Exploring Synergies in NIS 2 Implementation: A Path to Convergence

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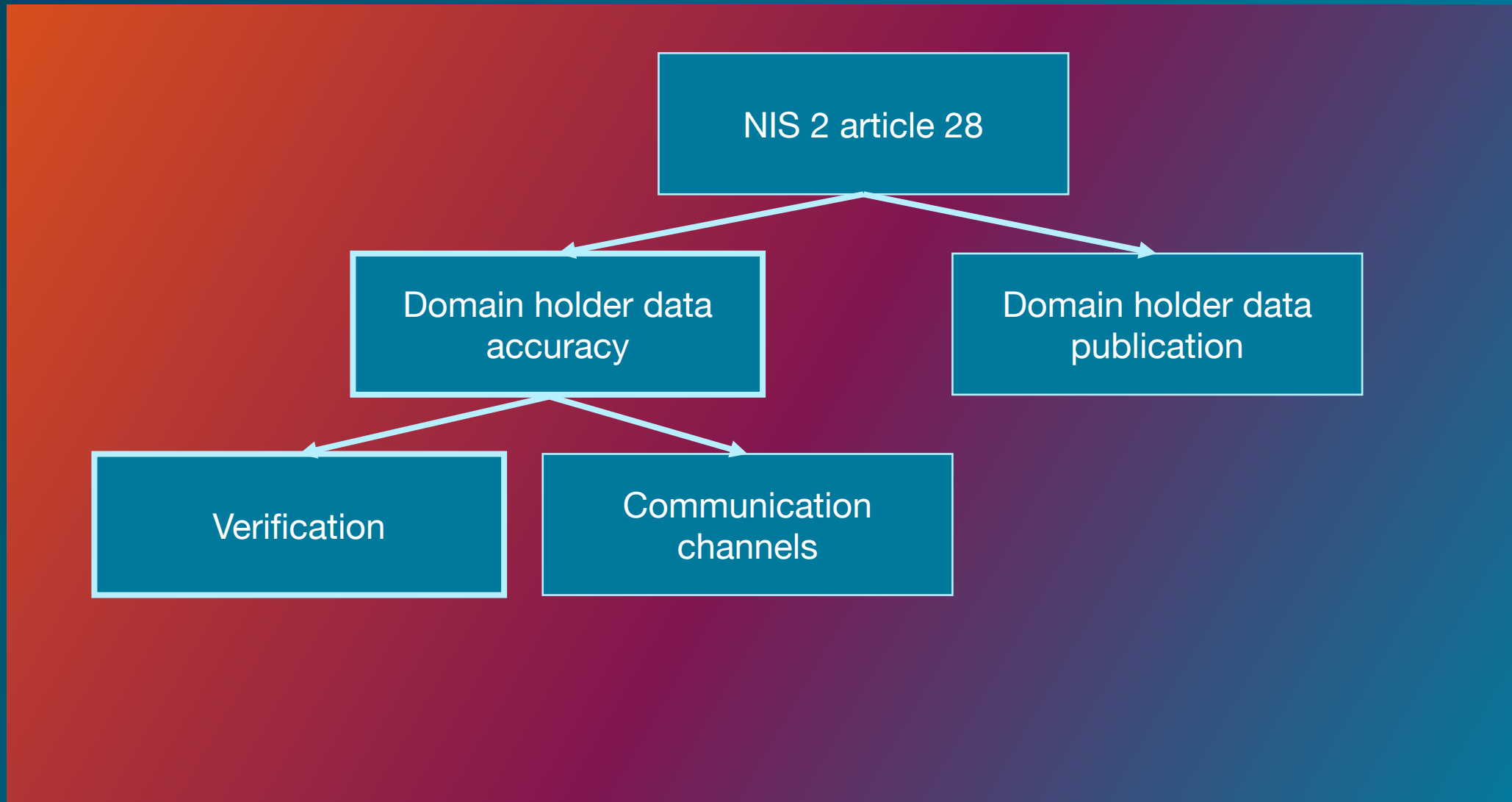
What is it all about



NIS 2 tells

TLD name registries and the entities providing domain name registration services shall

