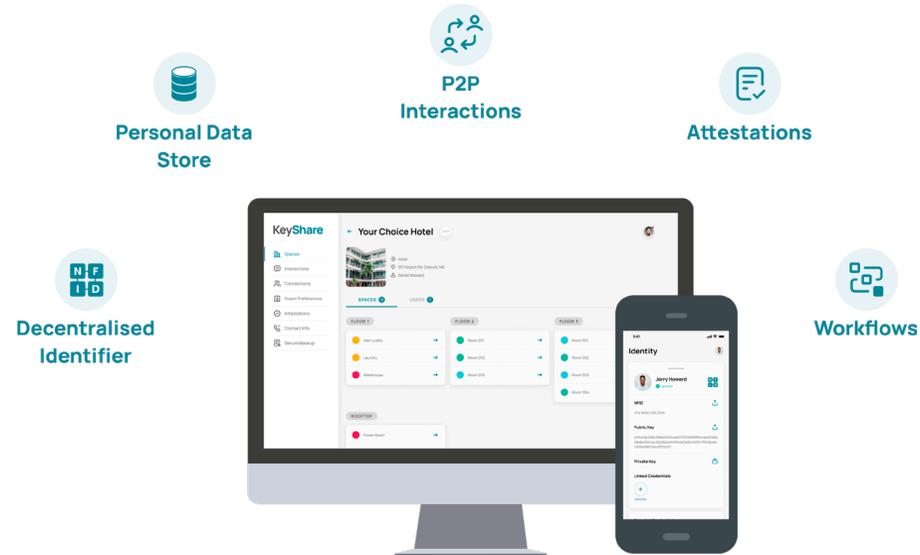


KeyShare

by PassiveBolt™

SSI based Access Control



A horizontal bar containing several award logos and their corresponding text:

- HFTP PRESENTS HITEC** 2023 Innovation Award
- CES INNOVATION AWARDS** 2021 HONOREE
- CES INNOVATION AWARDS** 2020 HONOREE
- Forbes NEXT 1000 HONOREE** 2021
- 3 Granted & 2 Pending Patents**
- Forbes** Top 7 Unmissable Tech 2020
- Internet of Things World** Nominee Best 2020 Consumer IoT

Confidential – Do Not Distribute

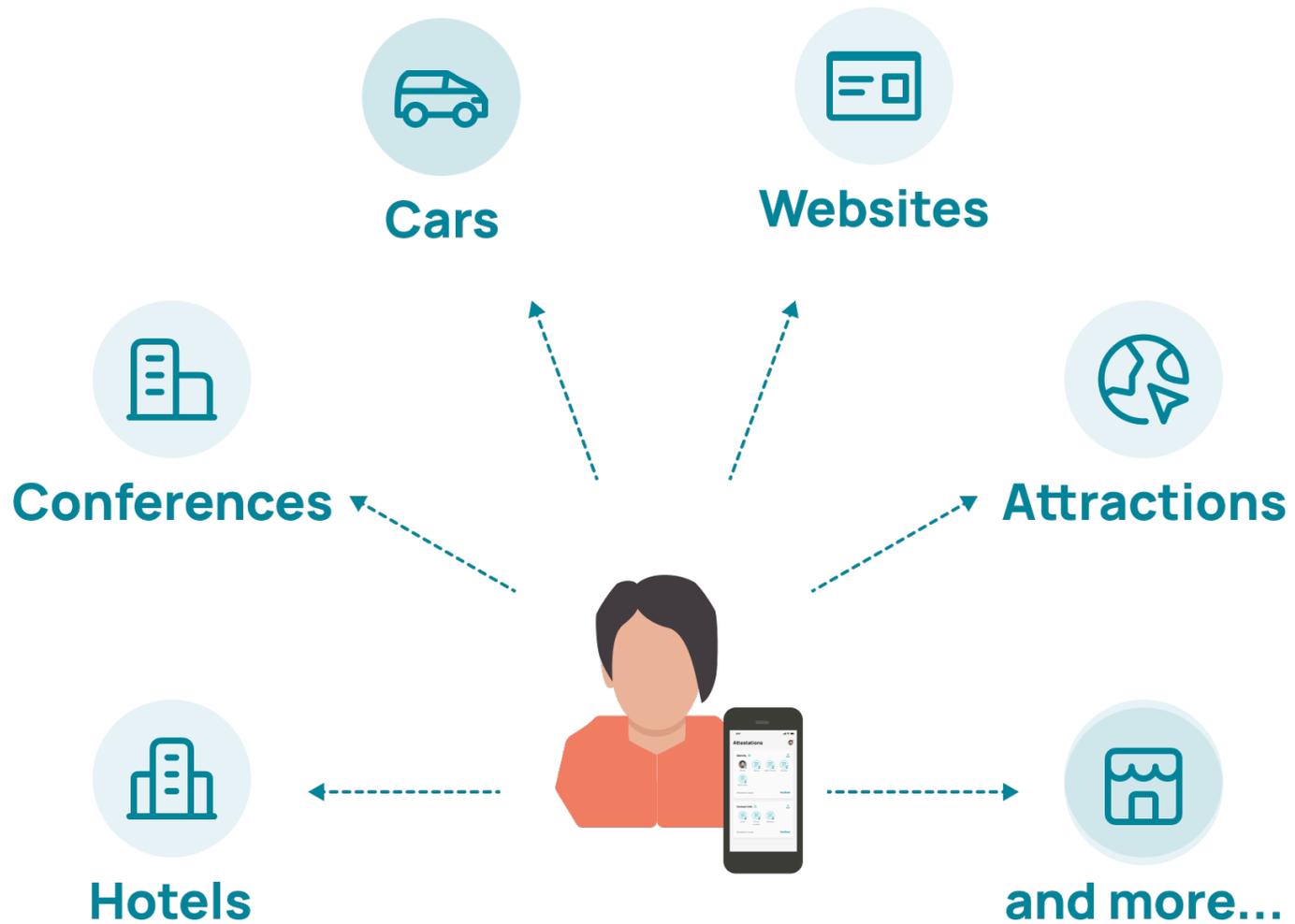
Overview

- **Background and Concept**
- **Key Components of SSI**
- **Example Use Cases**
- **Intro to KeyShare**

