



BORDERGUARD™

Land and Sea

Modernizing and
digitalizing land
and sea borders



Trusted by border agencies worldwide

With vast experience in border control, IDEMIA Public Security serves more than 30 government agencies worldwide, and has developed operational solutions that comply with both national and international regulations. Our solutions are currently helping government agencies at many land and sea borders around the world: for example, in Iceland, the Netherlands, the USA, and Asia.

In order to meet the specific requirements of the varied border-crossing points, we provide a fully scalable suite of products and services. This suite is modular and interoperable and enables governments to optimize the design of their unique border control solution. To ensure you are opting for the most efficient solution, our UX experts are able to conduct ad hoc studies and analysis to assess your border control environment.

We strongly believe biometrics are a key enabler to help secure borders while ensuring a pleasant border-crossing experience for travelers. Our algorithms regularly rank in the top tier across many modalities and multibiometric solutions in NIST evaluations. They are often called the most accurate, fair, and consistent algorithms in the market, and are able to process the varying traveler profiles with the highest level of security.



Understanding the specific context of land and sea borders

Managing the complexity

Land and sea borders are particularly at risk of being used as countries' main entry/exit points by human and wildlife traffickers, as well as fraudsters. Hence, government agencies are continuously working to enhance the quality of checks at land and sea borders, while not impacting the legal entry of, for example, cross-border commuters. The use of high-performance equipment and processes is vital in increasing the identification of ill-intentioned individuals while improving the experience for bona fide travelers.

When securing land and sea borders, a large variety of use cases have to be managed. Land and sea borders are highly dependent on heterogeneous local infrastructures, such as highways, secondary roads, ferry ports, cruise terminals, cargo docks, and train stations. The space and geographical configuration of the site usually generates unmodifiable constraints.

Border agents must check and clear:

- Incidental travelers, which can lead to a seasonal peak during high tourist season.
- Professionals (international truck drivers, cargo vessel crews, etc.) who need to cross the border frequently and who can sometimes represent the majority of the flow.
- Border residents that cross the border regularly, sometimes on a daily basis.

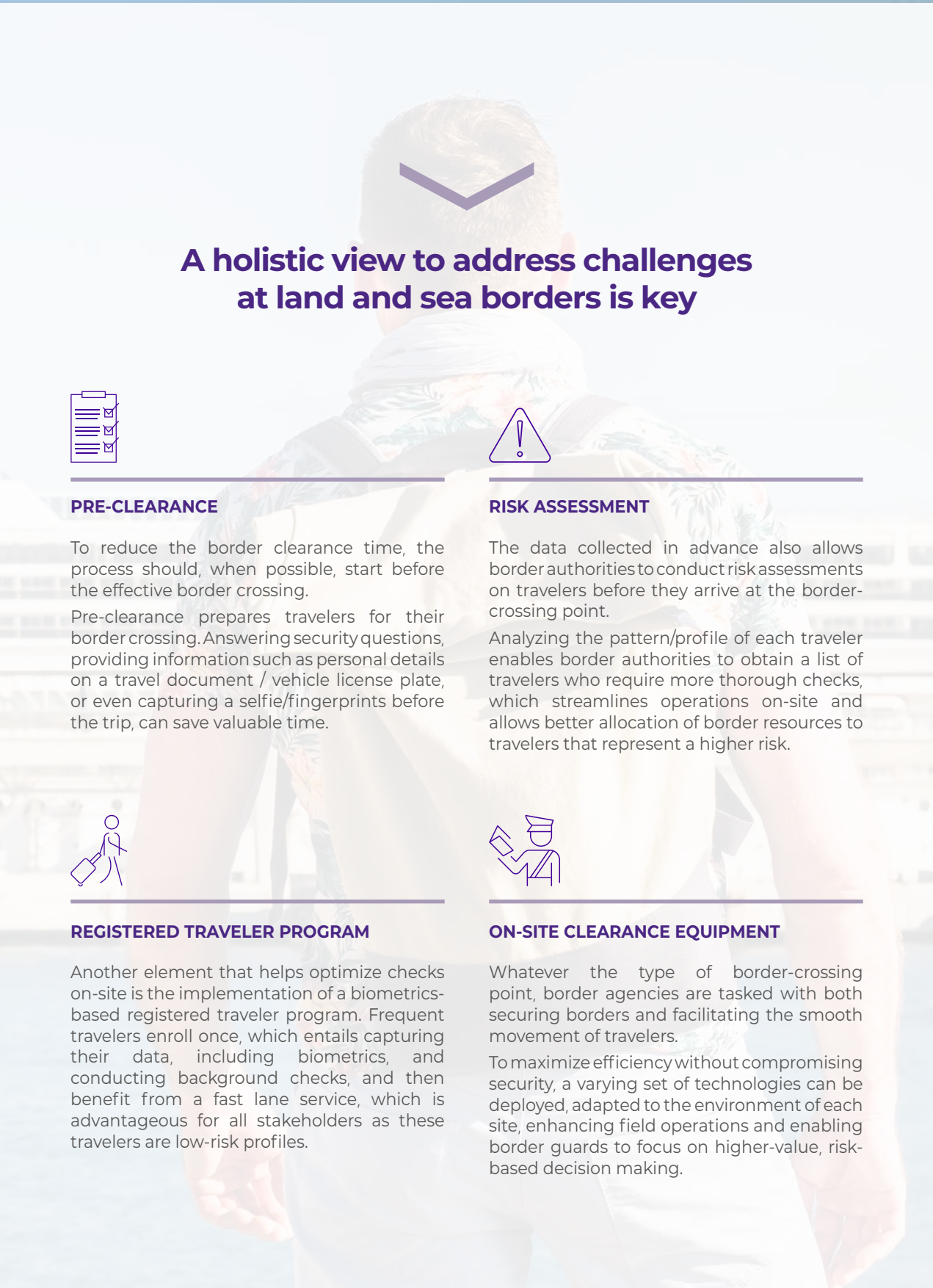
Some of these travelers are nationals, some are visa holders, and others are visa exempt, each category has a specific border clearance process.

