

The Evolution of Identity for Travel

Paul Cross – Head of Border Management Sydney, SITA at Borders

SITA

Air travel is recovering but infrastructure and processes will not keep up

IATA Air Travel Growth March 2023

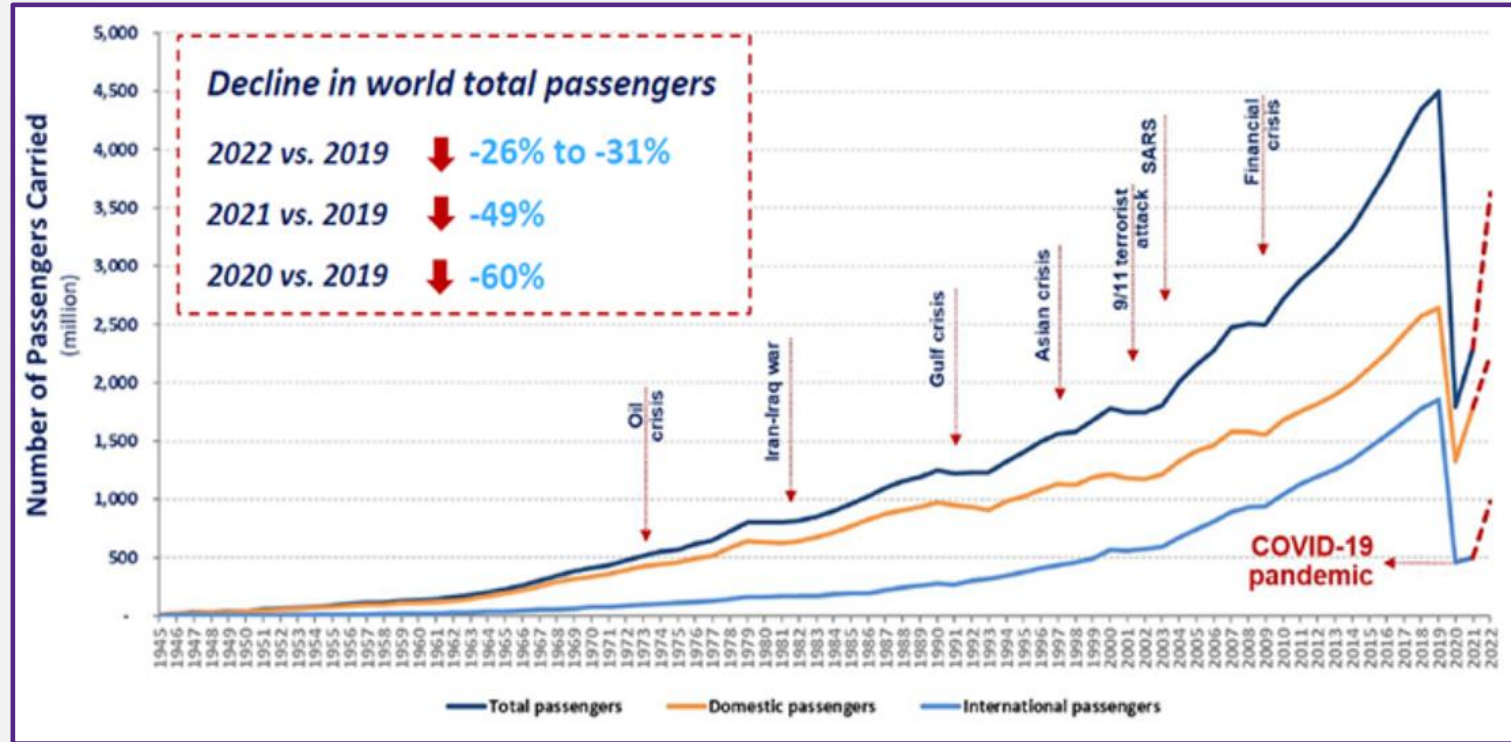
Geneva - The International Air Transport Association (IATA) announced strong demand growth in air travel for March 2023.