Background and Concepts

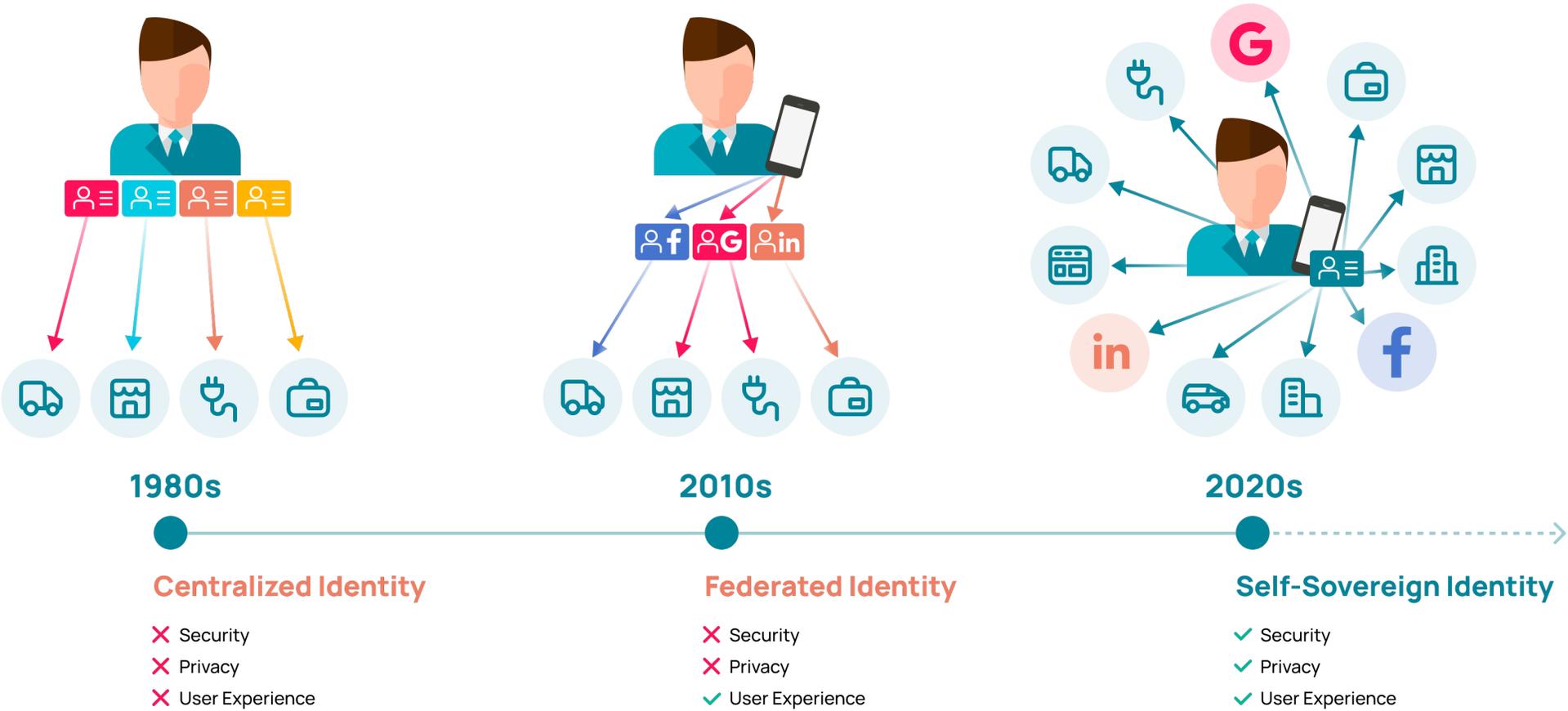
Concept

Identity



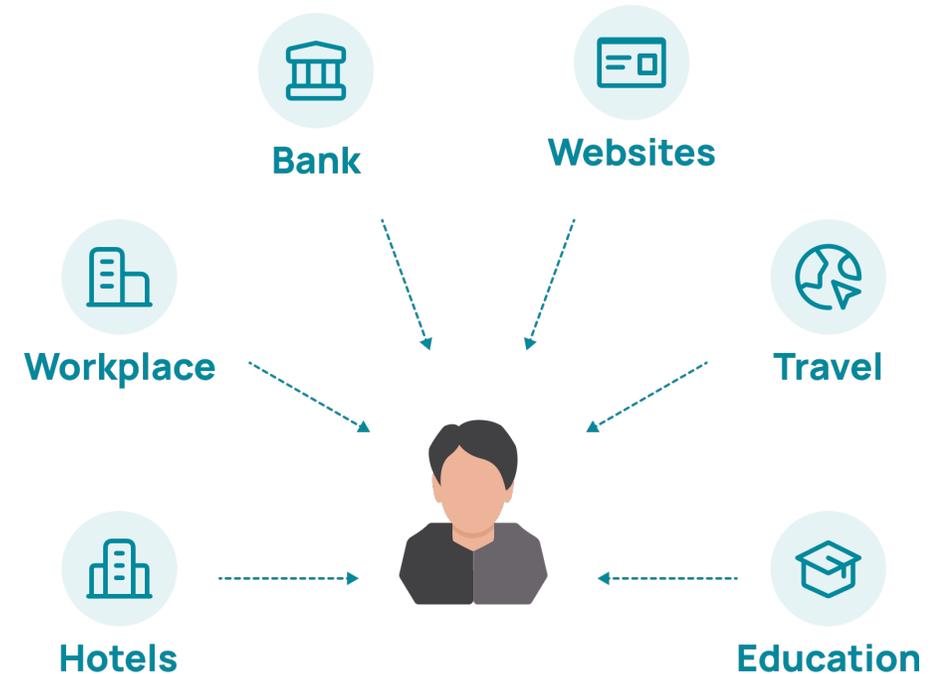
Intro to SSI

What is Self-sovereign identity (SSI)?



