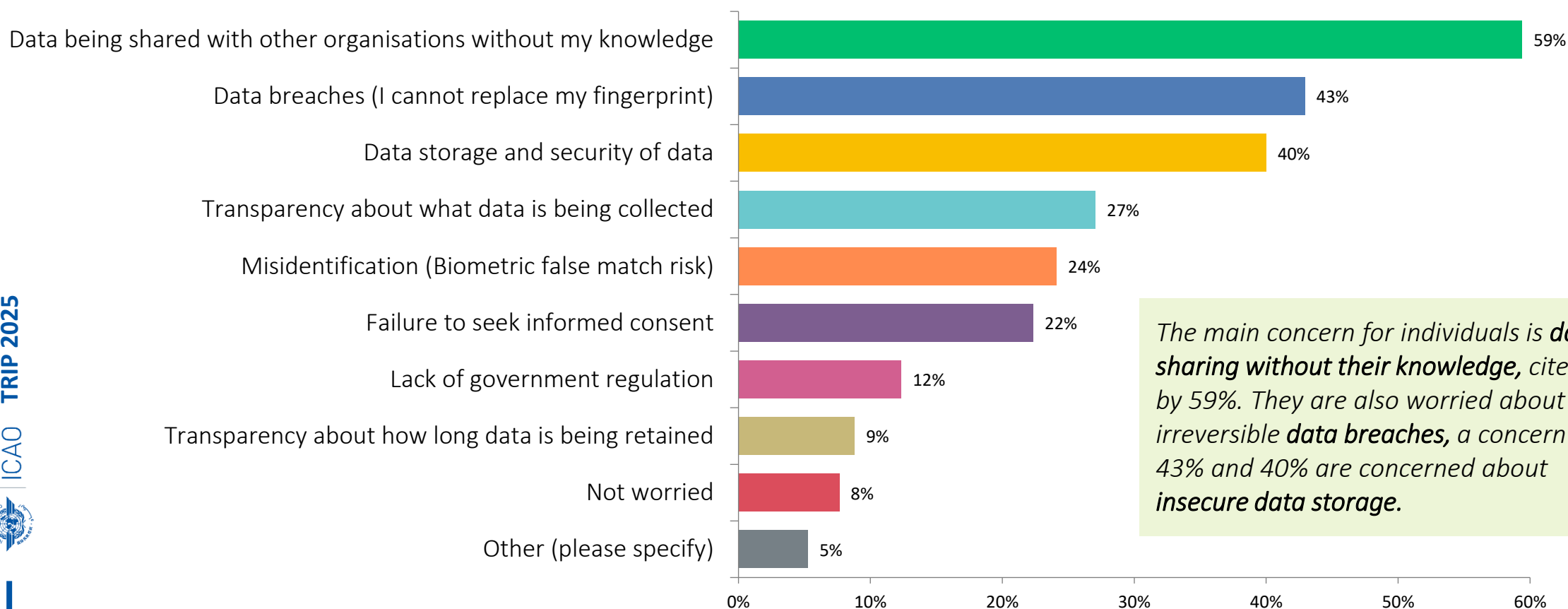


NEW

Privacy concerns as an individual



What are people most worried about?



*The main concern for individuals is **data sharing without their knowledge**, cited by 59%. They are also worried about irreversible **data breaches**, a concern for 43% and 40% are concerned about **insecure data storage**.*

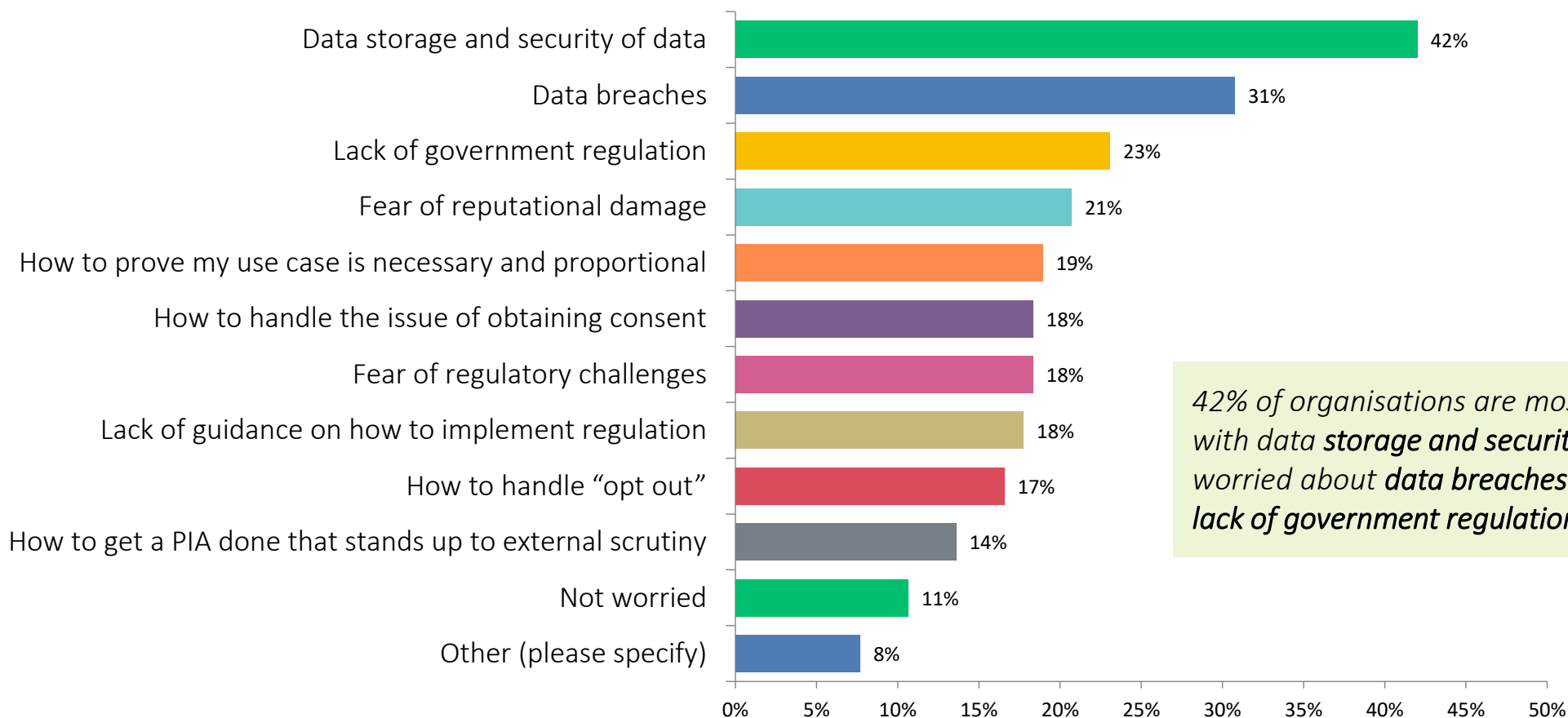
NB: Figures rounded to the nearest whole percentage point

