American Association of
Motor Vehicle Administrators

Digital Driving Permits

Global Forum for Road Traffic Safety, 85th Session

September 20th, 2022

OUR VISION

Safe drivers
Safe vehicles
Secure identities
Saving lives!

Document Outline

- Introduction
- Digital Driving Permits Have Arrived
- What is a Digital Driving Permit?
- Benefits to Road Safety
- Importance of Acting Now
- Conclusion
- Annex A: Glossary
- Annex B: Global Status

Introduction

Background

- Dedicated agenda topic - 82nd Session

- Action Item for AAMVA and EFA – 83rd Session
  - Educational paper
  - In preparation for exploring the creation of an information group

- Educational paper (this presentation) delivered as Informal Document No 10

Digital Driving Permits Have Arrived

Why Digital Driving Permits

What problem are we solving?

Why the move to digital?

Difficult to Authenticate

- Expensive security features / not enough features
- Time consuming
- Many versions to keep track of
- Equipment needed

Driving Privilege Information

- Snapshot in time
- Driving after privileges were revoked

Card Real Estate

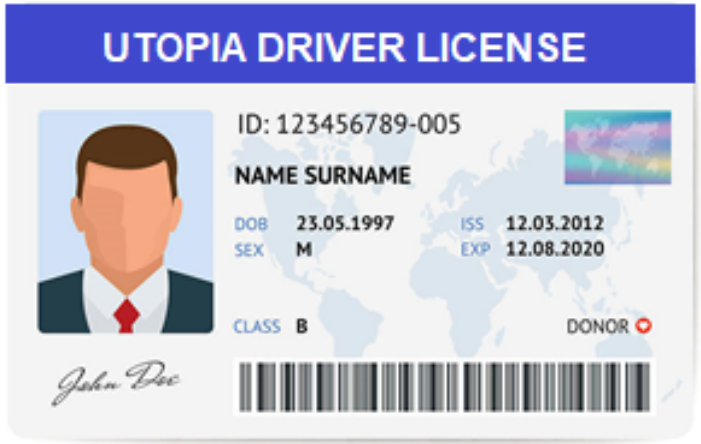
- Limited space
- Need for new elements/indicators
- Truncation of long names