Principles of SSI

- **Control:** Users have authority over their own identity
- **Access:** Users decide who can access their data
- **Transparency:** Clear policies on data usage
- **Portability:** Ability to use identity across different platforms



Key Components of SSI

Decentralized Identifier (DIDs)

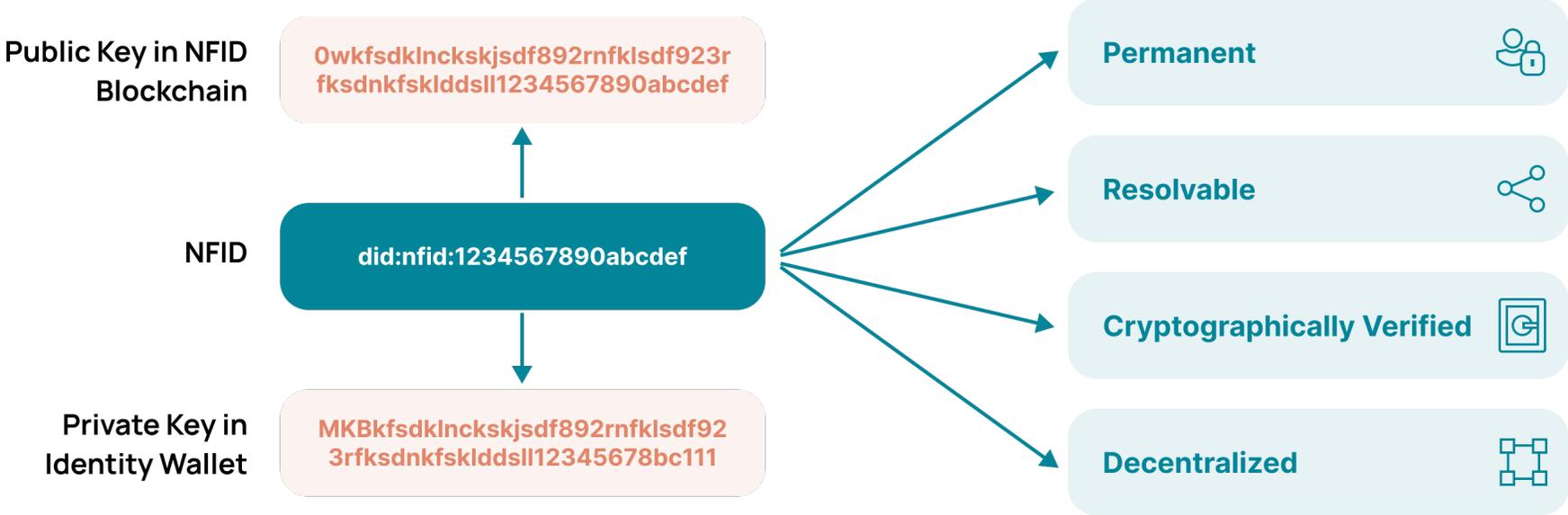
Decentralized Identifiers (DIDs) are globally unique, persistent, and resolvable identifiers that enable individuals, organizations, and things to establish and control their digital identity.

did:nfid:1234567890abcdef

A Decentralized Identifier, or DID, is a URI composed of three parts: the scheme did:, a method identifier, and a unique, method-specific identifier specified by the DID method.

Key Components of SSI

Decentralized Identifier (DIDs)



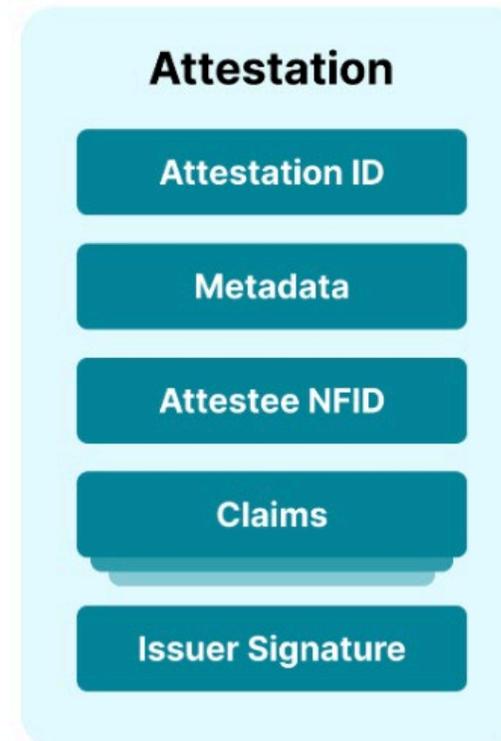
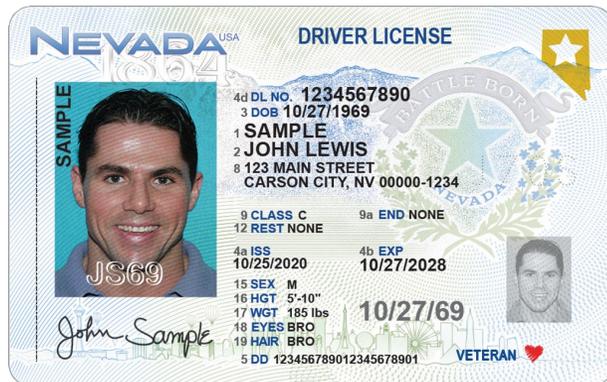
Standards Body:



