



NATIONAL IDENTITY CARD

Connecting physical documents
to digital identity services





The importance of the identity market

We live in a globalized world where an official proof of identity plays a significant role for governments and citizens. Identity allows people to exist in the eyes of society. They need it to prove who they are and where they come from, and be able to fulfill their civic duties.

Without a proof of identity, citizens cannot access basic human rights such as healthcare, education, social welfare and the right to work. Yet today, 1.1 billion people in the world do not have a legal identity.

Today, it is more crucial than ever to have a trusted identity in order to cross borders.

Government needs and issues

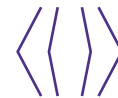
Governments have the ultimate responsibility to provide citizens with reliable identity documents. In addition, delivering a secure solution so that individuals can access government services conveniently is a top priority. Protecting citizen identity and offering a robust and long-lasting solution is crucial.

How to guarantee the security of a national ID card?

- > By creating a national identity system that ensures **data** is **accurate**.
- > By ensuring fraud prevention through the use of **advanced security features** and **secure operating systems**.



There are many considerations to bear in mind when building or updating a management system. In today's digital world, an ID card must invoke trust while maintaining a sense of privacy and protection. For governments, choosing a partner who is capable of managing the complex requirements, including technological and financial, is paramount.



IDEMIA specializes in working with governments and helping to modernize public infrastructures. Our response is to issue a modern and reliable ID document that complies with international and/or local regulations. As a leader in biometrics, IDEMIA has decades of experience in providing citizens and governments with a complete range of identity documents that enable secure access to eServices.

Civil identity end-to-end solution

We manage the **entire value chain** including the provision of secure documents, systems and services. Depending on our customers' needs, we provide selected features of the identity solution, or a complete, autonomous end-to-end system. As a trusted and long-standing partner, we offer our clients the peace of mind of a well-run concession by handling technology complexities and finances.

Enrollment

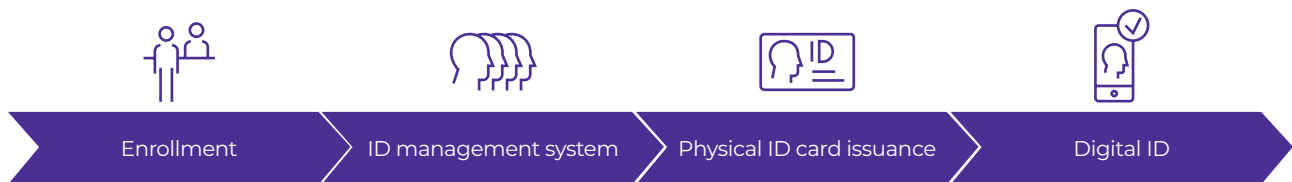
Enrollment is one of the first and most critical steps when creating an identity solution. IDEMIA has all the necessary technical and operational capabilities.

Your needs	What we offer
Reliable and secure data acquisition	Full range of devices to capture: <ul style="list-style-type: none"> Multi-biometric data (fingerprint, portrait and iris) Alphanumeric data
Difficult access conditions	<ul style="list-style-type: none"> Experienced teams in the field Mobile enrollment devices (for remote areas)
Time constraints	Experience in mass enrollment within a short timeframe

ID management system

Creating an ecosystem to manage a population's identity is key to delivering robust ID credentials. IDEMIA provides an end-to-end identity management solution which includes a unique and secure legal ID that is valid from birth and throughout life.

Your needs	What we offer
A trusted identity	End-to-end ID management solution
Pooled source and information data, no duplications	Multi-modal biometrics recognition (fingerprint, face, iris)
Scalability	Capability to manage high throughput and large databases
A flexible solution	Modularity of the ID management system
A future-proof solution	A solution that supports Open Standards (SIA Open Standards API)



Physical ID card issuance

States may already have manufacturing and printing capabilities, or need the full document (blank or personalized). Either way, IDEMIA develops solutions tailored to match their needs.

Your needs	What we offer
Expertise in enhancing security of IDs	Expertise in document design based on unique patented security features
Components, blank documents	Entire document or components: secure OS, inlays, wafers, etc.
Personalization expertise: equipment, software, PKI, etc.	Competent personalization and data management
End-to-end solution that includes manufacturing, personalization, distribution and maintenance	Experience in building solutions from scratch

Digital ID

Governments want to provide citizens with a digital solution so that they can access eServices securely anywhere, anytime. IDEMIA has deployed the first secure digital ID solution on the market.

