

SICPA



IDENTITY CREDENTIALS ON THE MOVE: THE PRICE FOR SUSTAINABILITY

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CONFIDENTIAL

Enabling trust

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!

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

- 🔔 Are our expectations to ID protection realistic?
- 🔔 How should we structure it?

ID STUMBLING BLOCKS: DOCUMENT SECURITY IN PERSPECTIVE

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

E.o.I. Criteria

Identity exists

Identity is “living” (not deceased)

Applicant links to the ID

Sole claimant of ID, not using another ID

Uses the identity in community

Trusted referee to provide evidence



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

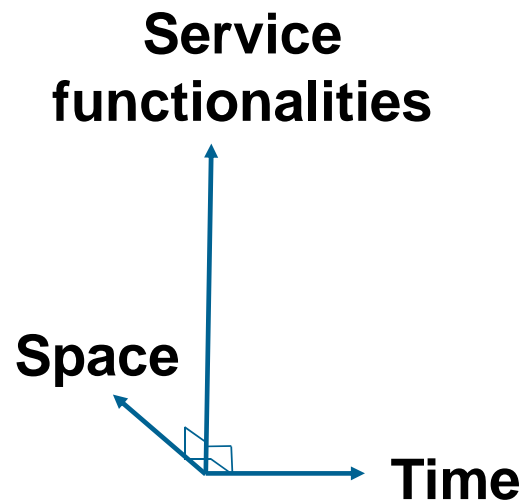
Prioritized donor funding may hamper transition

Unrealistic expectations in legal harmonization



Social procedures start from authorized Points of Contacts

Diverging privacy legislations compound problem complexity

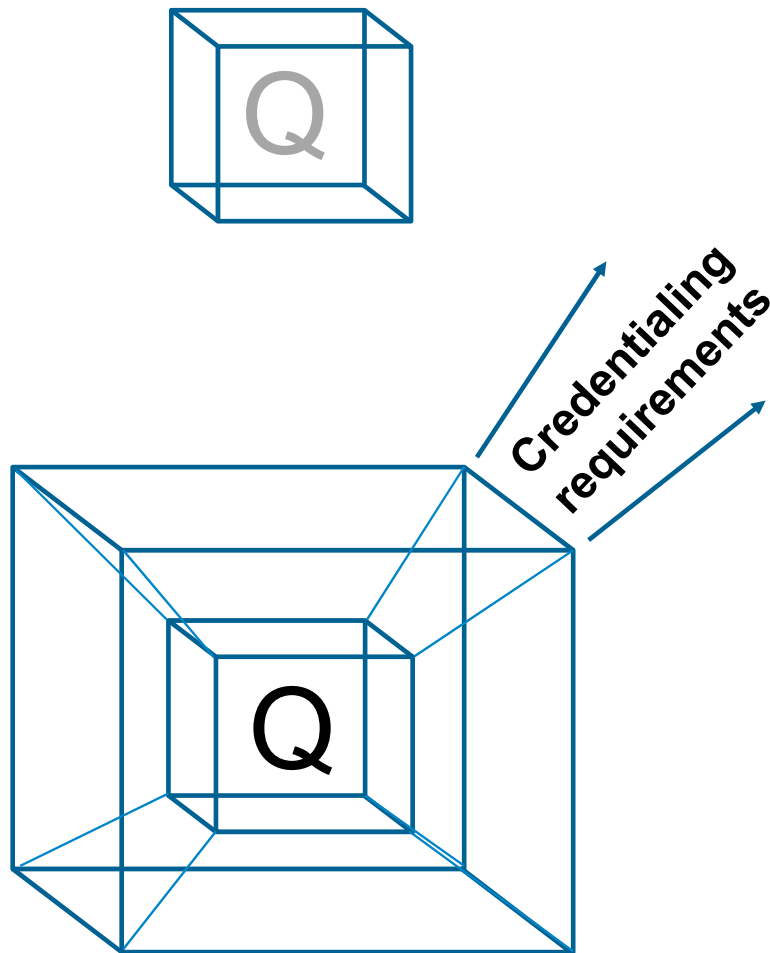


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A 4-FACTOR TRANSFORMATION INTO IDENTITY-AS-A-SERVICE: ID-AS-A-SERVICE ON A QUALITY GROWTH PATH



