An Essential Transformation

Trusted Identity & Security at Borders

Every country faces critical challenges at their borders. The technologies required to address these challenges exist today. This illustration shows how they can be configured to greatly improve security and efficiency at the border.

How will you address traveller identity validation?



Dubai: **70.5M** Heathrow: 68.1M

accountability from the

supply chain process to

validation at borders and

secure issuance to

other points of engagement.

INTERNATIONAL TOURIST ARRIVALS Topped 1.3B in 2014 Hong Kong: **61.8M** Anticipate 1.8B by 2030





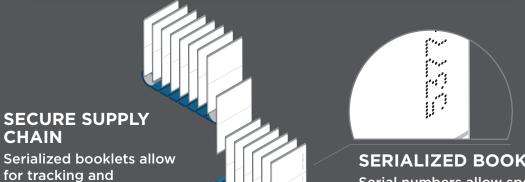
Foreign Fighters Exceeds **30,000** by Jan 2016

CITIZEN ENROLLMENT

ENROLLMENT ESSENTIALS Elements of trusted identity include breeder documents, photos, demographic data, biometrics and digital signatures.

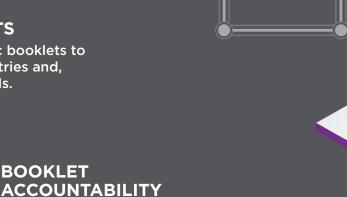






SERIALIZED BOOKLETS

Serial numbers allow specific booklets to be assigned to specific countries and, ultimately, specific individuals.



DYNAMIC TRUSTED

IDENTITY Establishing one trusted identity to be used across all citizen identity programs provides a strong line of defense against forgery, alteration and impersonation.



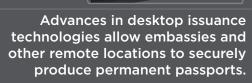
Security measures in the supply chain augment use of verifiable serial numbers.



BOOKLET

Trace through issuance and use of document







national ID programs.

High-volume central issuance

operations provide efficiency and cost optimization for passport and



DEVICE AUTHORIZATION Passport issuance systems and other devices used in the process are serialized and tracked.



CENTRAL ISSUANCE

EMPLOYEE AUTHORIZATION Security controls restrict operator access to issuance

systems and create tracking logs.



MATERIALS HANDLING Booklets, printer supplies, security overlays and other materials are

secure facilities.



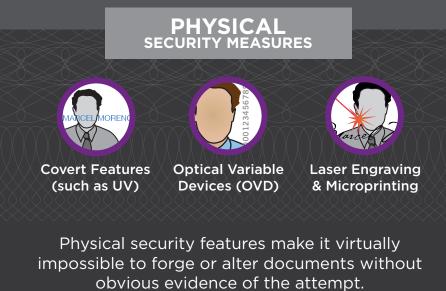
DOCUMENT SIGNER

Data Page biographical data, the photograph and any biometrics are hashed and digitally signed. The Digital Signature provides the basis for proof of data authenticity and integrity

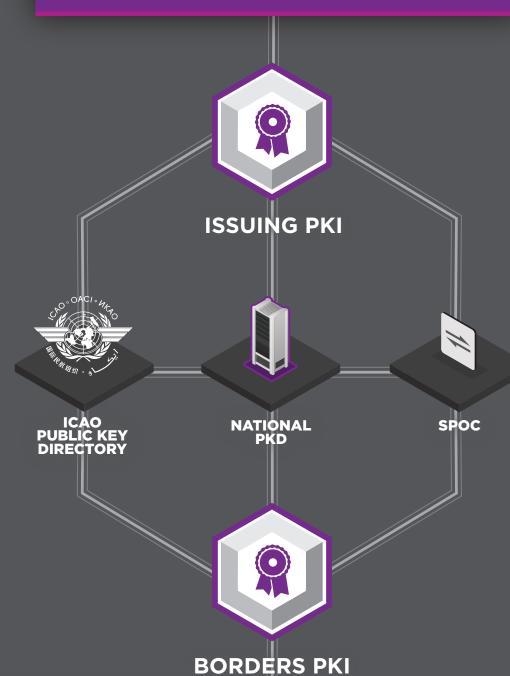


SECURE CREDENTIAL

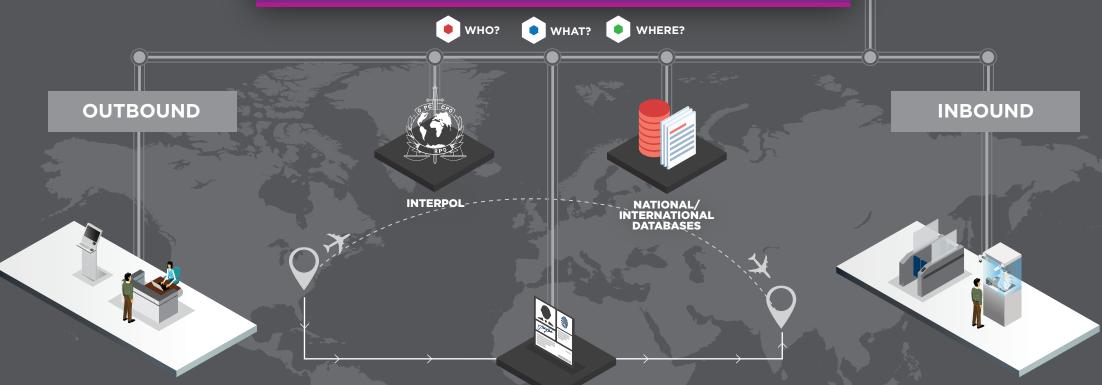




TRUST INFRASTRUCTURE



BORDER VALIDATION



OUTBOUND TRAVELERS

e-Passport or similar credential presented for digital validation and visual inspection. Leverage full suite of validation capabilities at outbound.

ADVANCED PASSENGER INFORMATION

Data regarding each segment of a journey is captured and integrated with the traveler's trusted identity.



FIELD

OFFICER

AUTOMATED E-GATES



KIOSK

INBOUND TRAVELERS

Validation technology allows field

NO VALUE WITHOUT VALIDATION