

TeleTrust-Konferenz 2023

Berlin, 29.06.2023

Teil II – EU Digital Identity Wallet – Wie sieht die Zukunft aus?
**Internationale Digital Identity Wallet Aktivitäten und
Konsortien im EUDIW- und LSP-Konnex – ein Überblick**

Bundesverband IT-Sicherheit e.V. (TeleTrust)

Dr. André Kudra, CIO esatus AG, Vorstand TeleTrust

EUDIW – The European Digital Identity Wallet is coming!

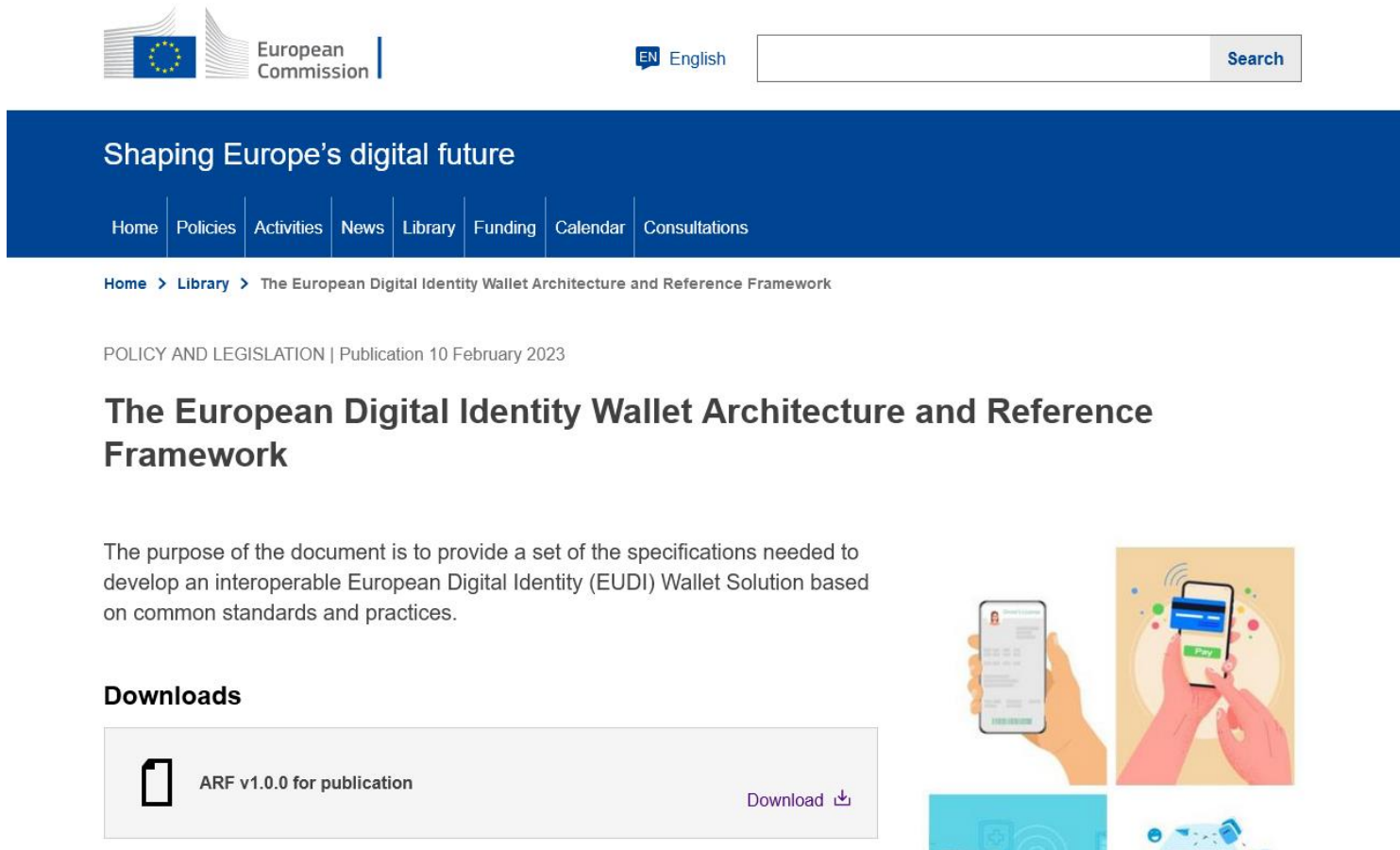


<https://youtu.be/AynHulTaafk>

It's getting serious!
Let's make it a
success story and
not like eIDAS 1.0.



ARF – EUDIW Architecture and Reference Framework



The screenshot shows the European Commission website. At the top, there is a navigation bar with the European Commission logo, a language selector set to 'EN English', and a search bar. Below this is a blue banner with the text 'Shaping Europe's digital future' and a navigation menu with links: Home, Policies, Activities, News, Library, Funding, Calendar, and Consultations. The breadcrumb trail reads: Home > Library > The European Digital Identity Wallet Architecture and Reference Framework. The main heading is 'The European Digital Identity Wallet Architecture and Reference Framework', with a subheading 'POLICY AND LEGISLATION | Publication 10 February 2023'. The text states: 'The purpose of the document is to provide a set of the specifications needed to develop an interoperable European Digital Identity (EUDI) Wallet Solution based on common standards and practices.' Under the 'Downloads' section, there is a document icon, the text 'ARF v1.0.0 for publication', and a 'Download' button with a download icon.

