IDway

Digital ID solutions for governments

IDEMIA

An ID for an increasingly digital world

Our identity is the very essence of who we are. Governments around the world have the responsibility to provide citizens with a formal and legally recognized identity – be it in the form of a hard copy document or a unique, digital, and trusted identifier. This foundational identity is crucial for social and financial inclusion. It enables citizens to access basic human rights over the course of their lives such as education, healthcare and the right to vote. Using their identity, citizens are also able to get a job, open a bank account and cross borders.

However, globally over 1.1 billion people still do not have a legal identity and are therefore excluded from their basic rights as citizens.

In our increasingly digital world, a digital ID ecosystem not only serves the most mature identity markets, it also accelerates and facilitates citizen registration into national databases in less advanced markets. With a trusted digital ID, all citizens receive secure and convenient access to remote public and private sector services. To unlock the full potential of a digital ID program, providers must consider inclusion, security and privacy.

No matter the local digital ID needs, IDEMIA strives to provide bespoke solutions that are best adapted to the client's specific requirements.

Our clients

Ministries of Interior / Home Affairs

Central Banks

Ministries of Health

Ministries of Justice

Ministries of Education

Ministries of Transport

Transformation Departments

The role of governments

When it comes to implementing a digital ID program, protecting citizen data is paramount. While private multinational corporations are positioning themselves in the digital ID market, governments have the unique responsibility to ensure that citizens always come first by initiating a national digital ID program.

A government is the most legitimate entity that can:

› Ensure that each citizen benefits from the digital ID initiative and all related services.

› Build an entire ecosystem involving all stakeholders (public and private) to develop eServices and protect citizen access.

› Set up the correct legal framework to protect all citizens fairly and prevent digital ID function creep.

› Safeguard citizen data against potential threats coming from entities that may not be covered by the correct legal framework.
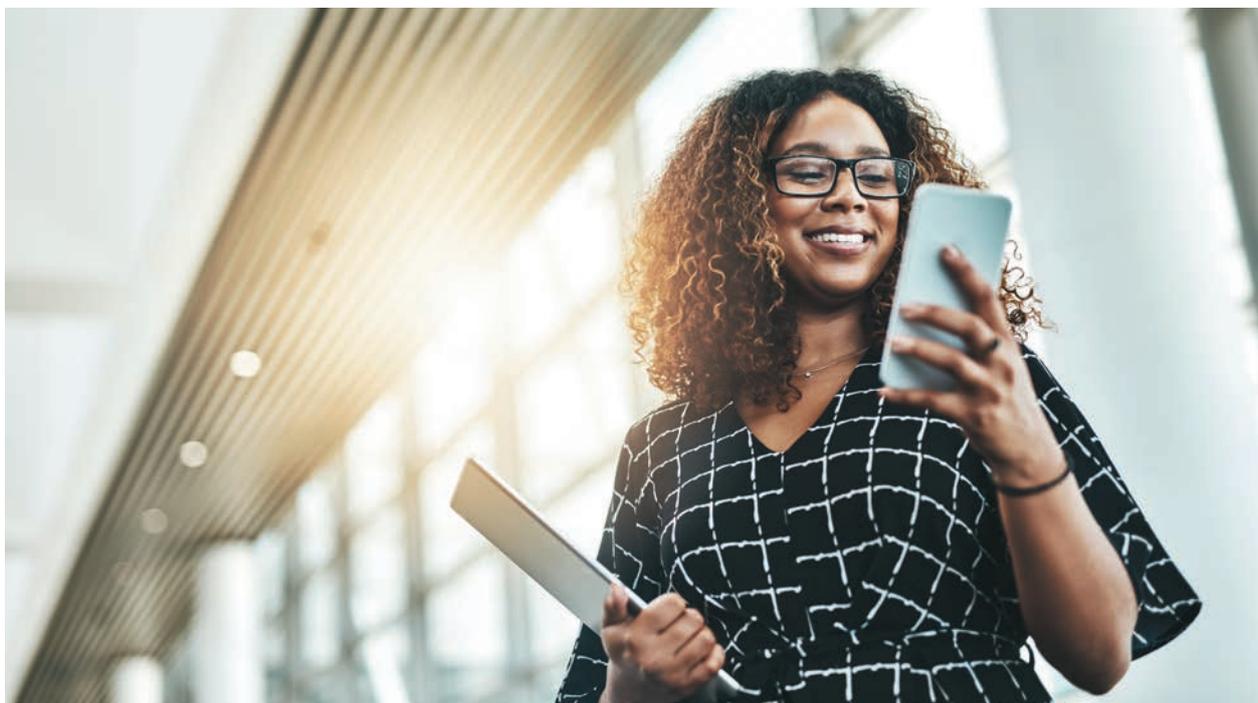
All government bodies from the ministry of interior and finance to health, education, and transport should invest in a secure, legal digital ID management system that not only protects citizens' data, but also corresponds to the country's regulations and specific needs.

