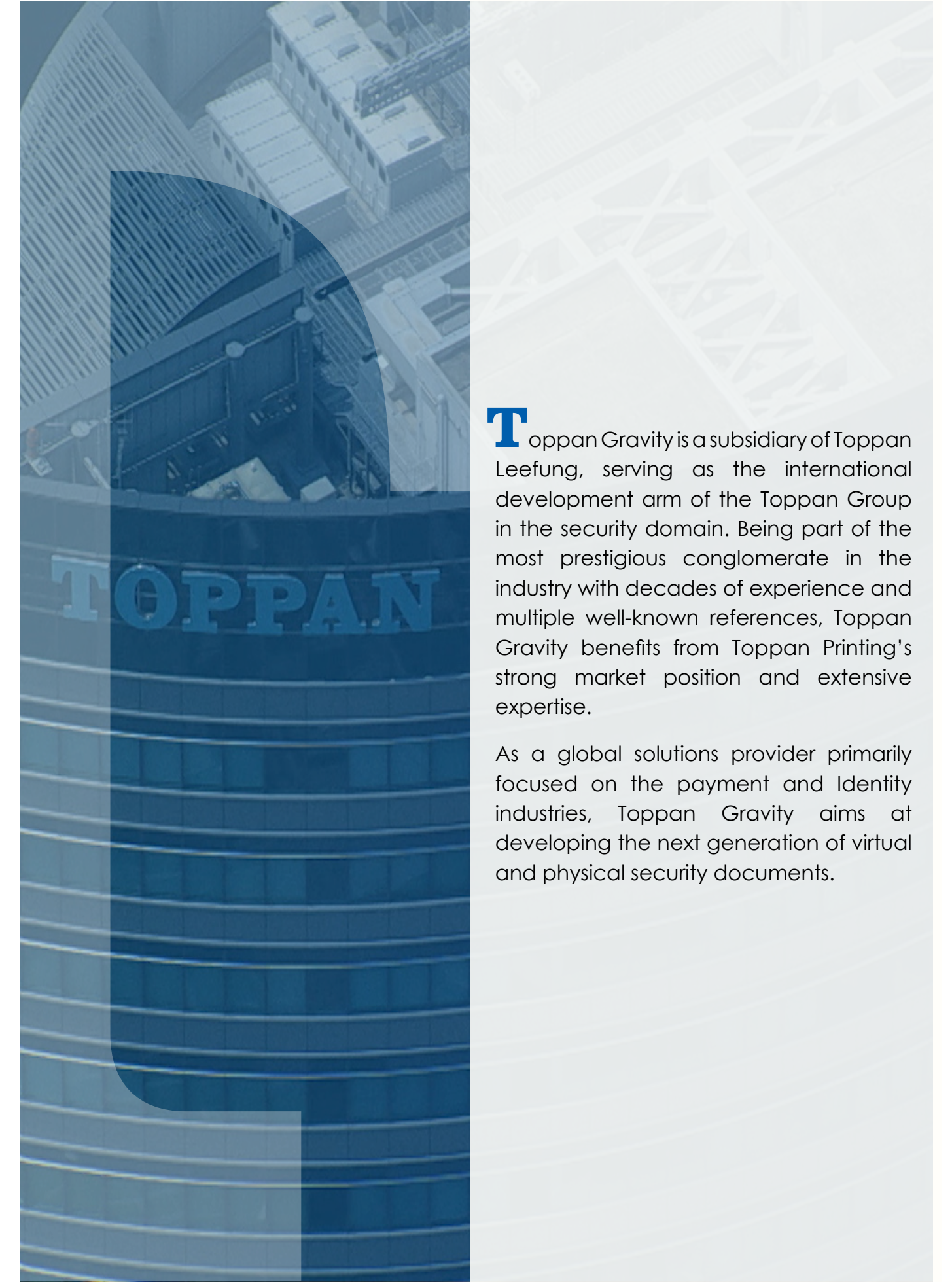


ToBe



ePassport Solution



Toppan Gravity is a subsidiary of Toppan Leefung, serving as the international development arm of the Toppan Group in the security domain. Being part of the most prestigious conglomerate in the industry with decades of experience and multiple well-known references, Toppan Gravity benefits from Toppan Printing's strong market position and extensive expertise.

As a global solutions provider primarily focused on the payment and Identity industries, Toppan Gravity aims at developing the next generation of virtual and physical security documents.



PROTECT YOUR IDENTITY WITH HIGH-SECURITY DOCUMENTS

Protecting your identity with high-security passports

In today's globalized world, it is more important than ever for a country to provide its citizens with passports that feature the highest level of security. As part of our mission to support governments, Toppan Gravity offers state-of-the-art, high-security electronic passports that comply with the specifications set by the International Civil Aviation Organization (ICAO) and the ISO standards. Our continuous R&D activities provide our customers with solutions that are one step ahead of the fraudsters.



