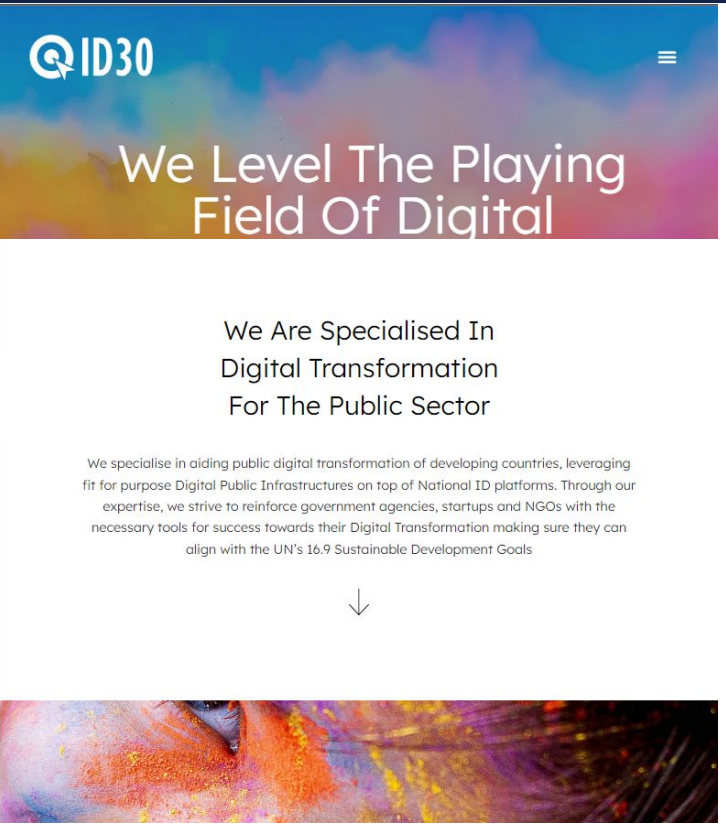
ID30 Introduction

We bridge the gaps of Digital Transformation

Jaume Dubois - April 2023

ID30 Pitch



Where are an **independent consulting firm**
Offering **Strategic and Operational advisory**

On **Digital Transformation**
And **National ID Platforms**

To **Developing countries**

We **Assist Public Authorities in driving <u>their own</u> digital agenda**
By **building long term and short term strategies**
On **technical, institutional and regulatory aspects**

And **operationally building capacities together with efficient, inclusives and sustainable systems**.

Current missions

Togo eID MOSIP based National ID system

In charge of capacity building plan

Advisor on design and procurement to ANID Togo (National Identity Agency)

GovStack Identity Building Block working group lead

Lead roadmap and implementation of Specs/API

Part of Technical and Product Committees, Ambassador of GovStack

Awareness and assistance to West African and East African countries on DPGs/DPIs and overall digital transformation.

ID30 - Customers

Public Authorities

Let ID30 be your partner as you embark on your digital transformation journey.

Allow us to help you uncover, specify, select and implement an ideal digital solution — one that is inclusive and will accommodate even the most remote areas of your nation.

Startups

We supports startups developing digital solutions for identification, civil registration, social systems, healthcare, ...

We recognise the remarkable value local innovation can bring to communities and are committed to fostering it.

Solution Providers

We support digital public goods initiatives with an ever-growing portfolio of open-source technology to cater for specific needs in the digital transformation spectrum.

We are uniquely qualified to help open-source technology developers by providing experienced marketing guidance, technical consultation and access to financing.

ID30 - Services

Country Assistance

From a simple consultation to designing a full strategy, preparing specification and assisting you until it rolls out nationally.

We will be beside you along your digital transformation journey at every step of the way.

Because we know your constraints, we optimize our service fees so that you can afford to count on us for a long time.

Solution Incubation

Our purpose is to cultivate innovations that are effective in even the most remote areas. Specific solutions need to be prepared for the last mile, they may emerge social ROI rather than economical.