Preserving the root of trust

A digital ID allows citizens to perform tasks such as content-based attribute sharing, using digital signatures and seamlessly performing secure authentication, whether online or using contactless systems in person.

Trust is key to ensuring the adoption of a digital ID program. Only governments can provide the highest level of confidence when creating digital identities – either on the basis of a pre-existing national databases and/or state-issued ID documents. Thus, governments preserve the root of trust and are able to issue a secure digital ID to each citizen.

A secure digital identity scheme must be defined and implemented in accordance with a country's specific public and private ecosystem. This allows citizens enjoy the physical and digital benefits of their identity in complete confidence and convenience. To achieve this IDEMIA provides governments and public entities with our expert advice and technological solutions available on the market.

We offer governments an end-to-end digital ID solution that is based on a modular approach supporting all countries, regardless of whether or not they have an eID document. This solution can be easily integrated with an existing infrastructure.

Leveraging an existing governmental database

Citizens provide their national identifier and then prove they are the person in question in order to obtain a digital ID. The digital ID is stored in either a secure national database or directly on the citizen's smartphone.

Leveraging a national ID document

Countries that have an ID document with a chip (eID):

With IDEMIA's technology, governments use the eID to create a digital ID for citizens. The eID can be read with a smartphone via contactless technology such as NFC or with a physical card reader. Citizens must then prove that they are the eID holder before obtaining the digital ID.

Countries that have an ID document without a chip:

IDEMIA has developed a specific solution for the remote authentication of such ID documents. Using a smartphone app, a photo is taken of the ID document and the app is instantly able to verify the document's authenticity and its validity.

Biometrics for a secure digital ID

Biometrics bring real added value to a digital ID, as they are the most secure method of authenticating a person's identity. We carry our biometrics with us at all times. They are unique, universal and verifiable, making them a convenient way to identify and authenticate people.

As governments are the legal and legitimate guardians of citizens' biometric data, they can leverage it to issue a digital ID, bringing the highest level of confidence.

Checking one type of biometrics is efficient, checking several biometrics is foolproof. Depending on a country's needs, fingerprints and/or face can easily be used as authentication factors on a smartphone.

IDEMIA's vast experience and trusted reputation in biometrics have made it a strategic player in the industry, from law enforcement uses and private authentication services to cross-borders cases. We are able to apply our expertise to address the different markets so that everyone can enjoy the security and convenience that comes with biometric technology. We are continually investing in and developing new biometric technologies to make sure we are always one step ahead, enabling us to thwart new attacks such as spoofing. IDEMIA has developed advanced technologies to perform liveness checks and was certified with the ultimate level of security, NIST iBeta Present Attack Detection Level 2.

Why is IDEMIA the partner of choice to implement biometric technologies?

We have many prestigious clients and are very proud to work alongside governments from around the globe. We have long-standing partnerships with Changi Airport, Interpol and numerous private corporations such as bank and mobile operators. We are currently assisting eu-Lisa with the implementation of the new biometric European Entry/Exist system that will go live in 2022.

| Biometric access control | Biometric payment authentification | Biometric recognition on mobile | Law enforcement | Seamless travel experience |

Data security and privacy

IDEMIA is constantly striving to make citizens' lives safer and easier. From the design of our solutions to their implementation, we focus on data security and privacy to ensure that citizens always benefit from our most advanced technologies. Our Digital ID solutions are compliant with the main security and data protection regulations such as eIDAS, ICAO, ISO etc. With IDEMIA IDway solutions, we protect citizens' data with role-based access control. The stored data is encrypted with our proprietary cryptography algorithms and their transfer is secured using the latest communication protocol. All our software libraries are frequently inspected to prevent any security failure.

