



Powering the trust economy

Implement secure, next-generation
services to make your government
more effective, responsive, and agile.

Presented by

INPUT | OUTPUT

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What is the value of Atala PRISM for governments?

Traditionally, identity information is stored in centralized databases (government, federal agencies, civil registries, etc.) Multiple government agencies might hold multiple databases with information pertaining to the same citizen, with siloed repositories between ministries compounding the problem of authentication, as citizens have to be verified again and again within the same government environment.

This creates time and cost inefficiencies and a cumbersome experience. Worse still, these information repositories are inherently vulnerable to large-scale attacks. Data breaches can inflict considerable damage, not only in financial terms, but also in terms of reputation and future trust.

“ **A blockchain-based identity management system can address current identity-related issues, including data security concerns, and enable numerous efficiencies within government departments thus creating significant economic value.** ”

Governments can leverage mobile networks and distributed ledger technology (DLT) to provide secure digital identities and build smart cities, whilst protecting citizens' personally identifiable information and delivering citizen-centric services.

According to a **McKinsey study**, decentralized identity has the potential to bring significant economic value to emerging economies by uplifting their Gross Domestic Product (GDP) by 13% in 2030.

DLT also enables governments to go paperless and save time and valuable resources, thus seeing positive outcomes similar to the results of Dubai's paperless strategy: 130,000 trees and AED 900 million were saved. Another prominent example of a successful e-government initiative includes e-Estonia where 99% of governmental services are digitized. Another study by Boston Consulting Group (BCG) calculates that the economic value of digital identity for the Australian economy would be approximately \$11 billion per annum.

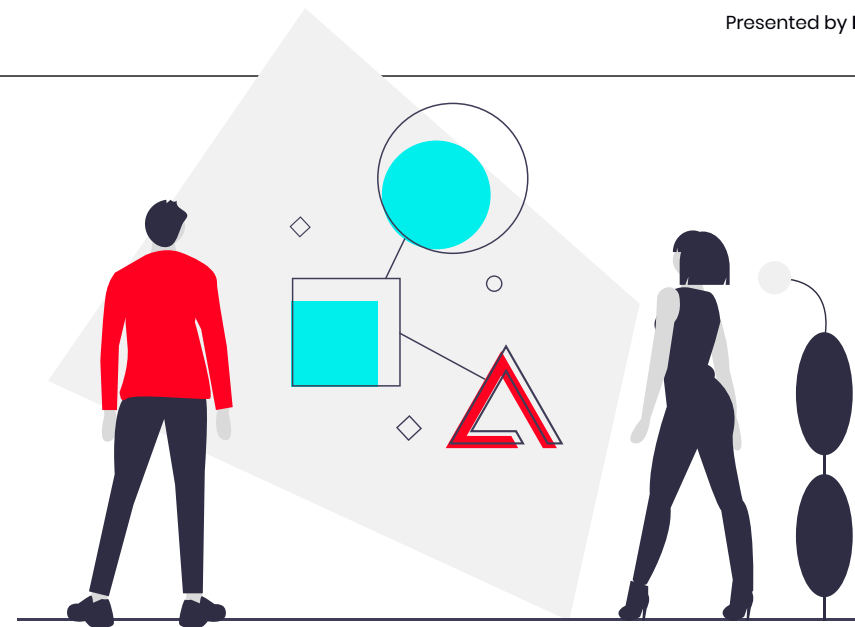
Four key areas where this value would come from:

- **Reduced cost to serve:** with minimum face to face, phone, and other verifications.
- **Reduced cost of fraud:** against citizens, businesses, and governments, including police-recorded fraud, prevention, and response.
- **Improved customer experience:** which would be also an uplift for e/m-commerce, targeted selling, and purchasing security.
- **Citizen value generated:** with less time spent verifying and authenticating, managing documents, and filling forms.

How can Atala PRISM power an e-government?

Atala PRISM enables seamless access to digital services provided by both the public and the private sector.

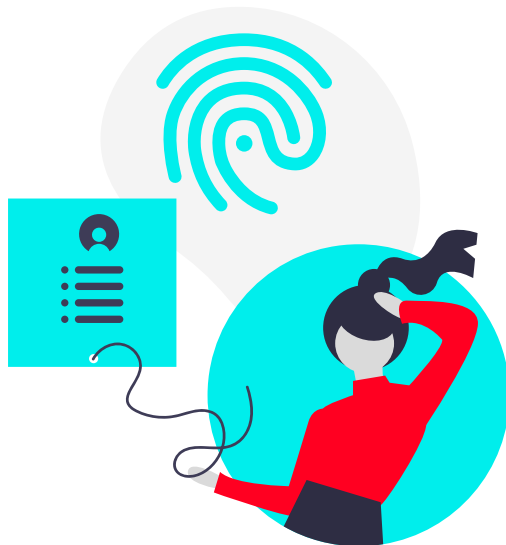
Various ministries can utilize Atala PRISM to improve access to their social programs, civil, medical, or education records, transportation, or even voting. Portable digital identity can further boost GDP with private sector improvements such as enabling one-click bank account sign-ups, instant access to insurance or e-commerce, access to the workplace, or facilitating membership or loyalty cards.



How does it work?

- 1.** Citizen downloads the Atala PRISM mobile app and registers an account. A unique and private decentralized identifier (DID) is created.
- 2.** The government verifies citizen's ID by scanning and recording their biometric data, and issues a cryptographically-signed digital ID credential, which is stored on the citizen's digital wallet and securely backed up in a personal data vault.
- 3.** The citizen can now automatically authenticate with any public or private service integrated with Atala PRISM (social programs, medical or academic records, voting, banking, insurance, etc.)
- 4.** Any third-party service provider can independently and confidently verify a citizen's identity and credentials, and onboard them onto their services more efficiently.