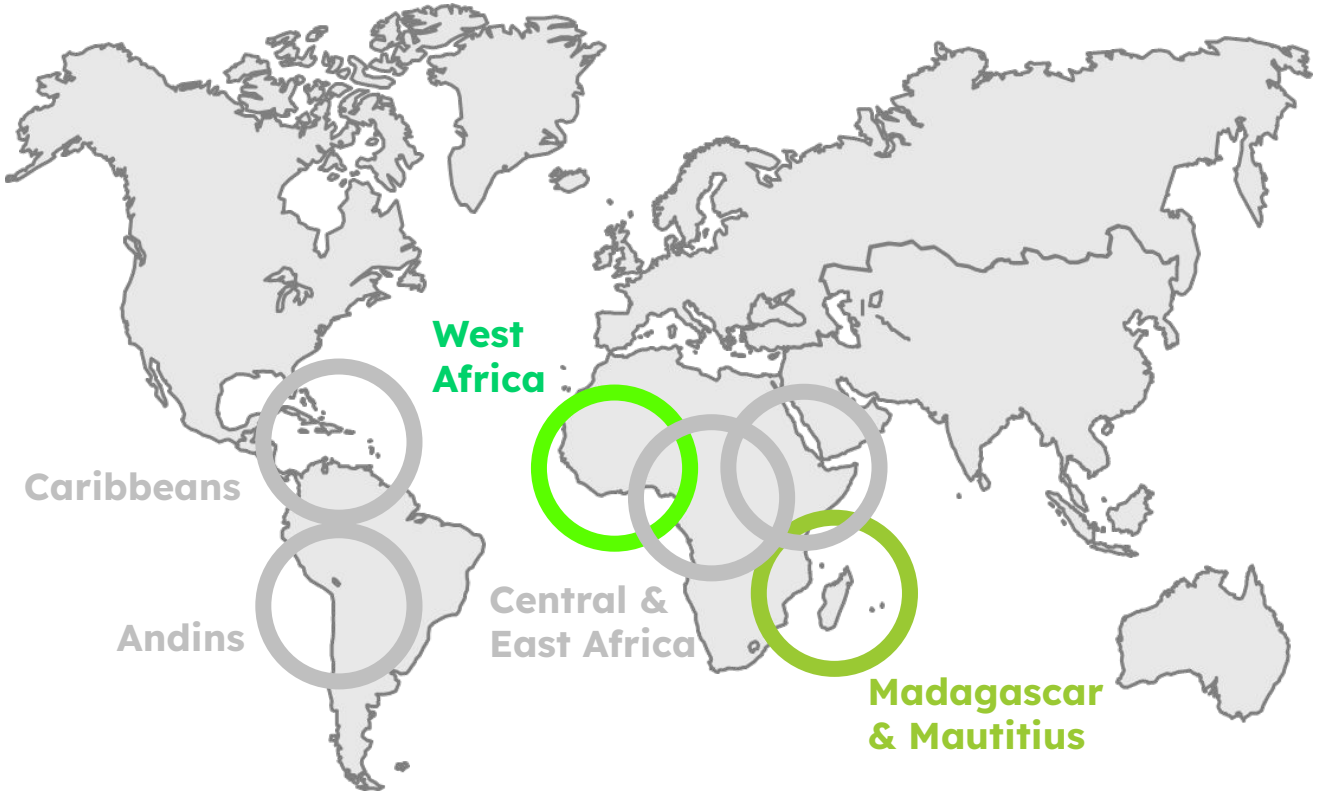
As part of our not for profit Lab, we align different solution providers around common innovations filling gaps of inclusion, adapting existing technologies to country environments.

Solution Seeding

Open solutions are a gift to the world, but they sometimes need help to be visible to the world and selected by promising adopters.

We support them on their Positioning, Marketing content preparation, Awareness and dissemination, so they can deliver efficiently their messages and engage on qualified opportunities for large scale adoptions.