Key Components of SSI

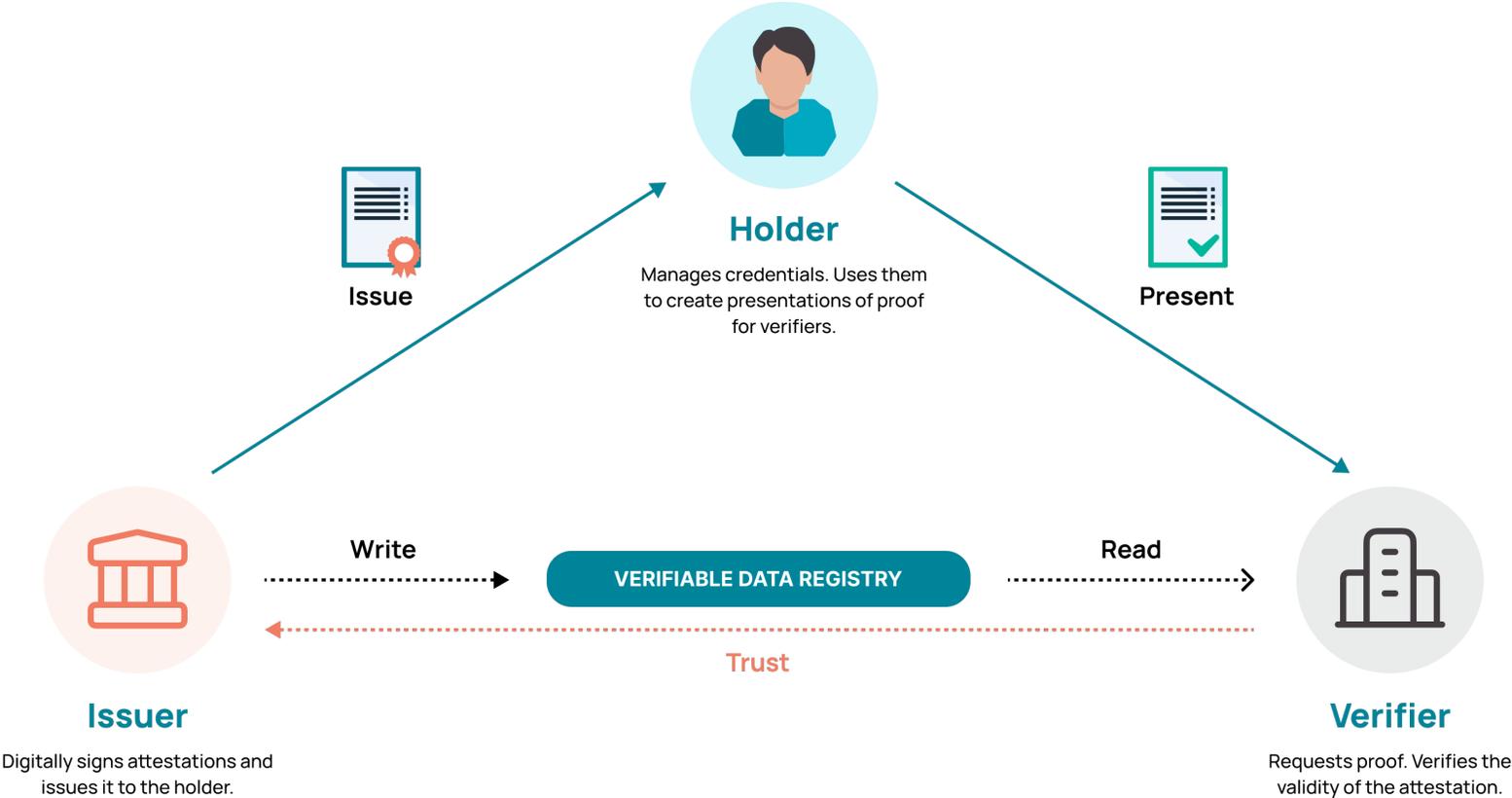
Attestation (VC) Example

A verifiable credential is a digitally signed attestation of a fact or claim about an entity, such as a person's identity, qualifications, or attributes, that can be cryptographically verified by others.



Key Components of SSI

Trust Triangle



Example Use Cases

Access Control

SSI as an enabler for secure, decentralized access control

- Reimagining access control with SSI
- Trust without centralized authorities

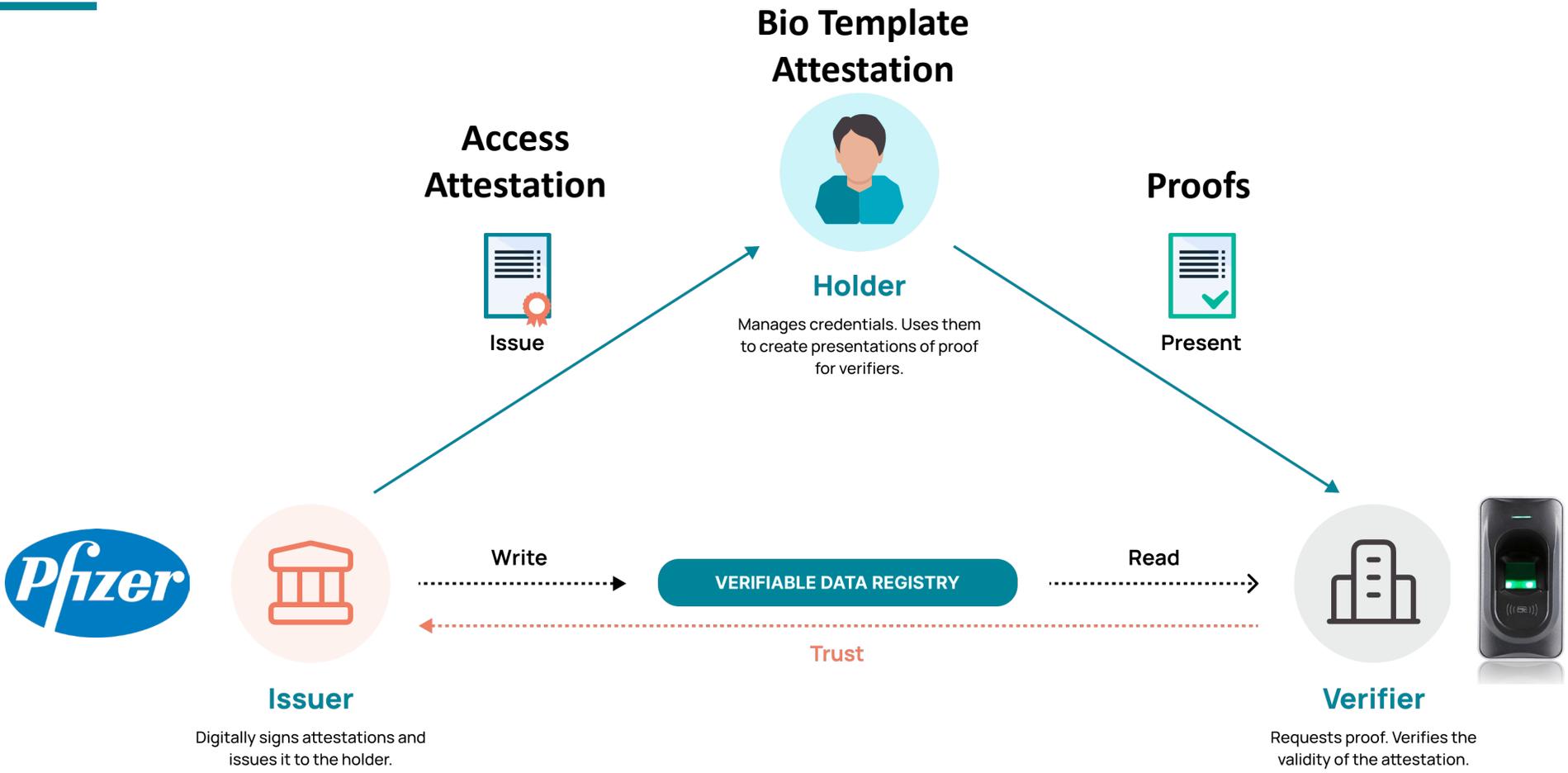
Some advantages over traditional access control systems

