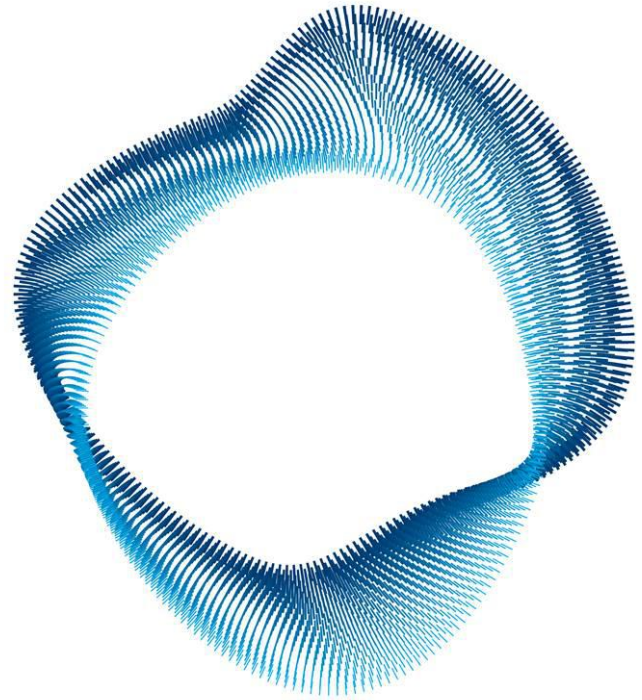# The next steps in optical & digital authentication for New ID Documents

ID4Africa – Windhoek

April 27th 2017

SURYS

IDENTITY : CHALLENGES IN AFRICA

- **Identification of the population**

- **Enrollment**

- **Issuance**

- **Cost**

- **Services**

CONTROL AND AUTHENTICATION

SURYS

A MARKET FLOODED WITH ID DOCUMENTS

National ID card

Social Security card, Health cards

Voter card

Driving License

Professional card

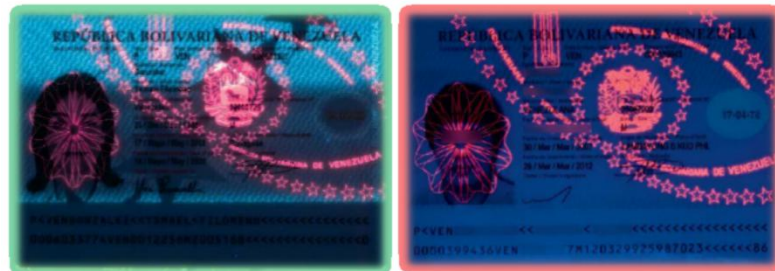Resident card

Consulate card

Refugee card

Passport

Visa

WHY ?

- **Need to identify people**
- **To get access to services**

SURYS

DON'T BELIEVE EVERYTHING YOU READ

Paper scission – Part of the UV transferred into the paper

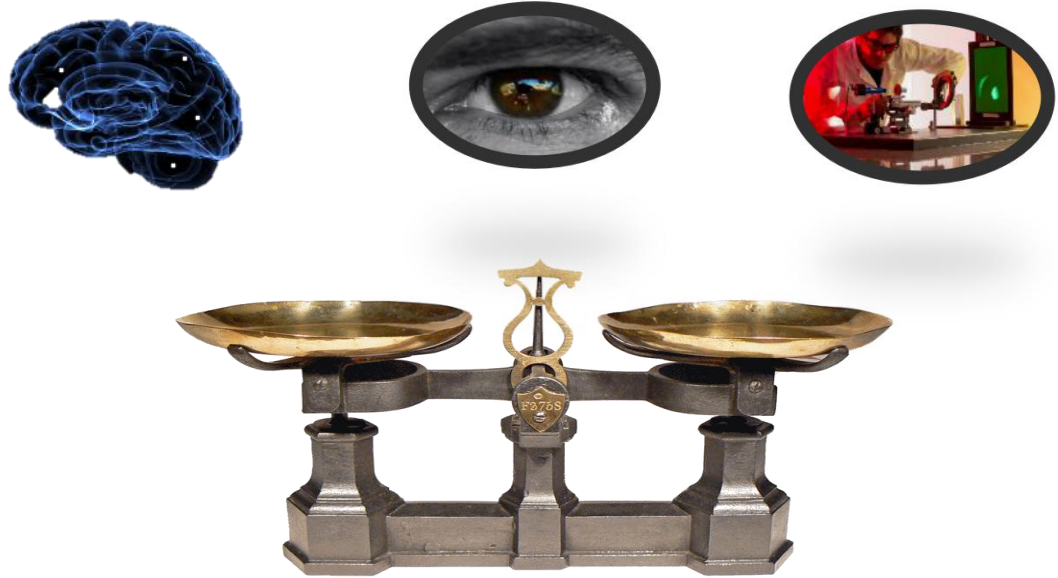*Datapage Scission - Replacement of personalized data – UV printing imitated*

Paper Scission
Top of the datapage kept intact

Overprinting
Lamination of a transparent overlay

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DOCUMENTS NEED TO BE SECURE

A fine balance between ease of authentication and robustness of security

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SECURITY FEATURES

Optical

- Holograms
- Inks / OVI
- Watermark / intaglio / fibers
- MLI / CLI
- Etc.