- … collect and maintain **accurate** and complete **domain name registration data** in a dedicated database with due diligence…
- … the database of domain name registration data to contain the necessary information to identify and contact the holders of the domain names
- … have policies and procedures, **including verification procedures**, in place to ensure that the databases […] include accurate and complete information

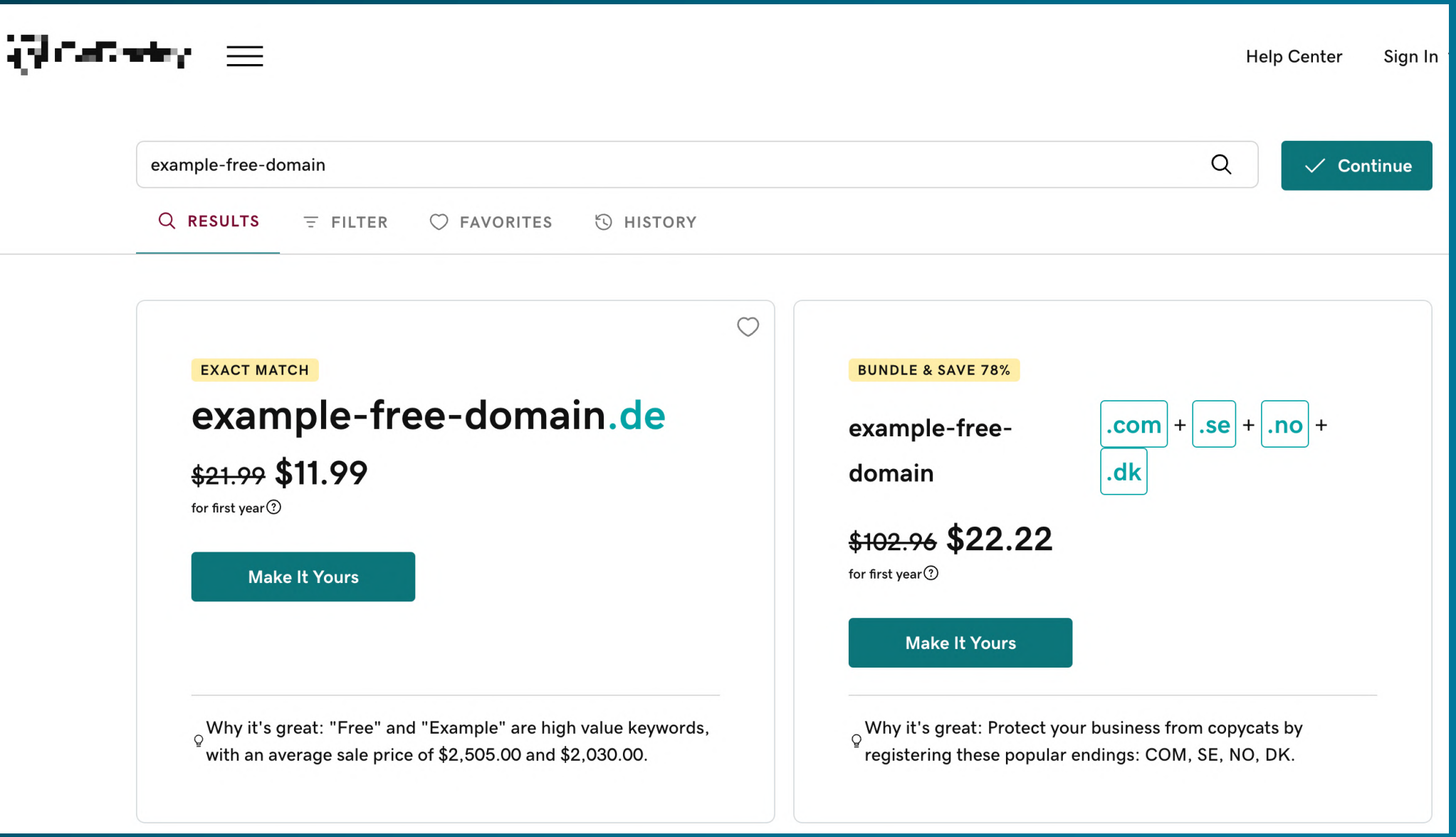
If you don’t know what to do call a working group