Travelers use diverse transportation: cars, trucks, buses, ferries, cruise ships, etc. How do border guards check the identity of travelers in such a variety of transportation methods? Should they venture inside the mode of transport, or should travelers debark to be checked in a dedicated zone?

And what is safer and more efficient for border guards? Should they use a fixed system, or should they have mobile tools?

Given the variety of situations, a one-size-fits-all solution is not a sustainable option. To support government agencies in their efforts to secure local borders, IDEMIA Public Security has tailored its border control suite of products and services to help tackle the challenges of land and sea borders.





A holistic view to address challenges at land and sea borders is key



PRE-CLEARANCE

To reduce the border clearance time, the process should, when possible, start before the effective border crossing.

Pre-clearance prepares travelers for their border crossing. Answering security questions, providing information such as personal details on a travel document / vehicle license plate, or even capturing a selfie/fingerprints before the trip, can save valuable time.



REGISTERED TRAVELER PROGRAM

Another element that helps optimize checks on-site is the implementation of a biometrics-based registered traveler program. Frequent travelers enroll once, which entails capturing their data, including biometrics, and conducting background checks, and then benefit from a fast lane service, which is advantageous for all stakeholders as these travelers are low-risk profiles.



RISK ASSESSMENT

The data collected in advance also allows border authorities to conduct risk assessments on travelers before they arrive at the border-crossing point.

Analyzing the pattern/profile of each traveler enables border authorities to obtain a list of travelers who require more thorough checks, which streamlines operations on-site and allows better allocation of border resources to travelers that represent a higher risk.