Your needs	What we offer
Trusted digital solution that complies with government security requirements	Expertise in online identity proofing and multi-factor authentication
Off-the-shelf or tailor-made solutions for different use cases and government needs	Selection of different types of enrollment and authentication solutions using biometrics and data proofing

Electronic national identity document

IDEMIA is a front runner in developing tailor-made ID solutions. We provide expertise in the most advanced security features and applications on the market. This guarantees that citizens receive reliable documents that protect their personal and biometric data.



A long-lasting document

ID cards are usually valid for ten years, so durability is key for governments. We use a polycarbonate material that makes the ID documents robust and durable. Polycarbonate cards are made up of layers of plastic that overlap and intertwine.

Separating the layers of polycarbonate is impossible, because they are fused together at a high temperature under immense pressure.

As the polycarbonate document cannot be delaminated, it is nearly impossible for fraudsters to falsify the document without destroying the card completely.

This ensures that all biographical data engraved in the card body along with other secure components remain secure.



A fraud-proof solution

An ID document should resist all types of fraud such as counterfeiting, forgery, or theft of a blank document. Fraud is constantly evolving which means that security features need to evolve too.

IDEMIA is always one step ahead of fraudsters. We offer advanced security features that are easy to inspect but hard to reproduce.

Depending on a country's use cases, single or multiple security levels are necessary. Some of the main security features we offer are:

- **Protection of colored photo** (LASINK™)
- **Preventing photo substitution** (Stereo Laser Image)
- **Securing both photo and data** (DocSeal)
- **Security printing techniques and special inks** (UV and optical variable devices)
- **Unique visual effects** (holograms and use of lenses for 3D effects)
- **Clear window**



The latest security and cryptographic features for OS

Specifically designed for stringent government identity needs, IDEMIA's secure OS offers the best levels of interoperability and security. This is based on the latest Java Card, Global Platform and Common Criteria specifications.

Our in-house OS features the latest cryptographic functions. It offers a range of memory sizes for applications and personalization data.

In order to ensure product availability, IDEMIA's secure OS supports contact and contactless protocols as well as the main applications on the market, such as IAS-ECC, ICAO EAC and PIV.

IDEMIA's secure OS is certified:

- **FIPS 140-2 level 3** (for US Federal Market)
- **Common Criteria EAL5+ Open platform**
- **Common Criteria EAL5+ for qualified signature** (eIDAS compliant) **and travel application**

IDEMIA is actively involved in industry standardization committees and security evaluations.



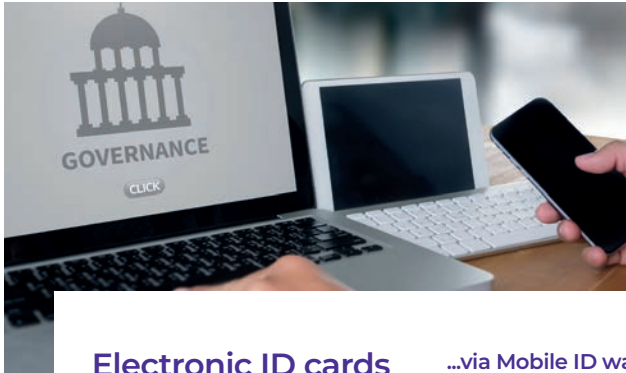
Secure electronic ID cards for Estonian citizens

Estonia, one of the most digitalized governments in the world, selected IDEMIA to strengthen their electronic ID cards and deliver personalization services.

The project started in 2018, and 3.5 million contactless cards will be delivered over a five-year period. The ID cards display a combination of the most high-end, unique security features available on the market—like the patented LASINK™ and, a transparent window with a personalized pattern.

Digital transformation

In the modern world, proving your identity is becoming increasingly dematerialized. Citizens are looking for secure, fast, and convenient ways to register, authenticate, sign and access public and private services. Governments play a crucial role in providing citizens with a trusted digital ID that is derived from an official national document. This provides the foundation for the digital transformation.



