

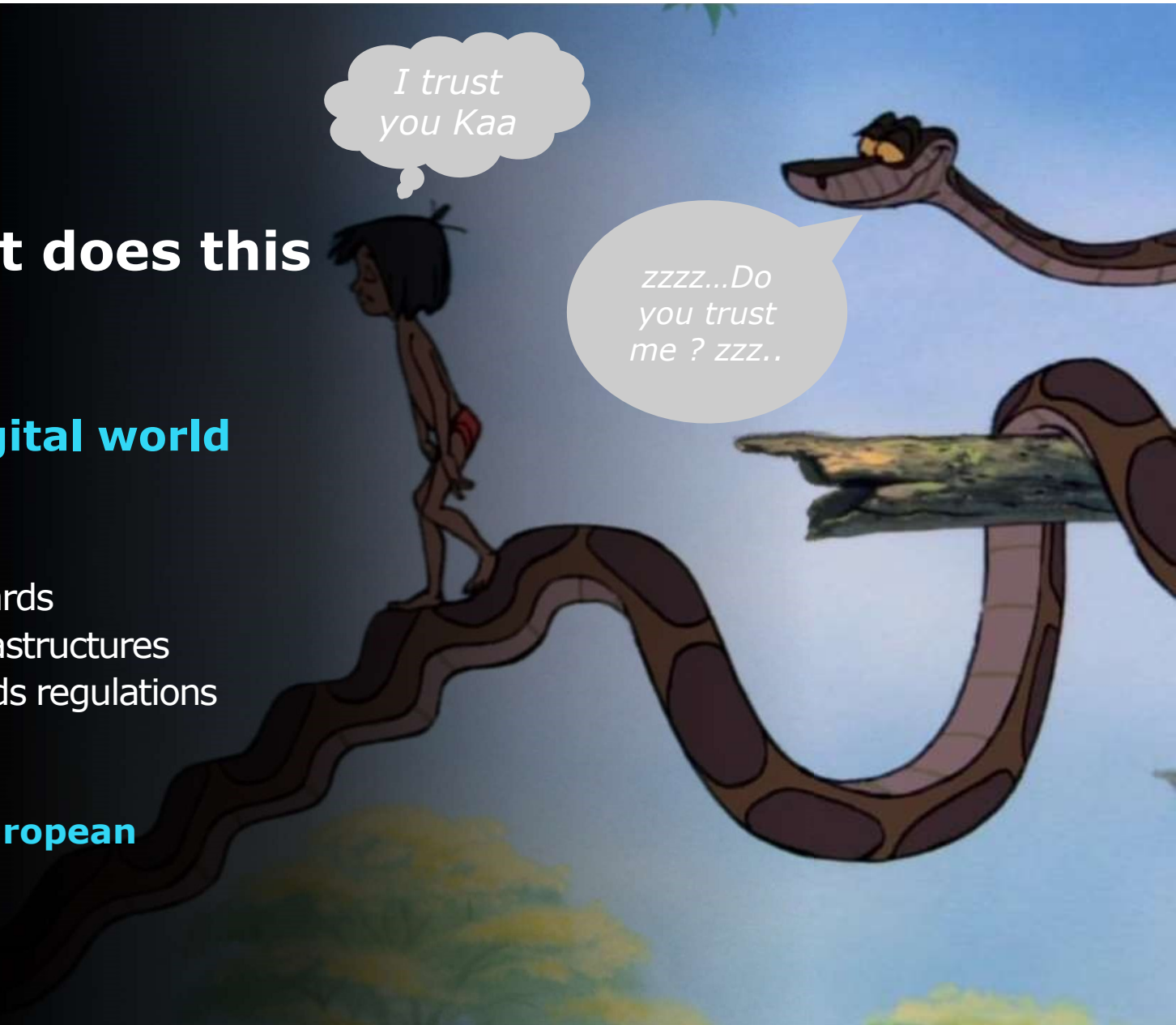


Building Trust in the Digital World: The European Digital Identity Vision

Date: 21 September 2021
Event: ENISA Trust Services Forum 2021
Presenter: Dr. Kim Nguyen, Managing Director of D-Trust GmbH (a company of the Bundesdruckerei Group) and Board Member of TeleTrust, IT Security Association Germany

A Trusted ID – What does this mean?

