



European  
Commission



EU Digital Identity  
**Wallet**

# The EU Digital Identity Wallet

eIDAS 2.0: CHALLENGES OF DIGITAL TRANSFORMATION - WHERE ARE WE  
GOING?“

Vilnius, Lithuania 24 April 2024



# Agenda

01

The why - Digital Identification as a key building block of the **Digital Decade**

02

The what – what is the **EU Digital Identity Wallet**

03

The how – what is our **roadmap?**



# Digital Decade Policy Programme

With the objective of achieving this new Europe by 2030, the **European Parliament, the European Commission and Member States** have joined forces to initiate...



## Skills

Developing the populations' **digital skills** and experimenting on **new technologies** such as blockchain or AI tools.



## Infrastructure

Establishing a **secure, innovative and sustainable** digital infrastructure usable for every European citizens.



## Business

**Digitalizing** companies of all sizes (large groups, SMEs, start-ups) through massive use of **Cloud, Big Data or AI** tools.



## Government

Making available key public services **100% online** and giving the whole EU population access to **health records online and e-ID**.

**2030**  
**DIGITAL**  
**DECADE**

POLICY PROGRAMME:  
A PATH TO THE DIGITAL DECADE



# Digital ID became the norm, but what is good Digital ID?

Unlike a paper-based ID like most driver's licenses and passports, a digital ID can be authenticated remotely over digital channels. Good digital ID requires the following four attributes.



## Unambiguous

A digital ID should unambiguously identify a single individual so that every verified ID corresponds to only one individual.

## High level of assurance

Careful design of onboarding and issuance processes, coupled with robust authentication technology, should instill confidence that the user matches the ID's subject.

## Protects user privacy

Built-in safeguards to ensure privacy and security, giving users control over their personal data, with decision rights over who has access to that data, and with transparency into who has accessed it.

## Machine verifiable and interoperable

A good digital ID can be digitally verified as authentic and valid. It can be used in many use scenarios and is widely accepted in all Member States.



## Introducing the



EU Digital Identity  
**Wallet**

**Your Data, Your Story.**

What is the EU Digital Identity Wallet?

It's a mobile or web application that **EU developed as response** to the challenges of digital identification.

will allow you to **securely identify yourself** online when accessing a wide range of public and private services

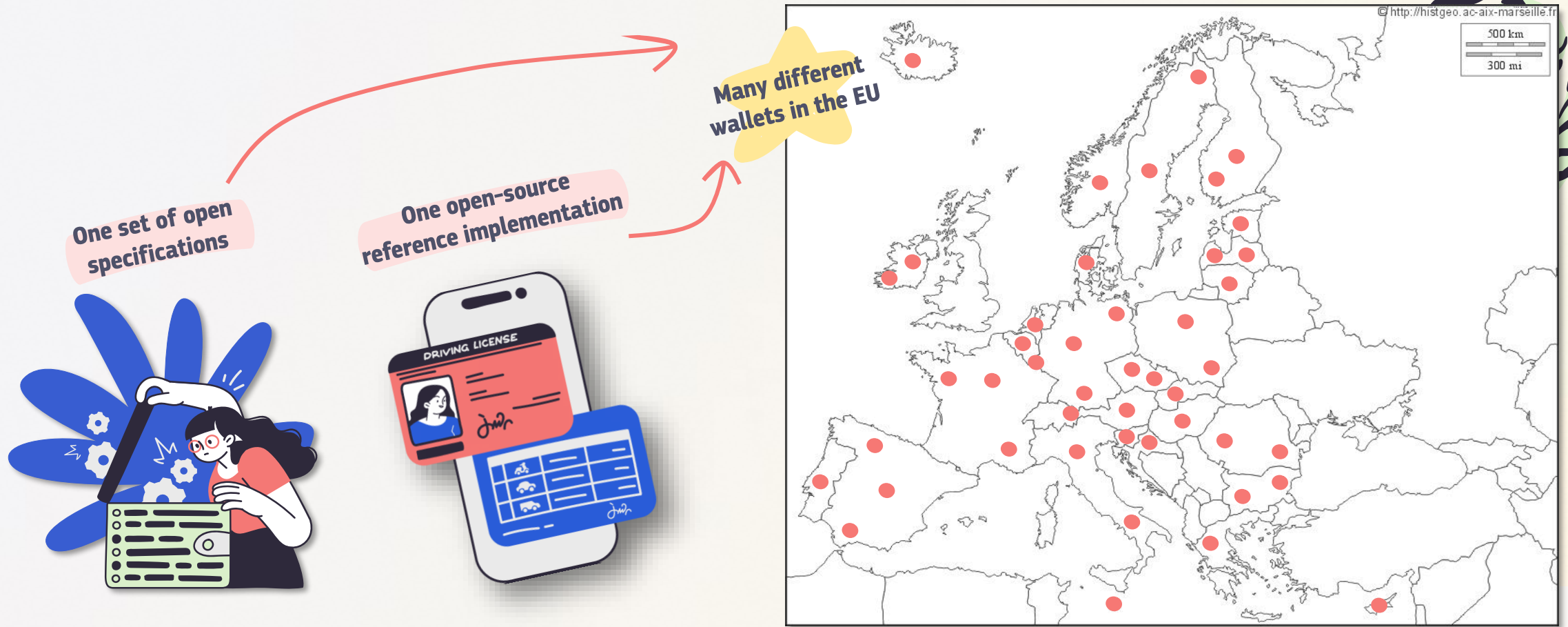
will let you **store, present and share electronic attestations** from university diplomas to train tickets)

