

DIGITAL IDENTITY

Service-Account for Hamburg's Citizens

HamburgID
Single Sign-on Identity

IDENTITIES USED IN DIGITAL LIFE

CITIZENS AND THEIR DIGITAL IDENTITY



Rational Level

Transparency about my data

Protection of my data

Interoperability of my data

Right to forget

Limit data flow

...



Emotional Flaws



Connect me with others

Getting new friends and fans

Share my data

Increase data flow

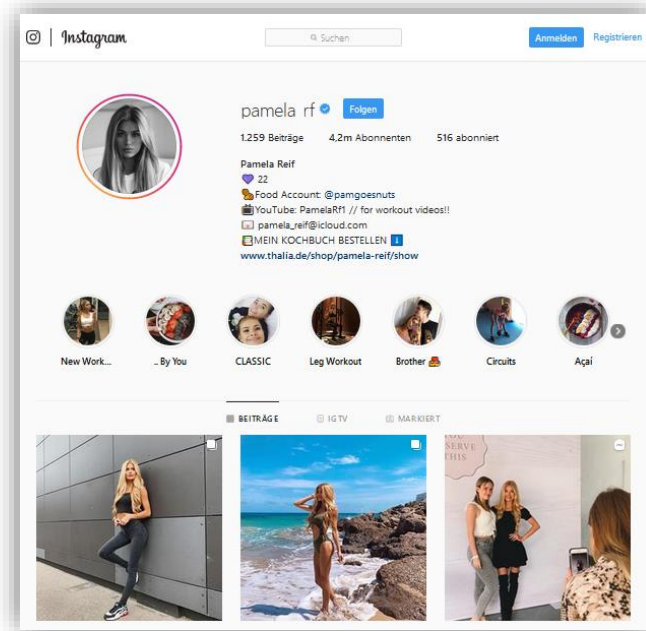
Gain advantages

Impress others

...

MY SELF-CONSTUCTED IDENTITY

- Presenting myself as advantageously as possible in social networks
- Self-staging, getting famous
- Data are often “owned” by the platform operator for further use
- User may be unable to delete his data



* As defined by philosopher Richard David Precht

MY ANONYMOUS DIGITAL IDENTITY

- To consciously protect privacy
- Important for Freedom of Speech
- Increases antisocial behavior of identity owner
- Leads to hate comments by others



* As defined by philosopher Richard David Precht

MY FORMAL DIGITAL IDENTITY

- ID card/Passport issued by official authorities incl. eID
- Used for e-gov, travel, payment, identification at various occasions
- Basis for employer identity



* As defined by philosopher Richard David Precht

LEGAL FRAMEWORK

LEGAL FRAMEWORK

Germany „Online Access Legislation“ (**OZG**) is in-line with EU regulations for the **Digital Single Market** and the **eIDAS** (electr. **ID**entification, **A**uthentication Trust **S**ervices) regulation:

Latest by end of 2022 most e-government services in the EU need to be accessible online in an open, efficient, cross-border, easy-to-use and interoperable manner. The **Once-Only principle** applies where feasible.

EIDAS

One of EU's aims with **eIDAS** is to have **Secure Digital Identities** for consumers to ease the Digital Single Market:

EU citizen with a national identity (e.g. ID-Card, driver license) will use the **eID** to identify and/or authenticate themselves to access public services available in other EU countries.

To serve Once-Only a **Single Sign-on eID** is needed.