ID30 focus areas



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ID30 - Solution Seeding

Our Work

1/ Our vision on procuring a National ID platform

2/ Our Labs projects for achieving our vision

1/ National ID platforms optimized RFPs split

SERVICES

Component 12
Transition of the system to the Government then operations to the recurring system operation services.

Component 11
Mass enrollment, system operation, card issuance and distribution services

Component 13
Integration with the ecosystem of public and private service providers

SOLUTION

Component 7
Biometric enrollment solution

Component 8
Identification software solution

Component 9
Card issuance and delivery solution

Component 10
Solutions for the use of identification

Component 3
Biometric enrollment equipment

Component 4
Servers and network for the identification solution

Component 5
Card printing equipment

Component 6
Biometric verification equipment

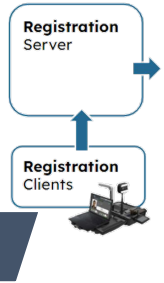
INFRASTRUCTURE

Component 2
Transversal systems for the operation (GRM, GED, Reporting, Billing, ..)

Component 1
Solution hosting infrastructure (hosting, network, ..)

ID30 Collective Labs - Concepts portfolio or projects for more #Efficiency, #Sustainability and #Inclusion

Nomad enrolment kit
(<5Kg, backpack, solar panel)



Offline on-boarding system (Collect & Transport data)

Minimized cost robust PVC Card
(plastic, QR code)

Feature phone based digital credential
(OTP, QR, 2G)

Feature phone based digital signature

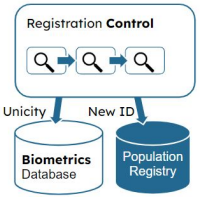
Multi-applications tablet with Authentication

Wireless POS multi-purpose device

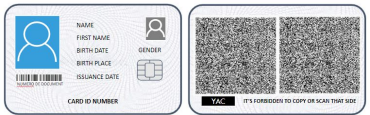
Enrollment | **Management** | **Issuance** | **Verification & Usage**

Multi-purpose lightweight kit
(<10Kg, Tablet, plug&play devices)

IDMS Light (low infrastructure footprint)



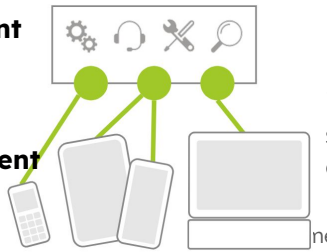
Device-less digital wallet
(Secure USB Key)



Value added digital enabling physical card

2G 1:1 online fingerprint match

2G based Government services



Multi-channel inclusive services access

ID30

ne@ID30.org

On-boarding - Equipments concepts

Nomad enrolment kit
(<5Kg, backpack, solar panel)

✅ #inclusion
✅ #efficiency
✅ #sustainability

That kit is **autonomous in term of energy** thanks to it **spare battery charged by solar panels**, thanks to its **storage in a back-pack**, it **can be carried anywhere** by bike, horse, small boat or even by walk.

Once on site **it includes all necessary accessories** to perform the capture.

Enrollment data captured can be afterward, either **sent through network** if available or either **exported on an external storage device** so that the kit **can go on doing more enrolments**.

Multi-purpose lightweight kit
(<10Kg, Tablet, plug & play devices)

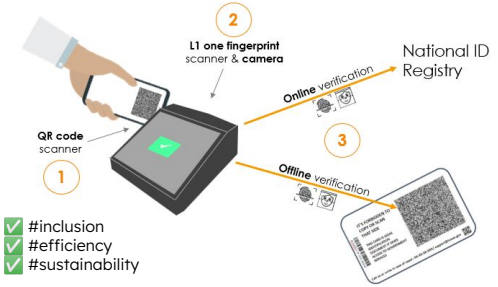
✅ #inclusion
✅ #efficiency
✅ #sustainability

That kit has a **small form factor** so it can be **carried and stored in the most remote place** as it's **designed to be used for long locally**.