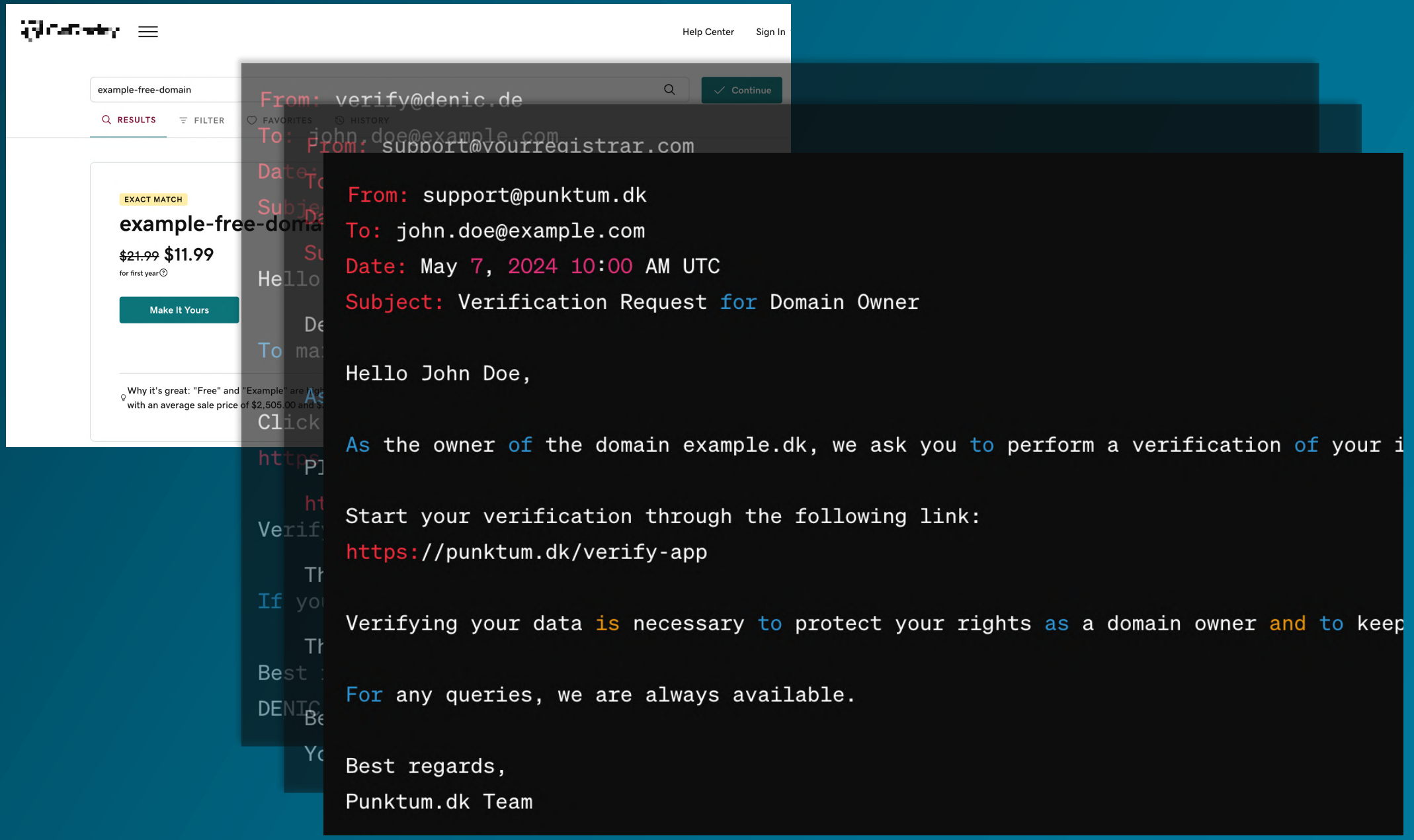
Some Principles:

- Future-oriented, flexible and scalable
- Ex post and ex ante verification possible
- Possible reusability of verification, even between TLDs

Why should we care?