will let you **sign digital documents** swiftly and easily

will be made available in **every EU Member State for citizens, residents and businesses**

# Open

There will be multiple EU Digital Identity Wallets, all built to a common set of open specifications by the European Commission and Member States. They will be interoperable, and both the reference implementation and all European Wallet Apps for consumer devices will be open source.



# The Ecosystem

The Ecosystem of Stakeholders



## European Institutions

European Commission  
European Parliament  
European Council



## Relying Parties

Public & private  
organisations that will  
verify attestations and PIDs



## Governmental Bodies

National administrations  
Data protection authorities  
Conformity assessment bodies



## Wallet Users

European citizens, residents  
& businesses that are the  
subject of the attestations



## Wallet Providers

Wallet developers  
Device manufacturers  
Trust service providers



## Large Scale Pilots

4 consortia (Potential,  
NOBID, DC4EU and  
EWC)



## Issuers

Trusted organisations  
that issue PID and  
attestations

# The Benefits

How will citizens, governments and relying parties benefit from the wallet? Securely store and share your digital identity — discover the many ways EU Digital Identity Wallet will benefit both individuals and organizations.

## Citizens



- Protect personal data
- Simplify paperwork and admin
- Access public and private services across borders

## Governments



- Improve access to digital services
- Enhance fraud prevention
- improves security

## Relying Parties



- Improve security and privacy
- Reduce cost of authentication
- Avoid relying on competing big platforms

## Society

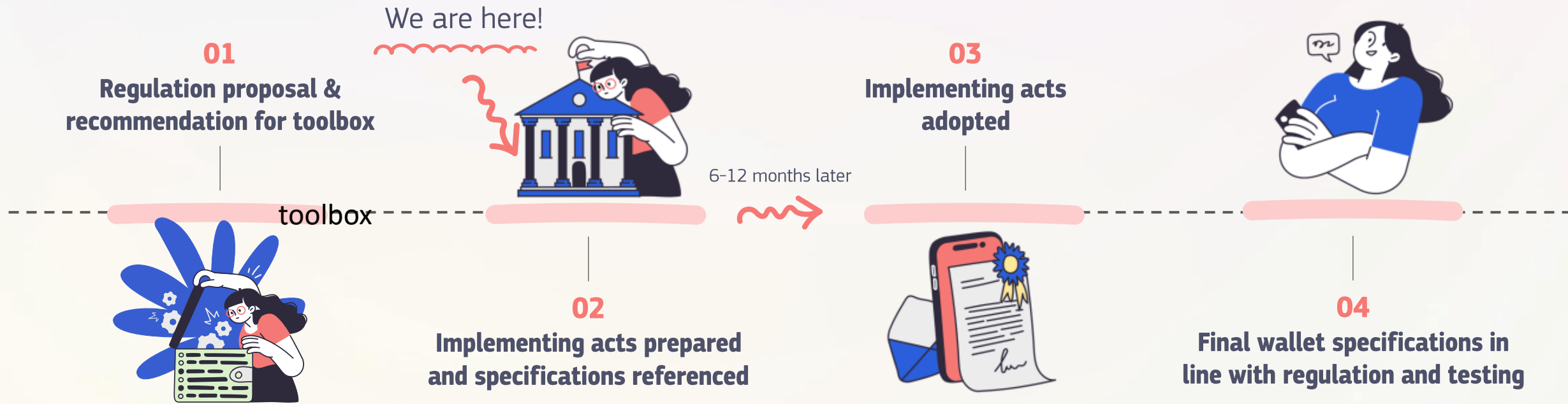


- Increased online transactions
- Resource reallocation
- New business opportunities
- Economic growth



# Regulation

The whole initiative is based on a regulation & implementing acts which mandates the Member States to create a wallet by a given date.



