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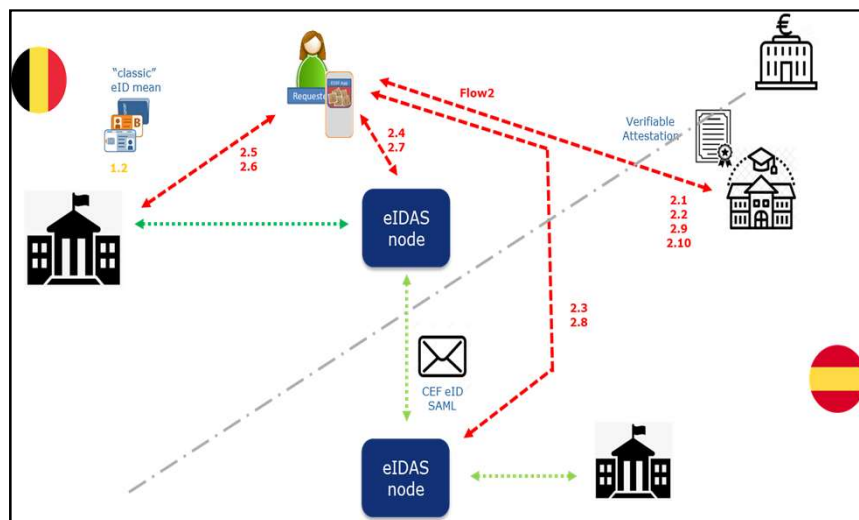
### Short Contextual Bio

- Active in the area of Openbanking / PSD2 for systemic European Bank
- Supporting the Dutch National Office for Identity Data in context of (Masterplan) Digital Identity.
- Assisted/Assists in the creation of several ENISA guidelines related to eIDAS
- Wrote foundation of the ESSIF early-adopter EA-specs and still active as strategic advisor for the ESSIF initiative.
- Member of the Flemish Gov Data Protection Authority
- Chairman BE Cyber & BE eIDentity Summits

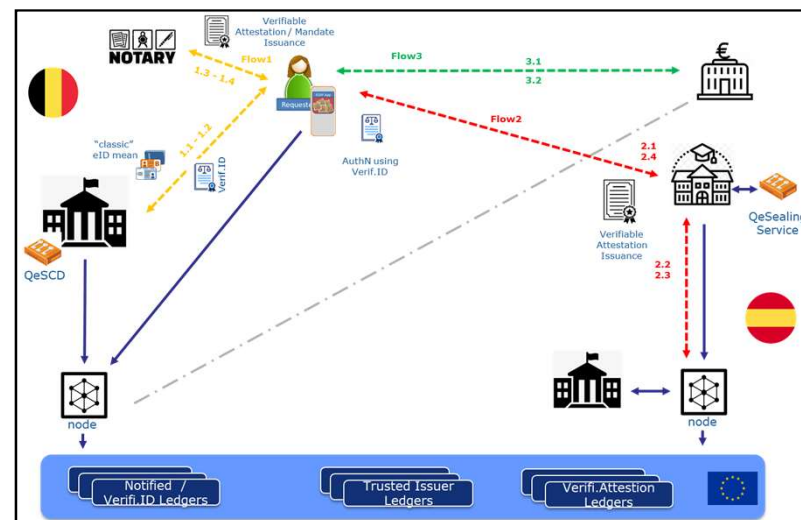
### Some more background

- Worked for the BE Chancellery of the Prime Minister, the BE Ministry of Foreign Affairs, the Federal ICT Department (Fedict), ...
- Worked for DG Connect, DG Employment, DG RTD, EC-ISA, DIGIT, ...
- Worked also for diverse spectrum of private sector organizations (incl. Euroclear, Belgian Post, Infrabel, National Bank, ...).
- One of the fathers/authors of the blueprint for the Belgian Personal Identity Card Project (BelPIC) - aka BE eID
- Founding father of key egov-supporting services at the Flemish government (wide range of (trust-)services wrt e-identification / e-authentication / e-signing / ... ).
- Assisted also in the blueprint the EESSI-platform which formed one of the foundations for the CEF-eDelivery-building block (CEF = Connecting Europe Facilities).