- A registrar has 15-25% of domain registrants with more than one TLD
  - 40% of which with 3+ TLDs
- For a registrar with 100.000 domain holders it would mean ~145.000 verifications


Help Center
Sign In
example-free-domain
Continue
RESULTS
FILTER
FAVORITES
HISTORY
EXACT MATCH
example-free-domain.de
$21.99 $11.99
for first year
Make It Yours
Why it's great: "Free" and "Example" are high value keywords, with an average sale price of $2,505.00 and $2,030.00.
BUNDLE & SAVE 78%
example-free-domain
.com + .se + .no + .dk
$102.96 $22.22
for first year
Make It Yours
Why it's great: Protect your business from copycats by registering these popular endings: COM, SE, NO, DK.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for first year
Make It Yours
Why it's great: "Free" and "Example" are
with an average sale price of $2,505.00 and
From: verify@denic.de
To: john.doe@example.com
From: support@yourregistrar.com
From: support@punktum.dk
To: john.doe@example.com
Date: May 7, 2024 10:00 AM UTC
Subject: Verification Request for Domain Owner
Hello John Doe,
As the owner of the domain example.dk, we ask you to perform a verification of your i
Start your verification through the following link:
https://punktum.dk/verify-app
Verifying your data is necessary to protect your rights as a domain owner and to keep
For any queries, we are always available.
Best regards,
Punktum.dk Team