Total traffic in March 2023 (measured in revenue passenger kilometers or RPKs) rose 52.4% compared to March 2022. Globally, traffic is now at 88.0% of March 2019 levels.

Domestic traffic for March rose 34.1% compared to the year-ago period. Total March 2023 domestic traffic was at 98.9% of the March 2019 level.

International traffic climbed 68.9% versus March 2022 with all markets recording healthy growth, led once again by carriers in the Asia-Pacific region. International RPKs reached 81.6% of March 2019 levels while the load factor at 81.3% exceeded the March 2019 level by 10.1 percentage points.

ICAO World Traffic Evolution 1945 - 2022



Pre-COVID:

- Passenger volumes will double by 2037 (IATA)
- APAC will contribute 34% of world traffic (ICAO)

Then it all started again

British holidaymakers told to expect six hour airport queues



[British holidaymakers told to expect six hour airport queues | Evening Standard](#)

Long queues, delayed flights and irritated passengers: inside two years of chaos at New Zealand's airports



[Long queues, delayed flights and irritated passengers: inside two years of chaos at New Zealand's airports | RNZ News](#)

Queues greet holidaymakers at airports

Updated June 10 2022 - 11:21am, first published 11:18am



[Queues greet holidaymakers at airports | The Canberra Times | Canberra, ACT](#)

Manchester Airport 'madness' as holidaymakers face two-hour waits at security



[Manchester Airport 'madness' as holidaymakers face two-hour waits at security - LancsLive](#)

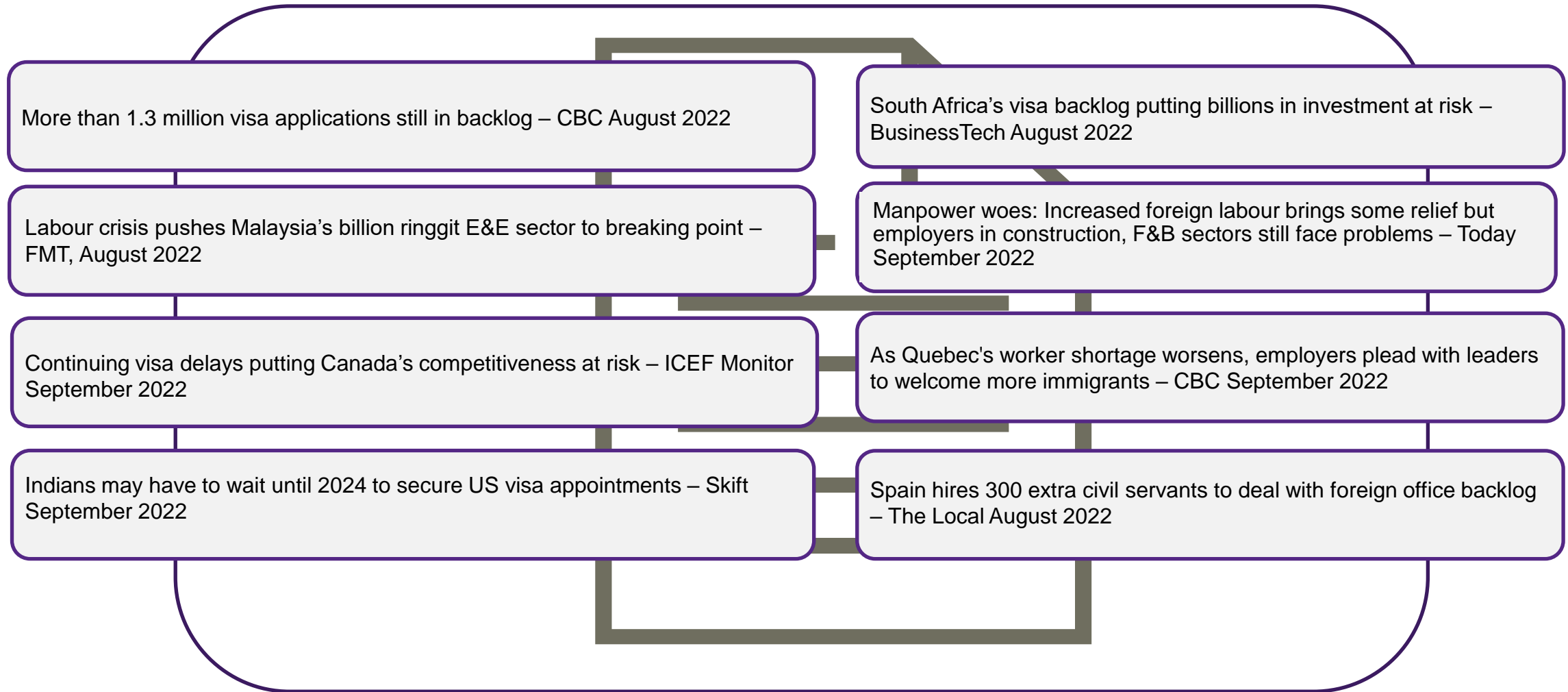
Passengers queue outside terminal buildings at Dublin Airport as 50,000 people fly abroad