# What was/is missing in eIDASv1 and should be fixed....



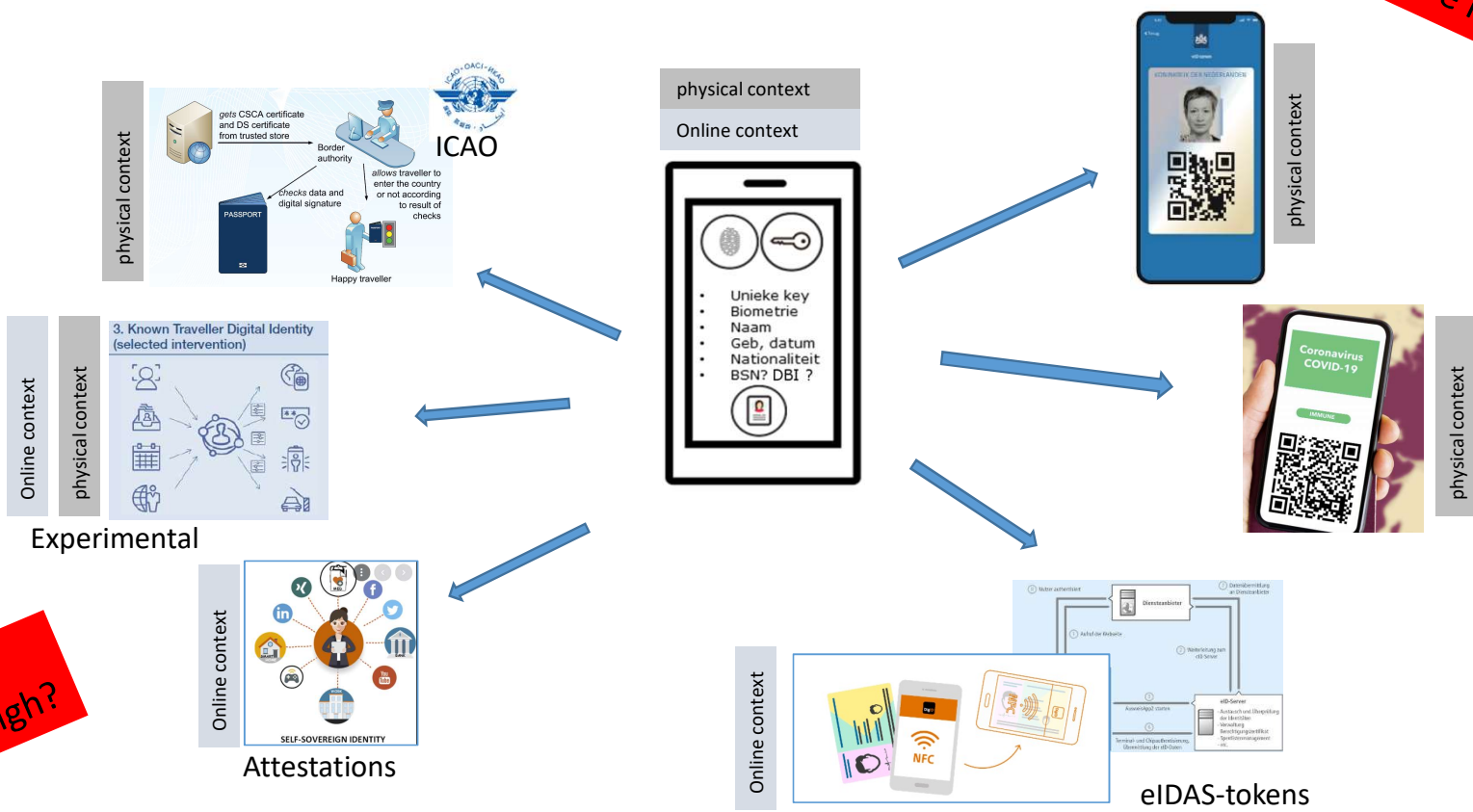
Too complex interactions  
 Too limited functionality  
 No private sector



Simpler Interactions  
 Unlimited use cases  
 Public & private sector

# European Identity Wallets ?

Will need to be multi-protocol !



How to truly achieve LoA High?

