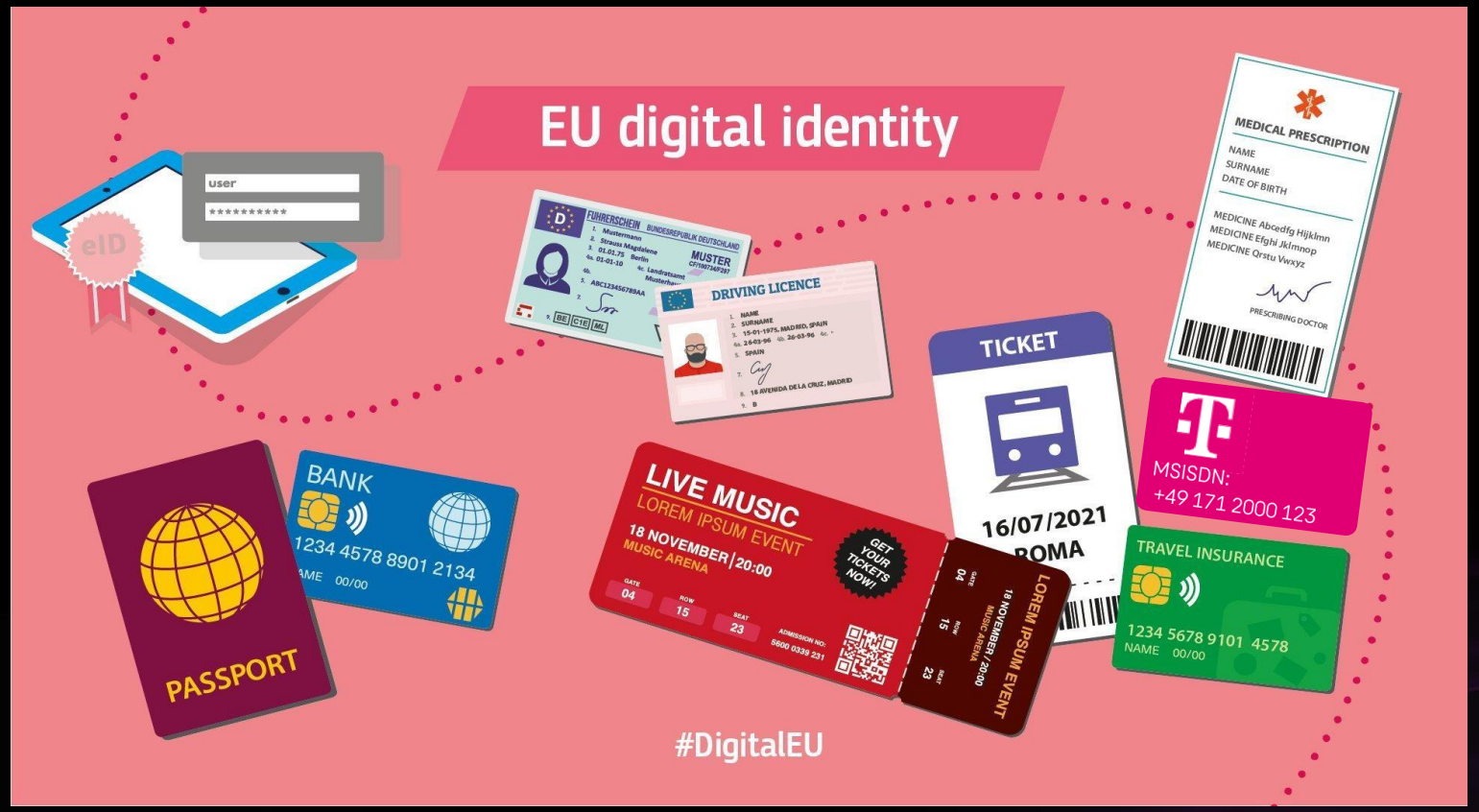
Elevating Digital Trust through Mobile Identity

Supporting EU Digital Identity

Deutsche Telekom Group, Andrzej Ochocki

MWC Mobile Identity Summit 2025

Digital Trust is a key for economic development...