IRELAND

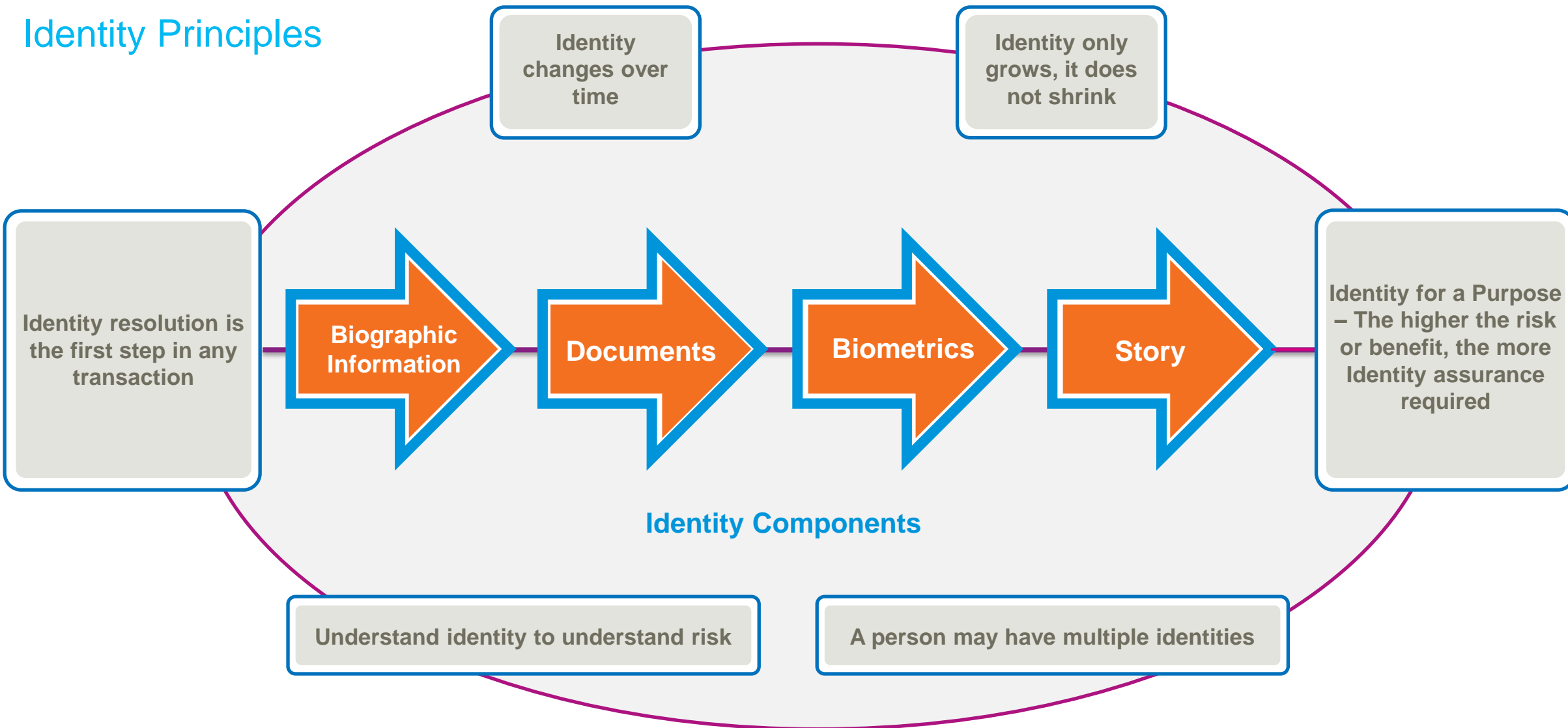


[Passengers queue outside terminal buildings at Dublin Airport as 50,000 