Work in progress,
still many unclarities.
ARF 1.2.0 coming
up soon.



<https://digital-strategy.ec.europa.eu/en/library/european-digital-identity-wallet-architecture-and-reference-framework>

LSP – EUDIW Pilot Implementation Projects



EU Digital Identity Wallet Pilot implementation

Large scale pilot projects will test technical specifications for the Common Toolbox for the EU Digital Identity Wallet and a software prototype.

Wallet Prototype

The European Commission will provide a prototype of a EU Digital Identity Wallet as set out in the proposed European Digital Identity Regulation. The proposal aims to enable European citizens and business to share identity data in a secure and convenient way.

The prototype wallet, procured under the Digital Europe Programme:

- serves to trial and inform the specifications developed by Member States in close collaboration with the Commission, as the common EU Toolbox to implement the EU Digital Identity Wallet;
- will be tested in a number of Large Scale Pilots that cover different sectors, such as healthcare,



<https://digital-strategy.ec.europa.eu/en/policies/eudi-wallet-implementation>

Wallet reference implementation and 4 Large Scale Pilots funded.



NIScy – EUDIW Reference Implementation

Dec 6, 2022 · 2 min read

Scytáles AB together with Netcompany-Intrasoft wins landmark EU Digital ID Wallet contract

PRESS RELEASE

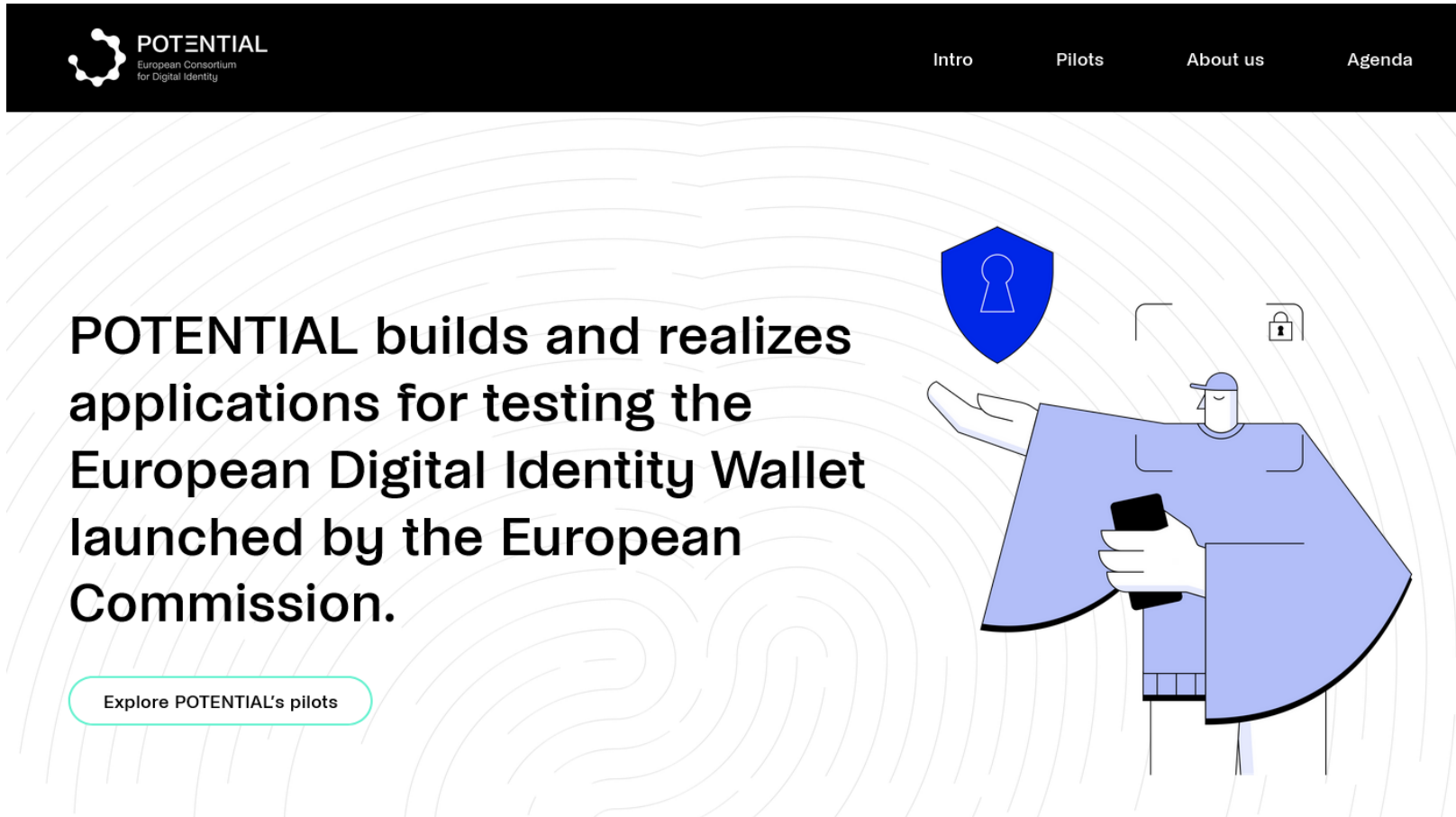
Scytáles lands European Digital Identity Wallet

<https://www.scytales.com/post/scytales-ab-together-with-netcompany-intrasoft-wins-landmark-eu-digital-wallet-contract>

Focus on mDL ISO 18013-5 tech stack, OID4VC / SD-JWT not included.