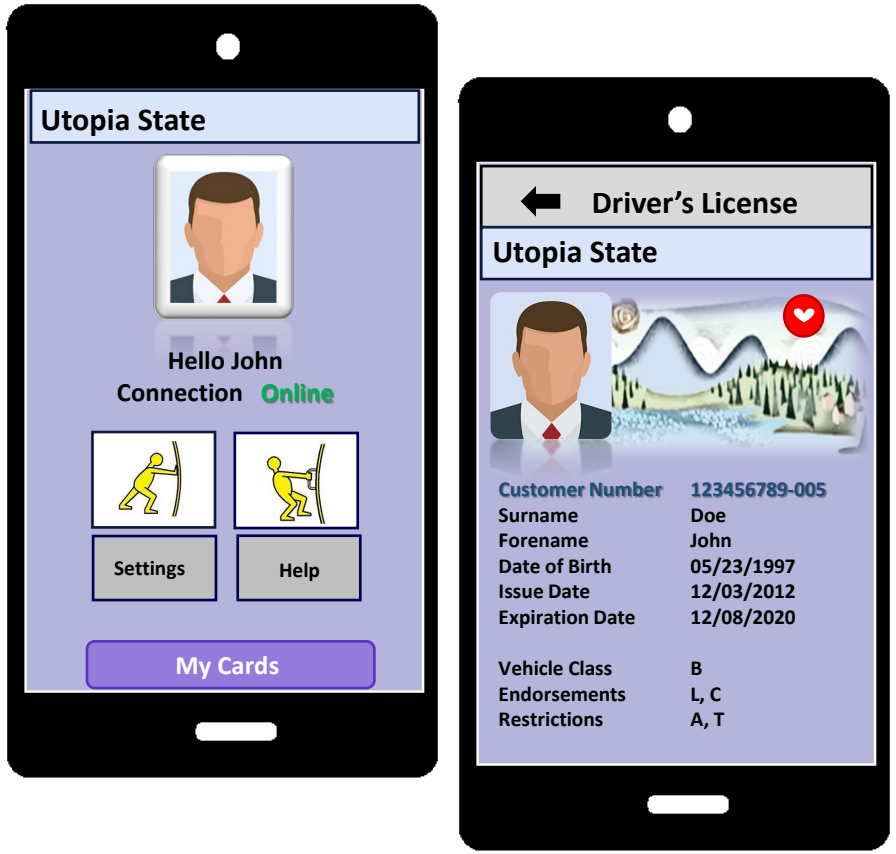
Languages & Jurisdiction Data

- Domestic language consumption
- Differences in (domestic) data elements can be misunderstood

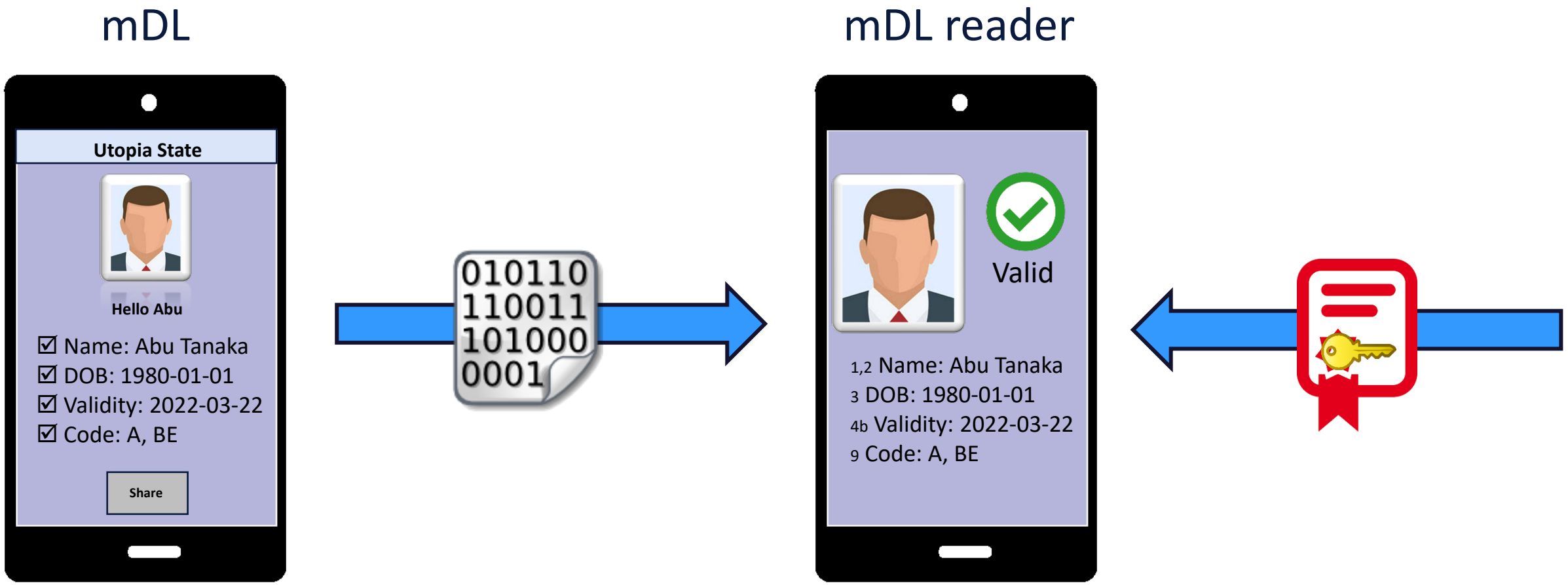
What is a Digital Driving Permit?