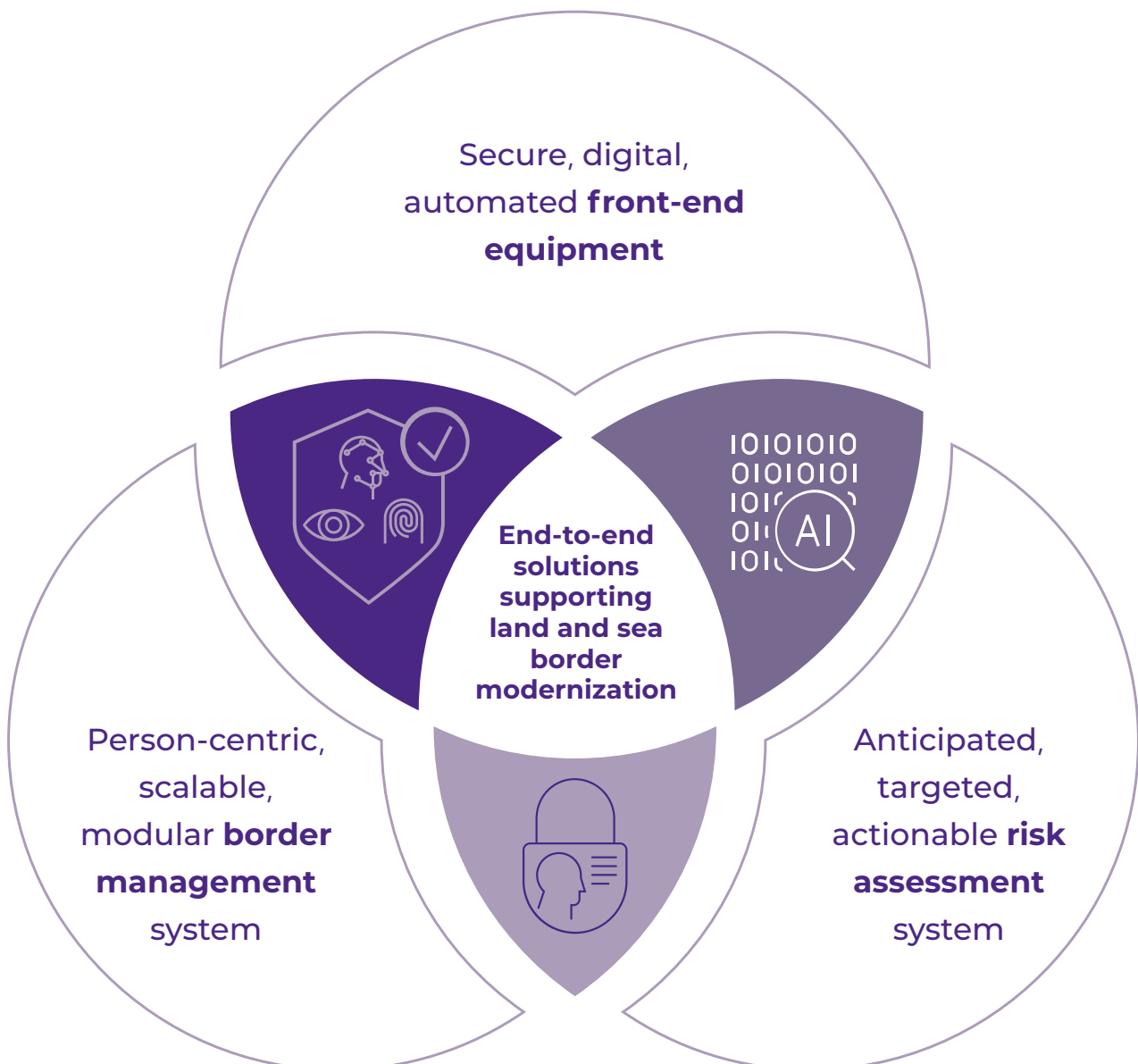
ON-SITE CLEARANCE EQUIPMENT

Whatever the type of border-crossing point, border agencies are tasked with both securing borders and facilitating the smooth movement of travelers.

To maximize efficiency without compromising security, a varying set of technologies can be deployed, adapted to the environment of each site, enhancing field operations and enabling border guards to focus on higher-value, risk-based decision making.

2 > One-stop-shop for modern and digital land and sea borders

The BORDERGUARD™ suite is the perfect answer to the digital transformation of land and sea borders. Powered by state-of-the-art technologies and designed as commercial-off-the-shelf, interoperable modules, the suite improves operational efficiency and increases national security while streamlining traveler flow.



a Secure, digital, automated front-end equipment

Fixed solutions

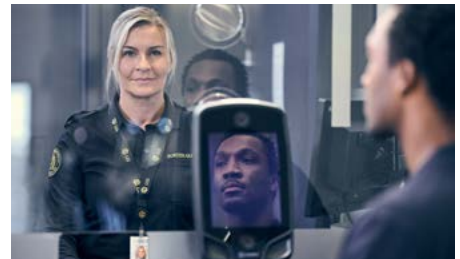
BORDERGUARD™ Kiosk

The multibiometric self-service kiosk allows reliable immigration pre-checks before a traveler's effective border crossing at a counter or eGate. It can also function as an autonomous, complete border clearance touch point, increasing throughput.



BORDERGUARD™ eCounter

A comprehensive and modular solution enabling border officers to perform all tasks efficiently, from data capture to identity verification, and informed decision making.



BORDERGUARD™ Lane

Designed in three different versions, this field-proven multibiometric and fully automated border-crossing solution enables high-processing capability of all traveler profiles, increasing throughput and boosting passengers' convenience without compromising security.