It's **easy to maintain and use** as it's based on an **Android tablet**, it'll be chargeable by **external power sources** (could be **solar panels**)

It will be **used locally at start for enrollments** thanks to its **4-4-2 fingerprint scanner**, and once enrollment is over, the **tablet equipped with a one fingerprint scanner** can be u**sed for multiple administrative applications** thanks to its **large screen** and **bluetooth keyboard** (for example Civil Registration, Property registration, ..)

Multi-applications tablet with Authentication



✅ #inclusion
✅ #efficiency
✅ #sustainability

This tablet is designed to being a **generic element** to **securely interface the individuals to functional systems through their unique digital ID.**

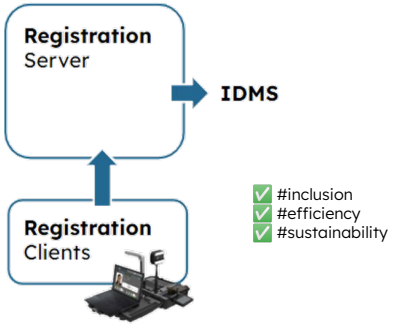
It's form factor allow to **use it either in hands or on a desk**, taking **little space** on it and **not needing any cable to the stations of the service provide system**. This last characteristics make the integration in any system transparent in term of office deployment.

The device is used as a **POS device** to manage **secure and private interactions with individuals** : identity authentication, giving consent or digital signature.

On-boarding - Back-end solutions

Offline on-boarding system (Collect & Transport enrollment data)

African countries struggle with connectivity for their mass enrollment, Electoral Biometrics Registration model should be leveraged.



This Enrollment systems is **offline by default**, it **leverage tens of years of experience of biometric registration** as it's **practiced in Africa for Electoral systems**.

The Innovation consists in **standardizing the data formats** which are used, together with the **standardisation in term of security and privacy**.

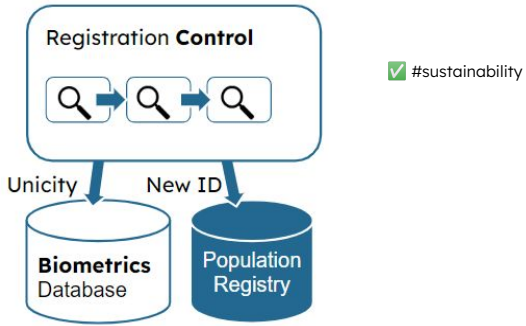
It has benefits to **preserve from vendor lock-in** while being in **capacity to leverage services of professionals companies.**.

Finally it can perfectly be **setup temporarily** for purpose a **national mass enrollment** then **removed afterward and used somewhere else**.

IDMS Light (low infrastructure footprint)

Small and very small countries (<10 millions or <2 millions inhabitants) **struggle to dispose of large tiers 3 datacenters**, because of their **setup and maintenance costs**, also for **difficulties to get the necessary trained personnel**. Moreover, while the population is not yet fully registered, **identification services stay low** and **enrolment flows are limited** by manual enrollment operations **not requiring extra-larges ICT infrastructures at the beginning**.

With time, and if value added services grow, the services API gateways can be **scaled thanks to revenue from services**.

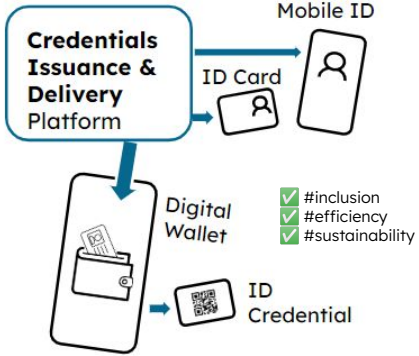


The innovation consist in **delivering a small infrastructure footprint IDMS solution** that can **fit in government server rooms** and that can be **scale-up with time**.

ID-Credentials - Agile portfolio

Solution for Multi-Credentials Issuance and Delivery
(open source)

An **open-source card printing and distribution solution** should be developed for issuing **physical or digital identity credentials forms** from an ID Management system.