- Improved security: Decentralized systems reduce breach risks
- User-centric: Empowering users to manage access
- Enhanced privacy: Minimizing unnecessary data storage
- Compliance by design to expanding privacy laws (GDPR, BIPA, CCPA, VCPA, CO, NY etc.)



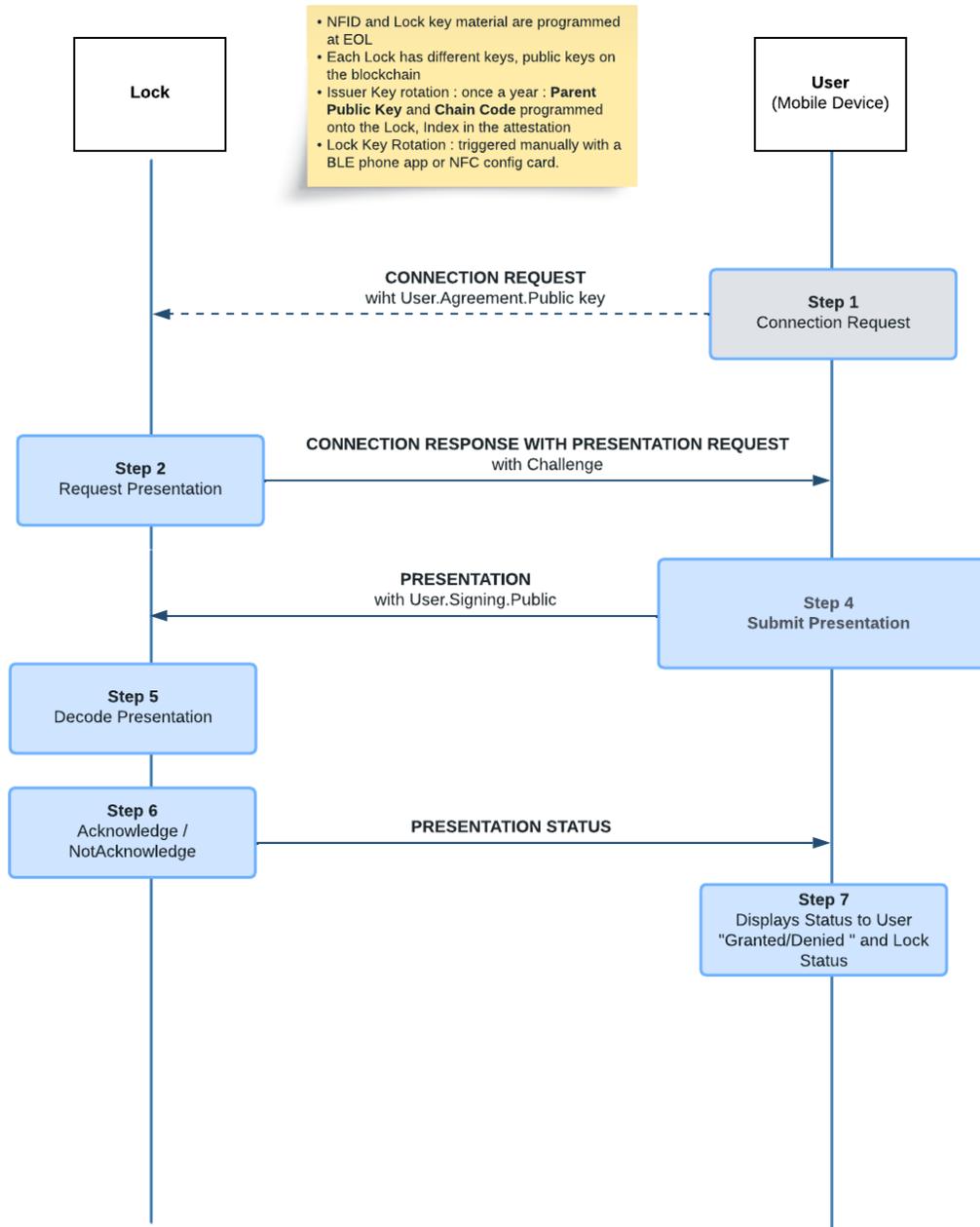
Use Cases

Decentralized Biometrics



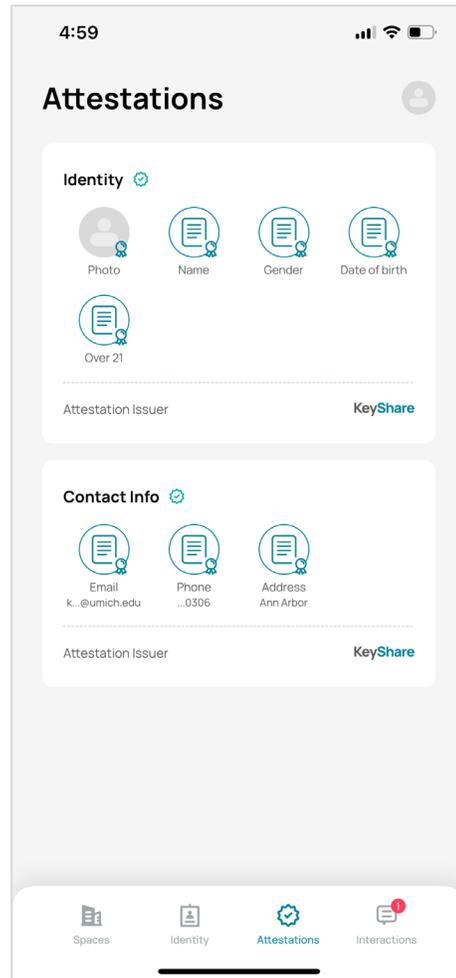
Use Cases

BLE Communication Flow

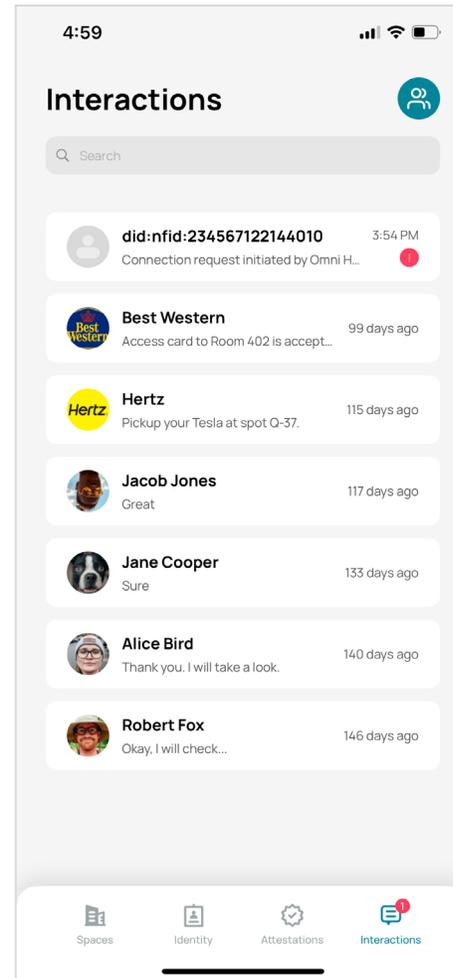


Intro to KeyShare