Overview


UTOPIA DRIVER LICENSE
ID: 123456789-005
NAME SURNAME
DOB 23.05.1997
SEX M
ISS 12.03.2012
EXP 12.08.2020
CLASS B
DONOR
John Doe


Utopia State
Hello John
Connection Online
Settings
Help
My Cards
Driver's License
Utopia State
Customer Number 123456789-005
Surname Doe
Forename John
Date of Birth 05/23/1997
Issue Date 12/03/2012
Expiration Date 12/08/2020
Vehicle Class B
Endorsements L, C
Restrictions A, T

Concept


mDL
Utopia State
Hello Abu
☑ Name: Abu Tanaka
☑ DOB: 1980-01-01
☑ Validity: 2022-03-22
☑ Code: A, BE
Share
010110
110011
101000
0001
mDL reader
Valid
1,2 Name: Abu Tanaka
3 DOB: 1980-01-01
4b Validity: 2022-03-22
9 Code: A, BE

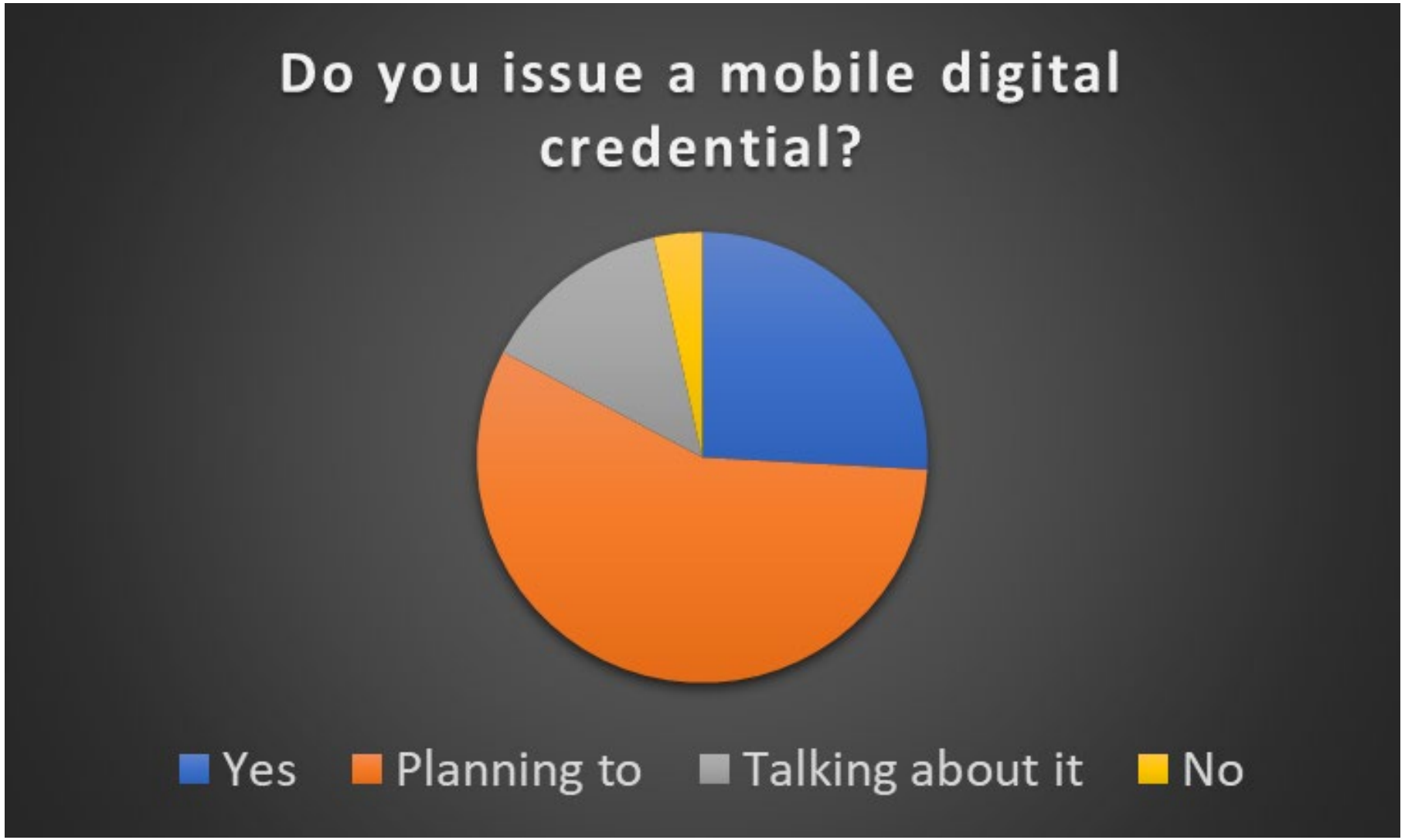
Non-Compliant Solutions

mDL is NOT a picture of the physical license on the device

Significant risk of counterfeits, and at scale

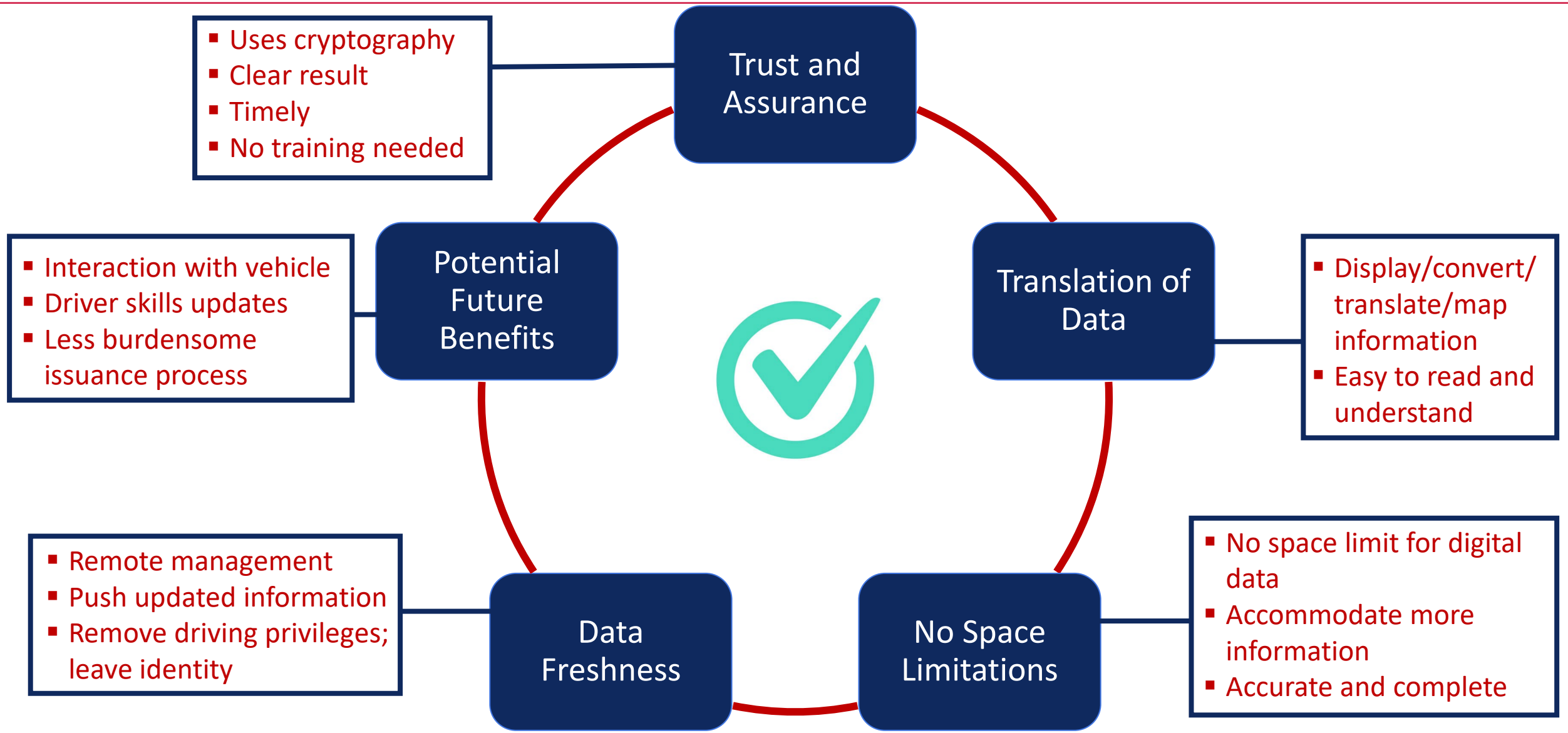
Similar to Contactless Payment Experience