EID IS CORE OF DIGITAL IDENTITY

Belgian eID



Supported Countries:
Belgium

Verified data:
Personal Identity

Finnish eID



Supported Countries:
Finland

Verified data:
Personal Identity

Spanish eID



Supported Countries:
Spain

Verified data:
Personal Identity

Estonian eID

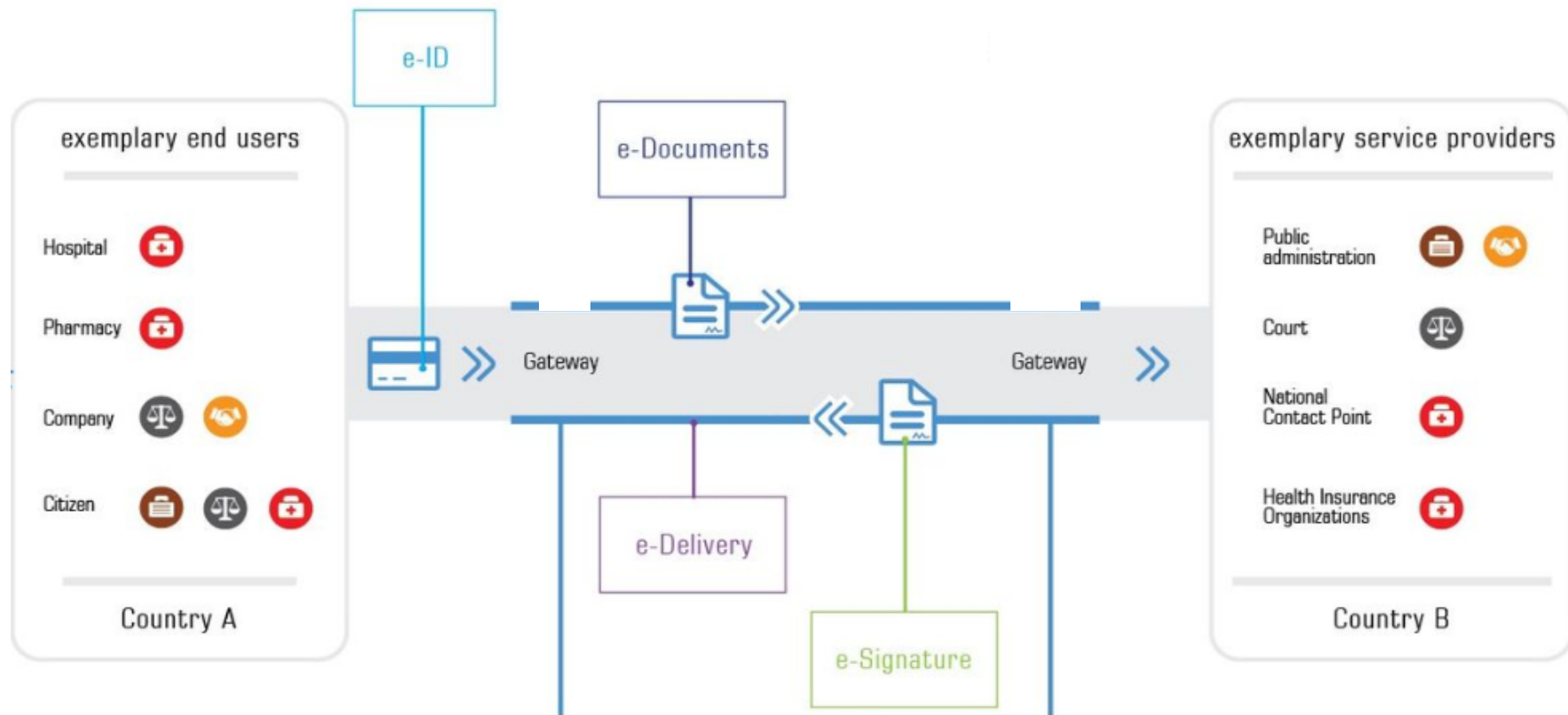


Supported Countries:
Estonia

Verified data:
Personal Identity



HamburgID
Single Sign-on Identity



WHICH ID-SOLUTION?

HamburgID
Single Sign-on Identity

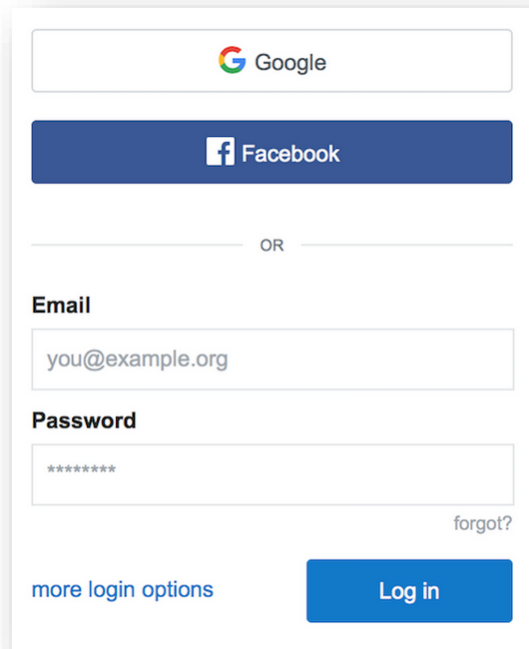
THE WANTED DIGITAL IDENTITY

The Digital Swiss Army Knife:

- ✓ *open*
- ✓ *efficient*
- ✓ *cross-border*
- ✓ *easy-to-use*
- ✓ *interoperable*



NOT ACCEPTABLE AT ALL?