# Technologies to look at?

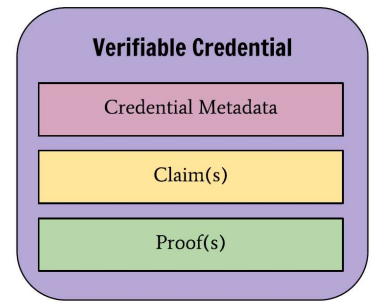
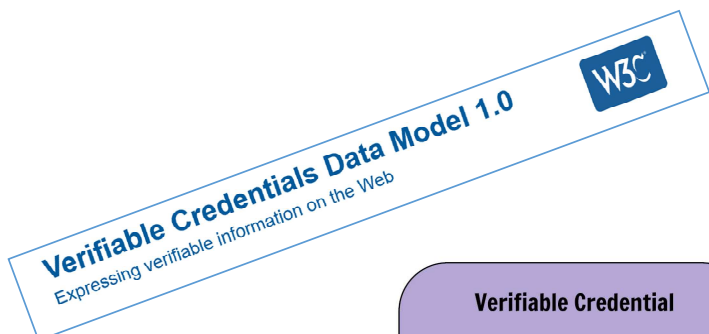


Figure 5 Basic components of a verifiable credential.

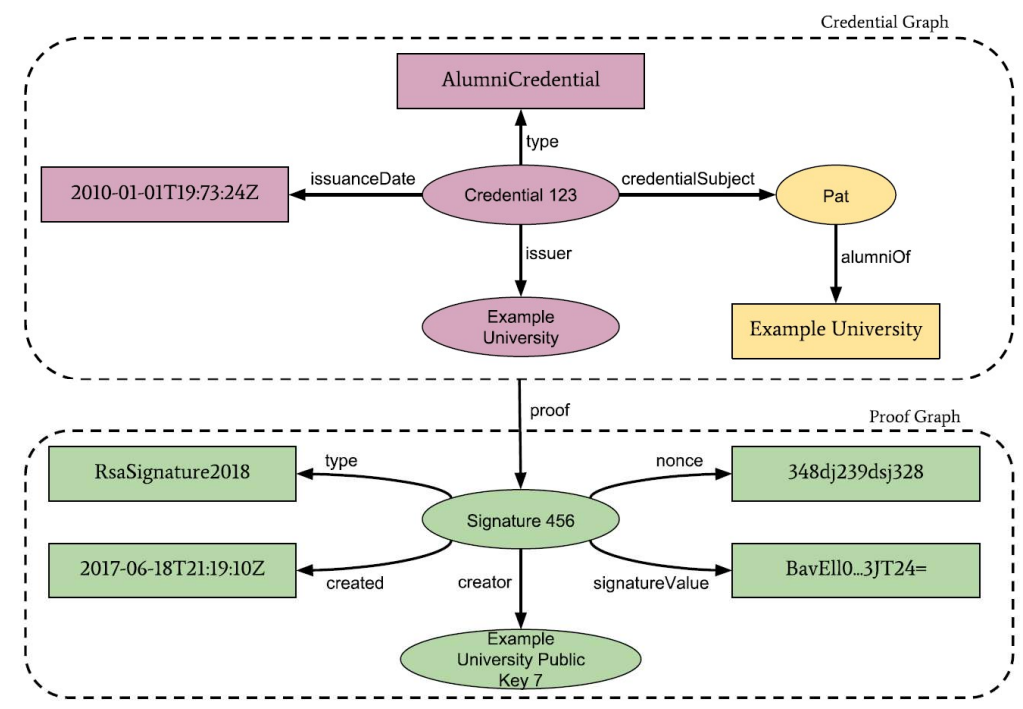


Figure 6 Information graphs associated with a basic verifiable credential.

# Next Steps?

- **Semantic Track**

- X509v3-attestations
- ICAO-attestations
- SSI-style attestations
- ????

- **Architectural Track**

- Agree / Prioritize Use Cases (= needed protocol support)
- Define the Wallet (and secure element)
- Define needed supporting registries
- ????

- > **Legal Track**

- Fine-tune link with authentication & remote eSig
- Clarify LoA's and Legal Liabilities
- ????

- > **Governance Track**

- Extension of Supervisory Framework
- Wallet (and sec.element) Certifications
- Management of catalogues of attestations
- ?????



  
**KPRM**  
KANCELARIA PREZESA  
RADY MINISTRÓW  
THE CHANCELLERY OF THE PRIME MINISTER

**NASK**



## mCitizen is a digital wallet for documents and services

It allows for storage - just like in a traditional wallet - of the most important documents issued by the public institutions.