POTENTIAL for Digital Europe



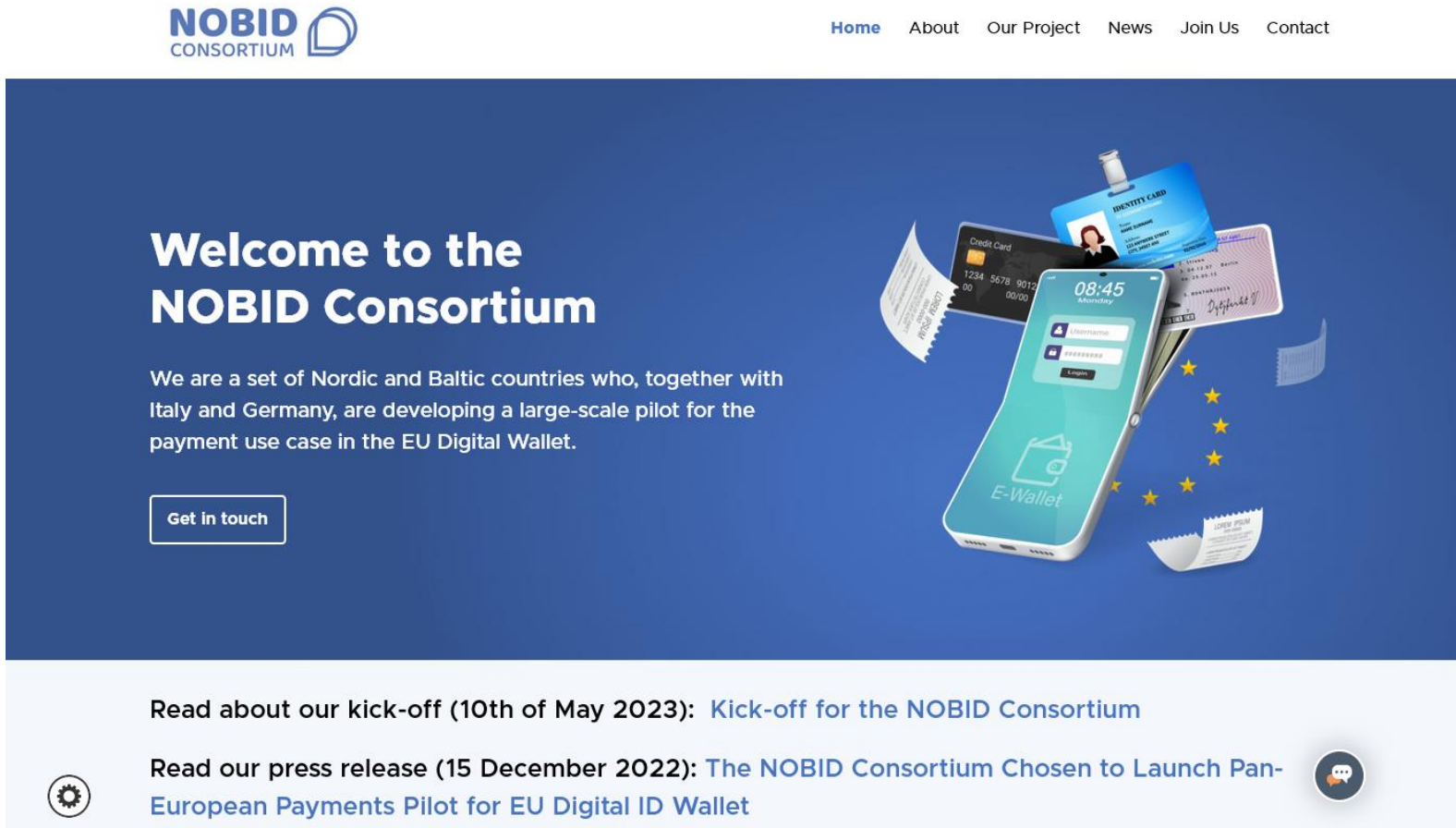
The screenshot shows the POTENTIAL website with a black navigation bar at the top containing the POTENTIAL logo and links for Intro, Pilots, About us, and Agenda. The main content area features a large fingerprint background and a central illustration of a knight in a blue tunic holding a shield with a keyhole and a padlock. To the left of the illustration, the text reads: 'POTENTIAL builds and realizes applications for testing the European Digital Identity Wallet launched by the European Commission.' Below this text is a button that says 'Explore POTENTIAL's pilots'.

148 participants from
19 EU states, invests
60+ mn € for 6 use
cases.