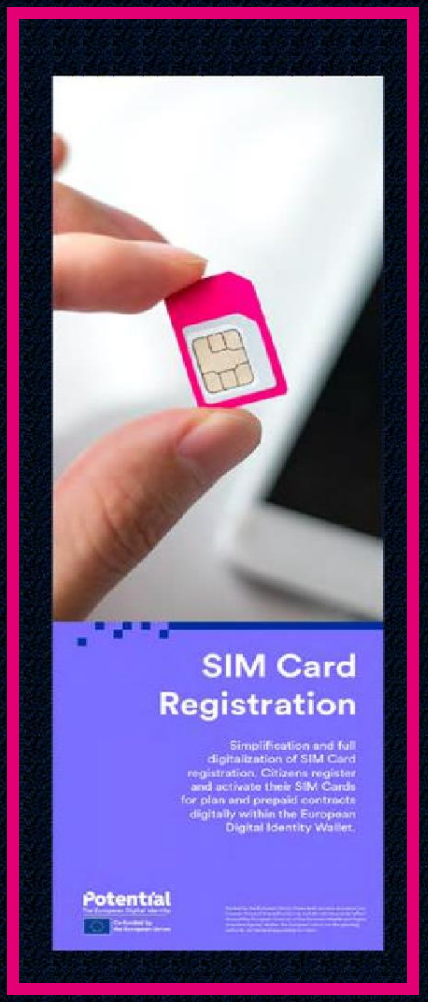


EU Digital Identity Wallet

Expected from end of 2026

EU member states expected to offer their citizens local ID Wallets that are recognised throughout the EU. A range of Use Cases for local and cross-border use will be available.

… and as the Telko we support our EU Member States to co-create the EU ID ecosystem.



We actively participate in the EU Large Scale Pilot …

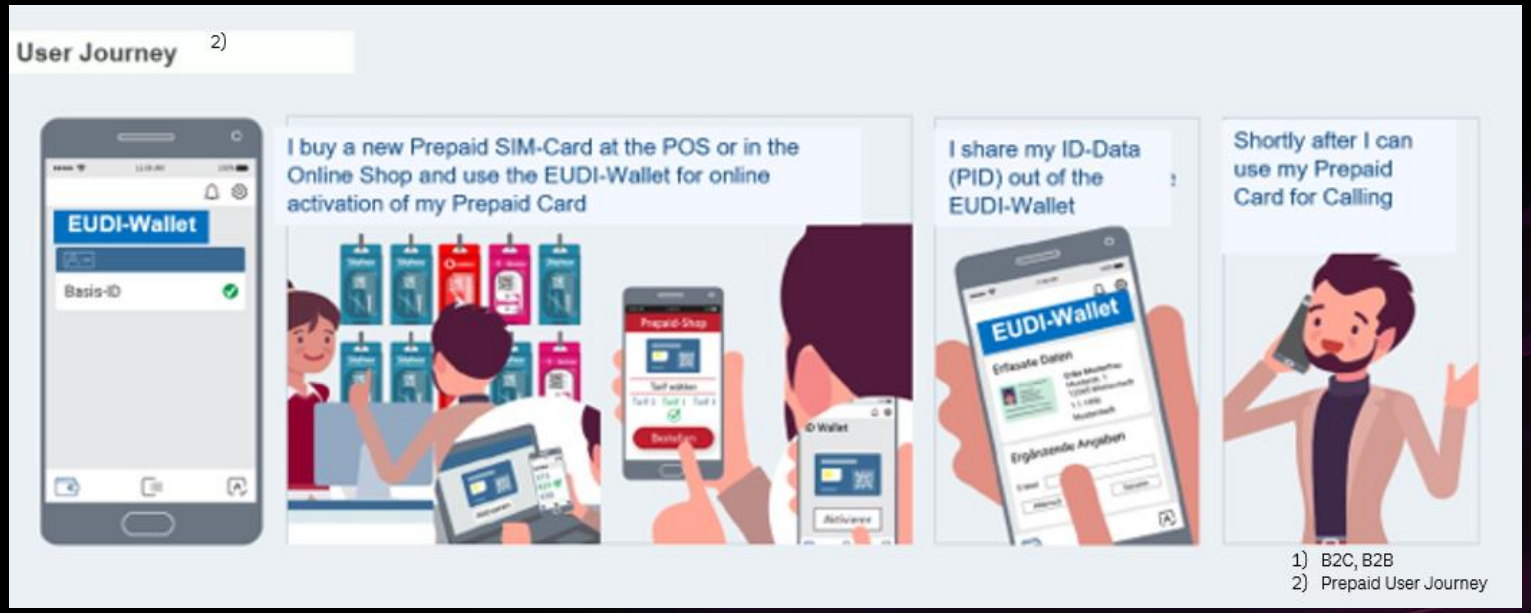
Potential
For European Digital Identity
Co-funded by the European Union