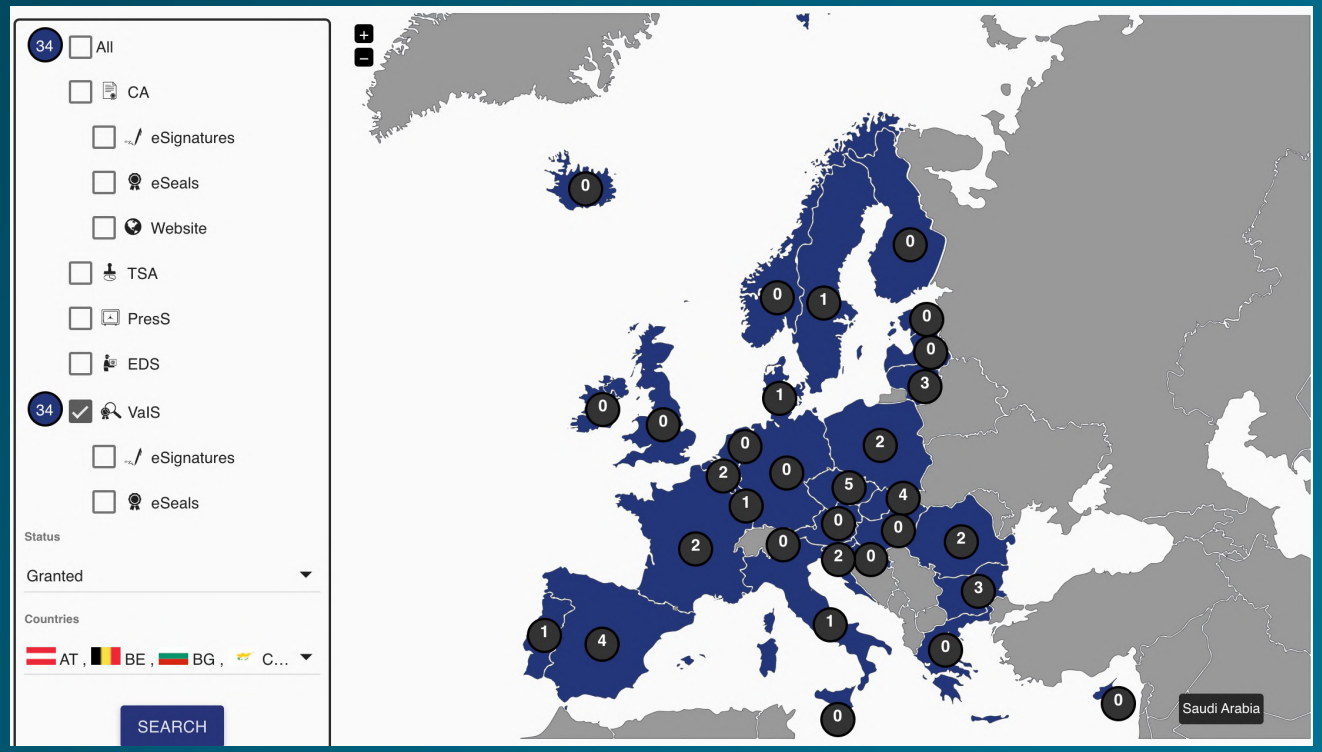
The Problems

- It's a **burden** for all parties involved
- It's an **additional cost** with no value created
- It's **miserable UX**

- **There will be domains lost on the way**
  - no bundles offered
  - or some verifications not completed and domains possibly deleted

How?

eID will save us!



https://www.eid.as/tsp-map/#/

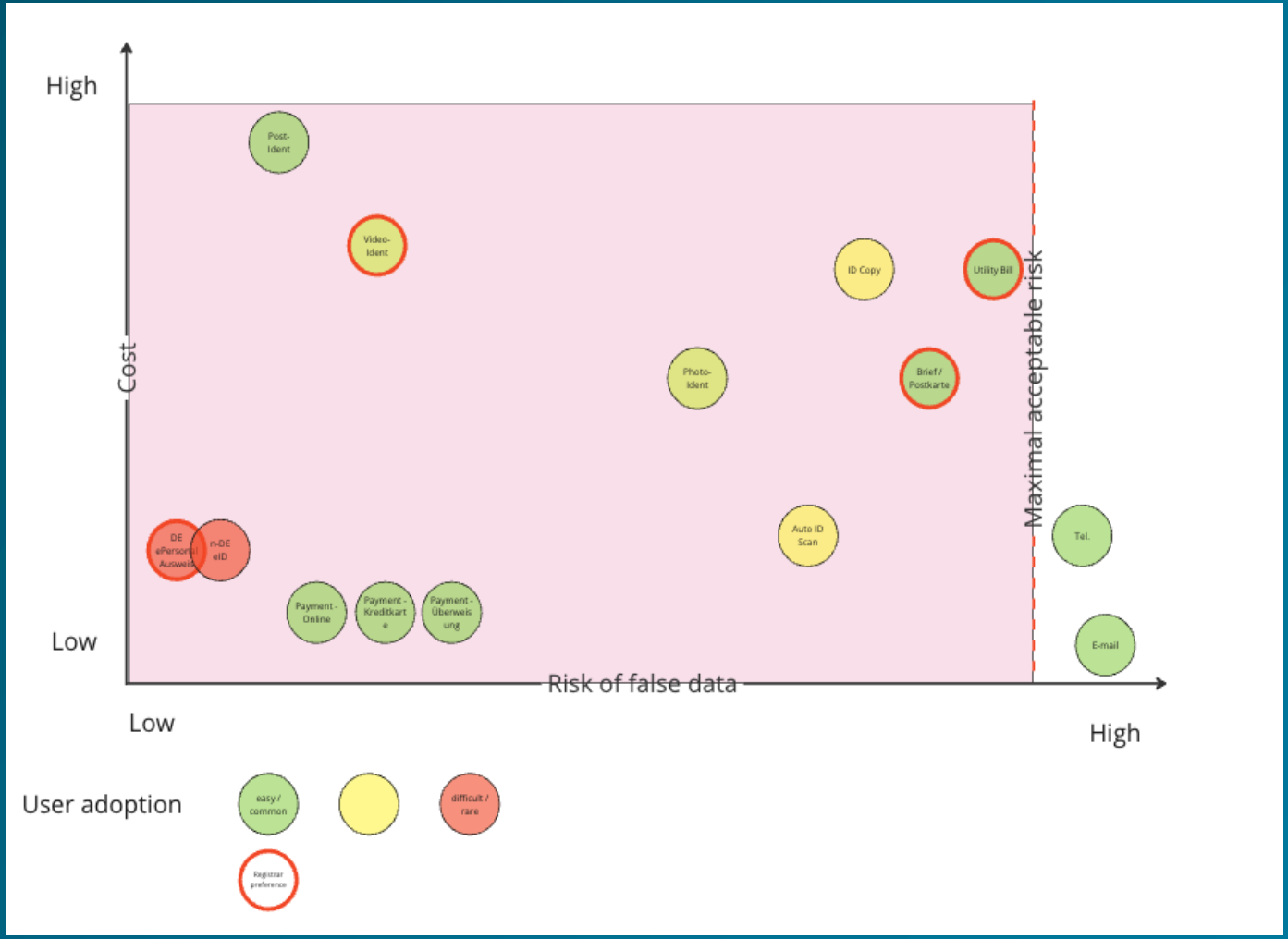
The supported electronic identification means **from the following countries** can be used to be identified in the supported services **of Germany:**