CHALLENGE: LEVEL OF ASSURANCE

Level of Assurance (LoA) for the eID according to eIDAS:

- **Minimal** (self given user name and pwd)
- **Low** (e.g. one factor by SMS)
- **Substantial** (e.g. two factors incl. ID-Card)
- **High** (qualifies for all governmental services, face-to-face)

CHALLENGE: PROOF OF ASSURANCE



10,848 MUNICIPALITIES IN GERMANY



WHAT DOES A HAMBURGER WANT?



PAYING THE DOG TAX IN HAMBURG



REGISTER A CAR-PLATE IN MADRID



1927 Series, Valencia



1927 Series, Madrid



1971 Series, Madrid



1971 Series, Navarra
(optional Basque sticker)



1971 Series with Euroband



2000 Series



2000 Series, Small size front plate

FOUND A COMPANY IN THESSALONIKI



ΕΠΑΓΓΕΛΜΑΤΙΚΟ
ΕΠΙΜΕΛΗΤΗΡΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

ID FOR 513 M EU CITIZENS NEEDED



MORE USE OF THE HAMBURGID

The HamburgID may also be used to identify a citizen for

- ✓ Bank account
- ✓ Utility account (power, water, gas, internet)
- ✓ Mobile and domain registration
- ✓ E-commerce and shopping websites
- ✓ ...

CITIZEN ACCOUNT

CURRENT VERIFICATION IN HAMBURG

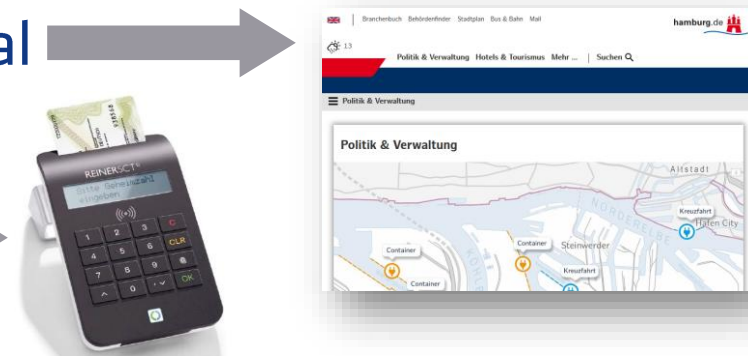
1. Login with user/pwd to city portal

2. Enter data into desired service

3. Put eID into a reader

4. Open eID-App and confirm

5. Receive a receipt



Desktop only!

THE HAMBURGID

The basic parts of a citizen account are commonly:

- ID + verification
- E-Mail account
- Document safe



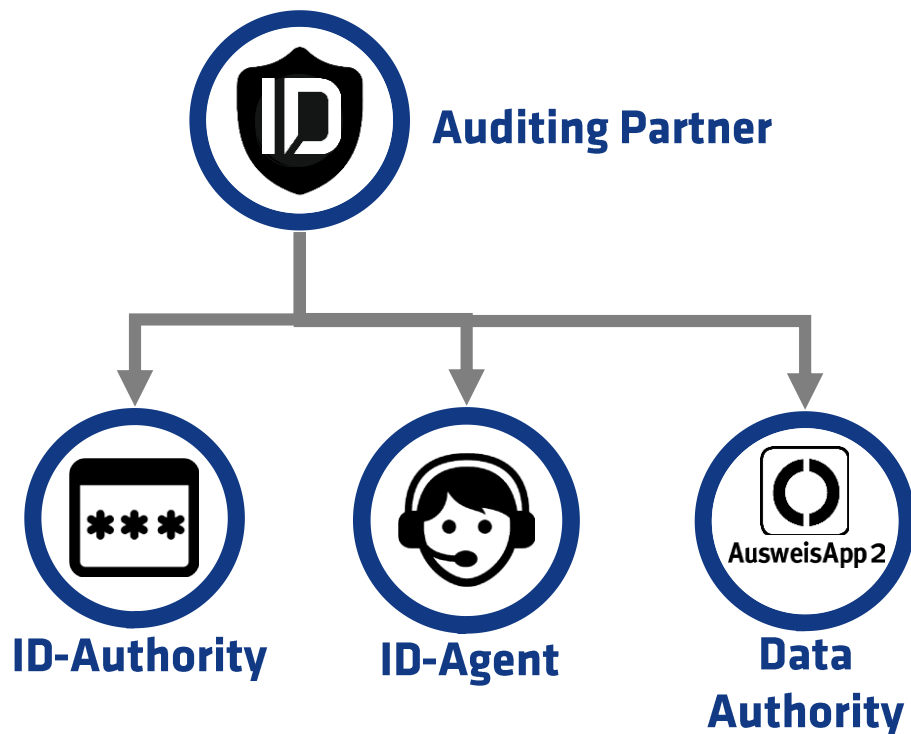
Payment and other modules are optional

INTUITIVE LOGIN TOKEN IS WANTED

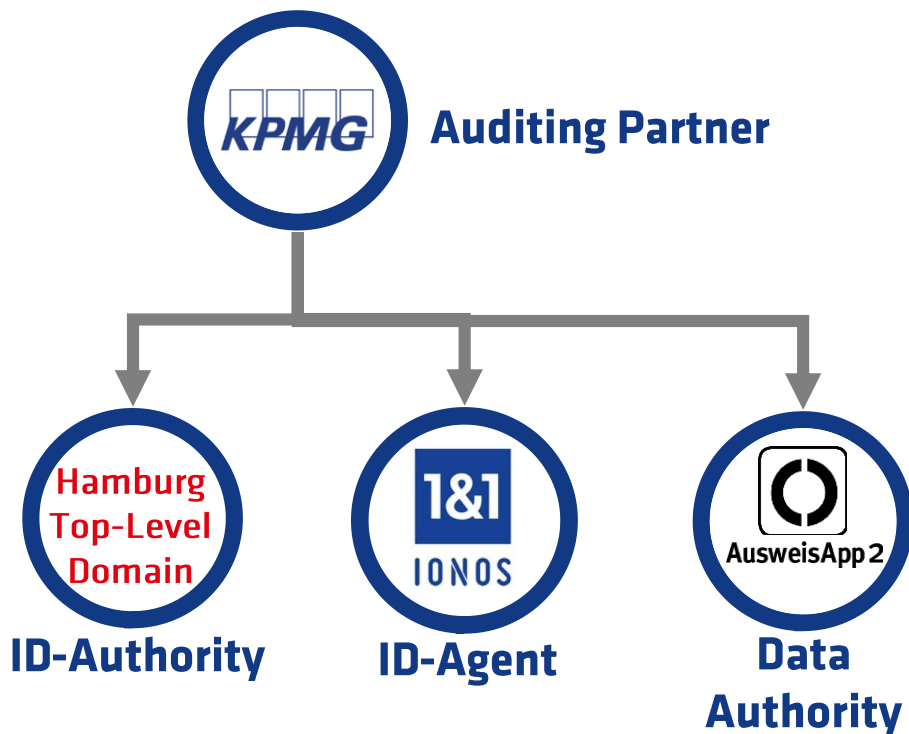
The ID's login token options are e.g.

- tim.taler@id.hamburg (for all without email so far)
- taler.hamburg
- tim@taler.de
- timtaler.de (via DenicID)
- tim471@t-online.de (possible with existing email addresses)