# Toolbox / Requirements

## Feeding into Implementing Acts

### Main elements:

➤ **User experience** – What is needed to provide a user-centric designed wallet

➤ **Trust model** – What is needed for the various roles to trust one another?

➤ **Wallet components and interfaces** – What functions should any Wallet have?

➤ **Digital documents (a.k.a attestations) formats and models** – What properties should digital documents have?

➤ **Security requirements** – Cybersecurity specifications to archive the certification.

- Drafted by Expert Group
- Covers compulsory elements of the wallet
- Will produce additional Guideline

# Technical specification and standards

Interoperability and harmonization requires that implementers adhere to specific requirements. The following options will be followed:

## Implementing Acts

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The high-level requirements outlined in the Implementing acts

## Referenced Specs

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Compulsory technical specifications or international standards should supplement the IA. These can either be directly included as annexes in the IA or referenced therein

## Guidelines

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When compulsory specifications are not required, guidelines and best practices can be mentioned in the IA. These will be developed in subsequent phases.

# Certification

How will the Wallets be certified?

## A certification scheme building on the Cybersecurity Act

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The EU Digital Identity Wallet will be certified against cybersecurity requirements and compliance with the common technical specifications to ensure it functions seamlessly and securely in all Member States.

## Certification Subgroup

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Work is carried out by the Certification Subgroup of the eIDAS Expert Group, which is identifying the **EU Digital Identity Wallet certification scope**.

## The Wallet as a service

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It was proposed to write a **single set of scheme requirements** which shall define as object of certification **a service that includes the provision and operation of EU Digital Identity Wallets as products**.

## Next steps

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The next step is to **draft high level technical requirements** for the EU Digital Identity Wallet, simultaneously updating **the EU Digital Identity Wallet Risk Assessment** in order to prepare the implementing acts on the EU Digital Identity Wallet Certification.



# Wallet Prototype

- A Reference Implementation of the EU Digital Identity Wallet based on the agreed specifications
- published open source and available to all Member States
- Benefitting from contributions from Member States, Large Scale Pilots, Consultation with Industry



# Prototype Releases

**RO.1 & RO.2** Remote and proximity presentation of mDL (building block for generic (Q)EAA presentation)

- Remote and proximity presentation of PID
- Light issuance process for PID
- Simple User experience / interface
- Remote QES Registration and Authorization

## Minimum Viable Product R1.0

- Advanced and Modular User experience / interface
- Basic key storage implementation
- Issuance of mDL and PID based on Open ID 4VCI

## Releases in 2024 & 2025

- Issuance of (Q)EAA based on Open ID 4VCI
- Implementation and libraries for SD-JWT
- QES Architecture - wallet driven and QTSP/RP driven
- Specific requirements derived from LSP Use Cases
- Complex models for key storage
- Generic presentation interface for (Q)EAA

# Pilots

## Large Scale Pilots



A set of Nordic and Baltic countries who, together with Italy and Germany, who are developing a large-scale pilot for the payment use case in the EU Digital Wallet.

**# PAYMENTS**



Potential is a secure digital ID that will allow citizens to quickly and securely prove their identity as part of their online citizenship procedures.

**# MOBILE DRIVING LICENSE**

**# ACCESS GOV SERVICES**

**# OPEN BANK ACCOUNT**

**# HEALTH**

**# CONTRACTS**

**# SIM REGISTRATION**



The EWC aims to harness EU digital identity benefits for Digital Travel Credentials across Member States, building on the Reference Wallet Application for this specific use case.

**# PAYMENTS**

**# TRAVEL**

**# ORGANISATION ID**



DC4EU supports the education and social security sectors by integrating cutting-edge digital services across Europe within a cross-border trust framework.

**# EDUCATION**

**# SOCIAL SECURITY**



# What are the pilots testing with the EU Digital Identity Wallet?



## ACCESS GOV SERVICES

Access digital public services (nationally and across borders) by using your wallet to securely identify and authenticate yourself.



## MOBILE DRIVING LICENCES

Request a digital version of your driving license. Then always have it ready to share in your wallet.



## EDUCATION

Never lose the university diploma you worked so hard for again. Easily store and share your most important education credentials.



## HEALTH

Keep your health close at hand. Identify yourself at your pharmacist's and claim your needed prescriptions with just your wallet.



