



TURING SPACE

We bridge trust across borders.

© Turing Space Inc.

<https://turingcerts.com/>



International collaboration, national certification in Taiwan

Turing Space partners with WHO, UNHCR, UNESCO, APEC and 400+ authorities to empower digital trust, including eCredential and eID.

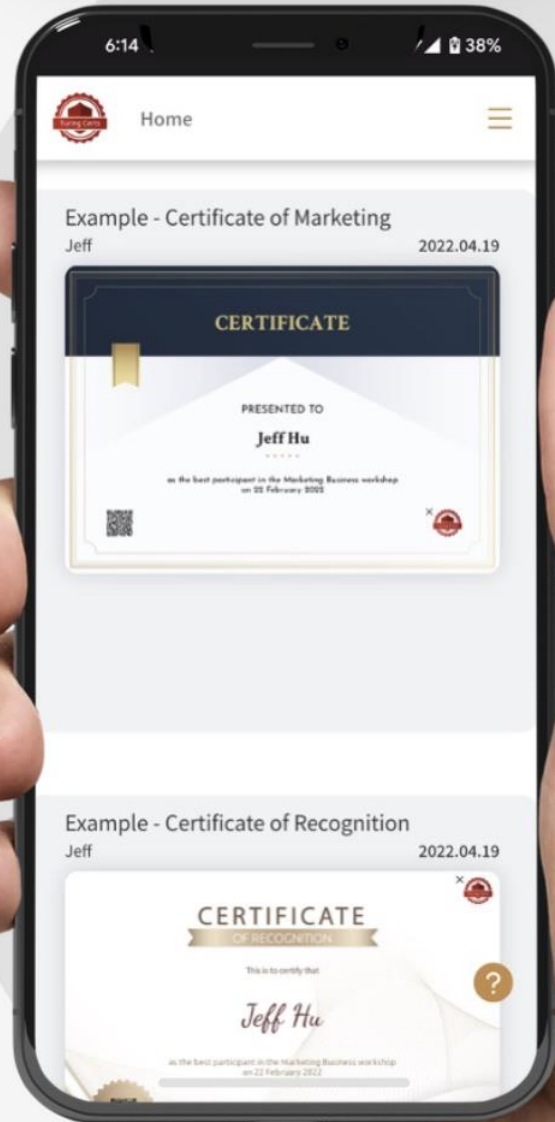


4 million+ renewable energy certificates, ensuring more authentic transaction records within the Green Energy Certificate Center's trading system.

1.6 million+ SMEs nationwide identity verification including clear access to financial records, award achievements, and operational history.



Turing Certs



Digital Credential Management System
From weeks to **minutes**



Issuer



Holder



Verifier



10 Countries and Regions



USA



Switzerland



Italy



Cyprus



Turkey



Japan



Taiwan



Hong Kong



Philippines



Malaysia



Travel verification - Taiwan x Japan

Digital identity ecosystems

Re-use of Taiwan's digital identity for user convenience and lower verification costs for Japanese service providers.

Holder

Waiting line of people receiving train tickets for foreign tourists. In-person identification is now required.