*Transient ID verifications better be **backed by State-run NCRAs***



***Harmonization** should involve **overarching international** ID structures*

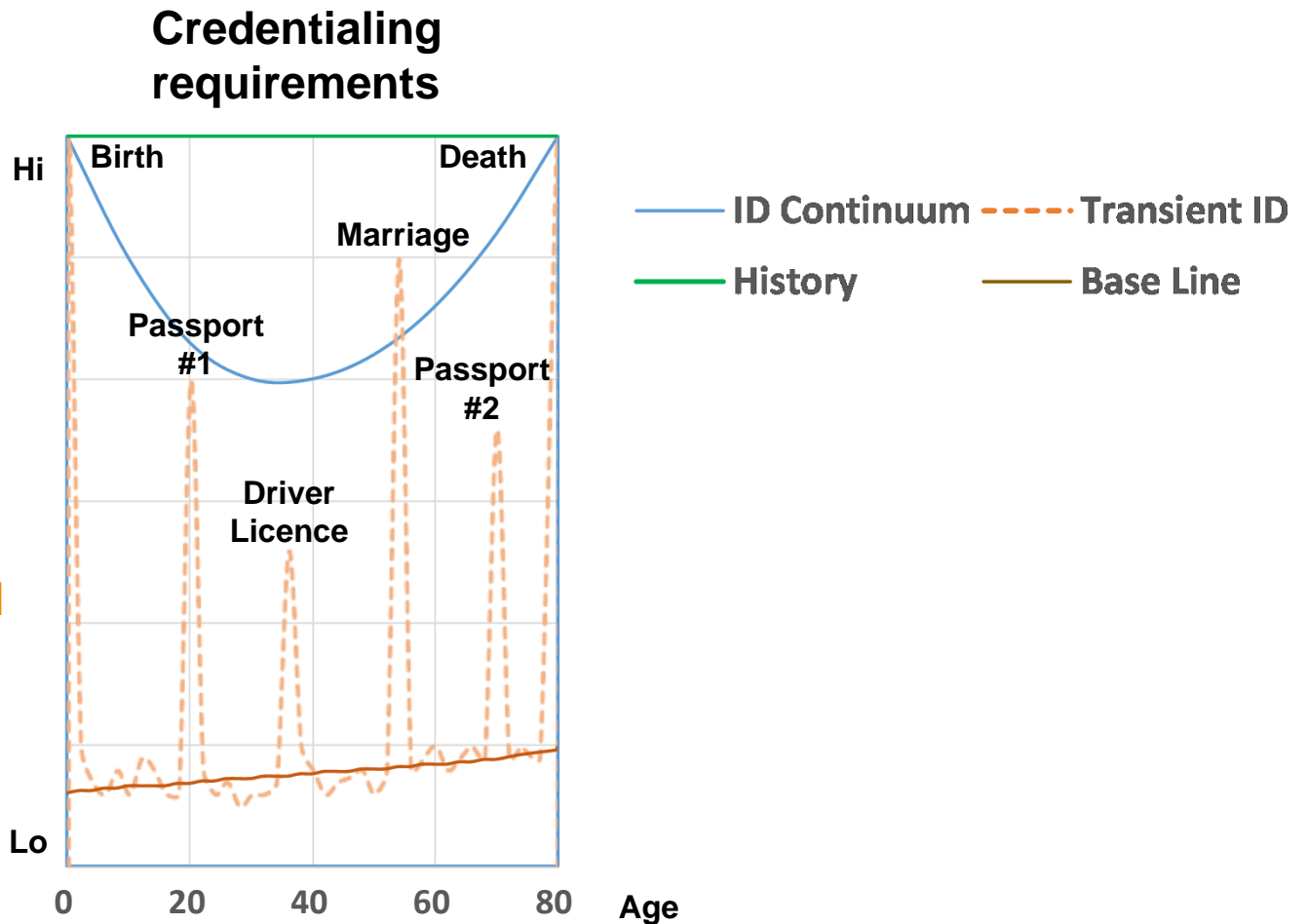


Upward compatibility** and continuity with existing ID tokens **crucial



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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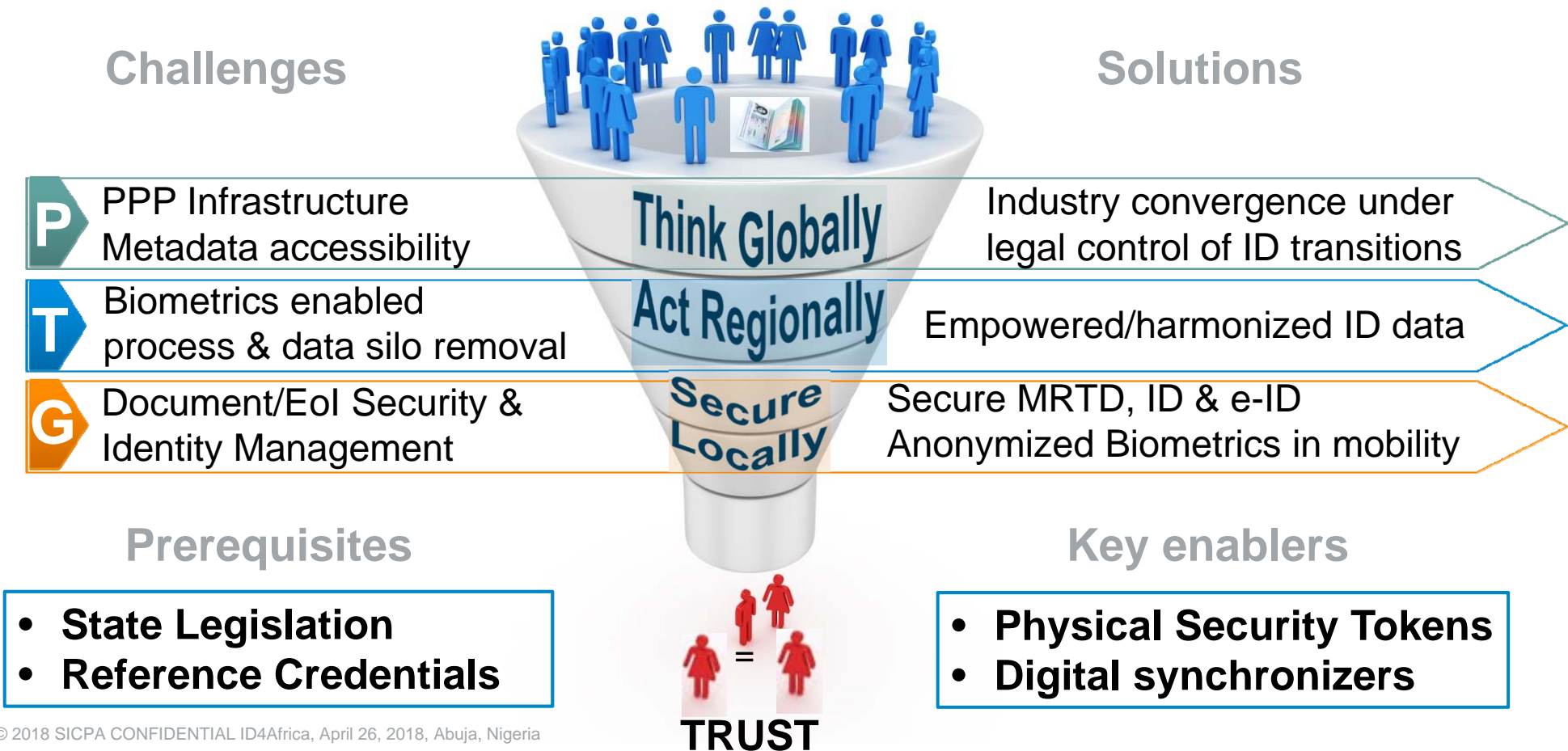