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

NOBID Consortium of Nordic and Baltic countries⁺



The screenshot shows the NOBID Consortium website. At the top left is the NOBID Consortium logo. To its right is a navigation menu with links: Home, About, Our Project, News, Join Us, and Contact. The main content area has a dark blue background. On the left, it says 'Welcome to the NOBID Consortium' followed by a paragraph: 'We are a set of Nordic and Baltic countries who, together with Italy and Germany, are developing a large-scale pilot for the payment use case in the EU Digital Wallet.' Below this is a 'Get in touch' button. On the right is a graphic of a smartphone displaying an 'E-Wallet' app with a login screen. Floating around the phone are various digital identity and payment symbols: a credit card, an identity card, a receipt, and a stack of Euro banknotes. At the bottom, there are two news items. The first is 'Read about our kick-off (10th of May 2023): [Kick-off for the NOBID Consortium](#)'. The second is 'Read our press release (15 December 2022): [The NOBID Consortium Chosen to Launch Pan-European Payments Pilot for EU Digital ID Wallet](#)'. There is a gear icon on the left and a speech bubble icon on the right of the news items.

NOBID
CONSORTIUM

[Home](#) [About](#) [Our Project](#) [News](#) [Join Us](#) [Contact](#)

Welcome to the NOBID Consortium

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

[Get in touch](#)

Read about our kick-off (10th of May 2023): [Kick-off for the NOBID Consortium](#)

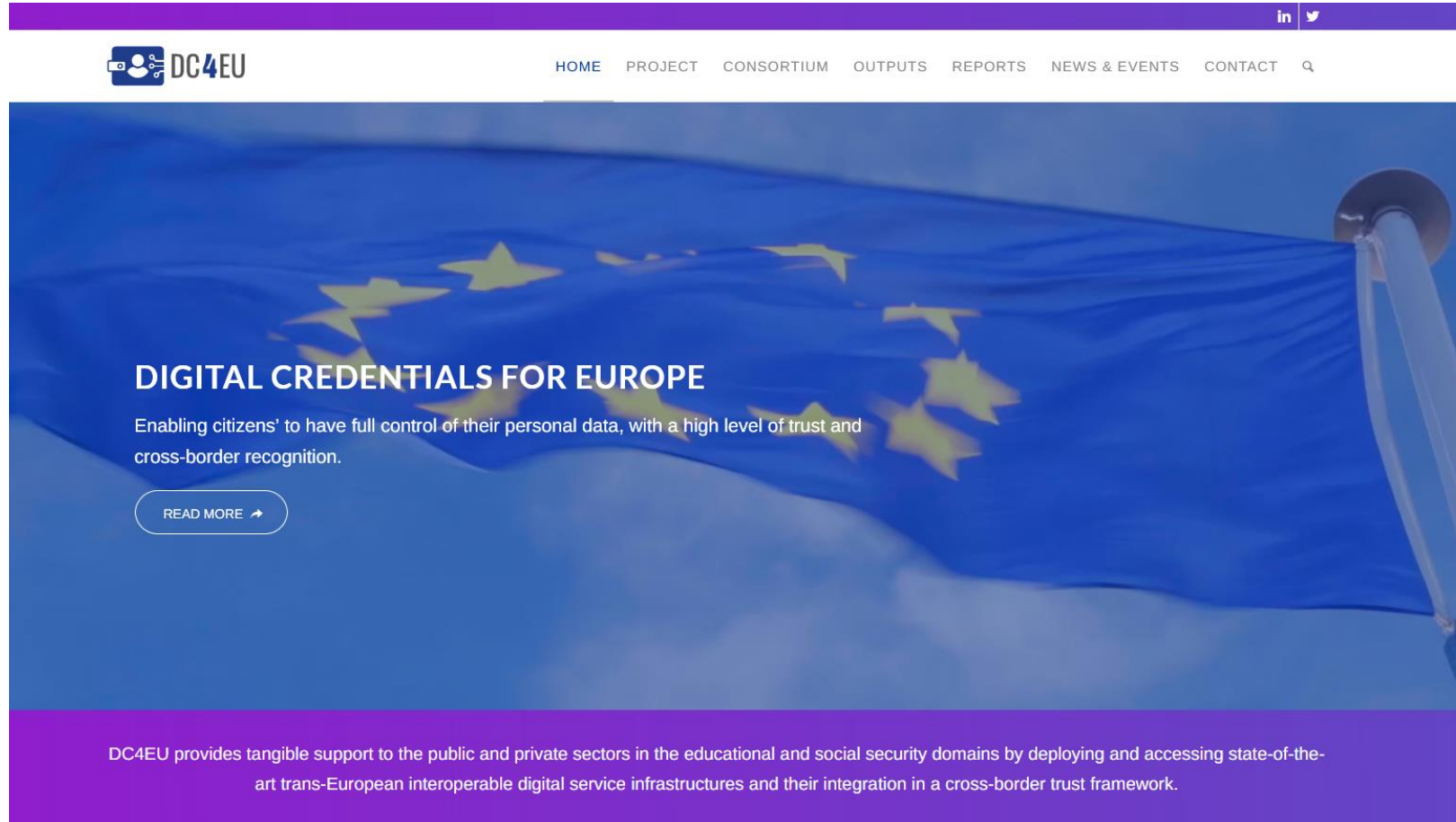
Read our press release (15 December 2022): [The NOBID Consortium Chosen to Launch Pan-European Payments Pilot for EU Digital ID Wallet](#)

Payment focus,
payment means by
financial institutions
& retail payments.