BORDERGUARD™ Conveyance

A breakthrough solution, engineered to adapt to operational realities—such as varying infrastructure layouts, traveler categories, and vehicle types—it provides a comprehensive approach for automated, secure, and efficient in-vehicle traveler processing.



BORDERGUARD™ SmartLane

This innovative solution enables real-time facial identification of individuals and groups without stopping. Whether deployed pre-border for early risk screening, at the border for trusted traveler processing, or post-border in customs zones, it adapts dynamically to the environment and threat level.



Mobile solutions

BORDERGUARD™ Capture SDK

A multibiometric solution designed to give mobile border units the capability to perform fast, accurate identity verification anytime, anywhere. Easy to integrate into existing agency applications, it is available in three configurations to fit various operational needs.



Tablet and portable case

Handheld tablets or portable, ruggedized cases offer border guards the flexibility to perform biometric enrollment and identity verification with ease. Designed for field operations, these mobile solutions enable secure, on-the-spot checks and can help by adapting to shifting operational needs.



Monitoring solutions

BORDERGUARD™ Supervisor

Available in centralized and decentralized configurations, this modular and scalable software solution provides border guards with a synthetic overview of all travelers' data, checks, and results of the clearance process at Automated Border Control (ABC) gates, enabling them to focus on alerts and exception management.



BORDERGUARD™ Dashboard

Leveraging cutting-edge, open-source commercial-off-the-shelf modules, this software solution provides comprehensive management of both fixed and mobile equipment and IT infrastructure in use at borders. By providing real-time alerts and operational reporting, it ensures that critical systems operate at peak performance.



Biometric devices

OneLook™ Gen2

This best-in-class, multibiometric identity verification solution offers accurate face and iris capture and biometric matching in a single device for a group of travelers at the same time, a line of travelers on the move, and a traveler moving at speeds exceeding 6km/h.



MorphoWave™ TP

A unique biometric solution of its kind, it offers contactless, on-the-move ten-fingerprint capture (four fingers simultaneously and a thumb), in any direction, with a simple swipe of the hand.



MTop Slim

This is the smallest sensor of its kind for simultaneous four-fingerprint capture and matching, with highly accurate, integrated fake-finger detection.



MFACE™

Walk-through, multi-face capture with high matching accuracy and anti-spoofing capabilities, it uses ambient light and does not require height adjustment.



BORDERGUARD™ Totem

Intuitive and ergonomic, it achieves fast, accurate frontal, illuminated, and tightly framed facial image capture at eye level, speeding up the clearance process at immigration counters.