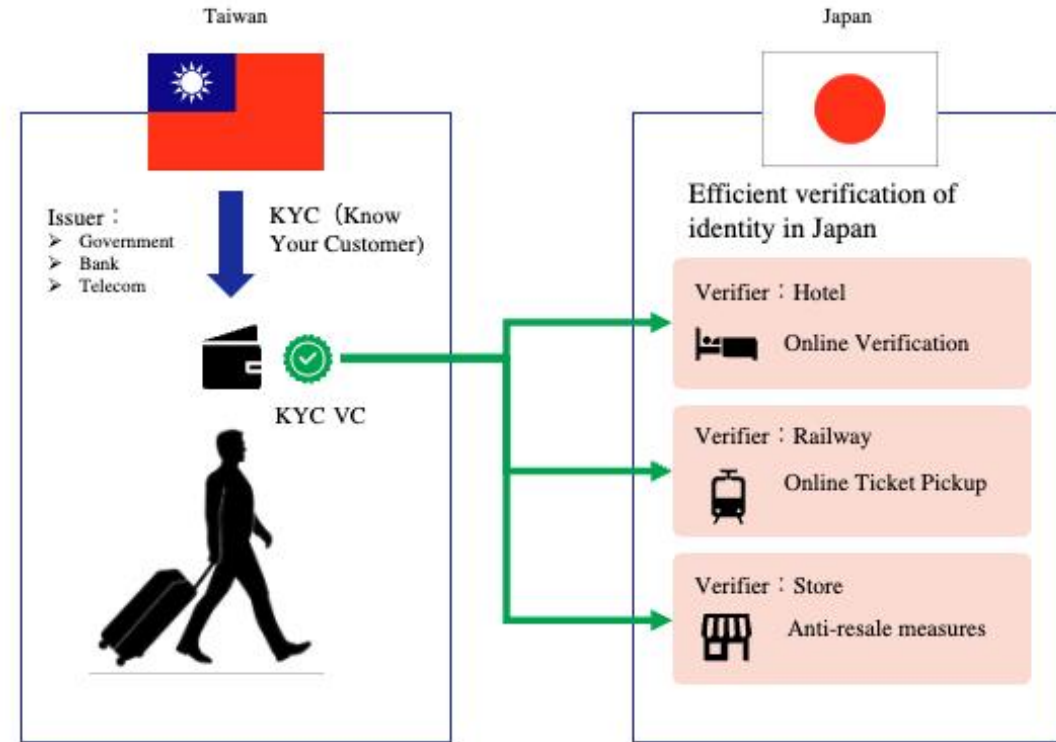


Verifier

Hotel reception and reservation sites are increasingly online.



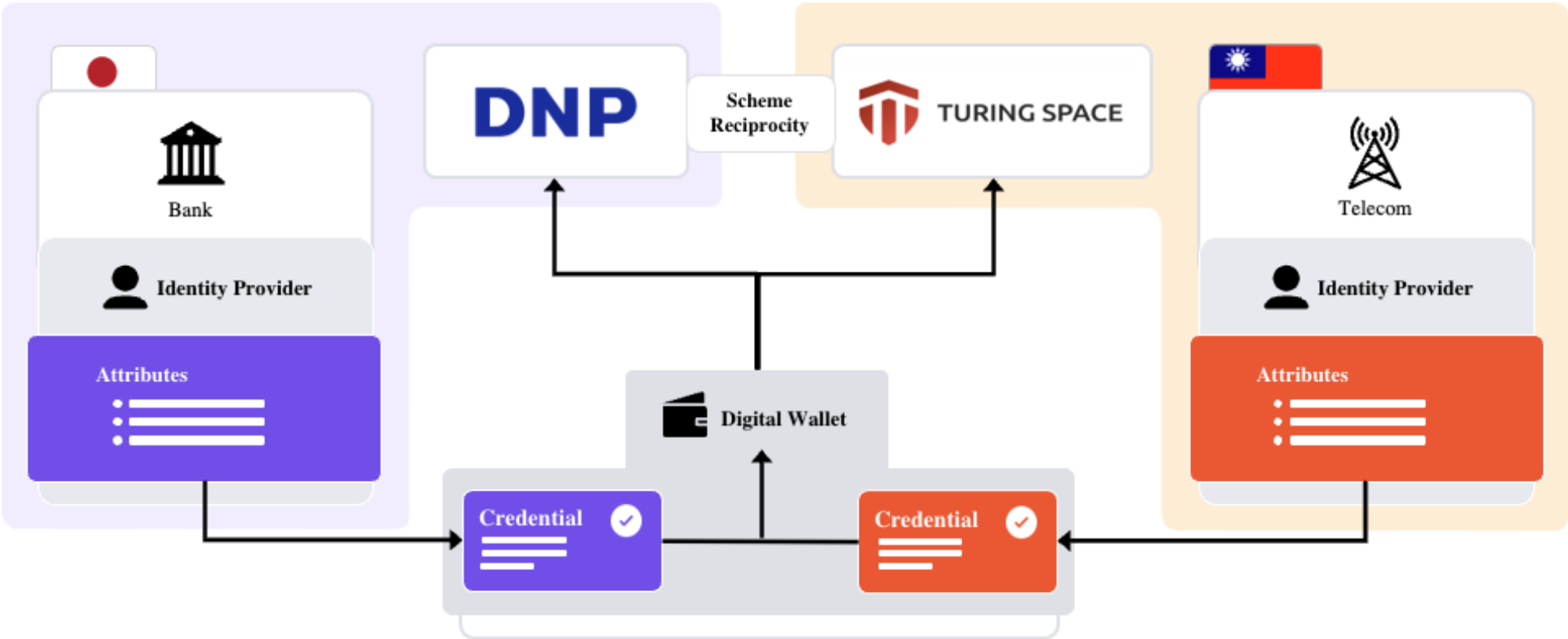
To combat fraudulent resales, Japanese stores want to strengthen customer verification.



Work records digitization - Taiwan x Japan

Digital identity ecosystems

Japan and Taiwan are strongly connected economically, and further economic benefits are expected from interoperating digital identities. By interoperating on a common scheme, DNP and Turing Space can interconnect the digital identity ecosystems of Japan and Taiwan.