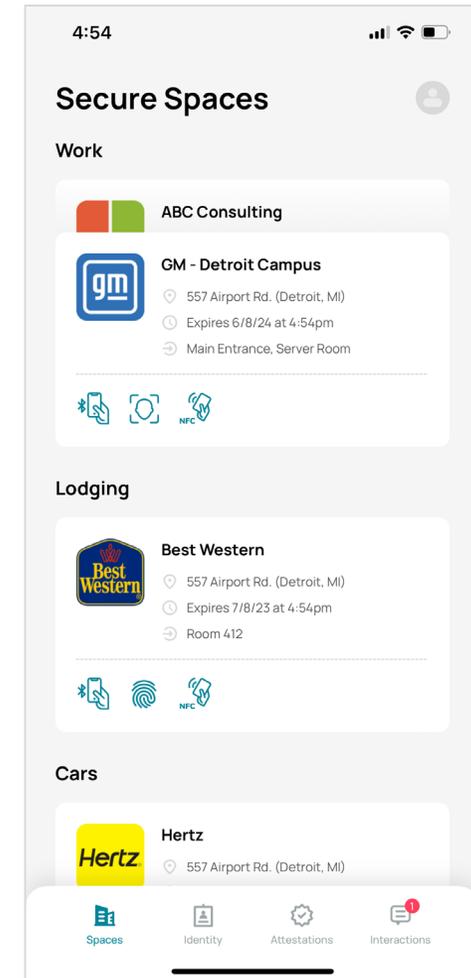
Intro to KeyShare



Securely store & share traveler profile



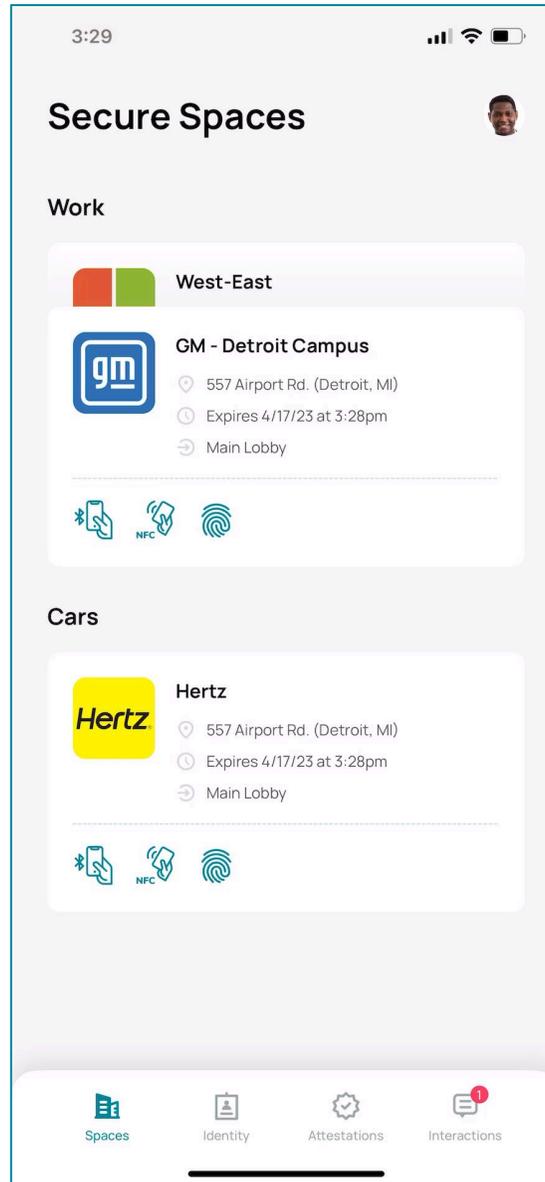
Interact with traveler providers



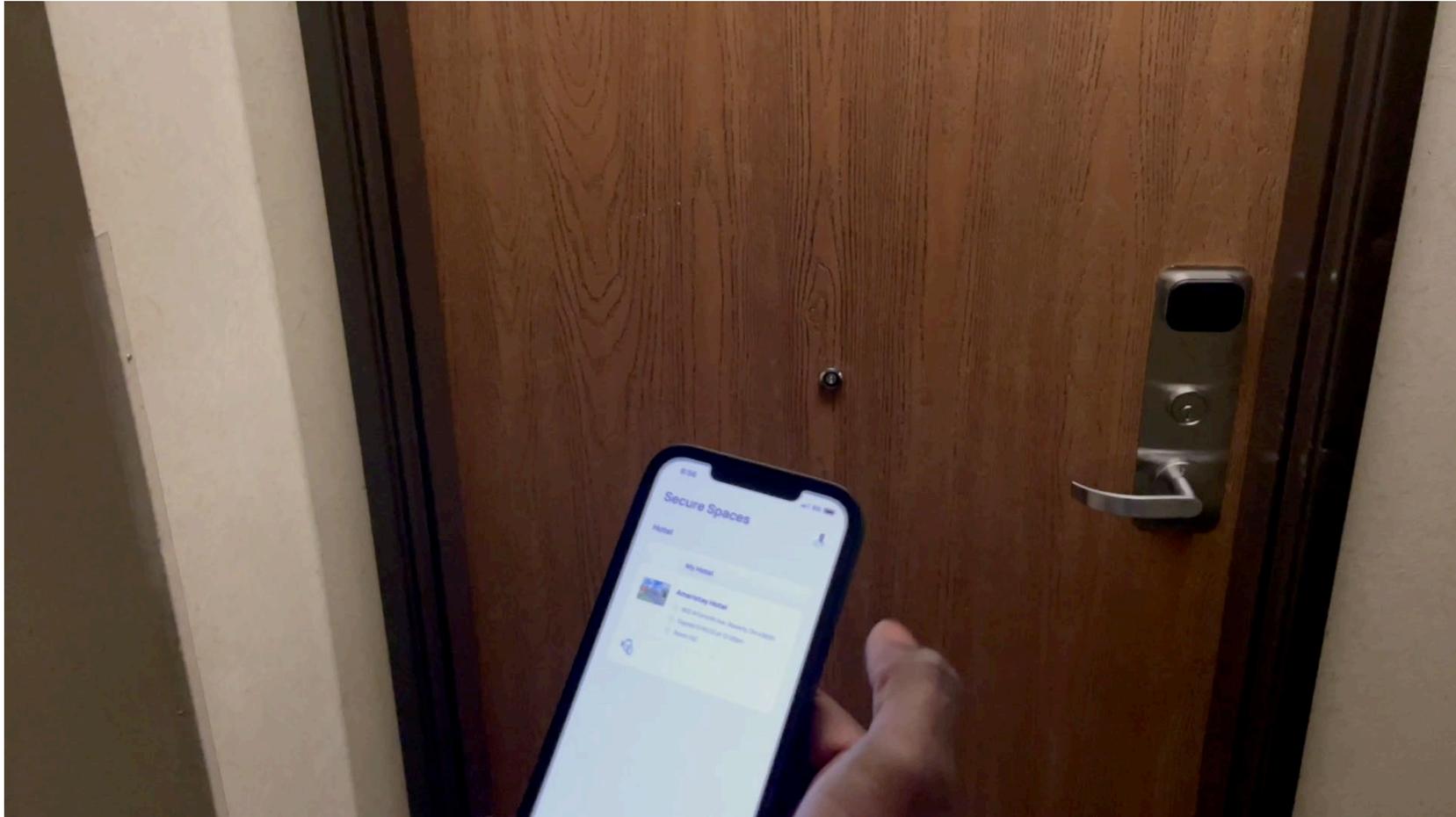
Receive access (e.g. keys, pass)