Digital

- Chip
- Database
- Hybrid solutions

SURYS

OPTICAL SECURITY

**Reliable, primary authentication
solutions & state-of-the-art technology**

THE DID™

More than 60 countries trust us with the DID for their passports, ID cards and banknotes

In Africa :

- **South Africa NID,**

- **Senegal Passport and NID,**

- **Côte d'Ivoire visa,**

- **Kenya passport,**

- **etc.**

No counterfeit reported so far

SURYS

LATEST VISUAL SECURITY COMBINATIONS

Multiple embedded optical elements

- Limited surface (patch size)
- Full surface

Wave effect

- Giving the impression of continuous movement

Virtual

- Bringing a captivating 3D animation to the DID™ color permutation
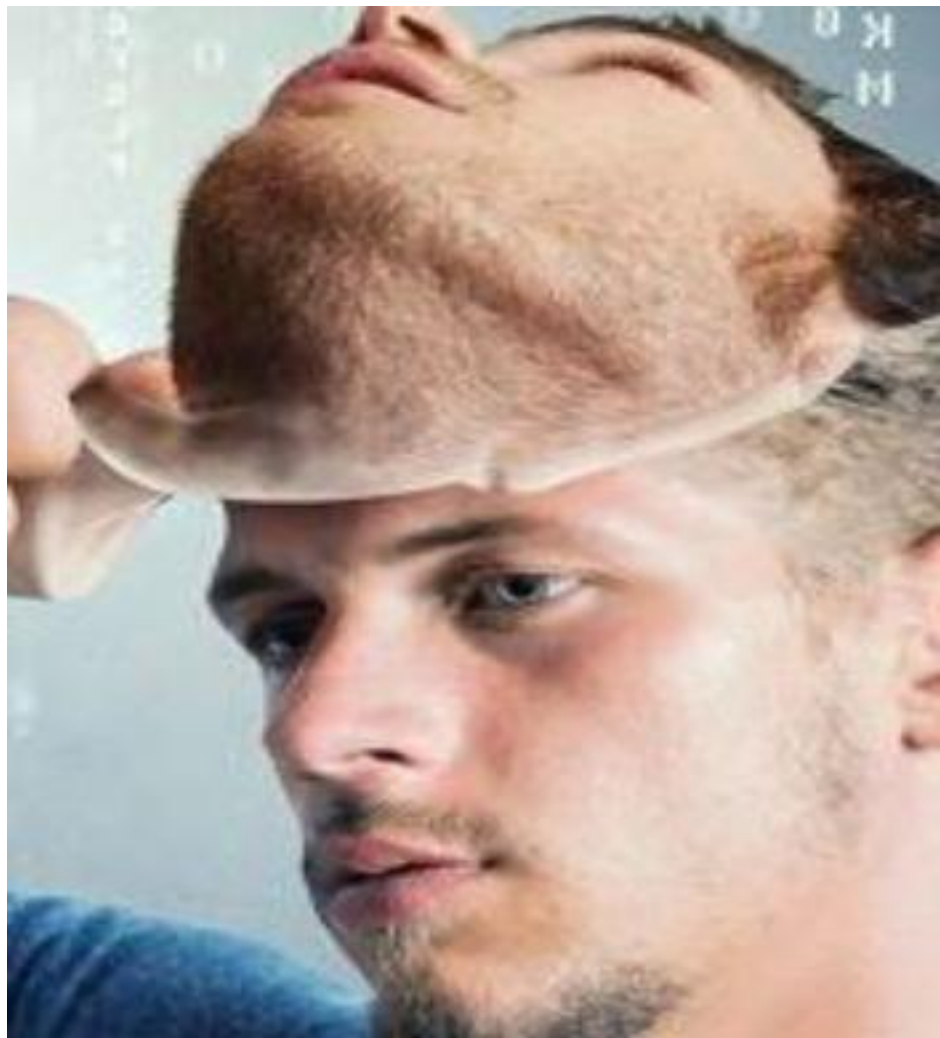
SURYS