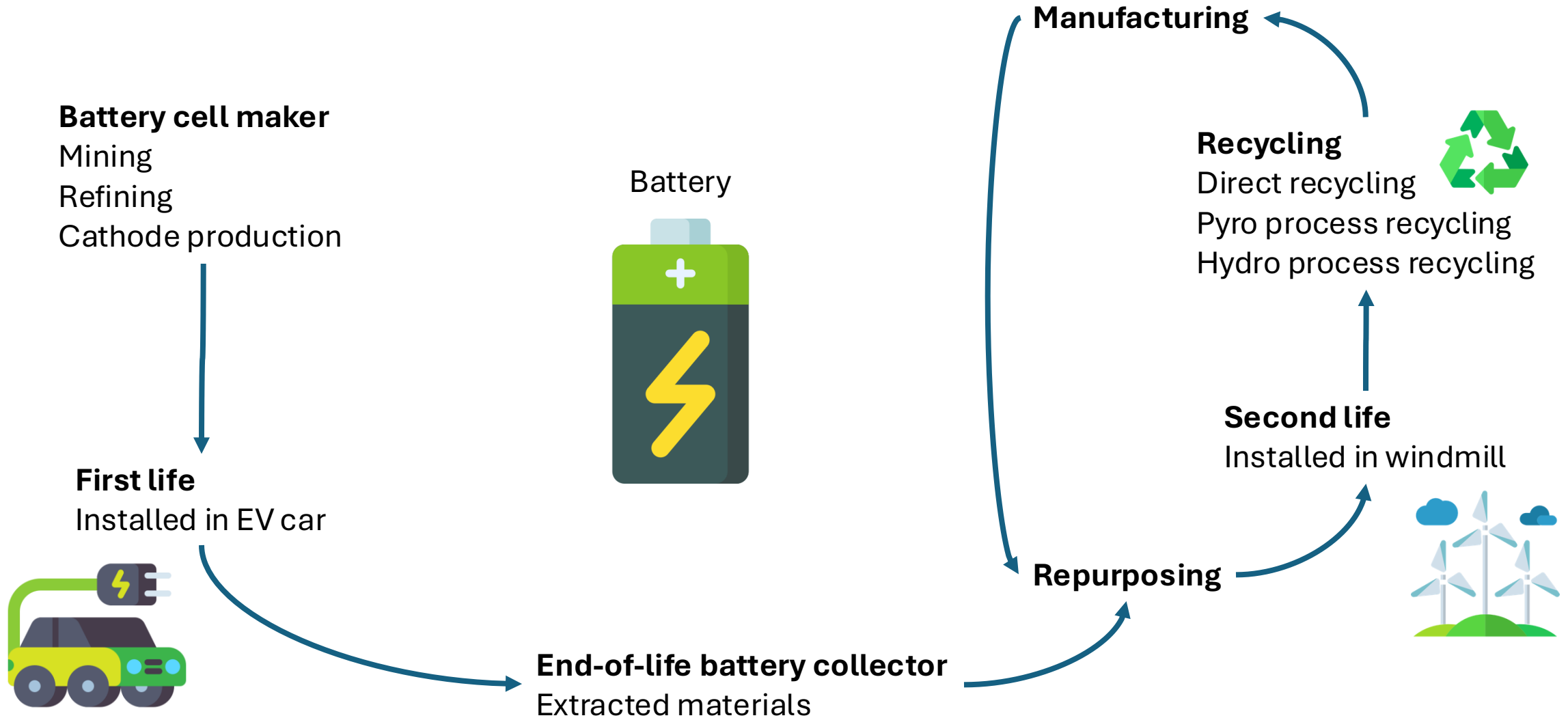




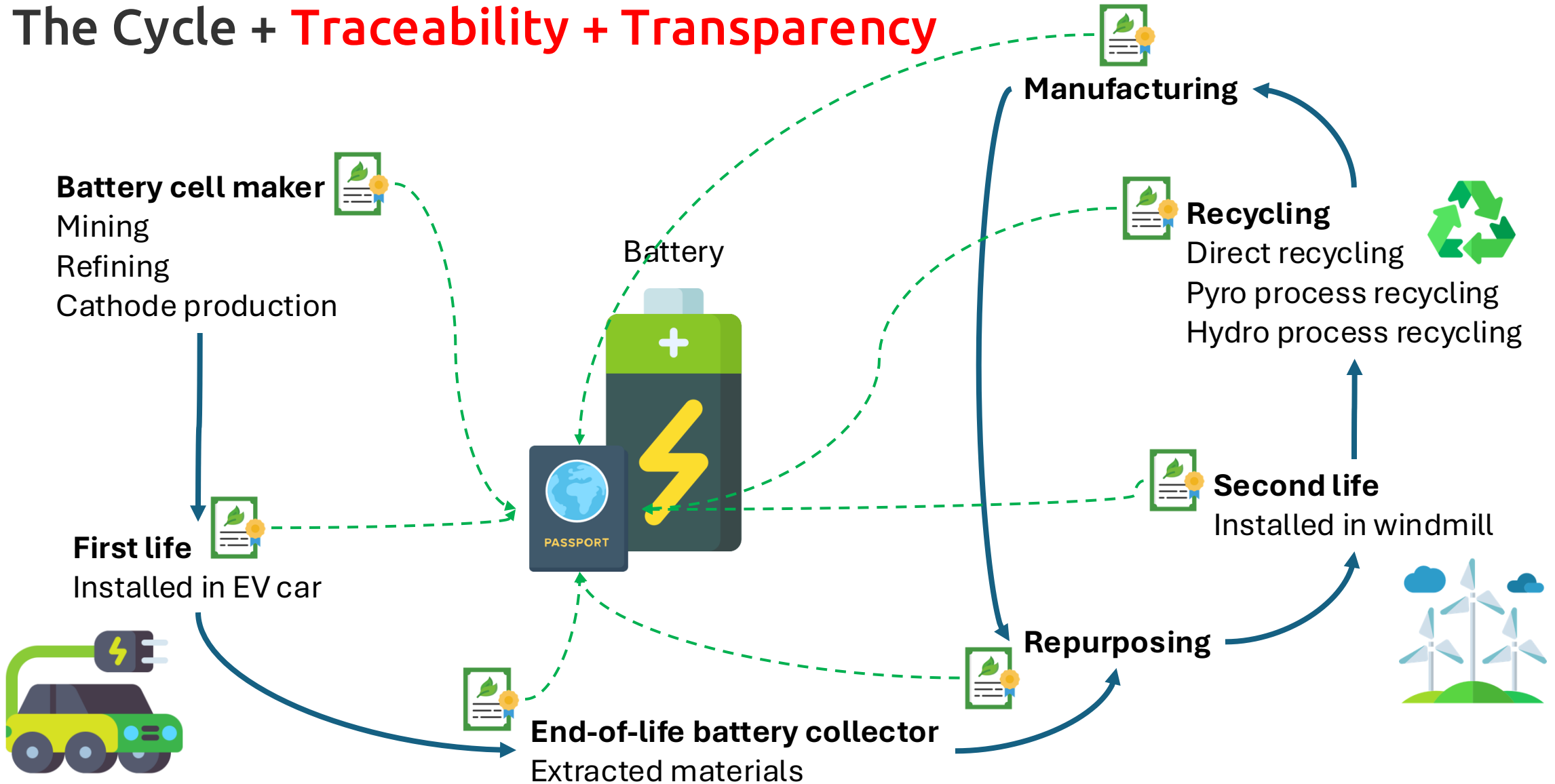
Credentializing the Lifecycle of Digital Product