A solution should be implemented allowing to **design and print any kind of card**, in a **centralized or decentralized**, **connected or unconnected** environment.

The data exchanges between the IDMS and the Credential Issuance and Delivery solution should **leverage Verifiable Credential** standard to ensure traceability of data origin.

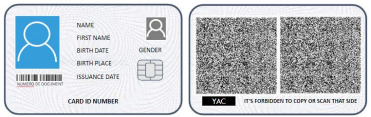
Low-cost & value added card
(basic and sophisticated cards)

Currently countries have only choice in between **expensives security features and/or chip based cards** and **temporary paper cards**.

A **robust version of cost effective card** should exists in between both, ensuring **card longevity** and **usage with digital systems**.

Minimized cost robust PVC Card
(plastic, QR code)

There would be **no sophisticated security features**, and **no vendor specific virgin card**. It would be **simple plastic card** made from **recycled/recyclable material**, it would include a **large QR code** containing a **verifiable credentials** with **trusted demographic data** and a **compressed portrait.**.



Value added digital enabling physical card
(Security features, chip)

A more sophisticated version of card offering value added services online or within the chip could be issued with a cost for the individual.

#inclusion
#efficiency
#sustainability

Inclusive forms of Digital wallet
(device-less, feature phone based)

As next generation of credential should be based on **Verifiable Credential in Digital Wallets** it would be important to make sure that **can exists inclusive forms of Wallets** and of **Digital Credentials**.

Feature phone based digital credential
(OTP, QR, 2G)

#inclusion
#efficiency
#sustainability

A **cloud based Digital Wallet** version should be available leveraging a **feature phone and 2G networks** as **simple individual's authorization interface**.

Device-less digital wallet
(Secure USB Key)

#inclusion
#efficiency
#sustainability

A **device-less form of Digital Wallet** should be developed in which **individual's would only carry their data** and device **for wallet would be an operator's one**.

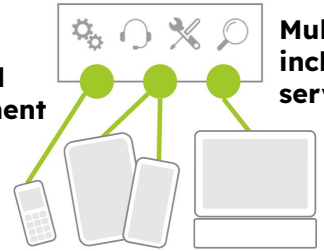
ID-Usage

GUI Agnostic public services
(Web, App, USSD, paper based)

As individuals don't have equal access to digital devices, **public services should be designed to be usable through various kind of devices**.

It then important that **platforms design need to keep an abstraction layer in between services and presentation layers**.

2G based Government services



Multi-channel inclusive services access

The following device graphical user interfaces should be usable to access services: **computer stations**, **smartphones** or **tablets**, **feature phones** or even **paper forms**.

Therefore the following User Interfaces should be available: **Web Portal**, **Mobile App**, **USSD services**, **Paper forms scan** service.

Low-tech online secured interaction
(Digital Signature, Biometrics Authent.)

As Government to Population interaction become 'Digital First' it **urge to propose inclusive solutions** for those interactions **leveraging countries existing assets and infrastructures**.

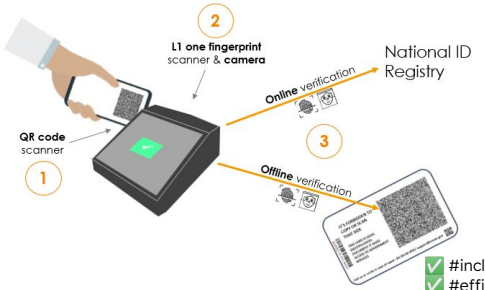
Feature phone based digital signature

Together with Digital Identity, should be delivered **digital actions enablers** to individuals such as **digital signature** to **keep track of digital agreements or transactions**. A **cloud/2G/feature phone based digital signature** should be developed for more inclusion.

2G 1:1 online fingerprint match

With raise of Biometrics Foundational ID platforms, a **biometrics based 1:1 authentication** should be **available through 2G networks**.

Multi-applications tablet with Authentication



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