people fly abroad \(breakingnews.ie\)](#)

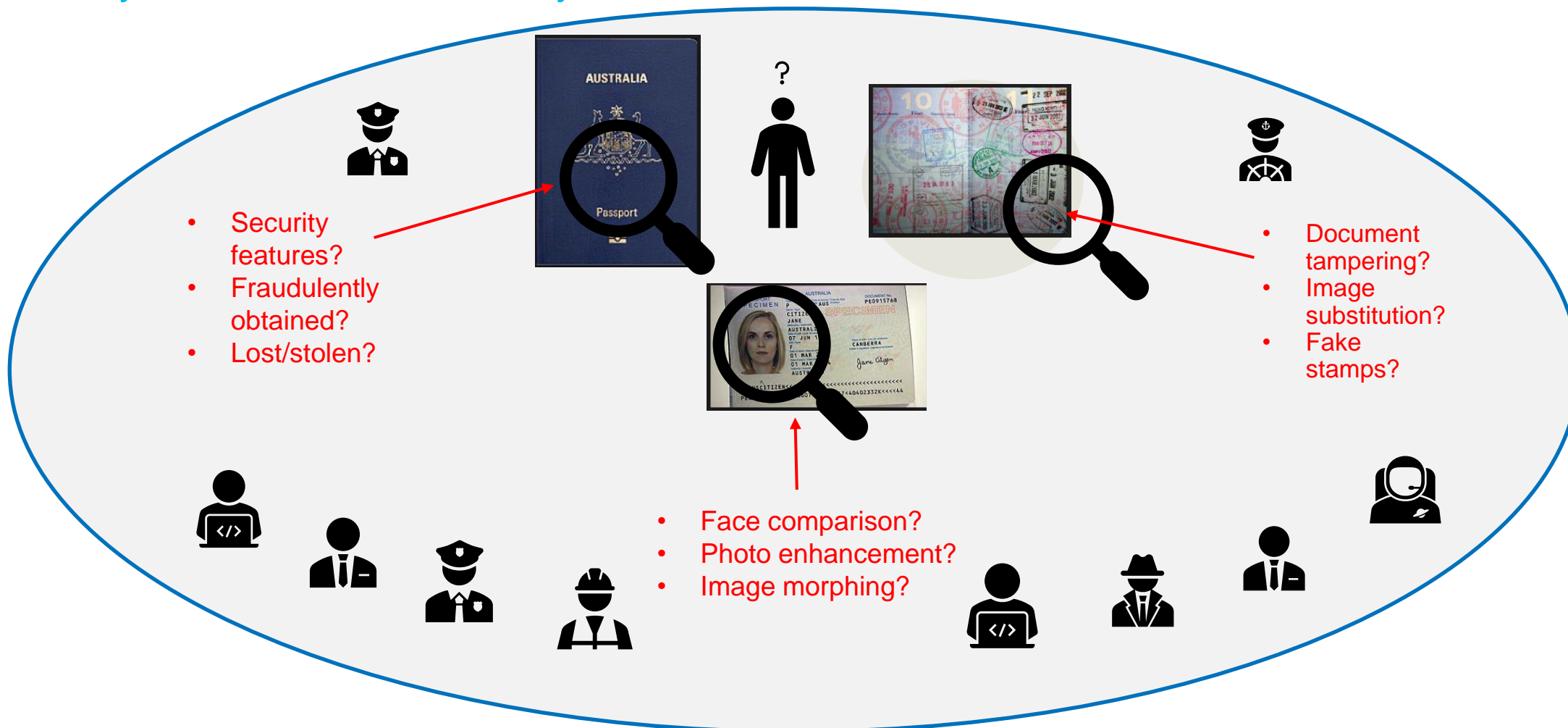
Pandemic impacts on business and migration