**Digital Product Passport's Traceability and Transparency by
Verifiable Credential**

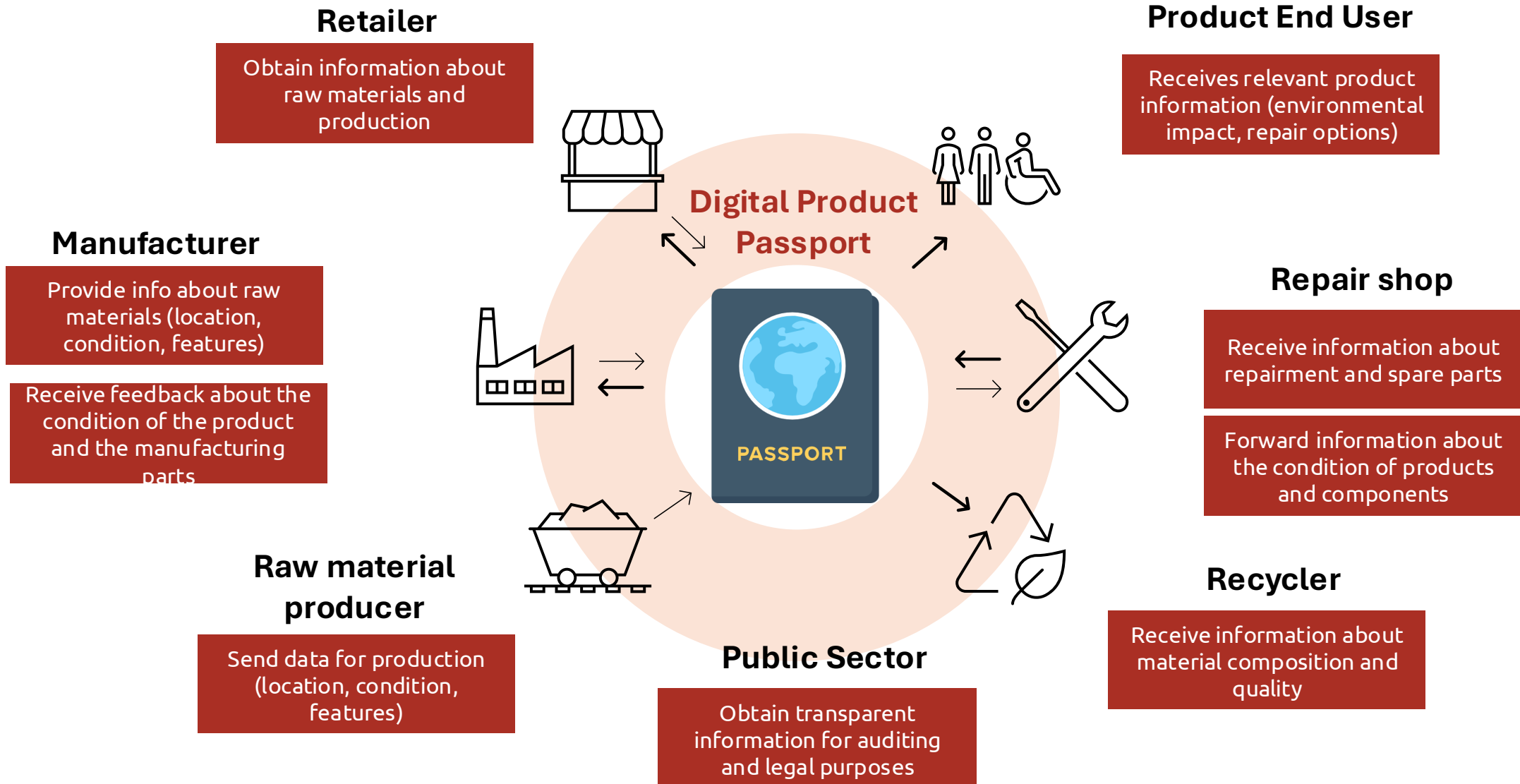
The Cycle of Physical Product



The Cycle + Traceability + Transparency



Stakeholders in Digital Product Passport



Mobile Access to Easy Data Review

Production Data



Material Composition



Technical Documents



Reuse/ Recycle Value



Return/ Repair Information



Standards & Compliance



Chain of Custody



Authenticity Guarantee



To enable sustainable development and circular economy



For each verifiable credential

Authentication (AuthN)

ID/Entity Verification

Authorization (AuthZ)