# Wallet filled to the brim



2017  
mID 1.0



2018  
Legislation



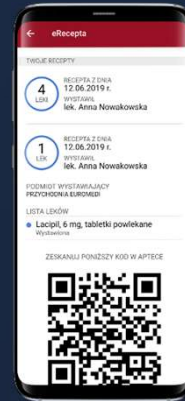
2018  
mSchool ID



2019  
mVehicle



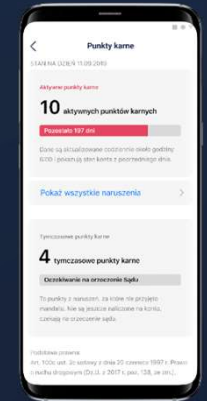
2019  
mStudent ID



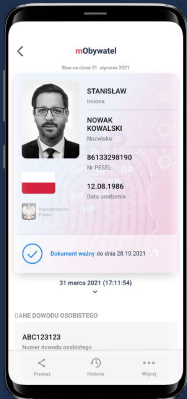
2019  
ePrescription



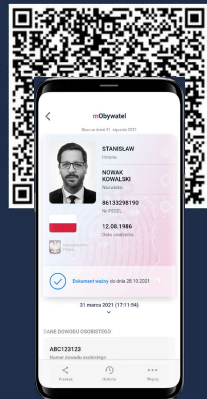
2020  
mDriver's license



2020  
Penalty points counter



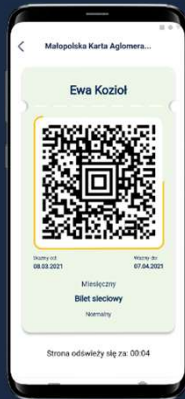
2021  
mID 2.0



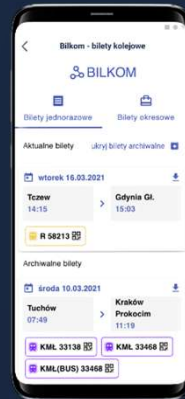
2020  
Data transfer  
to trusted institutions



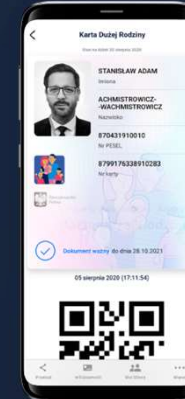
2021  
PL Digital COVID  
Certificate



2021  
Małopolska  
Agglomeration Card



2021  
Train tickets



2021  
Family card



2021  
EU Digital COVID  
Certificate



2021  
Railwayman's ID

More soon...

# Where can mCitizen be used?

- **When voting**  
(1<sup>st</sup> country in the world to offer that)
- Clinics/pharmacies
- Hotels
- When dealing with Police
- Post Office
- Logging into services, including government services
- Renting a car
- Gyms
- Public and private transportation
- Shops
- And many more places...





# Features

- Self-Sovereign ID based on Public Key Infrastructure
- Authentication by official Electronic Identification Means
- Data based on public registries and databases
- Ecosystem for offline, online documents and services
- Offline and online document verification
- Universal notification capabilities
- Secure data transfer to trusted institutions

There is more and more users every day...