<https://www.nobidconsortium.com>

DC4EU – Digital Credentials for Europe

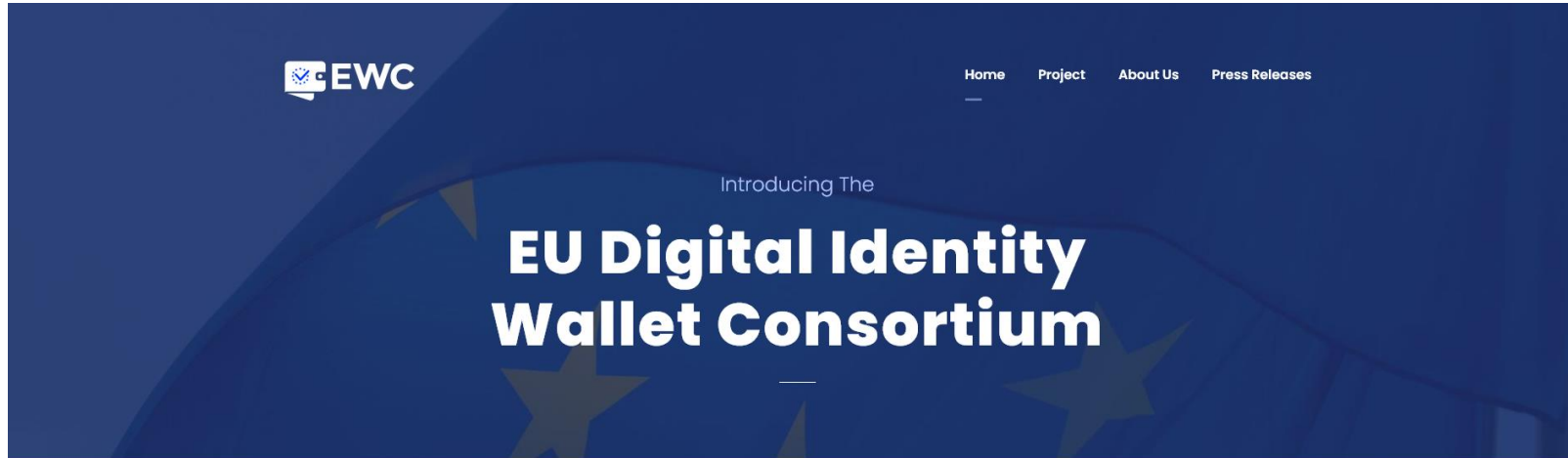


<https://www.dc4eu.eu>

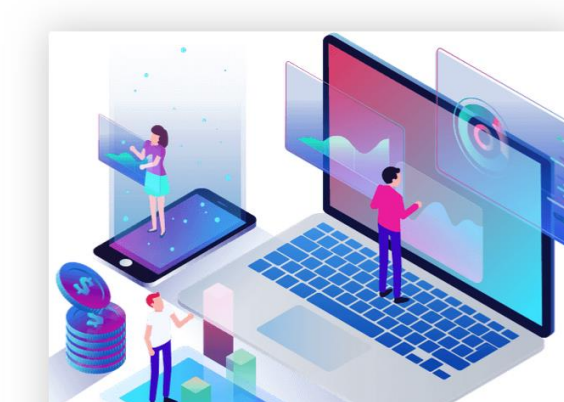
Educational credentials, professional qualifications and Social Security.



EWC – EU Digital Identity Wallet Consortium



Cross-border Digital Travel Credentials and Organizational Digital Identities.



EU Digital Identity Wallet Consortium

The EU Digital Wallet Consortium (EWC) is a joint effort to successfully leverage the benefits of the proposed EU digital identity in the form of Digital Travel Credentials across the Member States. The EWC intends to build on the Reference Wallet Application to enable a use case focused on Digital Travel Credentials.

We expect this use case to necessitate the use of multiple Electronic Attestation of Attributes and Credentials as

<https://eudiwalletconsortium.org>



OID4VC – Protocol Set by OpenID Foundation



OpenID for Verifiable Credentials - Overview

OpenID4VC
OVERVIEW

OpenID4VC
SPECIFICATIONS

OpenID4VC
LIBRARIES

What is OpenID for Verifiable Credentials

The OpenID for Verifiable Credentials work is a product of the OpenID Connect Working Group. The [whitepaper](#) OpenID for Verifiable Credentials describes the work and its motivations.

Even though abbreviated as 'OID4VC', 'OID4VCI' and 'OID4VP' for brevity when typing, it is pronounced as 'OpenID for VC', 'OpenID for VCI' and 'OpenID for VP'.