eIDAS, Digital Signature, RBAC

Interoperability

W3C DID/VC, OpenID4VC



Integrity

SHA256 Hash Comparison,
IOTA blockchain

Confidentiality

AES256 Encryption

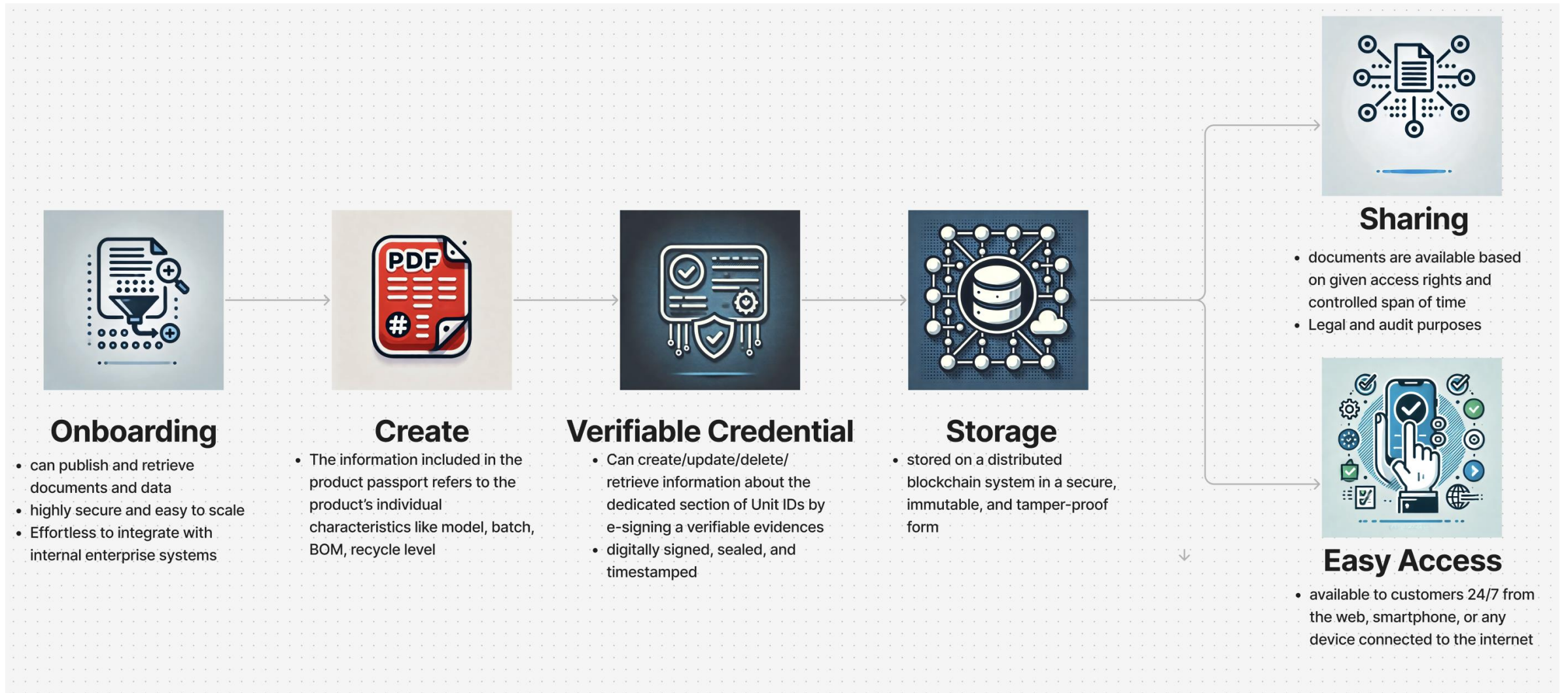
Compliance

GDPR, ISO27001, ISO27701

Summary

Each unit has a unique identifier that collects verifiable credentials from authorized entity through the lifecycle. Each verifiable credential has its own access control list of allowance.

Data flow in DPP



Benefits to stakeholders



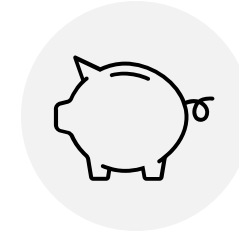
Reduced Cost and Efficiency Boosted

Fast multiparty document and data sharing capabilities with full audit trail and transparency based on a blockchain system allow stakeholders to **increase confidence in supply chain processes**



Developing Customer Loyalty and Brand Trust