NEW

Privacy concerns as an organisation



What are companies most worried about?



*42% of organisations are most concerned with data **storage and security**. 31% are also worried about **data breaches** and 23% for a **lack of government regulation**.*

NB: Figures rounded to the nearest whole percentage point

48%

Policy and
regulation will
not keep pace
with data
protection needs



84%

Continuing to educate the public is essential for the ongoing acceptance of biometrics

2024	84%
2025	84%



THE THREE LAWS OF BIOMETRICS



Policy

comes first:

Any use of biometrics is necessary and proportionate, with basic human rights, ethics and privacy at its heart.

1

POLICY

TRUST

2

PROCESS

Technology

guided by policy and process:

Know your algorithm, biometric system, data quality and operating environment and mitigate vulnerabilities, limitations and risks.

3

TECHNOLOGY

Process

follows policy:

Safeguards are in place to ensure decisions are rigorously reviewed, operations are fair, equity and inclusion are addressed, and operators are accountable.

Lifecycle of a system

How do you decide?

Pinpointing and working out what's needed



Biometrics Institute Good Practice Framework					
Scope, key considerations and control measures	Fundamental processes				
	1	2	3	4	5
A. Biometric systems	Strategic Planning	Data acquisition & enrolment	Data processing	System outputs	Products and services
B. Social impact					
C. Governance					
D. Risk management					
E. Standards & evaluation					



Procurement Guidelines

A good practice guide for procuring biometric solutions



The guideline offers essential information on:

- **Establishing a robust procurement process** tailored to biometric solutions
- **Engaging stakeholders** and aligning organisational goals
- **Conducting effective market evaluations** and crafting tender documents
- **Understanding delivery and pricing models**, compliance matrices, and RFIsa
- **Evaluating bids** and awarding contracts with confidence
- **Navigating international standards** and understanding best practice

Good practice tools

19 published and more to follow



In addition to the **Good Practice Framework** and **Procurement Guidelines (May 2025)**

- Privacy Guidelines (updated May 2025) and Privacy Awareness Checklist
- Mitigating Biometric Vulnerabilities in Digital Identity – Executive Briefing (2024)
- Biometrics and Authentication Paper (2023)
- Digital Onboarding and Biometrics Paper (2022)
- Biometrics Explanatory Dictionary
- Ethical Principles for Biometrics
- Biometrics Vulnerability Checklist (2020)
- Top 10 Vulnerability Questions (2020)
- Presentation Attack Detection (PAD) and Liveness Questions (2020)
- Top 10 Takeaways: NIST Demographic Effects Report (2019)

Our community

1,000+ members, 200+ organisations, 30+ countries



Government (65)

- Australian Department of Home Affairs
- Australian Taxation Office
- Cabinet Office UK
- Department of Finance, Australia
- Dutch Ministry of Justice
- Federal Bureau of Investigation (FBI)
- Finnish Immigration Service
- German Federal Ministry for Administration
- Immigration New Zealand
- Norwegian Police
- UK Home Office
- US Department of Homeland Security

Other users (12)

- British Standards Institution (BSI)
- Getlink
- Heathrow Airport
- ICO UK
- International Airlines Group
- Mastercard UK
- Meta
- National Australia Bank
- Visa Inc
- World Privacy Forum

Suppliers (100), academics (9) & international observers (18)

- European Union Agency for Fundamental Rights (FRA)
- European Commission
- International Organization for Migration (IOM)
- United Nations Development Programme (UNDP)
- United Nations High Commissioner for Refugees (UNHCR)
- World Bank
- Amadeus, Dermalog, Entrust, EZ Passport Studio, foster+freeman, OVD Kinegram, Regula, SITA, Speed Identity, Thales, Travisory, Veridos, and many more

Our mission

Since 2001



Promote the responsible, ethical and effective
use of biometrics

Spread a message of responsible use

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