## TRAVEL

Store and share key travel documents in your wallet. Prove who you are when booking a hotel online, and then easily check-in once you get there.



## ACCESS SOCIAL SECURITY

Keep tabs on your social security information and use your wallet to access the social security benefits you are entitled to.



## ORGANISATION ID

Use your wallet to prove who you work for when meeting new and potential clients.



## REGISTER SIM

Registering a new SIM card just got easier. Your wallet lets you quickly identify yourself.



## OPEN A BANK ACCOUNT

No need to track down to a bank branch. Verify your identity when opening a new bank account with just your wallet.



## PAYMENTS

Make your online transactions easier. Use your wallet to identify yourself and authorise payments.



## CONTRACTS

Your wallet makes business flow. Sign contracts with just your wallet.



# Trust Services

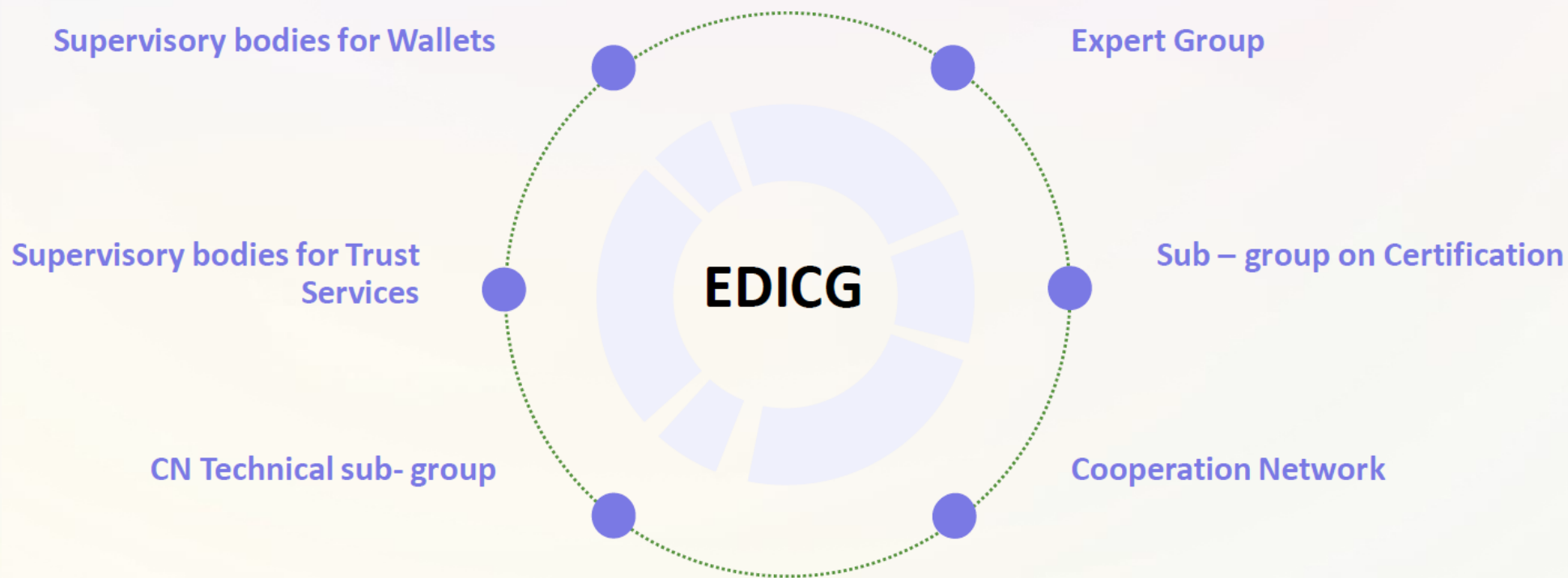
- **General**

- electronic signatures
- electronic seals
- electronic time stamps
- electronic documents
- electronic registered delivery services
- certificate services for website authentication
- electronic signature and seal creation devices

- *New trust services*

- **electronic archiving**
- **electronic attestation of attributes**
- **electronic ledgers**
- **management of remote qualified signature creation device**
- **management of remote qualified seal creation device**

# Governance



# Next Steps

Towards an EU Digital Identity Wallet

01

**REGULATION  
ADOPTED**

**Q2 2024**

02

**IMPLEMENTING  
ACTS ADOPTED**

**Q4 2024  
Q2 2025**

03

**WALLET  
AVAILABLE**

**2026**

**Q2 2024**

- Publication in the OJEU by end of April
- Entry into force in May



**THANK YOU**

**The European Digital Identity Wallet  
is coming**

**STAY TUNED**