Providing a digital passport fosters transparency, **eliminates the risk of data manipulation, and guarantees the provenance and authenticity of data**, therefore builds trust with customers by giving them **visibility into the vehicle's lifecycle**



Compliant to regulatory standards and Sustainable Callout

A digital product passport simplifies the process of complying with **increasingly strict environmental, safety, and traceability regulations**



Case study - Digimarc (2023)

Verifiable Credentials

VCs verify the identity and authorization of each participant in the product lifecycle

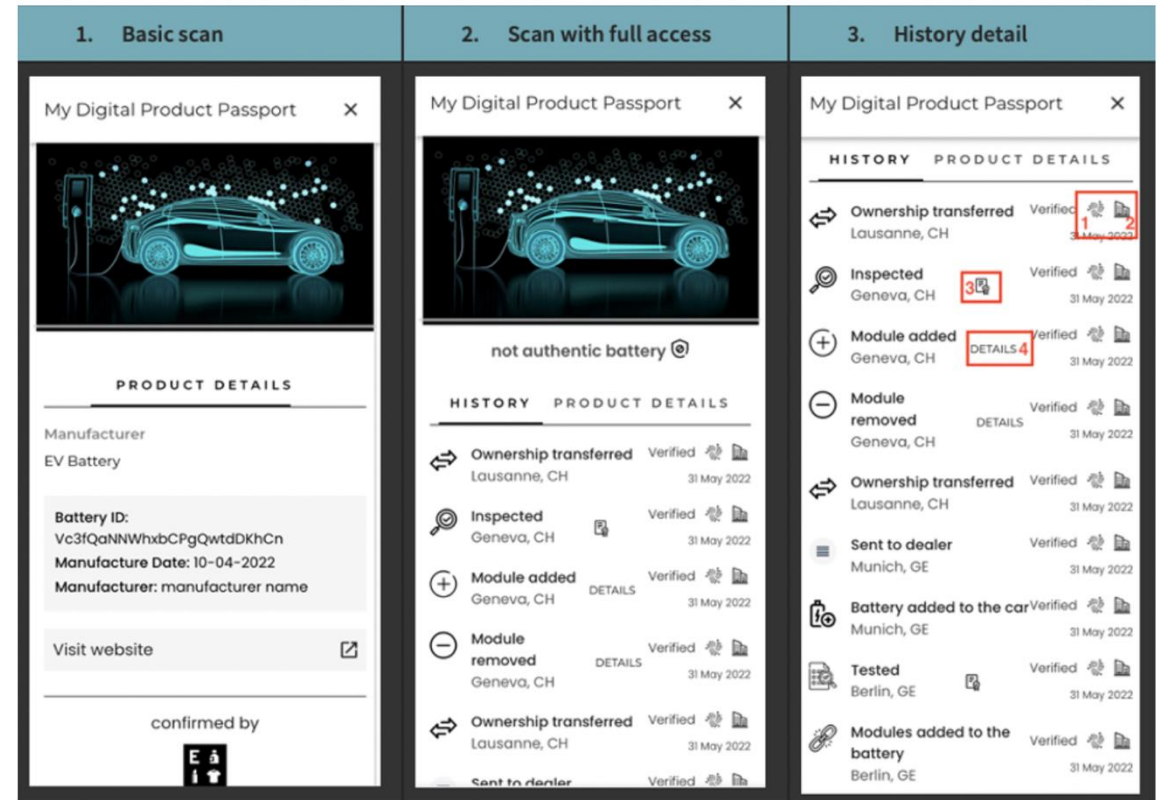
Blockchain Anchoring for Security

IOTA's DLT anchors lifecycle events securely, preventing tampering while enhancing transparency