All our passports are Logical Data Structure (LDS) ready and customizable according to our customer's needs and design preferences. We cover the entire production process of passport booklets, including electronic or nonelectronic PC data pages, electronic covers, and other secure consumables.

KEY BENEFITS



- ✓ Fully Customizable Passports to reflect the country's identity
- ✓ Cutting-Edge Technologies
- ✓ Forgery-Proof Security Features
- ✓ ICAO compliant



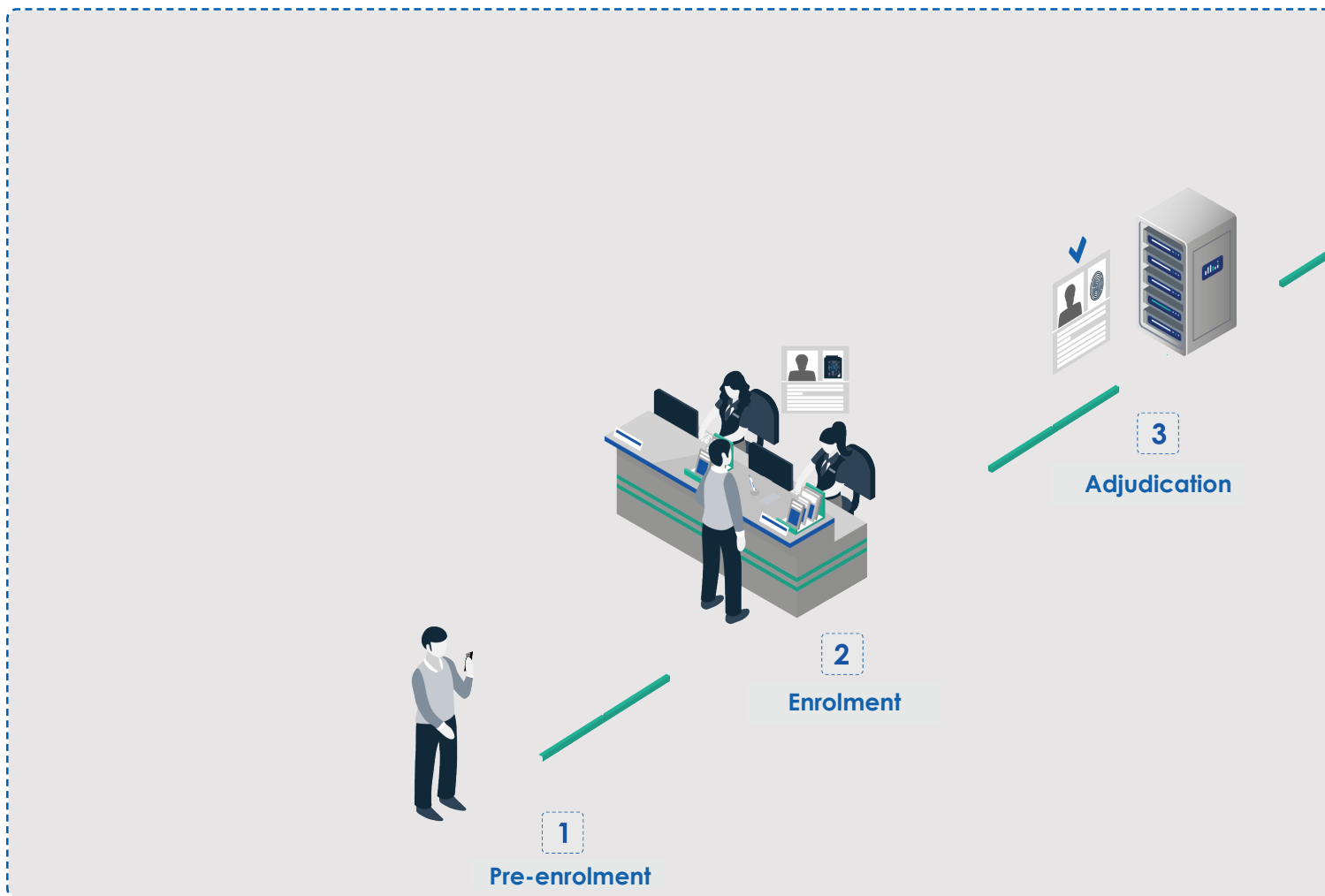
- ✓ +120 years of experience in secure printing
- ✓ +20 passport projects
- ✓ Mastering full supply chain from consultancy, design, document and chip security to the in-house production of secure documents
- ✓ Highly secure production process



- ✓ Project Consulting
- ✓ In-House Design
- ✓ Secure Logistics
- ✓ Customized Passport Solutions, inc. PKI



ePASSPORT SOLUTION PROCESS



1. PRE-ENROLMENT:



Submission of biographical data for a passport application and appointment management for the applicant's enrolment.