- **Identification in the digital world**
- **Creating trust by**
 - a) Technical means: trend towards decentralized public key infrastructures
 - b) Political means: trend towards regulations as trust enablers
- **The European Vision: The European Digital Identity Framework**

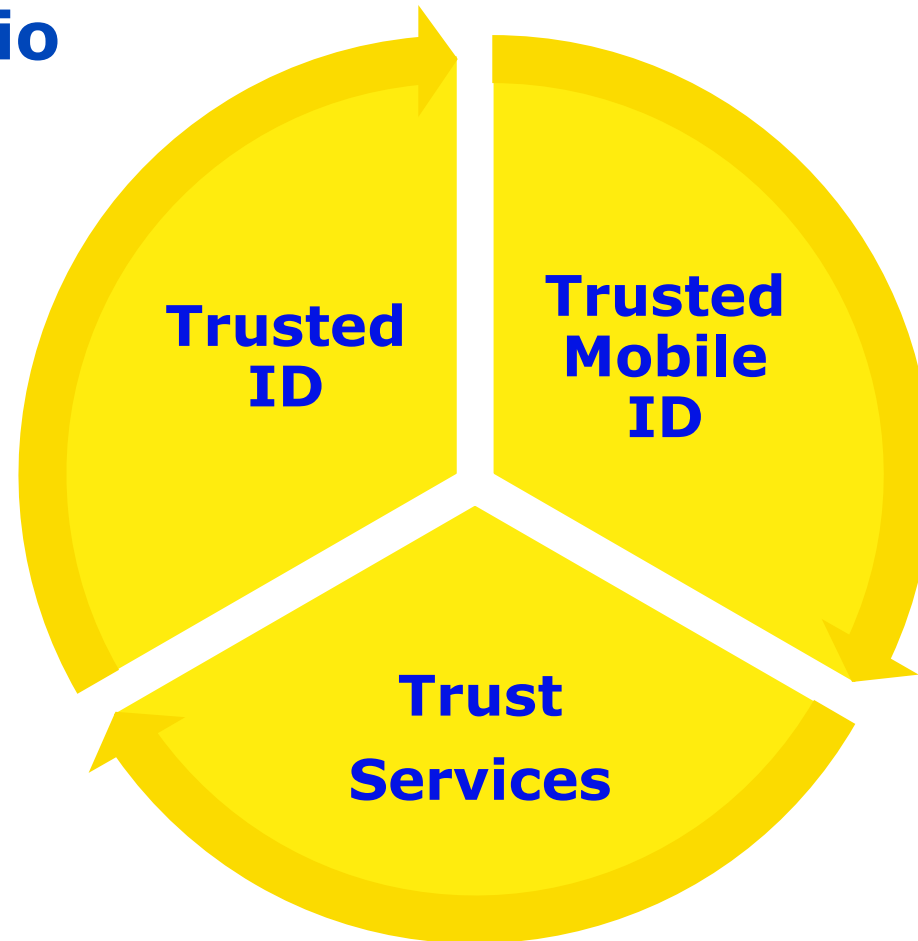


Key Characteristics of the European Identity Vision

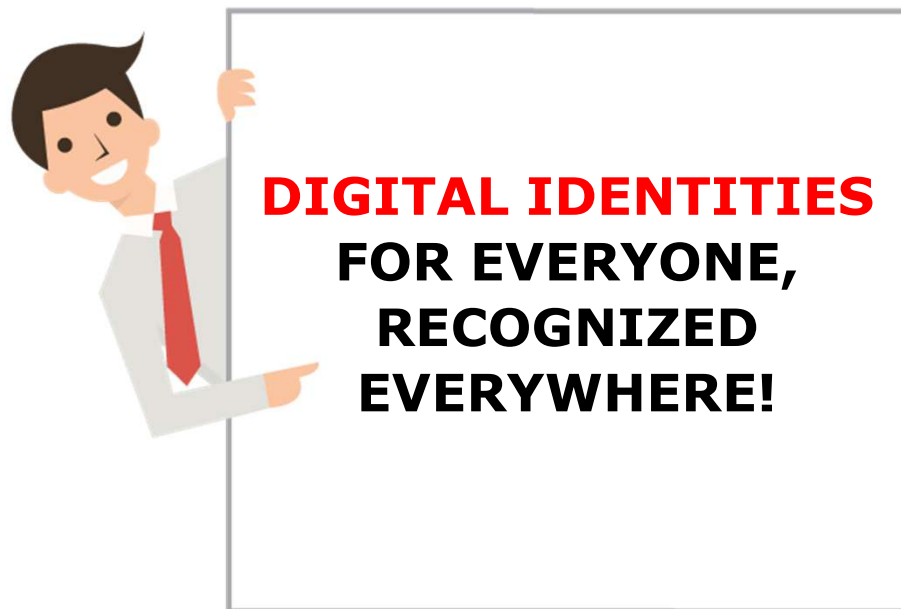


- 1. Based on state sovereignty**
- 2. Mutual recognition**
- 3. User ownership of identities, data and certificates**
- 4. Harmonized standards**
- 5. High usability**
- 6. Transparency**
- 7. Safe operation**
- 8. Wide range of services**

The Golden Trio



State Obligation to issue Digital Identities



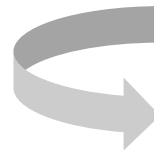
Regulatory Proposal:

Member States are obliged to issue a digital identity to **every citizen and company** and to recognize these identities as analogue identities.