Compliance Transparency

The platform integrates the Electronic Product Code Information Services (EPCIS) standard to enable secure tracking and query capabilities across a product's lifecycle

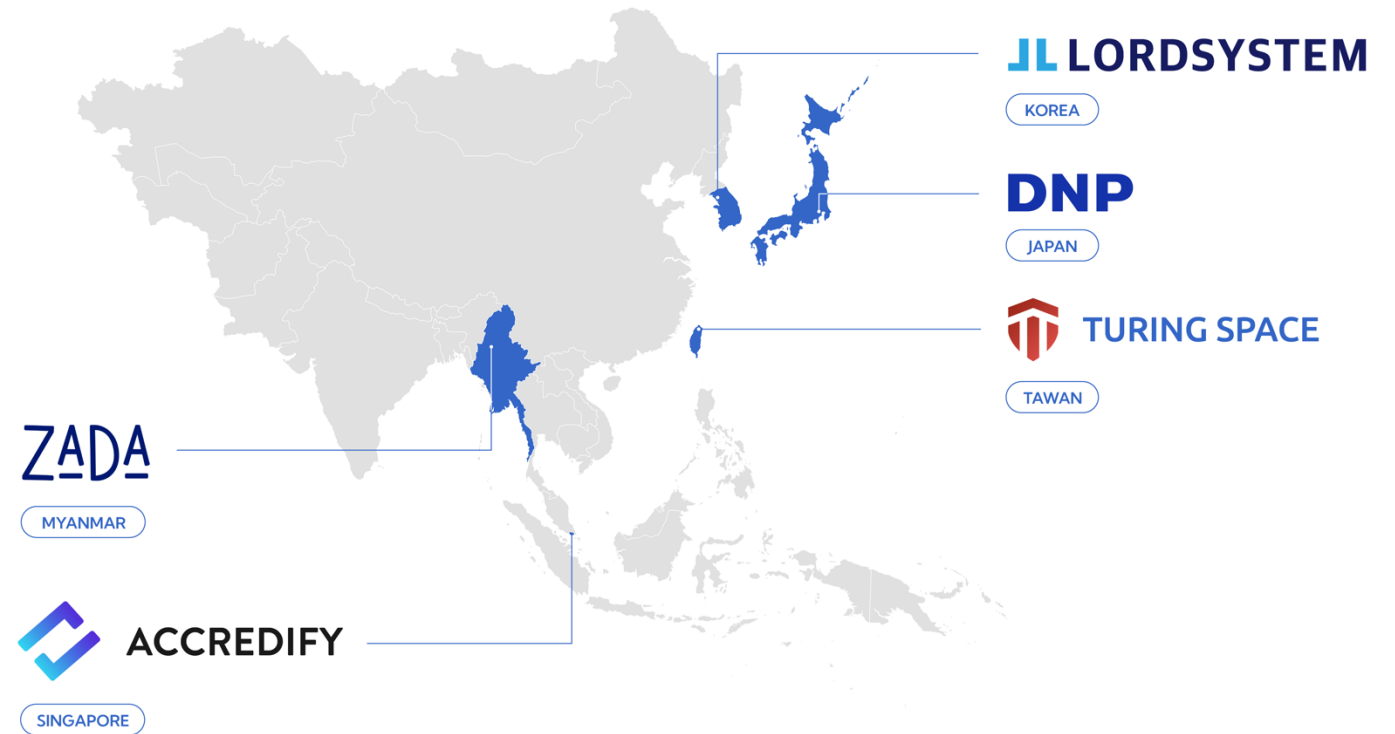
Source: <https://www.digimarc.com/blog/decentralized-blueprint-digital-product-passports>





Trust, Bridge, and Inclusion

- The Asia-Pacific Digital Identity (APDI) consortium



Mission and role



Leading Digital Identity
Promotion in the **Asia-Pacific
Region.**



Developing **Cross-Border
Efficiency** and Safety on Trustful
Data Exchange.



Preparing Us for A **Sustainable
Growth** of Future Technology.

APDI Consortium – Trust, Bridge, Inclusion

Trust

We are here to propose a digital identity solutions and foster digital trust in the Asia-Pacific region.