HAMBURGID CERTIFICATION



SERVICE PROVIDERS



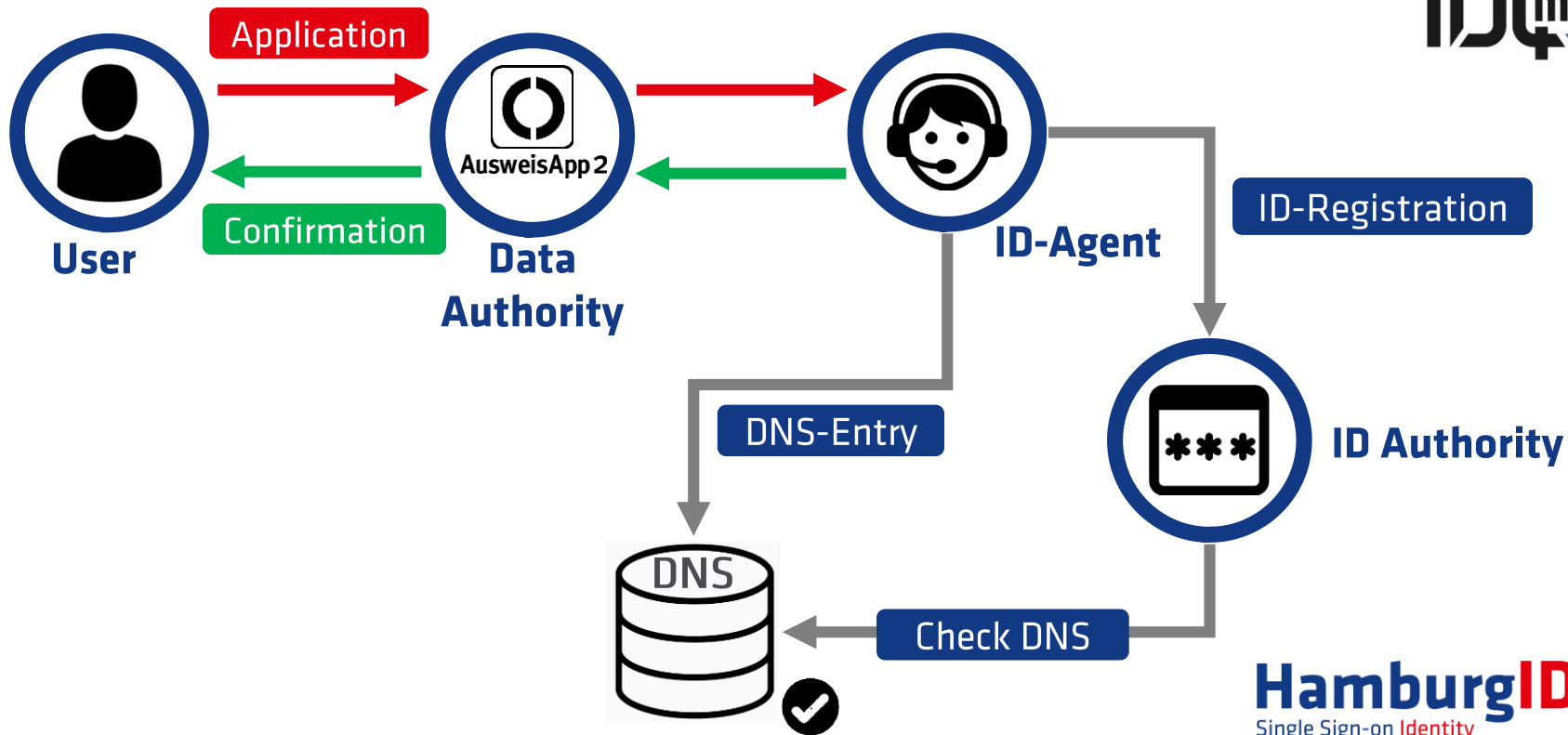
Auditing Partners could be e.g.
T-System, DS-CERT, TÜVIt, ...

ID-Authority: e.g. Denic Service,
other Registries, Authorities, ...

ID-Agent: e.g. Registrars, other
Service Providers

Data-Authority: e.g. Dataport,
Governikus, ...

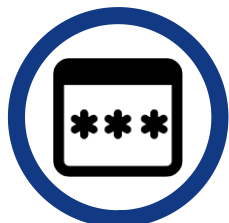
HAMBURGI^D VERIFICATION + ID CREATION



HAMBURGID OVERVIEW



HamburgID
Single Sign-on Identity



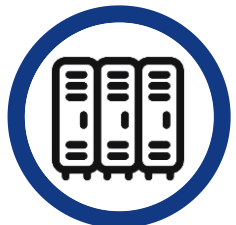
ID-Authority



ID-Agent



Mailbox



Docu-Safe



Auditing Partner



**Data
Authority**



Relying Parties
e.g. Administration
Banking, Shopping, ...