IDEMIA's global personal data privacy policy is fully compliant with the European General Data Protection Regulation (GDPR). Our product and system design integrates the principles of privacy by design and by default. For instance, the following requirements are integrated:

› Consent management and management of personal rights (to information, rectification and suppression)

› Minimization of personal data

› Access only on a need-to-know basis

› Control of the data export outside the country

› Auditability of actions performed on personal data

In addition, we have put in place guidance documents such as the Data Protection Impact Assessment, which includes an analysis of the impact on private data. This analysis is carried out exhaustively on all projects when they are launched.

We also hold quarterly security and privacy committee meetings with the executive board to examine our policies and share best practices. An ethics committee can be called on to mediate sensitive issues when needed.
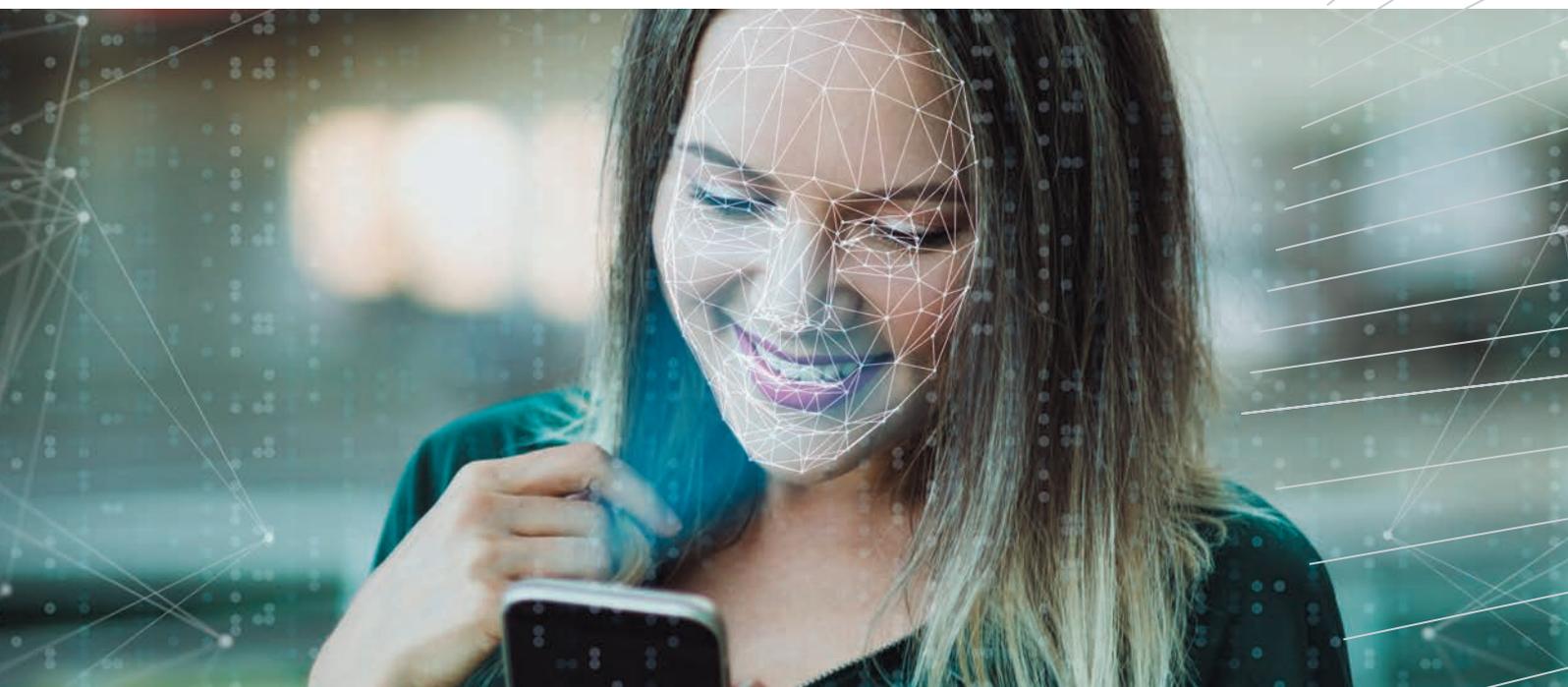
IDEMIA's digital ID success stories

India's Aadhaar program

One of our proudest references is India's Aadhaar project aimed at providing a foundational ID to each resident so that they can access services efficiently and securely.