Bridge

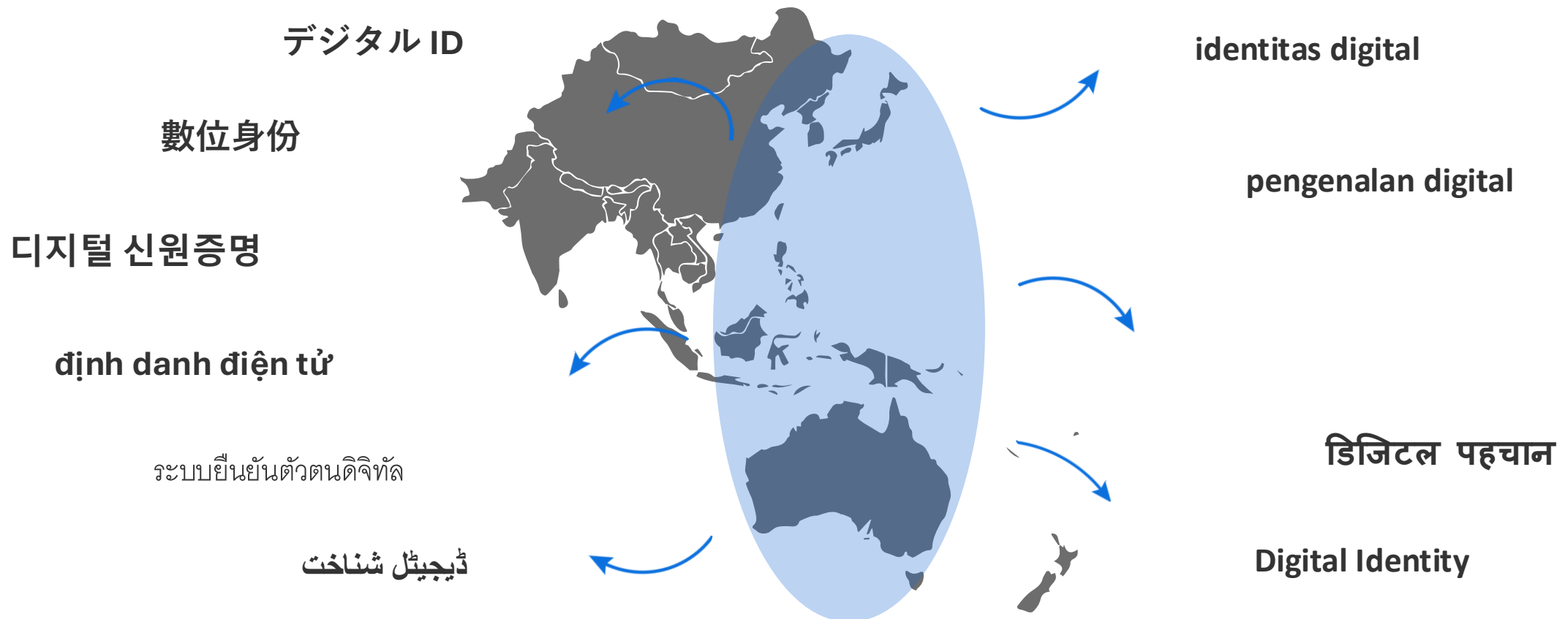
Being a bridge in the world, between Asia-Pacific and Western or other regions.

Inclusion

Ensuring that everyone, regardless of socio-economic status, has access to digital services is crucial for social and economic development.



The Asia-Pacific region is diverse in culture, religion, and language
While referring to the EU's efforts,
we will also try to take a unique Asia-Pacific approach.



Thanks for your attention
Any Questions?



TURING SPACE

Now we can trust!

We are founding a new nation of trustful identities. Without us, it may happen in the future, nevertheless.

By us, it can be all set by sooner future.

12⁺

Healthcare Institutes

40⁺

Governments

5M⁺

E-credentials

50⁺

Universities

400⁺

Certificate Body

13 industries

Government

Digital Identity

Green Energy/ Carbon Credits

Healthcare

Digital Health Screening
Certificate of Diagnosis Medical Staff Certificate
Training Certificate
Birth/Death Certificate
Remote Prescription

Real Estate

Project Portfolio
Investment Contract

Luxury Goods

Education

Digital Diploma
Lifelong Learning Resume
Certificate of Employment

Funeral

Permanent Family
Memorial

Art

Ownership Certificate
Evidence of Creation
Donation Proof

International Organization

Volunteer Certificate
Forum Participation Certificate

Agriculture

Product Origin Traceability
Processing Quality Record
CSR Resume
top-shelf liquor
Anti-counterfeiting Certification

Car

Digital Vehicle Identification Number
Specialized Training Certificate
Vehicle Maintenance Record

Pets

Pedigree papers
Trainer License
Pet Store License
Cat/Dog Award Certificate

Sports

Marathon Achievement Proof
Professional Talent Certificate
Giant Fan Certificate

Representative Clients



WHO PMNCH



Asia-Pacific Economic Cooperation



Dun & Bradstreet



Audi Taiwan



Giant Group



Berkeley Law Executive Education

Governmental



中華民國僑務委員會
Overseas Community Affairs Council
Republic of China (Taiwan)

Overseas Community Affairs Council, Taiwan



Education Bureau of Hsinchu County Government, Taiwan



Administration for Digital Industries, Taiwan



Turing Facts

for corporations

Turing Green

for industry



Certified by  **Turing Certs**