OpenID for Verifiable Credentials consists of three specifications:

- OpenID for Verifiable Credential Issuance – Defines an API and corresponding OAuth-based authorization mechanisms for issuance of Verifiable Credentials (Editors' Draft) (Working Group Draft)
- OpenID for Verifiable Presentations – Defines a mechanism on top of OAuth 2.0 to allow presentation of claims in the form of Verifiable Credentials as part of the protocol flow (Editors' Draft) (Working Group Draft) (Implementer's Draft)
- Self-Issued OpenID Provider v2 – Enables End-Users to use OpenID Providers (OPs) that they control (Editors' Draft) (Working Group Draft) (Implementer's Draft)

Adoption

Meeting Schedule

Calls are weekly with time rotating between 7am PST and 8am PST (after the Atlantic Connect WG call).

[Zoom URL](#) to dial-in

[List of open issues](#) (Bitbucket)

View Calendar

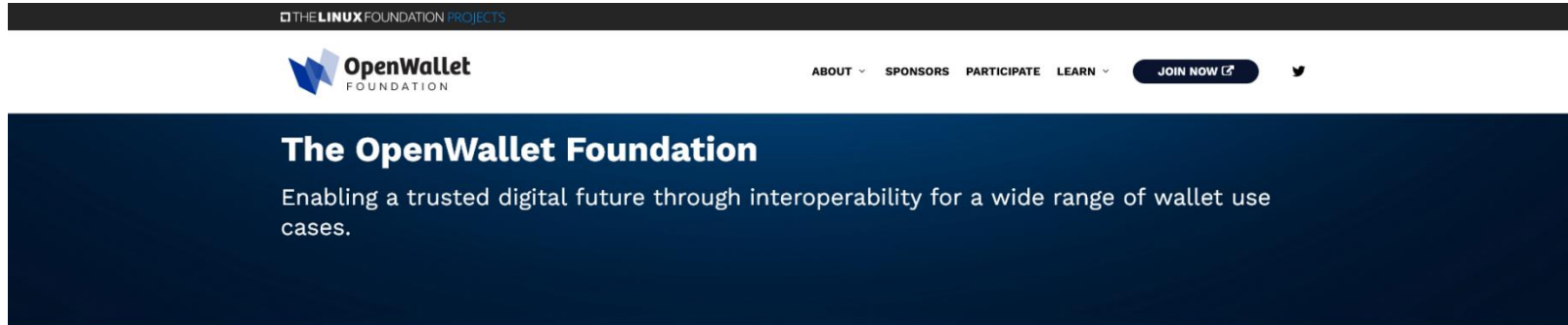
Manage consent

ARF uses Verifiable
Credential Issuance
and Verifiable
Presentations.



<https://openid.net/sg/openid4vc>

OWF – OpenWallet Foundation of Linux Foundation Europe



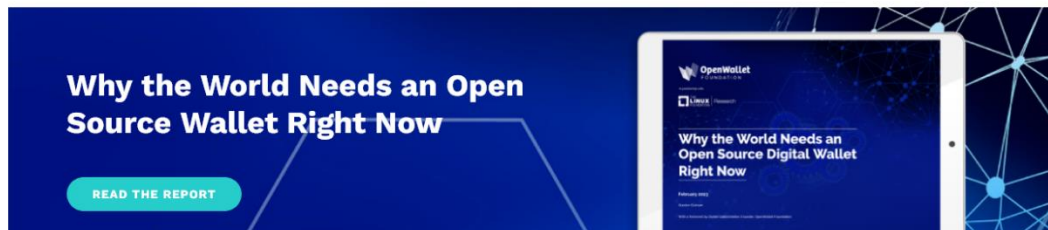
Drive global adoption of open, secure and interoperable digital wallet solutions.



The Mission

The OWF is a consortium of companies and non-profit organisations collaborating to drive global adoption of open, secure and interoperable digital wallet solutions as well as providing access to expertise and advice through our Government Advisory Council.