2. ENROLMENT:



Optimizing the flow and capacity at the enrolment site through a graphical pre-enrolment and enlisting accurate biometrics to confirm the uniqueness of the identity.

3. ADJUDICATION:



Comparing the individual's biographical details (biometric and demographic data) with the data in the system and handling suspected duplicates.



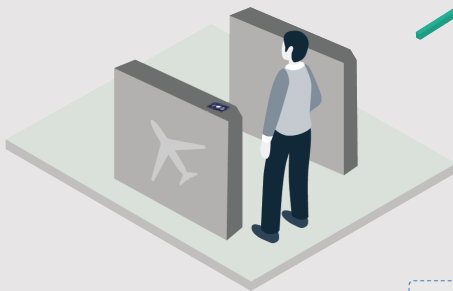
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Personalization



5

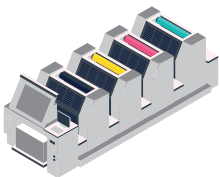
Delivery



6

Verification

4. PERSONALIZATION:



Transfer of sensitive personal biographical data to an ID document through select technology, such as laser or printing.

5. DELIVERY:



Once personalized, the ID document is either mailed to the permanent address of the applicant or picked up at the municipality.

6. VERIFICATION:



Validation of document authenticity, comparison with Lost and Found or wanted person databases and verification of document holder identity.

ePASSPORT VALUE CHAIN



1. Digital Platform

Quick-to-deploy solution to a wide range of government functions

- Online document application
- Online payment
- 24/7 monitoring application status



2. Enrolment

Full digitalization and biometrics management

- Toppan's solution has been rolled out in over 20 countries and over 70 million persons captured / deduplicated



3. In-house Passport Production

Large range of Level 1-2-3 security features, 10 years lifespan, pioneer in polycarbonate technology

- Antimicrobial
- Moire
- Eco friendly



4. Personalization

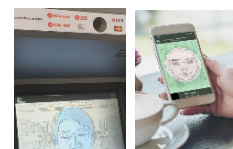
Full range of personalization systems

- Toppan Personalization machine
- High resolution Printing
- Modular Color + Laser Engraving
- Advanced security features



5. Verification


Security solutions to identity verification and authentication with the use of biometric and RFID technologies



ePASSPORT IN-HOUSE PRODUCTION

Toppan Gravity covers the whole production process of passport booklets, including electronic or non-electronic PC data pages, electronic covers and other secure consumables.






Passport Booklets

- Machine-readable, electronic & biometric passports
- Flexible electronic cover
- Ultra-thin & electronic polycarbonate datapage
- Fully ICAO compliant, surpassing ISO standards
- Tailor made solutions & high secure artwork
- Security Features level 1, 2 and 3
- Up to 10-year lifespan

PC Data Page








- Paper / Polycarbonate Datapage (Thin/Electronic PCDP)
- Ultra-thin thickness available for better aesthetics
- Many different Security features are available:
 - Secure printing (rainbow, guilloches, microtext)
 - Hologram
 - UV printing (rainbow, microtext, polychromatic image)
 - OVI®
 - OVM®
 - Matt/Shiny effect
 - MLI/CLI
 - Customized Hinge
 - Latent & Dynamic Image
 - Positive/Negative embossing
 - Customized Clear Window



ePASSPORT PROJECT REFERENCES



Country	Projects
 Australia	Passport
 Armenia	Passport
 Canada	Passport (Printer)
 DRC	Visa
 Greece	Passport
 Indonesia	Passport
 Korea	Passport
 Lesotho	Passport (Printer)
 Malawi	Passport
 Mauritius	Passport (Printer)

Country	Projects
 Nepal	Passport
 Spain	ePassport
 Singapore	Passport, Visa
 Saudi Arabia	Passport (Printer)
 Tanzania	Passport (Printer)
 USA	ePassport
 Zimbabwe	Passport (Printer)



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Madrid	Toppan FutureCard Spain	c/ Alcalá 20 28014 Madrid, Spain
Hong Kong	Toppan Gravity Limited	Unit A, 20/F, Lee & Man Commercial Center, 169 Electric Road, Hong Kong
South Africa	Toppan FaceTech	1st Floor, Block B Southdowns Office Park, cnr John Vorster and Karee Streets, Irene X54, 0157, South Africa
Taiwan	Toppan iDGate	6F., No. 1, Ningbo E. St., Zhongzheng Dist., Tai- pei City 10093, Taiwan (R.O.C.)



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