IDENTITY CREDENTIALS
ON THE MOVE:
THE PRICE FOR
SUSTAINABILITY

ID4AFRICA, Abuja, Nigeria
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Business Development Director
AGENDA

• Transient Identity
• Sustainable Identity-as-a-Service
• Think globally - Act regionally - Secure locally
• Local implementation use case
• Opportunities and takeaways for Africa
TRANSIENT IDENTITY UNDER THE MICROSCOPE: FROM REAL-TIME TO REAL LIFE

- ID-requiring transactions use a variety of tokens and security levels
- Shelf life of ID tokens vary greatly: one solution does not fit all!

<table>
<thead>
<tr>
<th>Service Opportunity</th>
<th>Risk assessment process Approximate duration/validity</th>
</tr>
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<tbody>
<tr>
<td>Web purchase</td>
<td>~1s e-Token(s)</td>
</tr>
<tr>
<td>Aircraft boarding</td>
<td>0.5-3s (e-)Token verification</td>
</tr>
<tr>
<td>Border e-Gate</td>
<td>12-30s with biometrics (Face/Finger/Iris)</td>
</tr>
<tr>
<td>Border Checkpoint</td>
<td>30s-1min at primary line</td>
</tr>
<tr>
<td>A passport life cycle</td>
<td>5-10y validity</td>
</tr>
<tr>
<td>A birth certificate</td>
<td>65-87y life expectancy</td>
</tr>
</tbody>
</table>

も多くは、IDの保護に対する私たちの期待は実現可能ですか？

どう考えるべきですか？
ID STUMBLING BLOCKS: DOCUMENT SECURITY IN PERSPECTIVE

- EOI and ICAO TRIP Program
- First EU-driven standardization efforts on birth, marriage, and death certificates

<table>
<thead>
<tr>
<th>E.o.I. Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identity exists</td>
</tr>
<tr>
<td>Identity is “living” (not deceased)</td>
</tr>
<tr>
<td>Applicant links to the ID</td>
</tr>
<tr>
<td>Sole claimant of ID, not using another ID</td>
</tr>
<tr>
<td>Uses the identity in community</td>
</tr>
<tr>
<td>Trusted referee to provide evidence</td>
</tr>
</tbody>
</table>

💡 What’s in there for African countries?
More compound issues of capacity building, collection, archiving, usage, harmonized services
A 4-FACTOR TRANSFORMATION INTO IDENTITY-AS-A-SERVICE:
ID-AS-A-SERVICE ON A QUALITY GROWTH PATH

Biometrics crucial for ID transaction verifications

Prioritized donor funding may hamper transition

Unrealistic expectations in legal harmonization

Social procedures start from authorized Points of Contacts

Diverging privacy legislations compound problem complexity

Social procedures start from authorized Points of Contacts

Diverging privacy legislations compound problem complexity

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Transient ID verifications better be backed by State-run NCRAs

Harmonization should involve overarching international ID structures

Upward compatibility and continuity with existing ID tokens crucial
DISCRETE LEVELS OF TRANSIENT ID SECURITY: SUSTAINABILITY BACKGROUND: TOWARD AN ANONYMIZED AGORA

- A figure of the past with known history
- Not even a continuum across one’s life, only a ID security envelope
- Essential ID transitions generate process discontinuities to be carefully assessed and controlled via proper credentialing under the appropriate legislation
- Security base line requirements tend to slightly rise with age
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THINK GLOBALLY, ACT REGIONALLY, SECURE LOCALLY: WHICH LEVERAGE FROM A SUSTAINABLE ID SECURITY VALUE CHAIN?

Challenges

Processes

Technology

Governance

Key success factors

Resilience in/from privacy legislation

Keep innovation under control

Harmonization via stakeholder cooperation
THINK GLOBALLY, ACT REGIONALLY, SECURE LOCALLY: A 3-STEP ID INITIATIVE TO EMPOWER PRIVACY-FRIENDLY ID TOOLS

Challenges

- PPP Infrastructure
- Metadata accessibility
- Biometrics enabled process & data silo removal
- Document/EoI Security & Identity Management

Solutions

- Industry convergence under legal control of ID transitions
- Empowered/harmonized ID data
- Secure MRTD, ID & e-ID
- Anonymized Biometrics in mobility

Prerequisites

- State Legislation
- Reference Credentials

Key enablers

- Physical Security Tokens
- Digital synchronizers

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STAND ALONE VISITOR ID CREDENTIALING: FOR A BETTER CONTROL OF TRANSIENT ID

- **Objective:** *locally* improve the quality of **transient ID credentialing** applied to Entry/Exit of visiting travelers *above and beyond* current rubber stamping

- **Solution:** use existing traveler’s MRTD to log entry by printing digitally secure **EXTENS® SmartStamp** developed in line with ICAO specifications for Visible Digital Seals*

- Automated overstay detection

- **Perk achieved:** capitalize on downstream applications *not requiring* online Border Management IT systems

STAND ALONE VISITOR ID CREDENTIALING: FOR A BETTER CONTROL OF TRANSIENT ID

Secure legal ID Token

3-Factor Authentication

5. App delivered by legal Authorities
4. Roving Controlled Data Access
3. Digital Signature
2. Material Based Security Feature
1. Customizable Design
• Stand alone verification on info-enriched MRTD permits matching ID between Entry & Exit

• Easy incremental portfolio build-up through external smartphone applications via query interfaces

• **Advantages:**
  - low cost, low-risk border software implementation
  - independent, progressive, scalable portable application development

**STAND ALONE VISITOR ID CREDENTIALING:**
**SPINNING THE PEACOCK ID APPLICATION WHEEL**

Post-clearance and plug-ins for downstream ID services: from off-line, document-held token interoperability to secure ledgers
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OPTIMIZING ID ORCHESTRATION:
ADDRESSING SOME CONCERNS FOR AFRICA

• No unique technology silver bullet nor a single type of NCRA implementation
• A strong, sustainable state-level ID legislation will *ab initio*
• Sustained results through quasi-permanent close-by local expert follow-up
• Integrate better practices and perks to existing local tradition to bolster adoption
• Sustain overlook over any supplied technologies via regular project gap analysis
• Bypass initial stumbling blocks using external programs entry points

**CUSTOM CITIZEN-CENTRIC CERTIFY COMPLEMENT CONTROL CREATIVE
Keep 6 C’s in tune!**
TAKEAWAY FOR HARMONIZED ID CREDENTIALS IN SECURE AGORAS: TRANSIENT IDs MAY BE USEFUL IN AD-HOC TOKENIZED APPLICATIONS

- Privacy by Citizen design (trust-driven)
- Empowered affordable ID infrastructure
- Transnational secure ID mobility
THANK YOU
FOR YOUR ATTENTION!!

PLEASE COME AND SEE US AT BOOTH # C32!!