OPTICAL SMART TECHNOLOGIES

Combining optical and digital security features

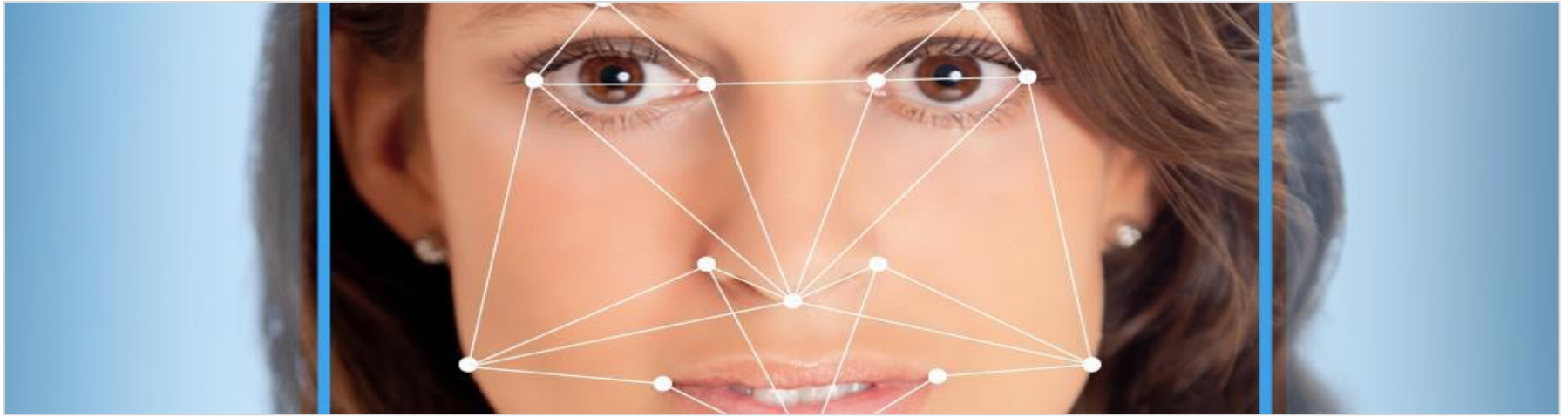# RIGHT IDENTITY ?

The photo authentication solution

Photometrix™

Photometrix™

- Focused on ID picture, major source of Identity Fraud

SURYS

PHOTOMETRIX™

Principle

- Digital signature of the photograph
- Offline automated authentication of the photo

  椢*Via a regular Smartphone*

Technology

- Comparison between the picture on the card and specific characteristics of the picture encrypted into the Photometrix™ code
- Respects privacy by design

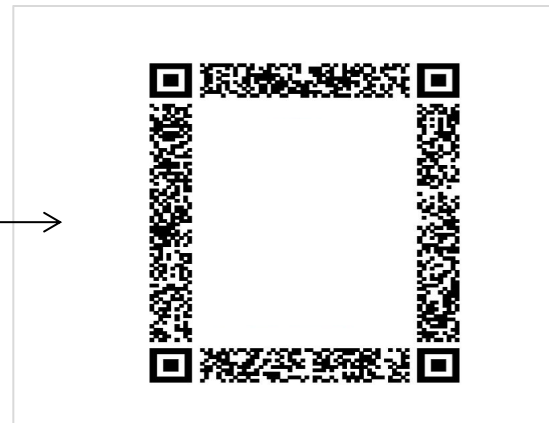**SURYS**

Photometrix™ Code

Collect data

- Picture
- Personal details

Encrypt Data
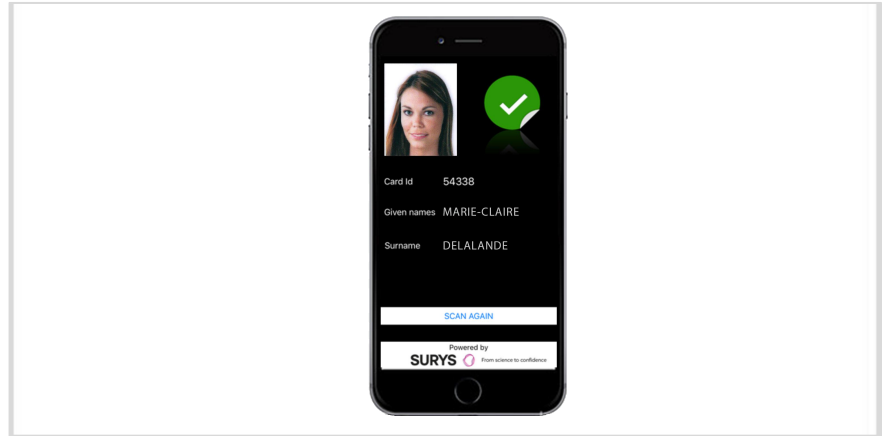
- Picture digital imprint and personal data are encrypted