No operational connection found.

https://eidas.ec.europa.eu/efda/browse/notification/eid-chapter-contacts/DE

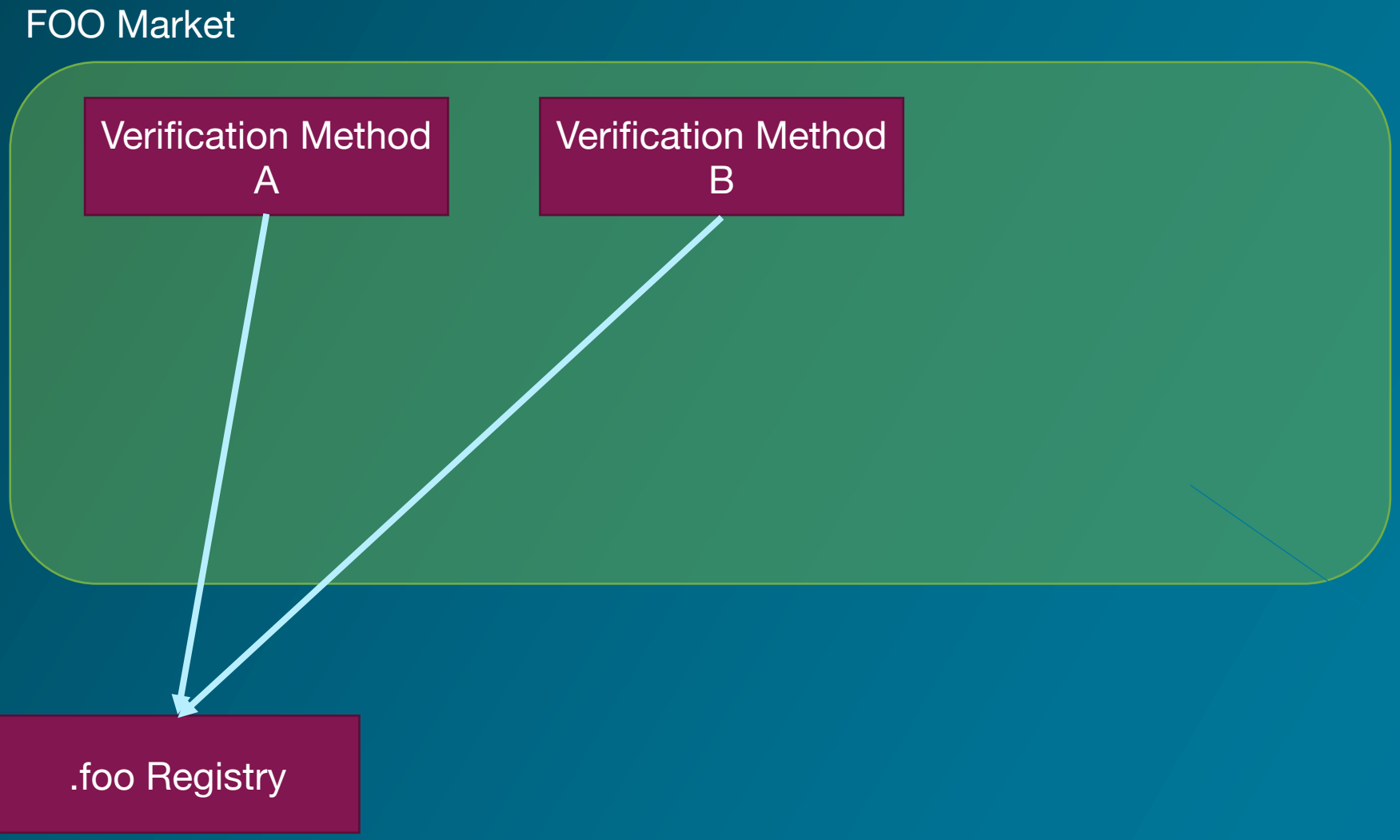
... not (yet)