→ **Basis for further developments**

Ownership and Flexible Sharing of Identities, Data and Certificates



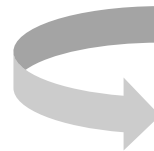
Regulatory Proposal:

Citizens and companies **can decide what aspects of their identity, their data, and their certificates they want to share** with third parties.



- Digital sovereignty
- Based on the digital wallet

Introduction of European Digital Identity Wallets



Regulatory Proposal:

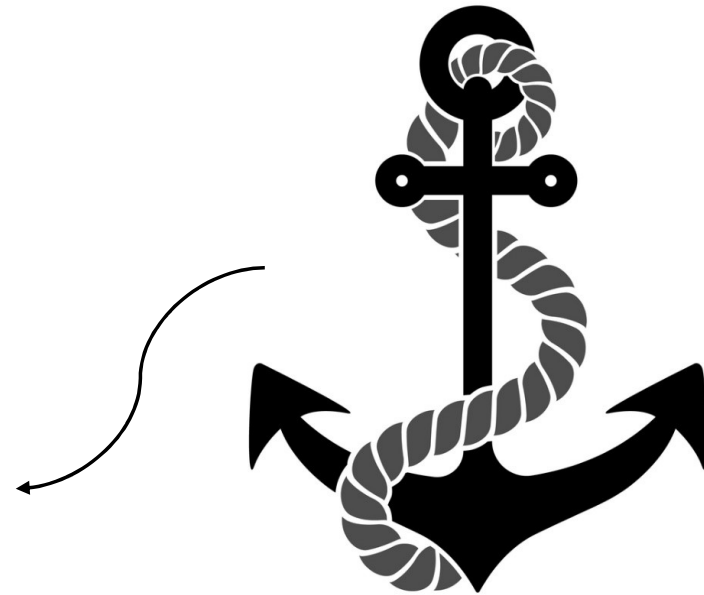
Introduction of European Digital Identity Wallets **issued either by the member state** itself or on its behalf.



→ **Secure, interoperable und mutually recognized proofs of identity**

Introduction of European Digital Identity Wallets

Need: Clarification that the electronic ID card serves as **secure “anchor for identity”**