[Watch our Atala PRISM explainer video >](#)

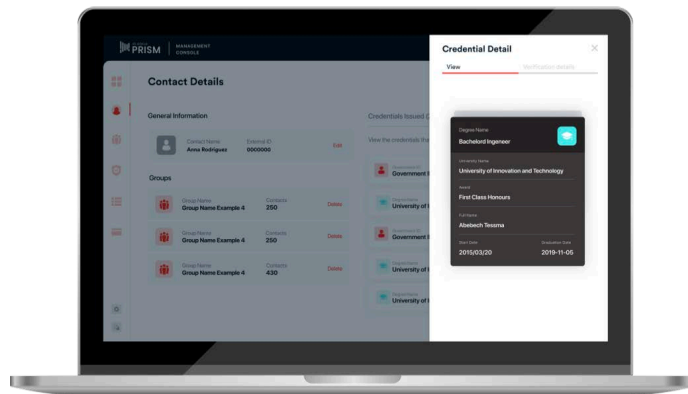


The Atala PRISM Platform

Government view

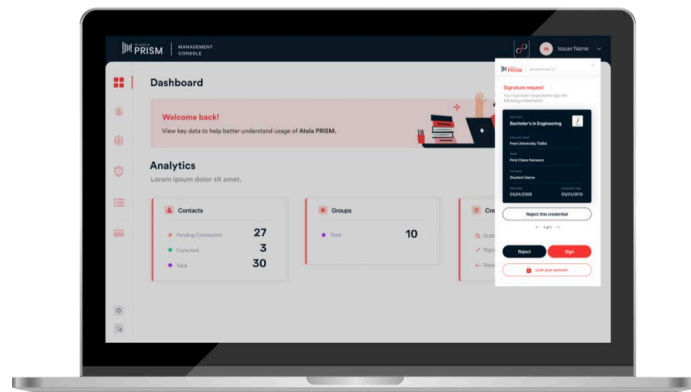
Browser Wallet

Web-based browser extension for managing DIDs, accessing the Management Console, and authorizing credential issuance.



Management Console

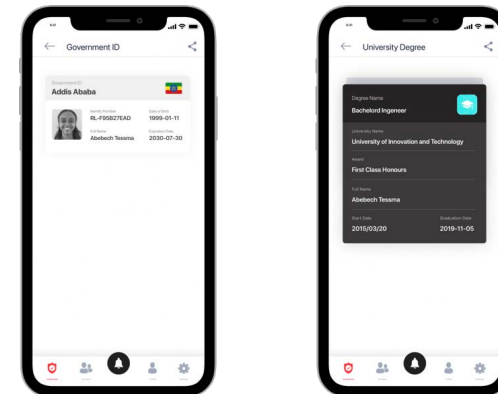
User-friendly, decentralized management platform to easily issue or verify citizens' digital IDs and credentials.



Citizen view

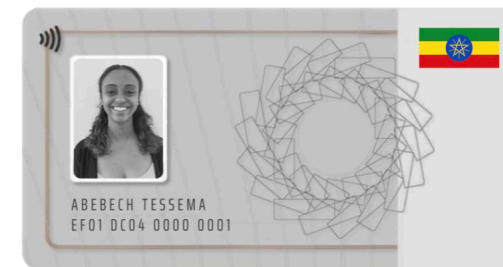
Citizen Mobile App

Customizable mobile apps for receiving, storing, and sharing digital credentials.



Citizen Smart Card

Low-cost smart card for receiving, storing, and sharing digital credentials for those who do not own a phone.



Coming Soon

Why is the Atala PRISM digital identity solution the best out there?

Designed for scalability: can scale to millions of individuals, organizations, or things.

Customizable: the underlying protocol can be optimized for different use cases.

Cost-efficient with predictable payment plan: based on a batching scheme to keep cost-per-user low.

Designed for high security: built-in resilience against high-risk data breaches, and prevention of data unavailability problems often encountered with competitor solutions.



What are some of the real-world deployments of Atala PRISM?

Input Output is working with the Government of Ethiopia to create the first government-endorsed digital identity solution based on Atala PRISM¹ with the ultimate goal of enabling financial inclusion.

We have also partnered with World Mobile Chain (WMC) to enable open finance in Tanzania first and then across Africa. We've teamed up with the Ministry of Education and universities in the Republic of Georgia to issue verifiable educational credentials to students, which can be managed through the Atala PRISM mobile app.

“ Our plan with this blockchain technology is to provide a digital ID for close to 5 million students. ”

*Minister of Education for Ethiopia, H.E Getahun Mekuria (Dr.-Ing),
April 2021.*



Watch the interview with Minister Mekuria on our **CARDANO AFRICA 2021** special.

Watch now

Contact us

We work with your team to:

- ✓ Help you understand decentralized identity and the bold opportunity it presents.
- ✓ Develop a Proof of Concept, built by a team of leading engineers who have designed some of The most advanced DLT protocols available.
- ✓ Deploy, manage, and scale your operations.

To learn more about **Atala PRISM** and how it can transform your organization, reach out to us directly at business.development@iohk.io

Founded in 2015, Input Output is an engineering company that builds blockchain solutions for government entities, corporations, and academic institutions. Underpinned by peer-reviewed science, we are building the first blockchain-based operating system that will enable global scale financial transactions and all forms of social exchange. We aim to put billions of new people and assets on the economic map, give 3 billion unbanked people an economic identity, track global goods from source to sale, and de-risk investment in emerging markets. Our ultimate goal is to expand social and financial services worldwide by digitally verifying people and assets that are off the banking grid, consequently doubling the consumer market.