EU ID Large Scale Pilot 2023 – 2025:

- 19 EU Member States + Ukraine
- EC funded
- 149 Partners (public and private)
- Relevant Use Cases

https://www.digital-identity-wallet.eu/

Telco Use Case „SIM eRegistration“:
Simplification and full digitalization of SIM Card registration for EU citizens and residents.



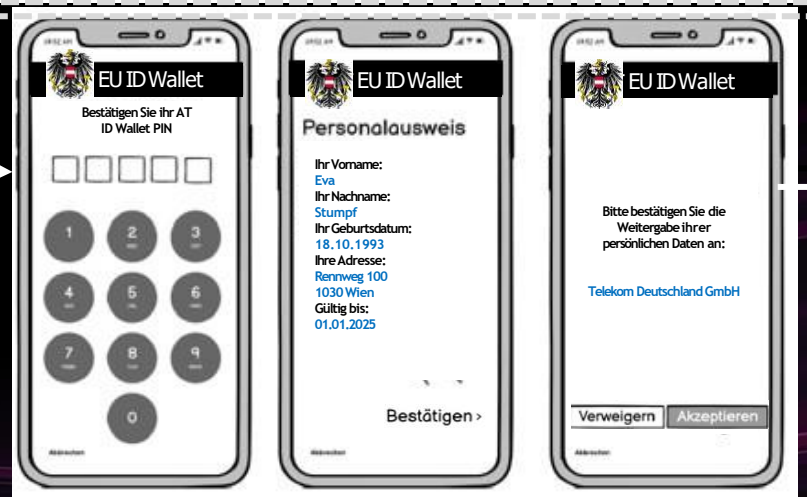
… including the full EU cross-border usage.