THINK GLOBALLY, ACT REGIONALLY, SECURE LOCALLY: WHICH LEVERAGE FROM A SUSTAINABLE ID SECURITY VALUE CHAIN?

Challenges

Key success factors



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



AGENDA

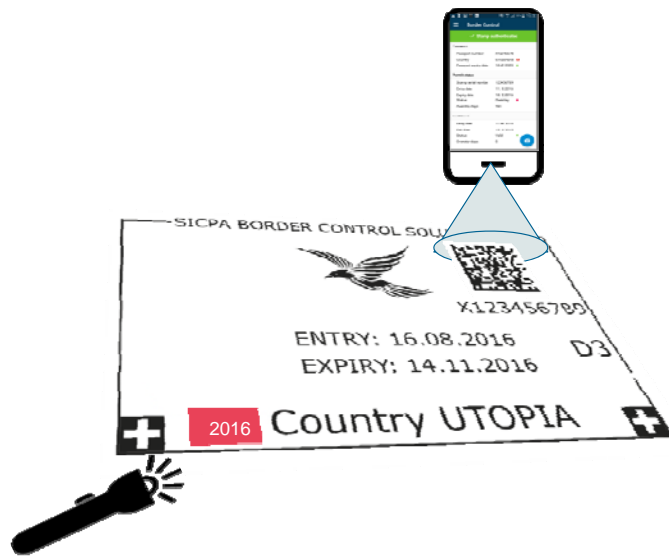
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STAND ALONE VISITOR ID CREDENTIALING: FOR A BETTER CONTROL OF TRANSIENT ID