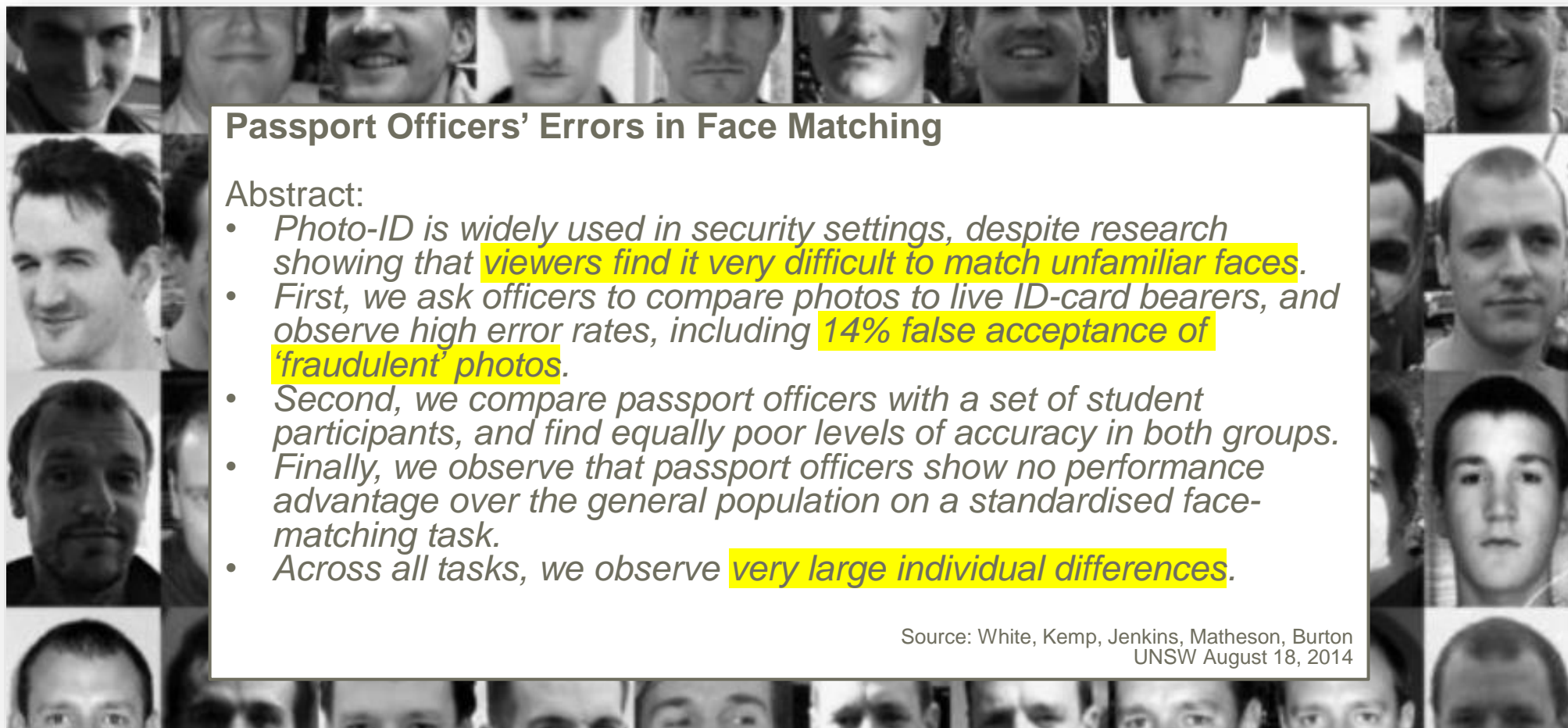
Identity Principles



Identity assurance and identity stakeholders



Face recognition skills



Passport Officers' Errors in Face Matching

Abstract:

- *Photo-ID is widely used in security settings, despite research showing that viewers find it very difficult to match unfamiliar faces.*
- *First, we ask officers to compare photos to live ID-card bearers, and observe high error rates, including 14% false acceptance of 'fraudulent' photos.*
- *Second, we compare passport officers with a set of student participants, and find equally poor levels of accuracy in both groups.*
- *Finally, we observe that passport officers show no performance advantage over the general population on a standardised face-matching task.*
- *Across all tasks, we observe very large individual differences.*

Source: White, Kemp, Jenkins, Matheson, Burton
UNSW August 18, 2014

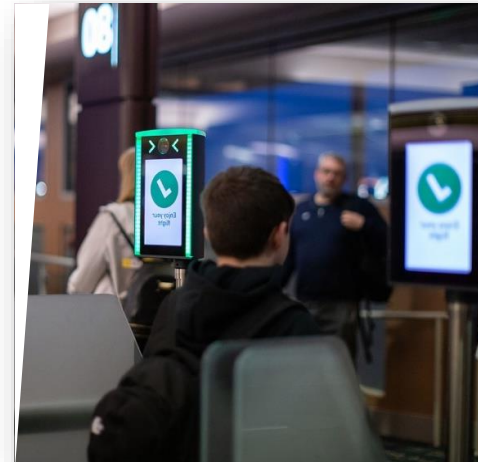
Industry Vision for Biometrically Enabled Travel and Nation Access

Create a contemporary, simple, convenient process for the traveler, harnessing the latest technologies

Leverage traveler's capacity to share ID & status with government

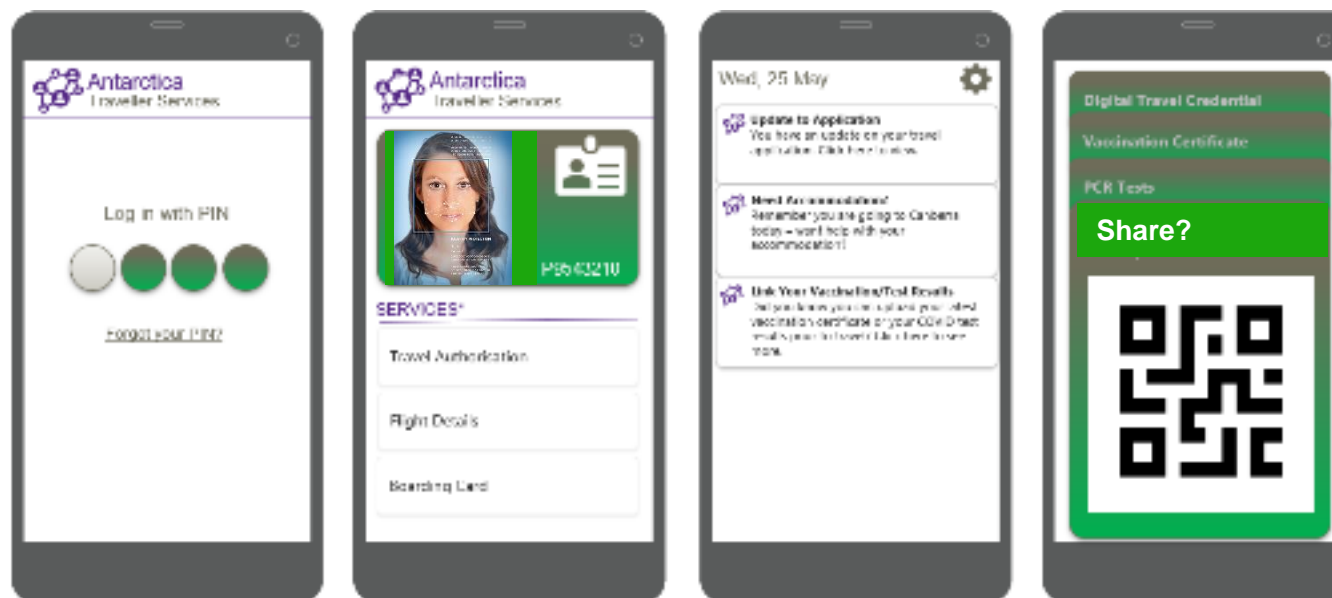
Maintain and enhance the security of the process, observe privacy