IDEMIA is the trusted partner in delivering a digital identity that complies with the security requirements at a governmental level. The electronic identity document is the key to accessing eServices, benefiting from the most advanced security and identity proofing features available on the market.

Electronic ID cards enable access to eServices...

...via Mobile ID wallet

Our mobile ID wallet solution is based on a wide range of enrollment scenarios:

- Phone number verification
- Document authentication as part of Identity Proof Verification (IPV)
- Verification with governmental system of records
- Selfie-check with liveness detection using multiple patented methods

Multi-factor authentication (PIN, fingerprint, face recognition) allows the design of a solution for citizens under robust security protection (PKI) and in compliance with international standards (eIDAS, NIST). This gives flexible access anywhere, anytime.

... via mobile NFC or your PC

Electronic ID cards provide secure access to eServices via NFC technology on your smartphone or tablet, or directly using your reader and notebook.



Digital mobile ID for the Netherlands

IDEMIA has been helping the Netherlands deliver identity documents to its citizens for many years. The Dutch Government wanted to extend its services by offering more digital solutions. In 2018, we successfully launched a digital, mobile government solution called vID (virtual ID).

vID is used for in-person verification for public and private sectors (for example, it can be used to purchase age-restricted items), as a government application to access eServices, and as an official travel document.

eID, or its digital companion, enables governments to provide their citizens with a variety of public services more conveniently than ever before:

- Online authentication and qualified electronic signature
- Public sector use: eTax declaration, eJustice, eSocial benefits, eVoting, ePublic transportation
- Private sector use: eBanking, eInsurance, eCommerce
- Both for public and private uses: eHealth and eEducation

We enable a digital transformation for state authorities, as well as citizens, in order to allow secure ID verification anytime, anywhere thus:

- Decreasing administrative expenses
- Ensuring consistent quality of information
- Reducing data errors
- Enabling efficient identity verification
- Saving time for citizens
- Motivating citizens to actively participate
- Allowing 24/7 access to eServices

Why IDEMIA?

We respond to a wide range of needs in different markets. We provide field-proven technical solutions, and we have the capacity to manage large-scale projects under all operational conditions within short timeframes. Staying ahead of the identity evolution is a core belief, and our solution has enabled governments to officially recognize millions of people.



3+ billion
identity documents
issued worldwide



135+ active
ID management
programs across
the world

Supplying secure biometric documents to Albanian citizens in tight lead times

In 2008, Albania signed a concession contract with IDEMIA for an end-to-end eID solution, from design and personalization to management of citizen enrollment and identity document distribution. In five months, 800 people were hired and trained, the visual design of the ID document was created, the personalization center was ready, and over 400 enrollment offices were set up throughout the country. This allowed the government to be ready for the parliamentary elections in 2009. The solution also includes development of the eTrusted ID platform that provides access to eServices. Thanks to IDEMIA's capacity to deploy large-scale projects with very short lead times, the customer renewed the contract until 2023.

End-to-end secure ID management in Chile

The Chilean Government wanted to offer its citizens high-quality biometric ID documents and a trustworthy ID management system. Chile collaborated with IDEMIA and signed a ten-year Build Operate contract. IDEMIA's services cover the entire value chain, from registration to maintenance and operations. We currently provide Chile with a secure, end-to-end ID management system that includes the production of biometric ID cards.

IDEMIA is a recognized trusted partner for government identity programs worldwide:

Europe:

Albania, Andorra, Azerbaijan, Denmark, Estonia, Finland, France, Germany, Italy, Kazakhstan, Latvia, Lithuania, Monaco, Netherlands, Norway, Portugal, Slovakia, Slovenia, Spain, Switzerland, UK, Uzbekistan, etc.

Middle East and Africa:

Benin, Burkina Faso, Botswana, Chad, Côte d'Ivoire, Democratic Republic of Congo, Egypt, Ethiopia, Gabon, Kenya, Mali, Mauritania, Morocco, Nigeria, South Africa, etc.

Asia-Pacific:

Australia, India, Indonesia, Malaysia, Nepal, Taiwan, etc.

Americas:

Brazil, Chile, Colombia, Costa Rica, Panama, Peru, The USA, etc.



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idemia.com/market/public-security-identity



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