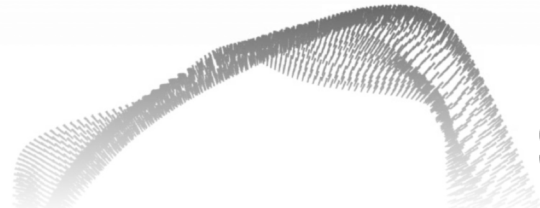
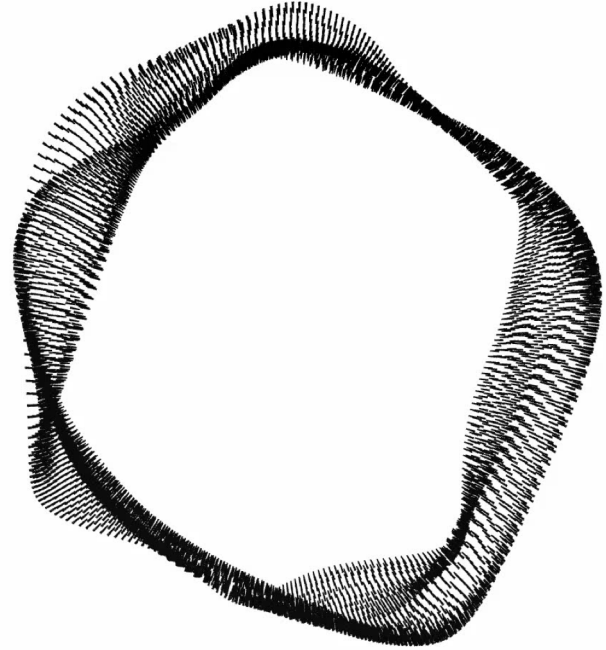


Virtual Identity: Am I really the
one I claim to be?

ID4Africa

April 25th, 2018



SURYS

IDENTITY VS IDENTIFICATION



- 1 person, 1 Identity
- Highly secured ID documents
High value services



- 1 person, Many identifications
- Identifiers
Low value services

EVOLUTION OF IDENTIFICATION



- Identification initially based on username, password...
- Development of more critical digital services
- Increase of attacks (hacking...)
- Growing need to ensure the Identity of the person behind the screen

→ Use its own Identity through biometric information for
Identification
= Virtual Identity

What are the challenges of Virtual Identity ?

VIRTUAL IDENTITY_ENROLLMENT



- Enrollment is the key

Pillar on which the integrity of the identification is based

Virtual Identity based on the authentication of the « *primo identity* »

Must be secured enough to fight against modern digital attacks (as morphing...)

VIRTUAL IDENTITY_PRIVACY



- Virtual Identity raises questions regarding personal data
 - Are they stored?
 - Who manages them?
 - Are they protected?
 - How are they used?

VIRTUAL IDENTITY_ISSUING



- The right to **Identity** is fundamental, so has become the right to access a secured **Virtual Identity**
 - Then, it has to be accessible for everyone
 - 100% digital: **Easy implementation** VS **potential digital exclusion**
 - 100% physical: **Reassuring** VS **not in line with today challenges**
- Virtual Identity requires to take the best from both sides

VIRTUAL IDENTITY_USAGES



- Smooth & Reassuring identification process
 - Ergonomic, easy to use and fast application
 - Must guarantee high level of security
- Virtual Identity leads to self-identification
 - Authentication tool must be accessible by everyone
 - Must prevents emerging attacks (facespoofing, faceswapping...)

So...how to overcome these challenges?
There is no bullet proof solutions but...

OUR SOLUTION

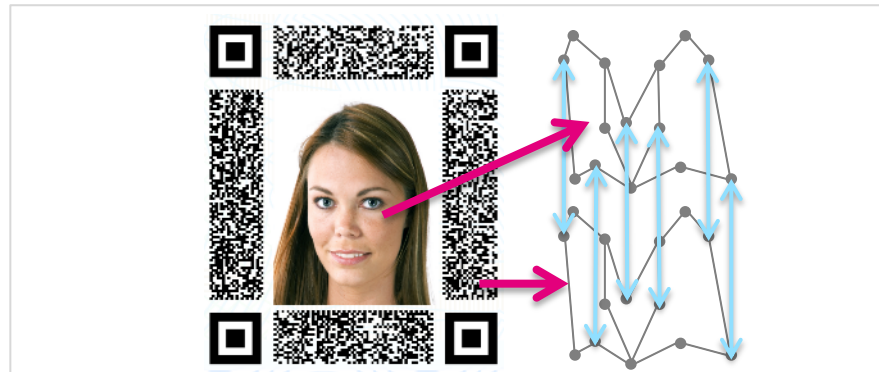
Photometrix™



PHOTOMETRIX™



- Encrypted 2D barcode located around the picture
- Guarantees the authenticity of the picture
- Links an authenticated document with its physical holder



- Specific characteristics of the card holder's picture encoded into the code as a set of points
- Control: comparison between the picture on the card and these encoded points

PHOTOMETRIX™



- Enrollment ✓

Authentication of ID Document
using Authentiscan™ solution

Check of the integrity of the
« *primo identity* »



- Privacy ✓

Respect Privacy by Design

No database

Offline process

PHOTOMETRIX™



- Issuing

Can be applied on any types of documents (physical, digital)

- Usages

Standard Smartphone

Liveness tests

THANK YOU!

Meet us at our booth !

Amaury Chasseux
Product Manager
ID & Vehicles



From science to confidence

SURYS