b> Person-centric, scalable, modular border management system

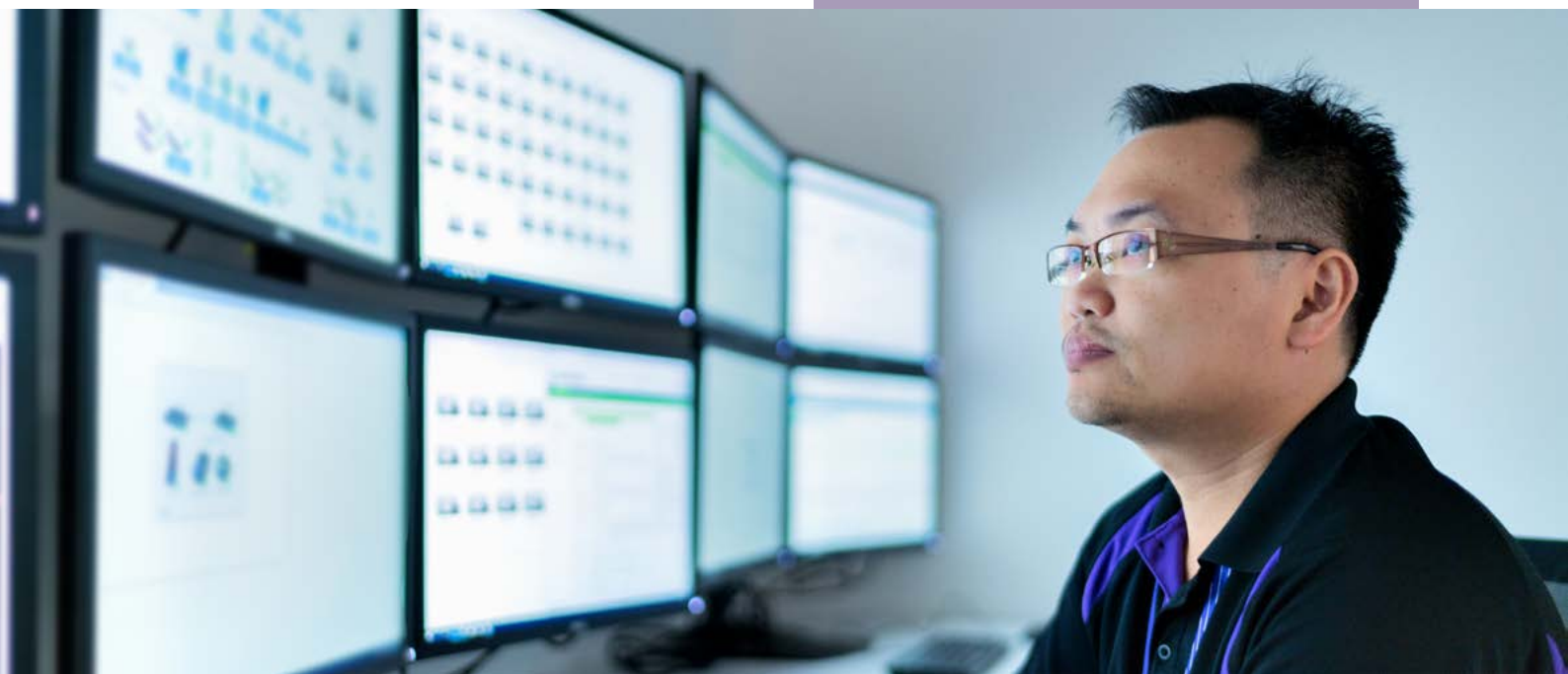
An efficient border control solution needs a stable and reliable backend to ensure the continuous management of borders. An Entry/Exit system (EES), at the heart of it, typically relies on external sources of data such as national and international watchlists, visa databases, and population registers.

Interoperability is key to interconnecting the different information sources and expediting the clearance process. Powering the EES with a biometric search engine can enhance its efficiency.

IDEMIA Public Security's BORDERGUARD™ Intelligence helps governments move from a document-centric approach to a person-centric approach. This EES, backed by our state-of-the-art biometric engine, permits a better understanding of travelers' movements and enables border guards to make insightful decisions based on the traveler's complete profile.

BORDERGUARD™ Intelligence key features:

- Comprehensive history: records and analyzes all entry and exit movements
- Customizable business processes adapted to the specific traveler category
- Integrated and real-time management of all border-crossing points
- Flexible architecture to meet country-specific needs (e.g., local infrastructure vs. fully centralized system)
- Can be provided as an entire solution or as an add-on for existing systems
- Future-proof, highly modular, and easily scalable
- Designed for high availability and data security



C > Anticipated, targeted, actionable risk assessment system

An efficient risk assessment system is a real game changer in the decision-making process at borders. It enables governments to anticipate risks by processing and analyzing passenger data ahead of the traveler journey. This data can be collected from carriers, but it can also come from pre-clearance questionnaires and forms filled out by travelers. This allows border guards to focus on those that pose a real risk without interrupting the journey of bona fide travelers.

BORDERGUARD™ Targeting addresses all of the critical steps of an effective passenger data management project. It helps government agencies understand, detect, and identify suspicious travel patterns of individuals presenting themselves at the border.

BORDERGUARD™ Targeting key features:

- Reliable collection and real-time processing of large data
- Customizable business rules
- Smart data analytics and alert management
- Simple and intuitive operator interface
- Real-time adjustment to new threat patterns, minimizing false alerts
- Modular and highly available architecture
- Interoperable and easy to interface with existing border control systems



d> A complete set of services

IDEMIA Public Security provides a comprehensive set of services covering every stage of projects' lifecycle — from design and build to run, maintain, evolve, and innovate — that help border authorities anticipate risks, deploy seamlessly, and operate with confidence.

- **Design & Build services** ensure projects are aligned with operational needs and regulatory requirements, while reducing the risks of integration and deployment delays.
- **Run & Maintain services** safeguard day-to-day reliability through managed services, monitoring, corrective and preventive maintenance, and lifecycle upgrades — keeping systems efficient and compliant even as passenger volumes grow.
- **Evolve & Innovate services** provide the flexibility to introduce new features, pilot emerging technologies, and adapt to future border control needs without disruption.
- **Supporting services** such as training, manpower, and CSR initiatives strengthen operational capabilities, ensure inclusivity, and optimize the use of resources.



