i Civil TM

Leveraging Mobile Technology and "Bubble Tag" Wristbands to end the Problem of Ghost Children



ID4Africa Movement

Abuja, Nigeria, April 26, 2018

Speaker: Mr. Clément KAISER, co-founder, iCivil Africa

INTRODUCTION - Observations



In sub-Saharan Africa, birth registration rates are below 50%.

In the poorest households, it is less than 30%.

230 Millions Ghost Children



2/3 of the deaths are never recorded and are therefore not counted in the vital statistics system.



However, it is necessary to specify that, these data concerning unregistered children are necessarily approximate. They are likely to be much larger.

INTRODUCTION – Civil Registration and Vital Statistics

"A well-functioning Civil Registration and Vital Statistics (CRVS) system registers all births and deaths, issues birth and death certificates, and compiles and disseminates vital statistics, including cause of death information. It may also record marriages and divorces.

Despite the **well-documented benefits of CRVS**, many countries do not have adequate systems in place. The births of **tens of millions of children are known to be unregistered** every year, and it is estimated that **two-thirds of deaths are never registered** and are thus not counted in the vital statistics system."

World Health Organization



CRVS: Complexity due to multiple Stakeholders and multiple Sites...





Parents *Citizen's parents*



Or any authorized person







Issuer of administrative or official documents

Local Government Officer

CRVS: Complexity due to Temporality Factor



Integrated System for People e-ID



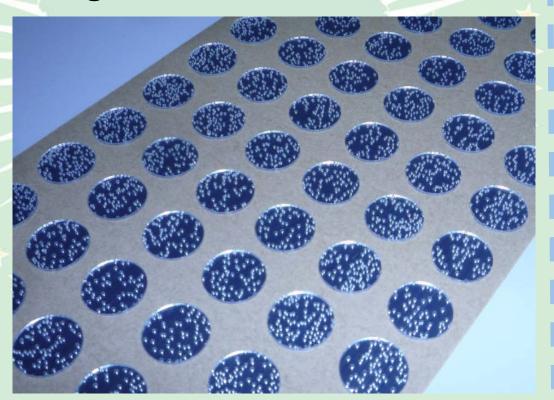
i Civil TM

iCivil TM SOLUTION Tools



Bubble Tag Wristband

- Cannot be cloned
- Unique: Chaotic 3D Self
 Generated Code resulting from a Natural phenomenon
- Unpredictable digital signature
- Total Traceability of actors
- Digital and visual Authentication
- Do not break down
- Life cycle exceeding 250 years



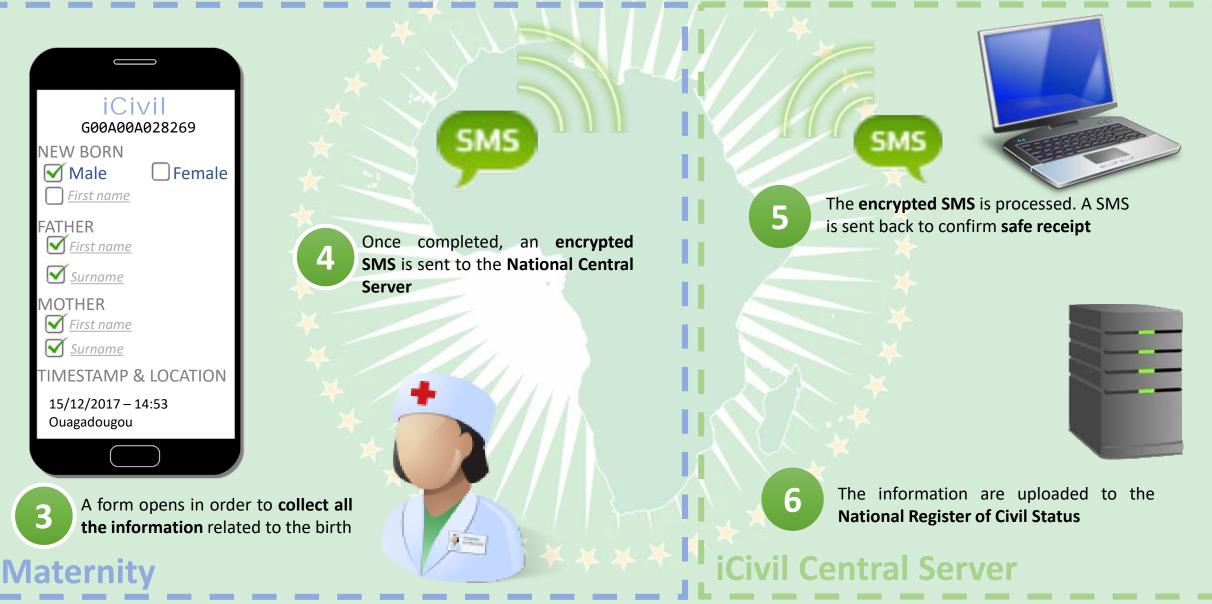


SMARTPHONE Civil ™ App'

Operation: Birth Declaration – Day 0



Operation: Birth Declaration – Day 0



Operation: Birth Registration – Day 20









On presentation of the Bubble Tag Wristband with parents' ID Document, the Officer can register the birth of the new born baby

National Birth Registration Office





The information are downloaded from the National Register of Civil Status



A certified copy of the Birth Certificate can be printed with the image of the Bubble Tag

Operation: Birth Certificate Issuance – e.g. Year 18











The information are downloaded from the National Register of Civil Status





A certified copy of the Birth Certificate can be printed with the image of the Bubble Tag

Mayor Office

COHERENCE OF THE SOLUTION



Physical World

Proof

Digital World







N°14256



N°14256



N°14256



N°14256



N°14256

Death

Birth Declaration

Birth registration

Of birth Adoption

Issuing a certificate

Of birth Adoption

Wedding



* N°14256 is an example







STRENGTHS OF THE SOLUTION

The Bubble Tag Wristband

- Ensures the interphase link
- Can not be duplicated
- Unique: It is a self-generated chaosmetric 3D code, resulting from a natural phenomenon
- An unpredictable digital signature
- Total traceability of actors
- Digital and electronic authentication
- Does not break down
- Durability over 250 years

Application for Smartphone iCivil

- Total traceability of agents
- Guarantee of the integrity and authenticity of the collected data
- Geolocation of the place of declaration

Other advantages

- Compatibility with the communication networks already available
- Rapid constitution of the national registry of civil status
- Highly secure ecosystem
- Declaration and registration of large scale births without risk of duplication,
- Provision of secure and controllable civil status records
- Provides reliable, complete and real-time statistics to the authorities, the administration, the technical and financial partners
- Facilitates the planning, implementation and evaluation of the development policies.

PROOF OF CONCEPT



Proof of Concept visible in Burkina Faso

Several thousands of children registered in 10 maternities + 30% of births registered in the said maternities

Proof of Concept supported with UNFPA funding

A STRONG INTERNATIONAL RECOGNITION



International Medias link



International Organisation of La Francophonie SG, Michaëlle Jean, Burkina Faso, March 2017

OIF **UNFPA** UNICEF **OMS UNHCR Delegation UE/BF World bank**

ANF ID4Africa ONU

(Target 16.9 of the Sustainable Development Goals)



iCivil promises much needed birth registration in Africa Rawlson O'Neil King, U.S.A., August 2016 link



Economic and Social Development Section of the European Union.

Mr. Thomas Huyghebaert, Head of Governance, Burkina Faso , Juin 2017