Global Status



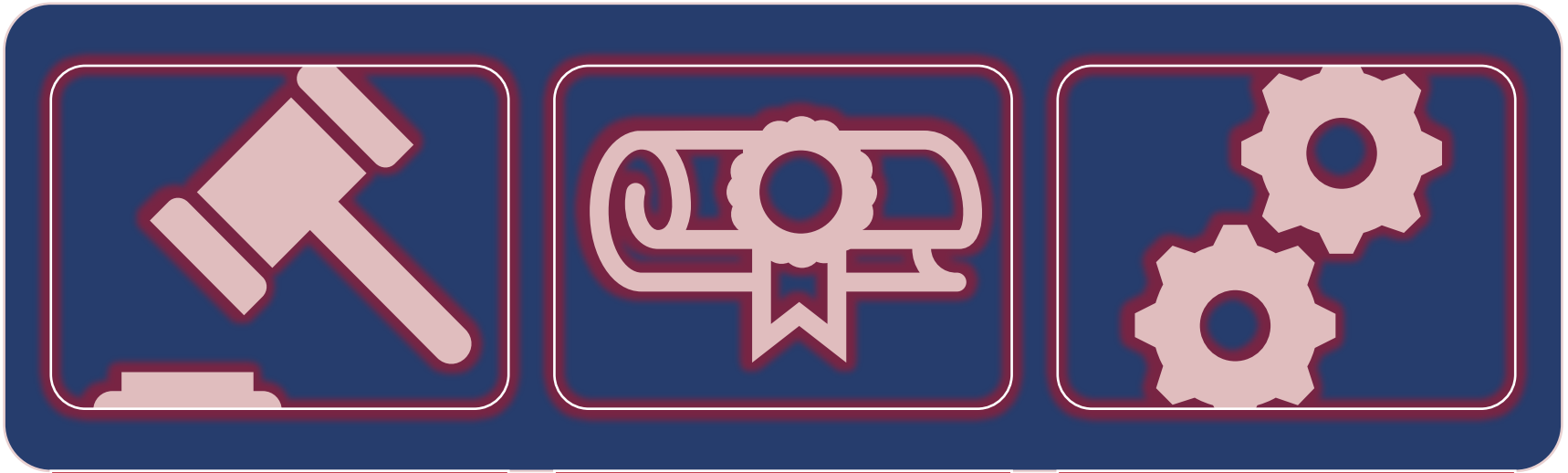
Benefits to Road Safety

Road Safety Benefits



Importance of Acting Now

Action Needed



Legal acceptance requires many bilateral agreements

No global collection and dissemination of issuing authority public keys

Interoperability requires a common standard

Conclusion

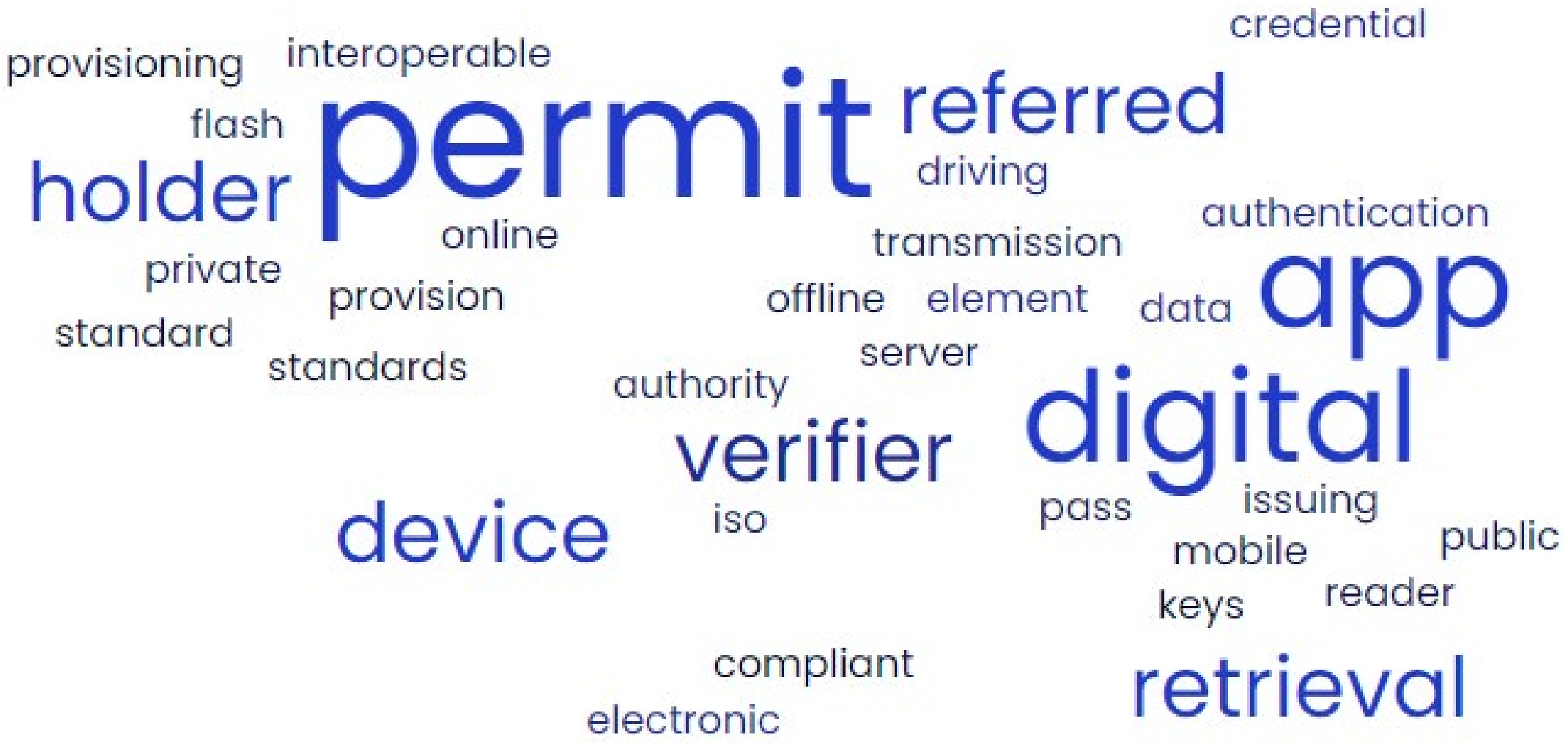
Considerations for WP.1

WP.1 invited to comment on the following possible next steps to help unlock the road safety improvement potential of digital driving permits:

1) Alleviate the burden on individual countries of establishing many bilateral agreements
2) Become involved in the collection and dissemination of the public keys of digital driving permit issuing authorities (like ICAO does for passports)
3) Ensure interoperability by recognizing ISO/IEC 18013-5 as the common technical standard for digital driving permits

Annex A:
Glossary

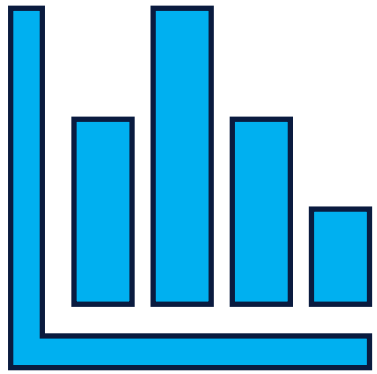
Terms and Abbreviations



Annex B: Global Status

Detailed Status by Country

- Country
- Issues digital permit?
- Standard used, or that will be used
- What needs to be in place for verifiers to read and authenticate?
- What is desired to be in place to trust digital permits from other countries
- Other remarks/Notes



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