Intro to KeyShare

KeyShare Wallet

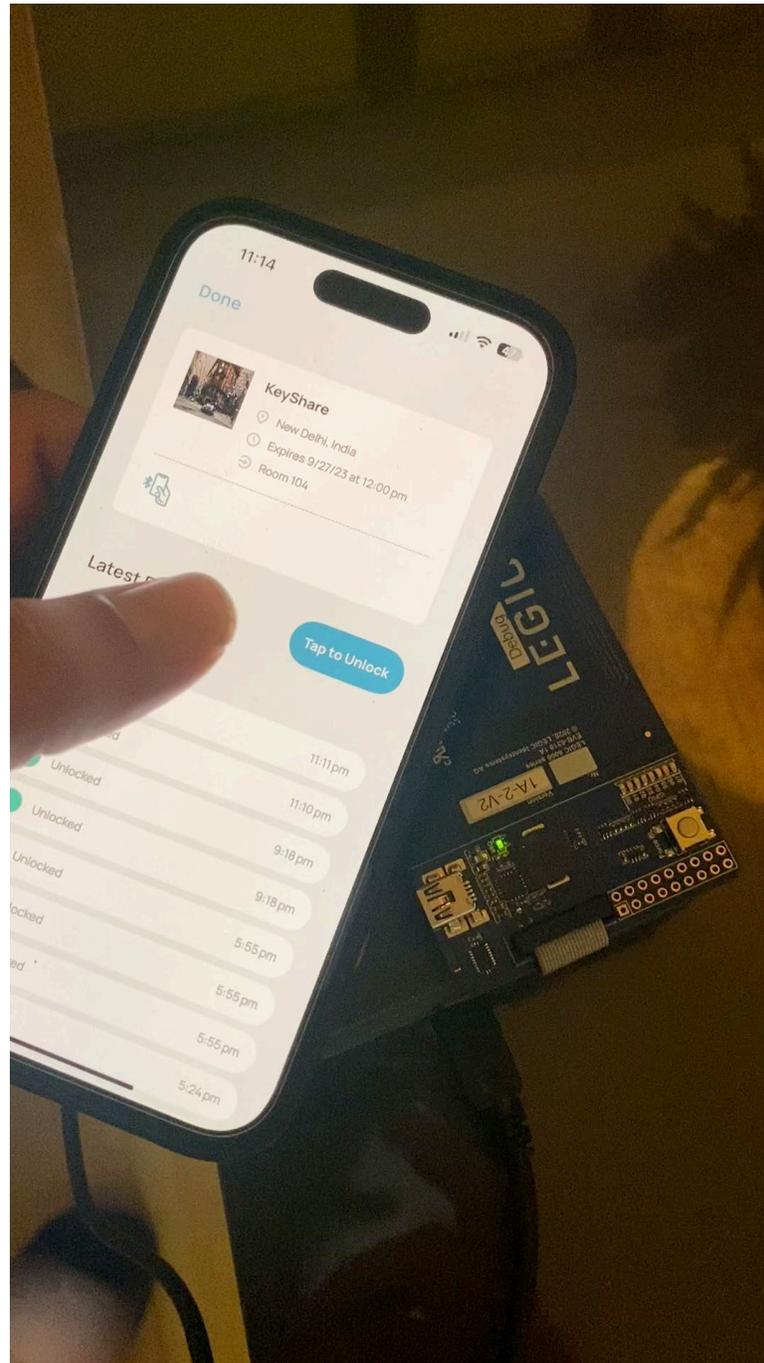


Mobile Key



Intro to KeyShare

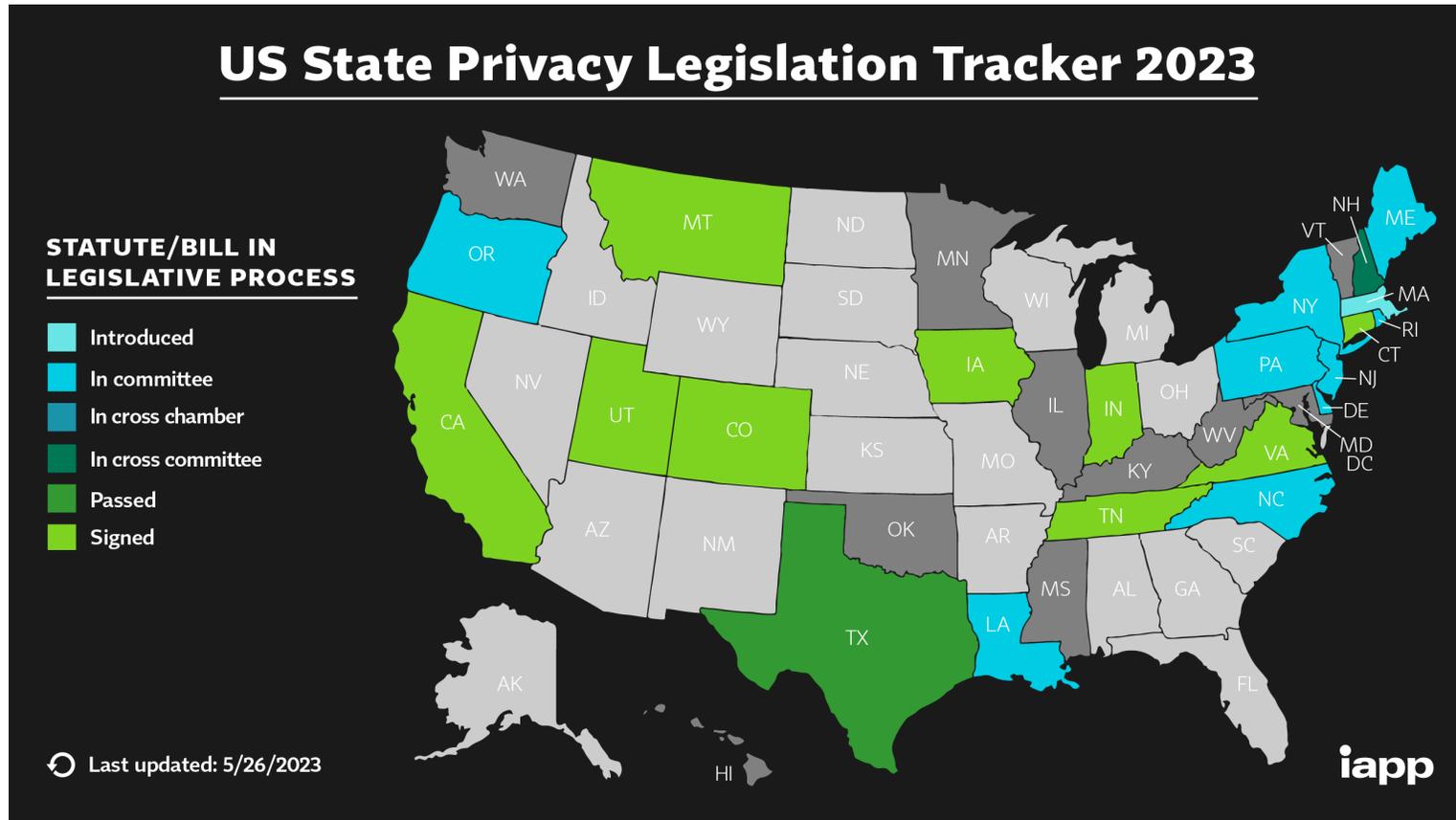
Mobile Key (Legic)



Future Trends and Developments

Adoption of SSI

SSI has significant legislative momentum



Bhutan National ID

Adoption of SSI

...along with institutional and industry momentum



UNITED NATIONS



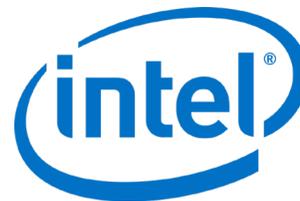
Canada



European Commission



U.S. Customs and
Border Protection



and many more...

Future Trends and Development

- Governance and Trust Framework



- New standards and protocols: Evolving the SSI ecosystem



Thank you

We invite you to join us on this exciting journey into the future of access control by empowering users to control their digital identities and access both digital and physical spaces without compromising privacy or identity data.

Contact

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