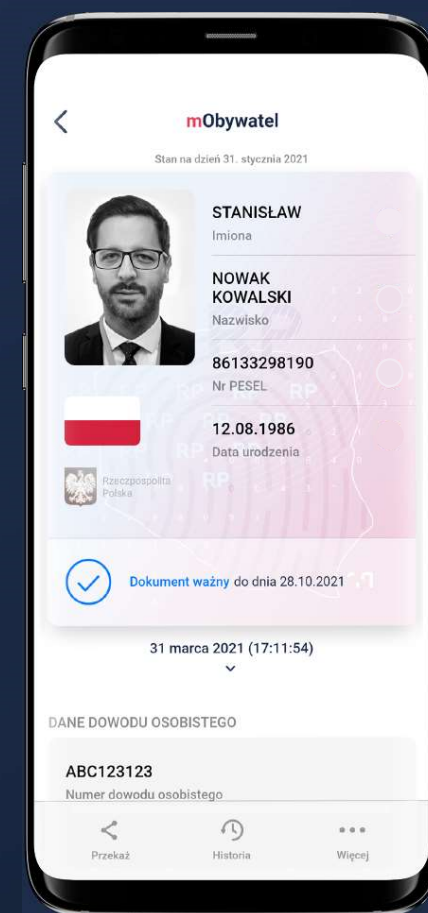
**15 300 000** documents issued

**5 300 000** downloads

**5 000 000** mIDs

**4 100 000** EU Digital COVID Certificates

**3 100 000** mDriver's licenses





**NASK**

Thank you

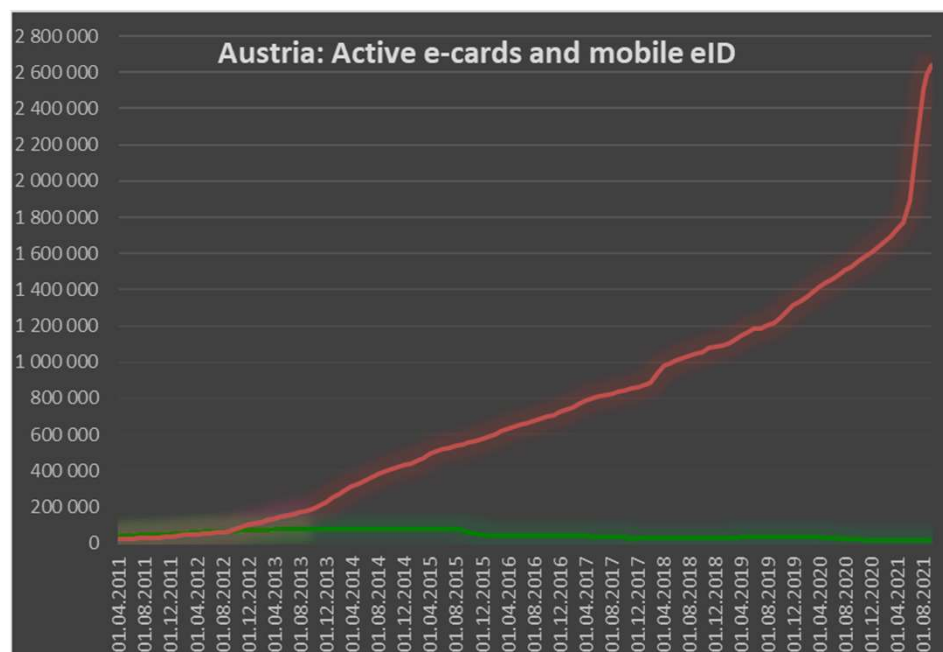
# EU Digital Identity Framework, an Austrian perspective

*ENISA Trust Services Forum,  
Berlin, 21<sup>st</sup> September 2021*

[Herbert.Leitold@a-sit.at](mailto:Herbert.Leitold@a-sit.at)

# Austrian experience with mobile eID

- Satisfactory take-up only with mobile eID
- Cov-19 gave further boost
- Mobile-first needs rethinking app integration
- Redesigned eID to “*ID Austria*”



# Wish list for EU Digital Id Framework

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- Avoiding parallel universes
  - Seamless migration for successful mobile eIDs
- Agnostic to national infrastructure
  - Local store vs. registers as authentic sources
- Mature standards proven on the large scale
  - For both relying parties and infrastructure
- Clear(er) view on “online” vs. “offline”
  - Use cases can be / are different

# Examples of projects/standards

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- Online vs. offline cases
  - SAML (eIDAS “now”) and OIDC (rulez mobile)
  - mDL (ISO 18013-5) MS projects, Apple/Google
- Successful mobile eIDs
  - AT, BE, EE, LV, PT, ..... you name them!
  - similar patterns on take-up, but some different approaches based on the national situation

## Next steps and success factors

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- Take stocks of standards and solution
  - See how heterogeneous the successful are
- Needs to work with mobile devices that 80% of citizens already have
  - Risky to assume (US/Asian) markets will follow
- Open to private sector with little hurdles
  - Need to do better than with eIDAS-1
- Rely on the experience already out there



Thank You for Listening!

[Herbert.Leitold@a-sit.at](mailto:Herbert.Leitold@a-sit.at)



REPUBLIC OF ESTONIA  
**INFORMATION SYSTEM AUTHORITY**

# Is eIDAS update moving in right direction?

**Mark Erlich**

Head of eID Department

2021-September-21

**Reality:**  
**Digital Life in „my Pocket”**

**Solution:**  
**How to eat an Elephant**

**Quo Vadis eIDAS:**

**It's a working platform for  
harmonizing e-Service availability  
within EU**



REPUBLIC OF ESTONIA  
**INFORMATION SYSTEM AUTHORITY**

# Thank You!

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# Denmark and eIDAS – ENISA Presentation

September 2021



# Who am I?



- IT-Consultant in the Agency for Digitisation, Ministry of Finance
- 10 years in the public sector
- Solution/enterprise/business architect
- Working exclusively with electronic identification primarily related to the eIDAS regulation implementation
- Chief architect behind Danish eIDAS node implementation and identity matching functionality