By combining technology leadership with proven service delivery, IDEMIA Public Security acts as a one-stop partner. Our approach supports every land and sea border environment and all traveler categories, from pedestrians to vehicle passengers.

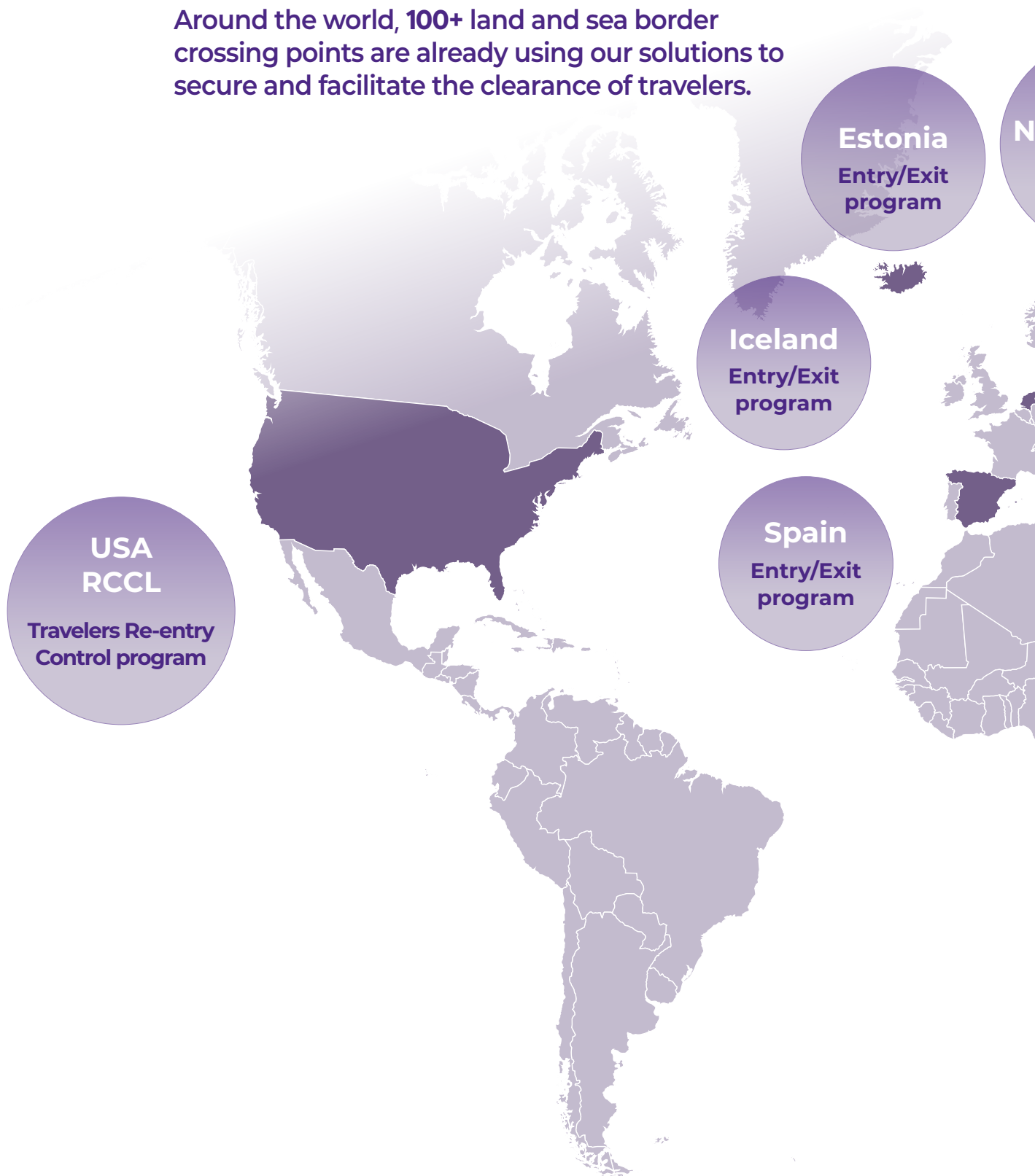
This ensures that security, compliance, and operational performance go hand in hand, while delivering a smooth and efficient traveler experience.



3 >

Trusted worldwide to protect land and sea borders

Around the world, 100+ land and sea border crossing points are already using our solutions to secure and facilitate the clearance of travelers.





Unlock the world, **make it safer.**