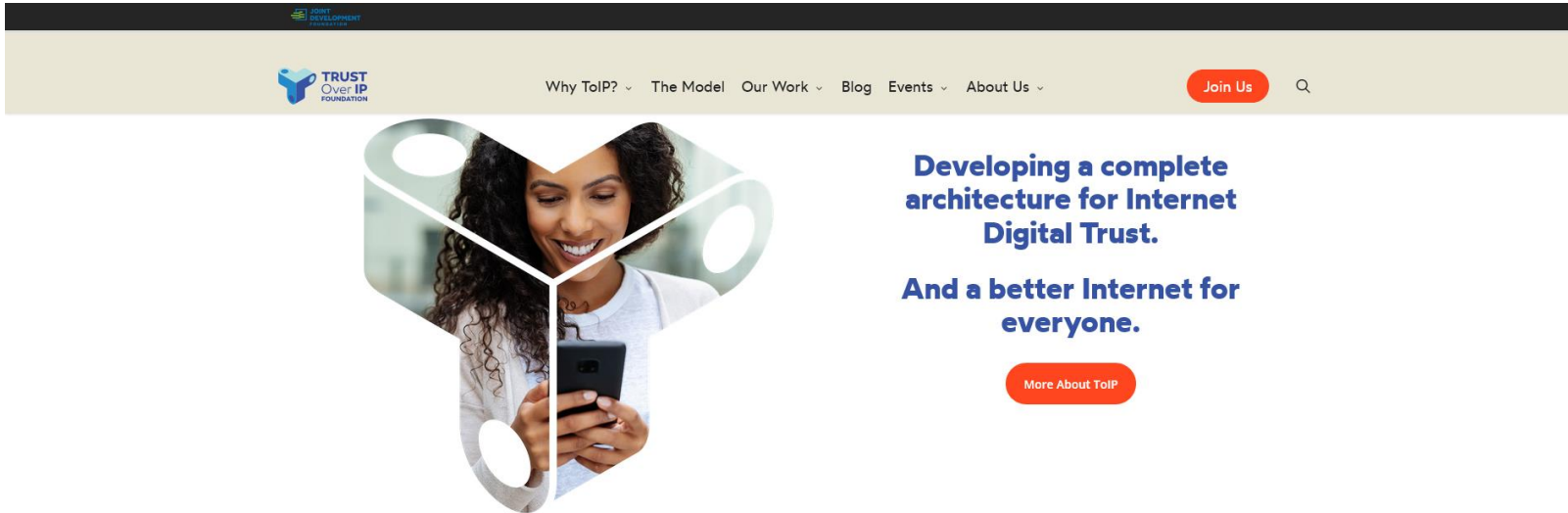
The OWF aims to set best practices for digital wallet technology through collaboration on standards-based OSS components that issuers, wallet providers and relying parties can use to bootstrap implementations that preserve user choice, security and privacy.



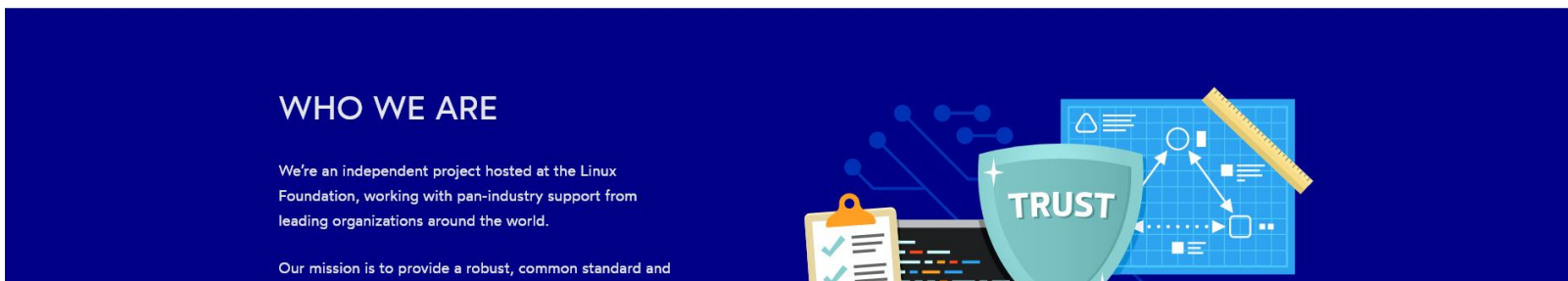
<https://openwallet.foundation>



ToIP – Trust over IP Foundation of Linux Foundation



Popular 4-layer stack model with duality of technology and governance.



<https://trustoverip.org>



SVIP – Silicon Valley Innovation Program of DHS in USA

Major digital identity part. Focus on W3C Verifiable Credentials with JSON-LD.





Science and Technology

Research & Development ▾ S&T Expertise ▾ Partnerships ▾ Work with S&T ▾ News & Events ▾ About S&T ▾

[Home](#) » [Topics](#) » [Science and Technology](#) » [Work with S&T](#) » [Innovation Funding Programs](#) » Silicon Valley Innovation Program

Innovation Funding Programs

- Hacking for Homeland Security
- BIRD Program
- In-Q-Tel
- Long Range Broad Agency Announcement
- Prize Competitions
- Silicon Valley Innovation Program**
- Application Process
- FAQs
- Portfolio
- SVIP Demo Week 2023
- SVIP Demo Week 2021
- Tech Impact Video Series
- Blockchain Portfolio

Silicon Valley Innovation Program

SVIP is keeping pace with the innovation community to tackle the hardest problems faced by DHS and the Homeland Security Enterprise. SVIP expands DHS S&T's reach to find new technologies that strengthen national security with the goal of reshaping how government, entrepreneurs and industry work together to find cutting-edge solutions. Based in California's Silicon Valley, the program reaches out to innovation communities across the nation and around the world to harness the commercial R&D ecosystem for technologies with government applications and to co-invest in and accelerate technology transition-to-market. We offer U.S. and international start-ups up to \$2M in non dilutive funding over 24 months to carry out prototype projects and possibly transition successful projects to production.

Watch the Video



<https://www.dhs.gov/science-and-technology/svip>



IIW – Internet Identity Workshop in Mountain View, CA



The screenshot shows the homepage of the Internet Identity Workshop (IIW). At the top left is the IIW logo with a cat icon. The top navigation bar includes links for ABOUT, PAST IIW'S, SPONSORS, and REGISTER. The main visual is a large photo of a workshop with people gathered around a table with a banner that reads 'INTERNET IDENTITY WORKSHOP 27'. Overlaid on this image is the text 'Internet Identity Workshop' in large white font, with horizontal lines separating the words. Below this, the text 'IIWXXXVII FALL 2023: OCTOBER 10, 2023 – OCTOBER 12, 2023' and 'IIWXXXVIII SPRING 2024: APRIL 2024' is displayed. A small downward arrow icon is at the bottom center.