In 2010, the national ID project was launched under the management of UIDAI (Unique Identification Authority of India) as the world's largest identity program. In order to create a single, reliable database of the Indian population, a 12-digit identification number is issued to each citizen. Each citizen goes through an enrollment process, during which a facial photograph, ten fingerprints and scans of the two irises are recorded along with the resident's biographical information (name, address, gender and date of birth). Once the enrollment is completed and the biometric data verified, the Aadhaar number is issued.

Service providers can instantly check the identity of a person by submitting the applicant's Aadhaar number along with their biometric data (such as fingerprints) to UIDAI.

To date, the program has issued more than 1.3 billion Aadhaar numbers, representing over 95% of the Indian population. Over 330 million bank accounts have been successfully opened and over 200 million payment transactions are processed every month.

During the 2020 sanitary crisis, the Aadhaar project successfully supported the government with regard to the reactivity and security for the distribution of government aid funds.

Oklahoma driver's license

In the US, stated-issued driver's licenses (DL) are used as the default proof of identity. Currently supplying physical DL to over 30 American States, IDEMIA was chosen to launch a digital DL system in the US.

Since 2018, IDEMIA has been working in collaboration with the Oklahoma Department of Public Safety (DPS), Oklahoma Office of Management & Enterprise Services (OMES) and Innovate Oklahoma, to develop a digital ID app called Mobile ID.

To preserve the root of trust, the digital ID is issued from the State's resident identity system of record at the Department of Public Safety. Based on this record, the Mobile ID app creates a virtual version of the physical DL on the individual's smartphone.

This application enables data sharing with a verifier app for such use cases as law enforcement road-side stops. Both the end-user application and the verifier app are compliant with the ISO/IEC CD 18013-5:2019 standard for personal identification with mobile driver's licenses.

The Mobile ID app opens a wide range of opportunities for Oklahoma residents such as secure access to online services, both public and private. It also has the potential to become a secure digital ID wallet, gathering other licenses such as a boating, fishing or hunting license.
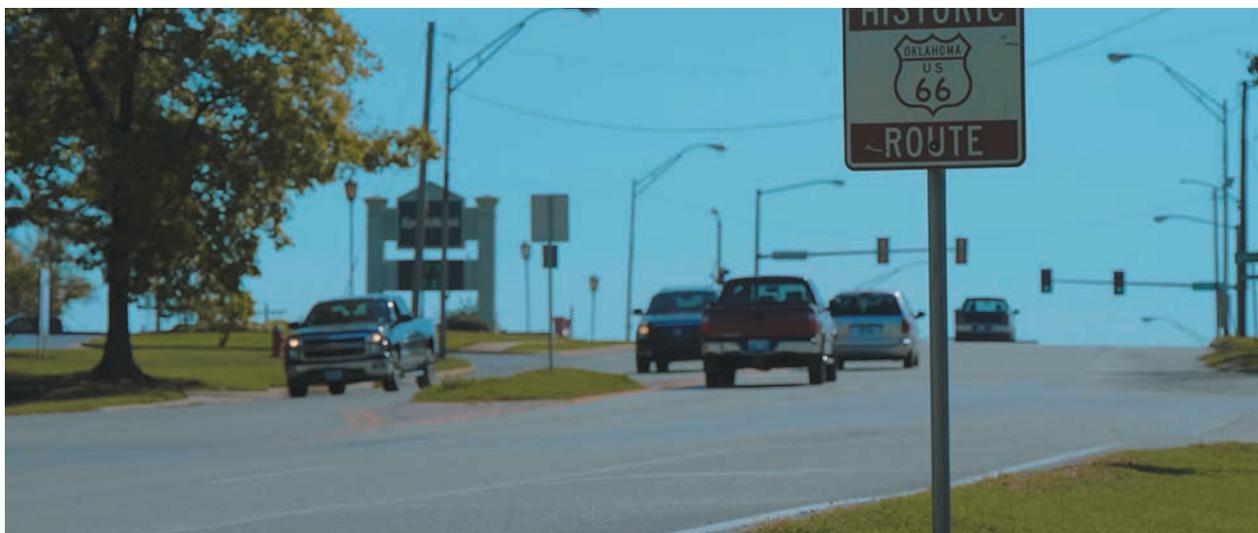
IDEMIA,
the ideal partner to implement
your digital ID solution