Create efficiencies for all stakeholders



Underpin existing investments, airport equipment agnostic, accelerate industry standards

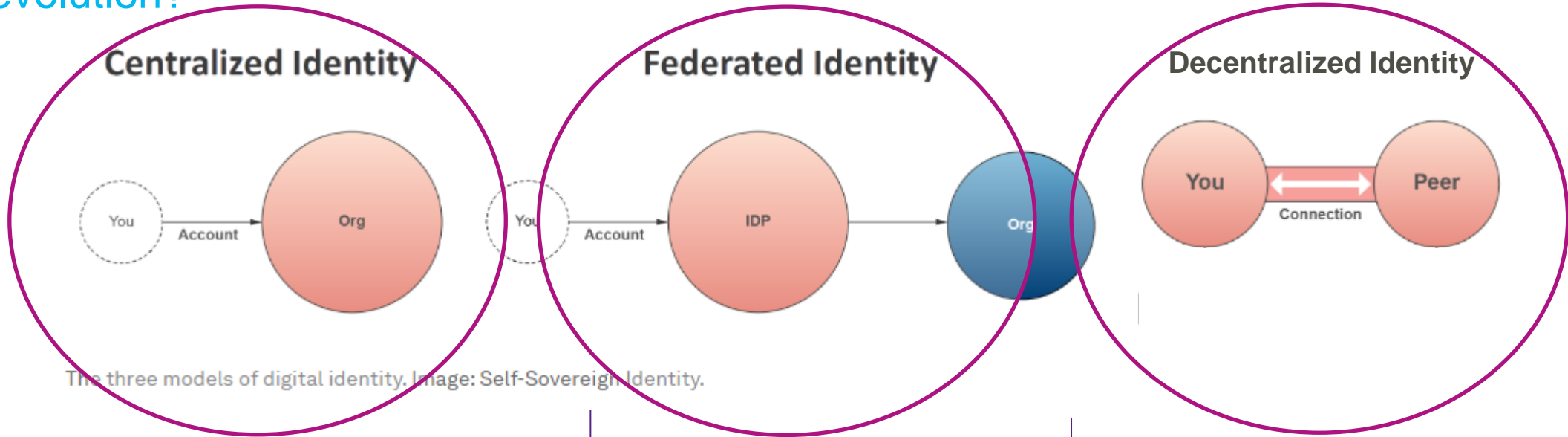
- **‘Game Changer’ identity assurance:** biometrics, OCR, digital certificates, QR codes, passport chip validation.
- **Convenience:** improved usability and ‘single window’ constructs for all international travel requirements
- **Stronger engagement:** travelers through improved access to services and improved communication.



Identity assurance and enriched data, for improved security and fast border processing

The most intuitive and convenient channel for organizing international travel

An evolution?



The three models of digital identity. Image: Self-Sovereign Identity.