THE MODELS FOR AN ID4ME ID

Domain Model for domain name owners

taler.hamburg or muller.de host the txt-Records

Email model

tim.taler@id.hamburg is translated into an identifier which holds the txt-Records

FEEDBACK BY GOVERNMENTS SO FAR

„Using the DNS as *established infrastructure* is a very good idea“

„Storing data and logins at *different providers* creates less dependency“

„Its the *best univereal identity approach* so far“

„It's a *beautiful and smart* solution (tech-staff)“

ID-AUTHORITY OPTIONS

Single Authority	Single Authority	Shared Authority	Shared Authority
DenicID	HamburgID	DenicID + HamburgID + BerlinID + BayernID + other German TLDs	geoTLDs like .paris .berlin .madrid .wien .zuerich (+ccTLDs?)
Existing	High costs	Shared costs Maximized potential	Shared costs European Solution

LET'S TALK ABOUT MONEY

FOLLOW THE EID MONEY

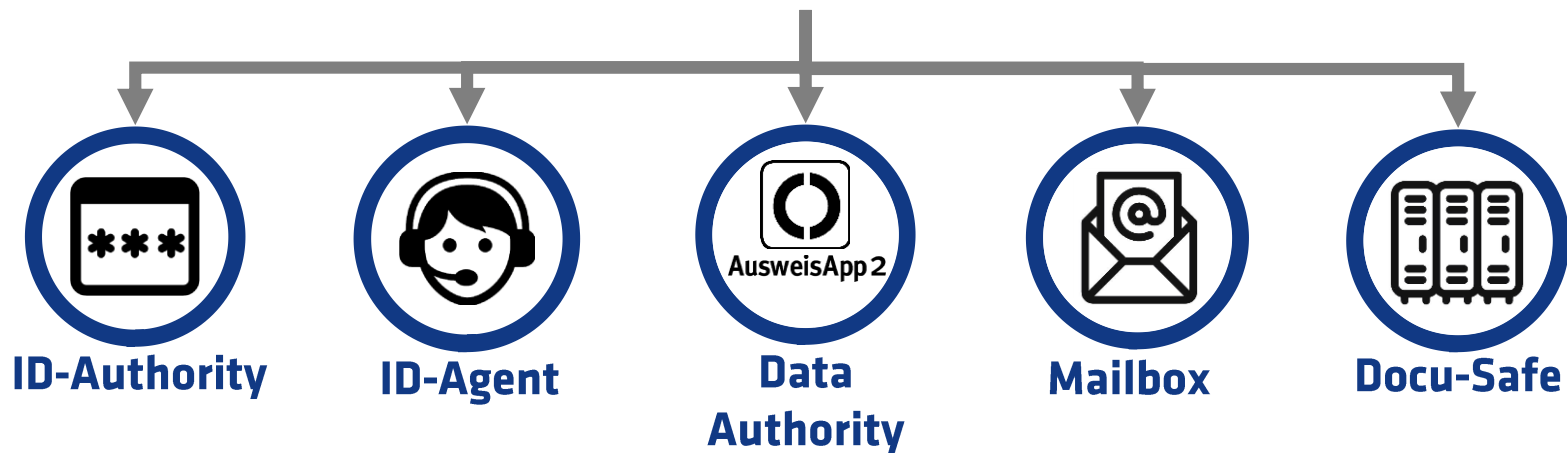
Local governments that have implemented Service-Accounts with eIDAS do

- pay for development, implementation, mailbox, ...
- pay for every verification:
 - < EUR 1.00 for an automatic verification by eID reader and app
 - > EUR 5.00 for face-to-face video-ident verification

Is the payment of ID fees by citizens likely?

PAYMENT BY CAUSER PRINCIPLE

European Union
National Governments
Local Governments
must pay for all the services



NEXT STEP ID4ME INFORMATION

- Information of relevant European Union officials.
- Get EURID (.eu registry) to implement ID4me.
- Get in contact with the responsible officials for the OZG in Germany.
- Create a testimonial case.

THANK YOU! ANY QUESTIONS?

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