Long-standing experience in civil ID

IDEMIA is a leader in civil identity solutions with over 130 customers and over three billion identity documents issued worldwide. We have been working alongside governments around the world for over 40 years. IDEMIA currently runs over 30 digital projects worldwide, notably in Australia, India, USA, Colombia, UK and Nepal.
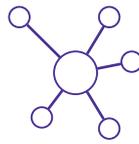
Flexibility

IDEMIA has a modular approach which allows the creation of tailor-made solutions that are based on the needs of the client. We offer an interoperable system-based, eID-based or device-based digital ID solution that can be easily integrated into existing infrastructures.
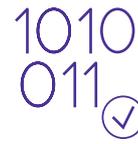
Technical know-how

At IDEMIA, we have extensive expertise in A.I., cloud solutions, cryptography, cybersecurity, advanced analytics and innovative sensors for biometric data capture. We have been assisting the Indian Government with the largest biometrics program and are a part of the team that is implementing the European Entry/Exit solution for the Schengen Area. Our algorithms, which consistently receive top ranking status from NIST, as well as our sensor technologies, combined with our end-product design and manufacturing expertise, make us the partner of choice for the most prestigious organizations.

40 years
of strong relationships with governments

#1
in civil identity solutions with 130+ customers

1.3Bn
people benefiting from Aadhaar in India, the world's largest biometric deployment, thanks to IDEMIA

Compliance

IDEMIA's solutions comply with all national and international standards and regulations such as eIDAS, LoA1, LoA2, NIST, ISO and ICAO-DTC. Our biometric liveness detection technology (active and passive) for identity fraud prevention and remote onboarding has been declared NIST iBeta Level 1 and Level 2 compliant.

Convenience

IDEMIA understands that a standard solution does not work for all countries. This is why we propose multiple onboarding processes, both in person and virtual. Our user-friendly solutions provide an enhanced user experience making it easy for governments to encourage citizens to engage in their digital transformation.

IDway Ecosystem to manage **citizens' IDs throughout their lives**

IDway compliant with **OSIA**

PRE-ENROLLMENT

UNIVERSAL PORTAL SYSTEM — **IUPS** IDEMIA Universal Portal System

UIN · Online/sync

UIN Unique Identity Number · Online/sync

ENROLLMENT

MOBILE — **FIXED**

MIMs Mobile Identity Multiplatform Suite

Mobile Identity MultiPlatform SUITE **MIMs**

MESA Multi-Enrollment Services Applications

UIN · Online/sync   UIN · Online/sync

IOPS IDEMIA Open Platform System

Online/sync · UIN

DIGITAL ID Digital onboarding Authentication, Digital ID management

DIGITAL ID

UIN Online/sync | Online/sync | UIN Online/sync | UIN Online/sync | UIN Online/sync

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ID MANAGEMENT

CIVIL REGISTRY	DATA ANALYTICS	POPULATION REGISTRY	BIOMETRICS RECOGNITION	CREDENTIALS MANAGEMENT	ID PERSONALIZATION SYSTEM
ICRS IDEMIA Civil Registry System	**IDAS** IDEMIA Data Analytics System	**IPRS** IDEMIA Population Registry System	**IBRS** IDEMIA Biometric Recognition System	**ICMS** IDEMIA Credentials Management System	PUBLIC KEY INFRASTRUCTURE

CREDENTIALS & PKIs

A trusted
digital identity
to make citizens' lives
safer and easier

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