IIWXXXVII FALL 2023: OCTOBER 10, 2023 – OCTOBER 12, 2023
IIWXXXVIII SPRING 2024: APRIL 2024

<https://internetidentityworkshop.com>

Finding, probing and solving identity issues twice every year since 2005.



DICE – Digital Identity unConference Europe



[Home](#) [Event Format](#) [Schedule](#) [Sponsors](#) [Topics List](#) [Accommodation](#)



Digital Identity unConference Europe 2023 Zurich

Fostering Collaboration on the digital identity between governments,
citizens, and companies across Europe.

June 7th-9th 2023

Trust Square, Poststrasse 5-7, 8001 Zürich, Switzerland



WHY DICE EUROPE?

The intention of DICE is to Foster collaboration and work together on the adoption of a dignified digital identity between governments, citizens, and companies across Europe.

unConferences are particularly generative, with a facilitator we will co-create the agenda live each day of the event. There are no keynotes or panels, it's all about exploring the topic with professional peers from a range of identity areas. [Click here](#) to learn more.

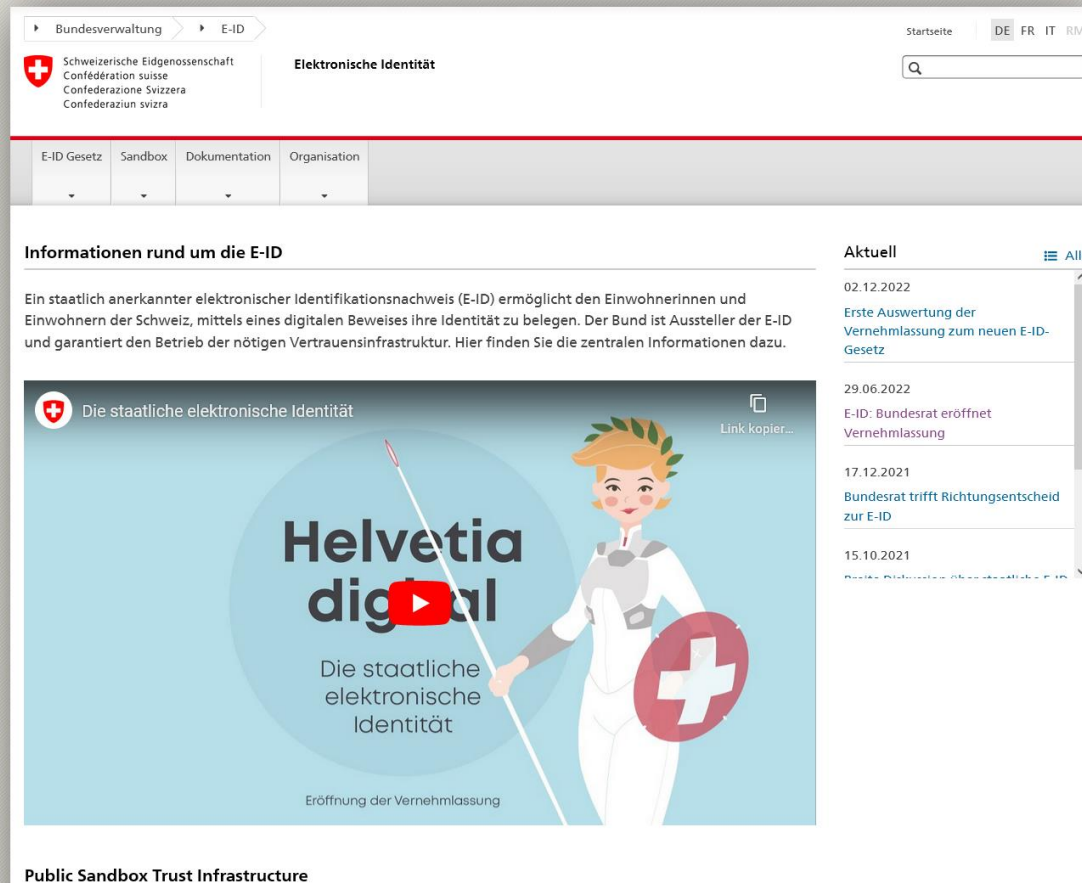
There are many reasons that secure identity systems are needed for connecting to others, tracking trade, supporting labor markets, and crossing borders. Significant investments have been made into the development of interoperable standards, protocols, systems application layers, conceptual use cases, and more.

<https://diceurope.org>

IIW as European incarnation. Very successful first event recently in Zurich.



Swiss E-ID – State-issued E-ID planned in Switzerland



Public Sandbox in progress. Best-practice participatory approach by Government.



<https://www.eid.admin.ch>



Thank you for being interested in Identity Wallets!



<https://www.linkedin.com/in/kudra>

Andre Kudra is looking forward to it, eager to get it into the hands of many!