The Danish Digital Society  
Our frame of reference



AGENCY FOR DIGITISATION  
MINISTRY OF FINANCE

# Overview of the Danish national digital infrastructure

## National eID – NemID (MitID from 2021)

- An ID for citizens, employees, public authorities and businesses
- More than 700 million authentications a year
- Created in collaboration with the banking sector

## NemLog-in

- The National broker which provides single-sign-on for all public e-services with the use of NemID
- Creation of power of attorneys & user rights
- Qualified signature and seal creation (from Q2 2022)
- 400 public service providers connected

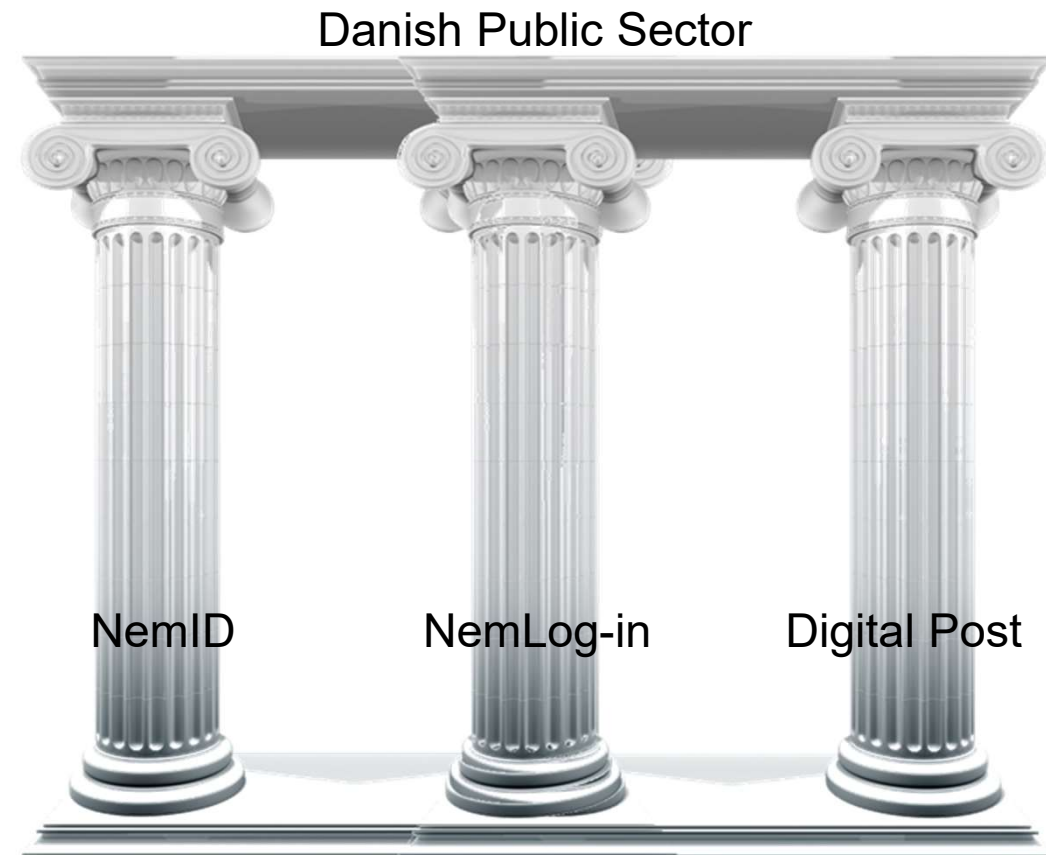
## Digital Post - The Danish National Digital Communication Channel

- Provides secure and reliable digital mail G2C

## eID-gateway

- *Identity matching functionality Q4 2021*

- <sup>26</sup> – *NemID connected Q4 2021*



eIDAS in the past



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MINISTRY OF FINANCE

# Why did we fall short of the initial ambitions and expectations of eIDAS?

- Relatively few countries have implemented identity matching functionality.
- No granulated mechanisms for the recognition of representations.
- No mechanisms or agreed models for handling fees and other barriers for authentications with.
- Lack of urgency in the notification of eIDs.
- Limited usability





eIDAS in the future



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MINISTRY OF FINANCE

# How do we succeed and exceed expectations?

- The value proposition must be clarified and communicated loudly
- Identify key use cases for a EU-wallet
  - Identify core functionality which supports the key use cases
- Clarify the relationships between existing infrastructures, legislation and their interconnectedness.
- Identify benefits and opportunities for developing a EU-wallet building block
- Plan the notification of the remaining 10-12 MS





Thank you for your attention.

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