- **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

* <https://www.icao.int/Security/FAL/TRIP/Documents/TR%20-%20Visible%20Digital%20Seals%20for%20Non-Electronic%20Documents%20V1.31.pdf>

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 VISITOR ID CREDENTIALING: SPINNING THE PEACOCK ID APPLICATION WHEEL

- 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



Post-clearance and plug-ins for downstream ID services:
from off-line, document-held token interoperability to secure ledgers

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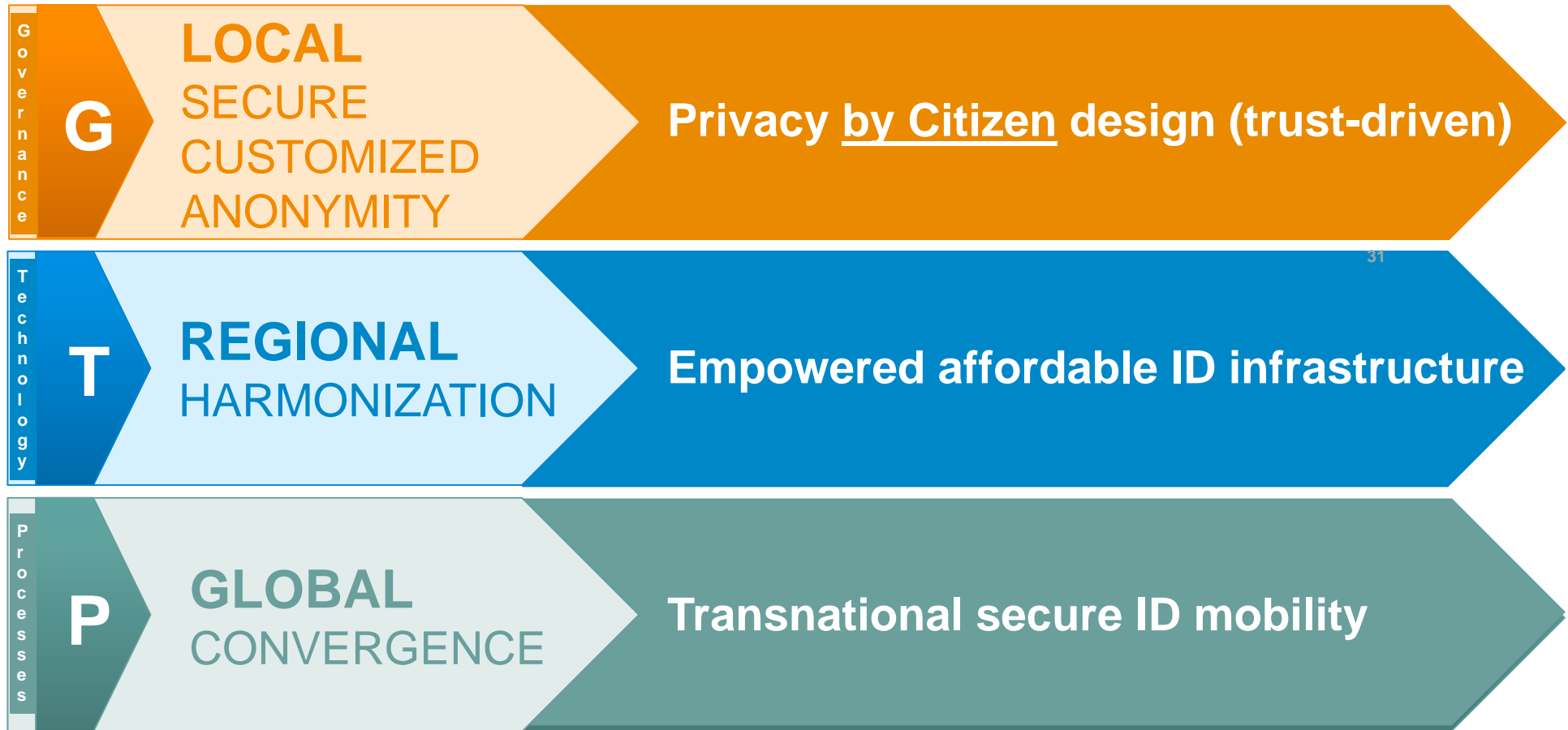
OPTIMIZING ID ORCHESTRATION: ADDRESSING SOME CONCERNS FOR AFRICA

- **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



**THANK YOU
FOR YOUR ATTENTION!!**

PLEASE COME AND SEE US AT BOOTH # C32!!