STRENGTHS	Can be built with specific purpose in mind; potential for organizational vetting of identity data	Users can access a wider range of services; efficiency for organizations	Increased user control and reduced amount of information collected and stored by organizations
CHALLENGES	Generally low user control; centralized risk and liability; potential for abuse	Generally low user control; high technical and legal complexity	Governance model, acceptance and participation is complex; evolving landscape; complex liability

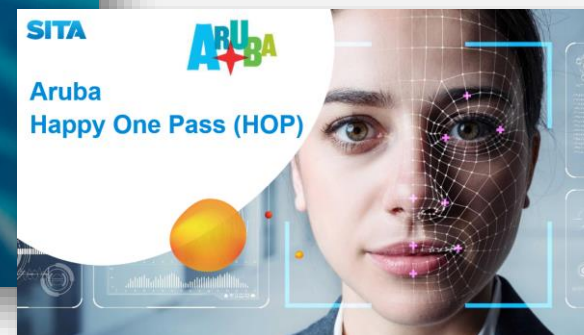
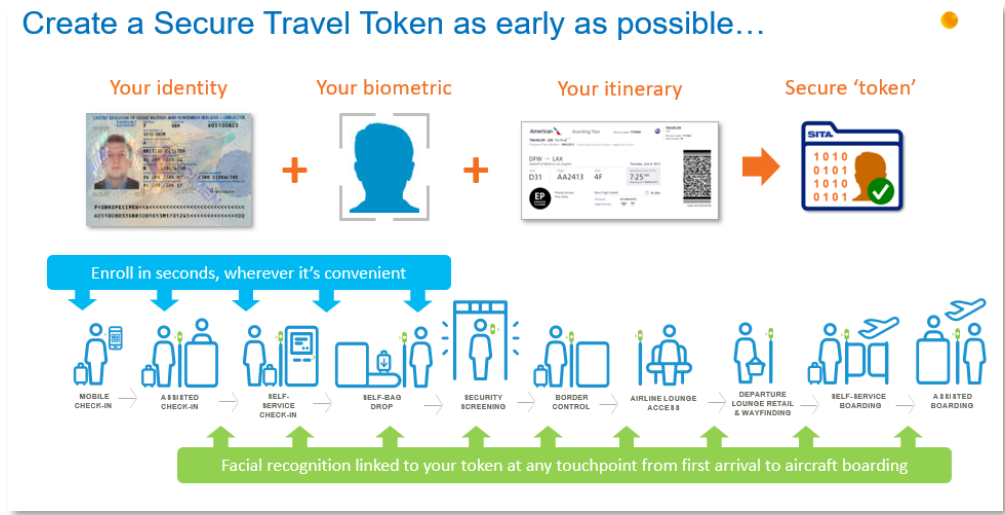
Digital Transformation for Travel



Industry Vision for Biometrically Enabled Travel and Nation Access

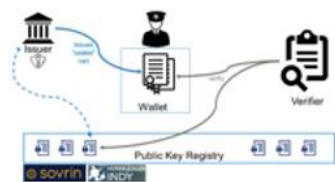
SITA Smart Path

Create a Secure Travel Token as early as possible...



The screenshot shows a webpage with the following content:

- Header: "What Can I Bring? A-Z Index Employees" and a search bar.
- Navigation: "TRAVEL", "MEDIA", "ABOUT", "CONTACT".
- Section: "Evaluating Digital Identity Technology".
- Section: "Overview".
- Text: "In recognition of the increased use of digital identity documents, TSA is evaluating their potential impact on aviation security and operations. TSA is integrating digital identity capabilities – including the acceptance of state-issued mobile driver's licenses – at the TSA checkpoint using the Credential Authentication Technology 2 (CAT-2) system to provide for a secure and seamless method of verifying an individual's identity. A mobile or digital driver's license is a digital representation of the information contained on a physical ID, stored on and accessed through a mobile device (such as a smartphone). TSA will continue to notify the public of its pilots and testing efforts through publicly issued Privacy Impact Assessments (PIAs)."
- Section: "Digital ID and Mobile Driver's License".
- Text: "TSA will deploy CAT-2 units in early 2022 to support the phased rollout of digital IDs, including mobile driver's licenses. During the initial stages of the rollout, TSA will only accept select mobile driver's licenses and digital IDs from TSA PreCheck® passengers."



ICAO Electronic Pilot License





SITA



Thank you

Paul Cross



Paul.Cross@sit.aero