Access to Secure Elements and Software

Access to secure elements as the base of a secure mobile euID

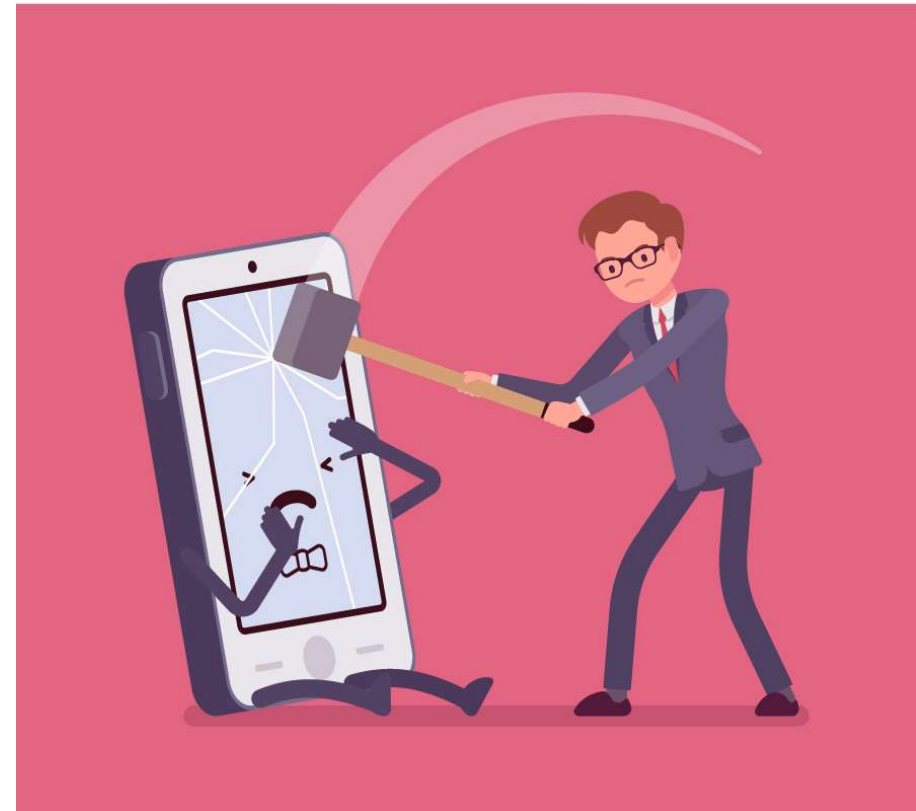
Regulatory Proposal:

Referral to the Digital Market Acts to **allow business users and providers of ancillary services access to secure elements in smartphones**

→ **Access to the secure element of smartphones is crucial**

→ **Legal basis might be too weak**

Need: Inclusion of an obligation for device manufactures directly in the text of the regulation



New Certification Requirements for the Wallet



**EU-WIDE
RECOGNITION
BASED ON
UNIFORM
STANDARDS**

Regulatory Proposal:

Wallets and other means of electronic identification must be accepted by member states. **EU-wide certification standards for wallets** through implementing acts

→ Simplify usage and increase applicability across the EU through **harmonization**

New Trust Services

Offering a trust service for ANY opportunity; a wide range of services

Regulatory Proposal: Complementing the EU-wide trust space with new trust services: **Trust services for electronic archiving, for electronic attestation of attributes, for the management of remote electronic signatures; seal creation devices and electronic ledgers.**

→ **Enormous opportunities** for the Digital Single Markets and all European citizens and companies.



Qualified Website Authentication Certificates (QWACs)



Regulatory Proposal:

Display of qualified website certificates by browser in a **consumer-friendly manner**



→ More **transparency and data**
/consumer protection

→ Counteract the power of non-European digital companies

Harmonization in the Certification of Trust Services



Regulatory Proposal:

Greater harmonization of the requirements for certification of trust services through the adoption of implementing acts



→ **centralized approach**

Need: Transition period, in case that the previously approved system based on „comparable security“ may no longer be permissible in the medium term

Conclusion

The European identity vision is made of three elements:

1. Trusted ID as the basis
2. Trusted mobile IDs and digital wallets as practical implementation of the vision / centerpieces of the vision
3. Various trust services that complement an encompassing eco-system

→ Need to ensure that the bases of the centerpiece, the secure hardware elements, can be accessed.



Thank you

A glowing cyan neon sign with the words "Thank you" in a cursive script is mounted on a dark brick wall. The sign is illuminated, creating a bright glow against the dark background. A black power cord is visible on the right side of the wall, running vertically and then horizontally to the sign.