Case 1:
Prepaid Online Registration in Germany

with **German** EU ID Wallet

Case 2:
Prepaid Online Registration in Germany

with **Austrian** EU ID Wallet



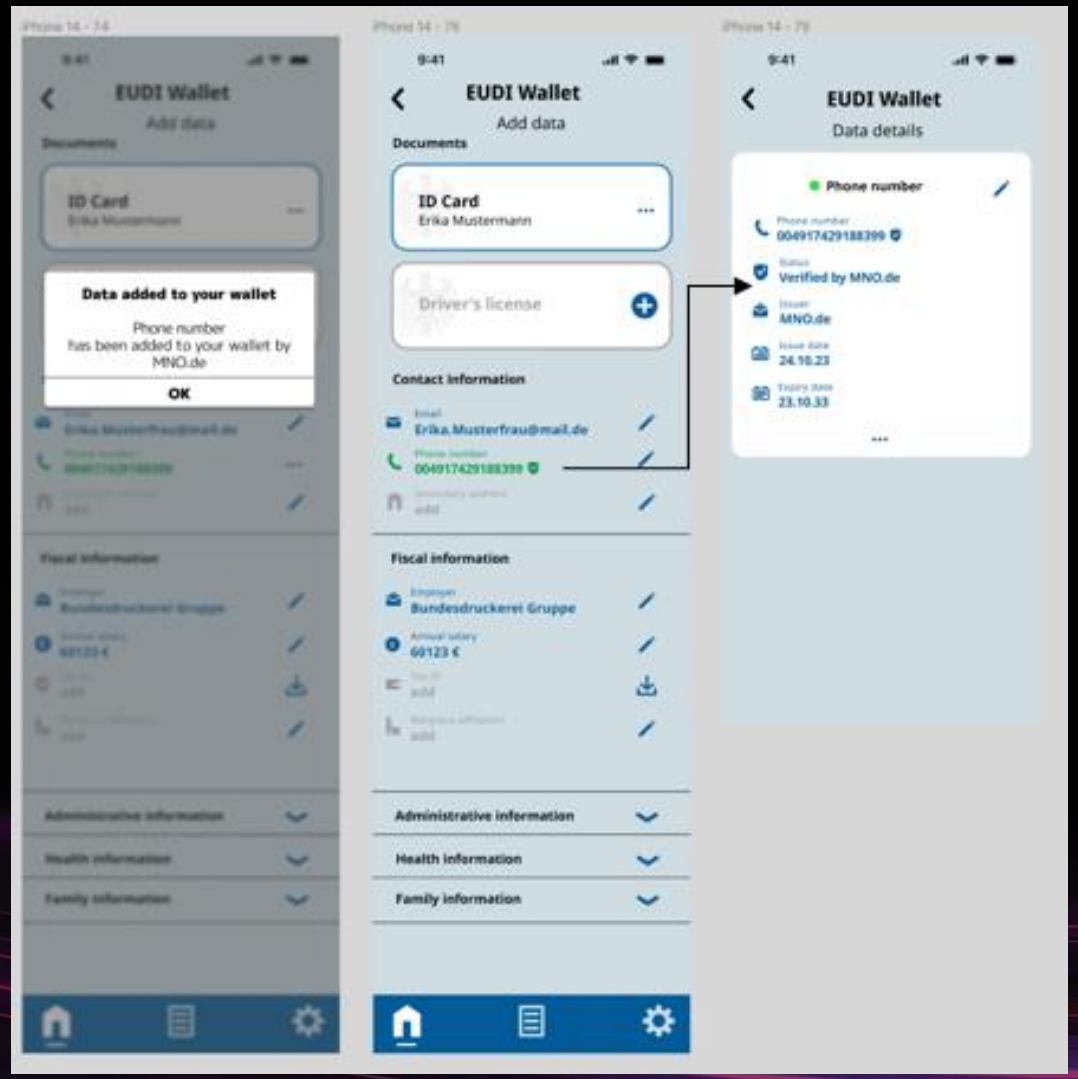
Example

But we have also other valuable assets critical for the success of eIDAS2.0...

For example:

- Mobile Number (MSISDN)
- Secure SIM and ID platforms infrastructure, deployed at scale
- Being already Trusted Partner of our Customers and our States

We plan offer verified MSISDN to Relying Parties...



The Mobile Number (MSISDN):

- Issued by MNOs as Verifiable Credential
- Relevant for nearly all Relying Parties
- Fully managed lifecycles by MNOs (contract cancellation, blocking, change MNO)
- Enables real time authentication via Number Verify

… and also propose to use our SIM and Network assets to secure the EU ID Wallets.

1 MNOs as Relying Parties

- SIM eRegistration and other processes
- Large Scale Pilots

2 MNOs as Issuers

- MSISDN as VC
- other Telco credentials

3 MSISDN Authentication w. SIM/eSIM

- Secure possession factor, works over WiFi
- Relies on network keys and access to SIM/eSIM

MNO SDK for EU ID Wallets

4 at eIDAS2.0 launch

- HSM approach

5 Phase 2

- eID in MNO profile on eSIM
- SAM

6 MNOs as eIDAS2.0 trusted ecosystem partners participating in the business model

7 MNOs as Member States partners in Marketing and Distribution

KEY ADVANTAGE OF OUR PROPOSAL:

Achieving simultaneously Security + Privacy + Reach + UX, already at launch of eIDAS2.0

Coming next....

Large Scale Pilot 2 (LSP 2), Aptitude consortium:

- Time Horizon: 2025-2027
- LSP 2 focuses on:
  - Payments and Travel Use Cases
  - Secure Customer Authentication
- Our MNO SDK proposal, using SIM-based authentication, optimally combines security, privacy, reach, and UX – all key success factors for eIDAS 2.0