Generate Photometrix Code

- Encrypted data
  桌*Optional: Biometric*

Compatible with standard perso systems
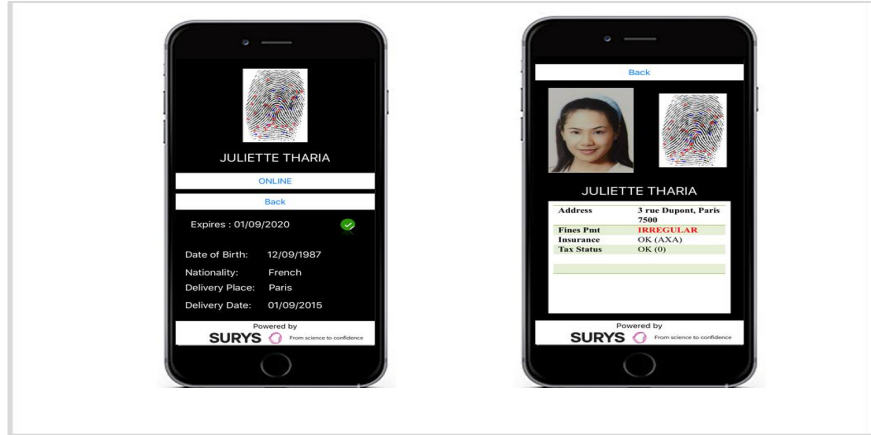
SURYS

Offline authentication

Offline check via Smartphone

- Automatic authentication of the picture
- Immediate verification of some personal details

Key benefits

- Direct authentication
- Easy check, everywhere
- Minimum total cost of ownership

**SURYS**

Going further

Offline biometric integration

- Additional authentication feature through fingerprint or facial recognition

- Link between card holder and the encrypted data into Photometrix™ Code

Online Database

- Complete control
  - Access to additional personal details

- Business Intelligence
  - Data collection
  - Statistics
  - Reporting

SURYS

ABOUT SURYS
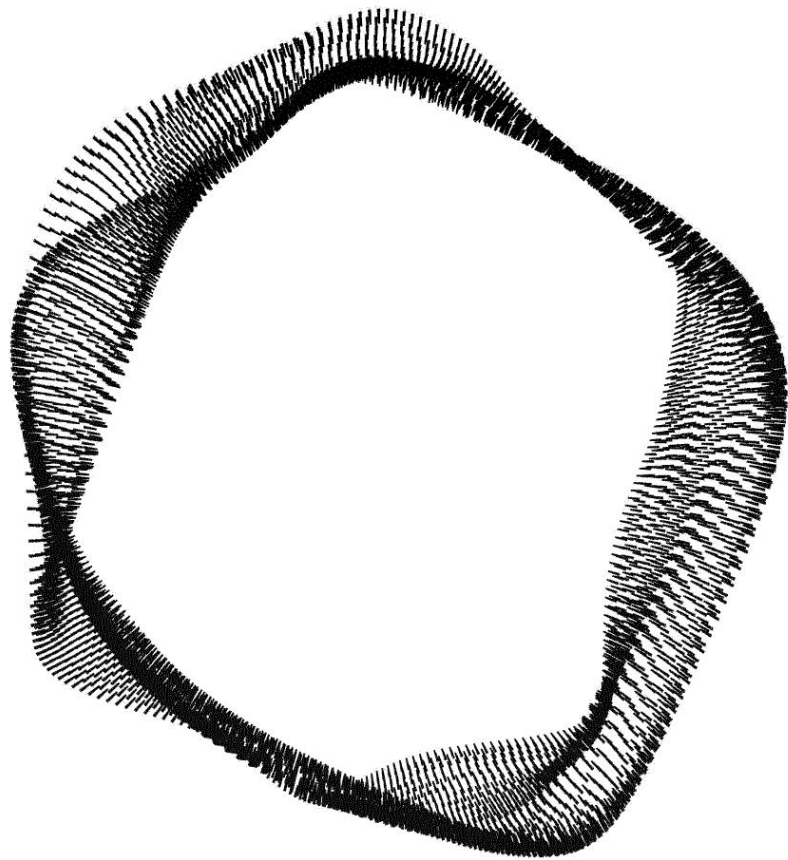
Facts & Figures

390
employees
worldwide

Present
In **116**
countries

90%
of the business is
international

10%
is reinvested
in R&D

Offices

Trumbull, Connecticut, USA
Production site
5 200 m2

Bussy-Saint-Georges, France
Head office, Production site
14 000m2

Amsterdam, Netherlands
Keesing Technologies

Dieburg, Germany
Production site

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THANK YOU FOR YOUR ATTENTION

From science to confidence,
we manage your journey

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