Let’s add more methods into the mix

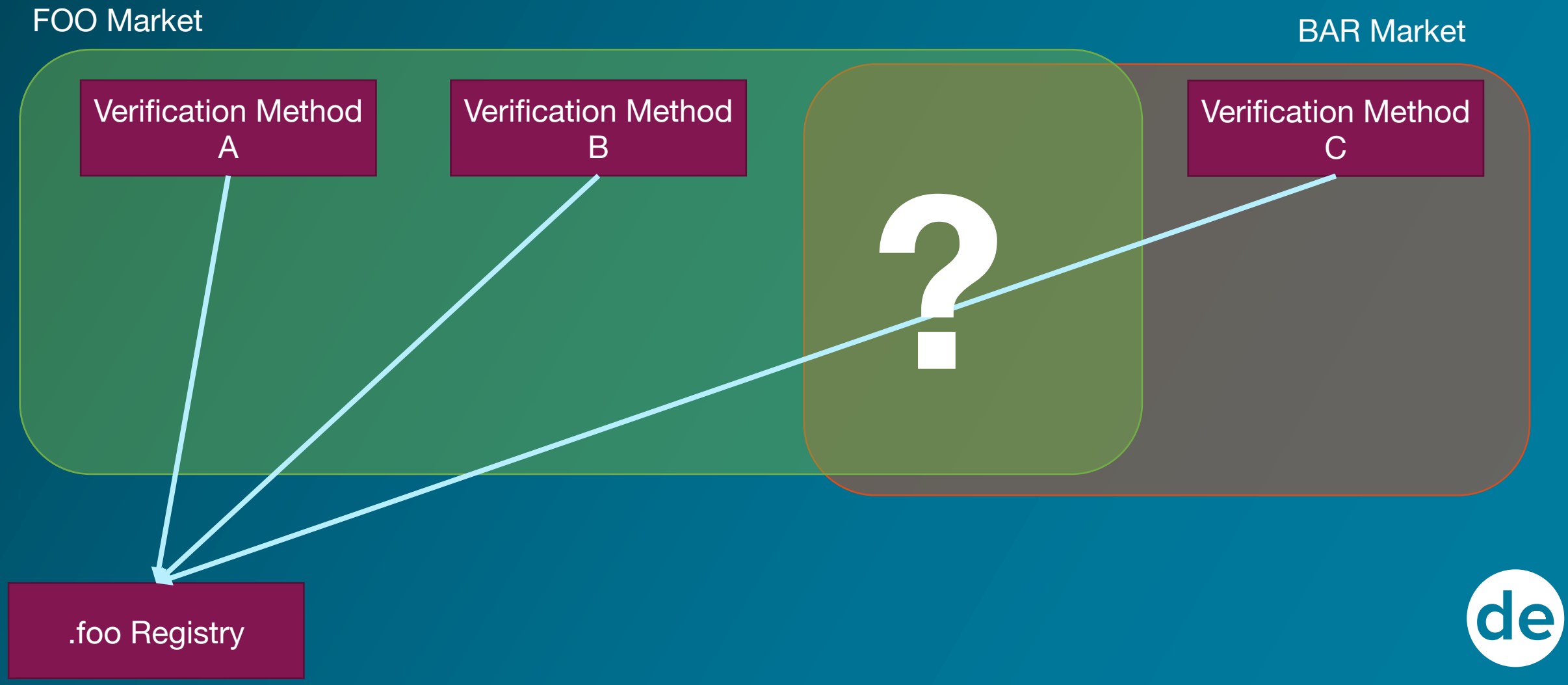


… and who?

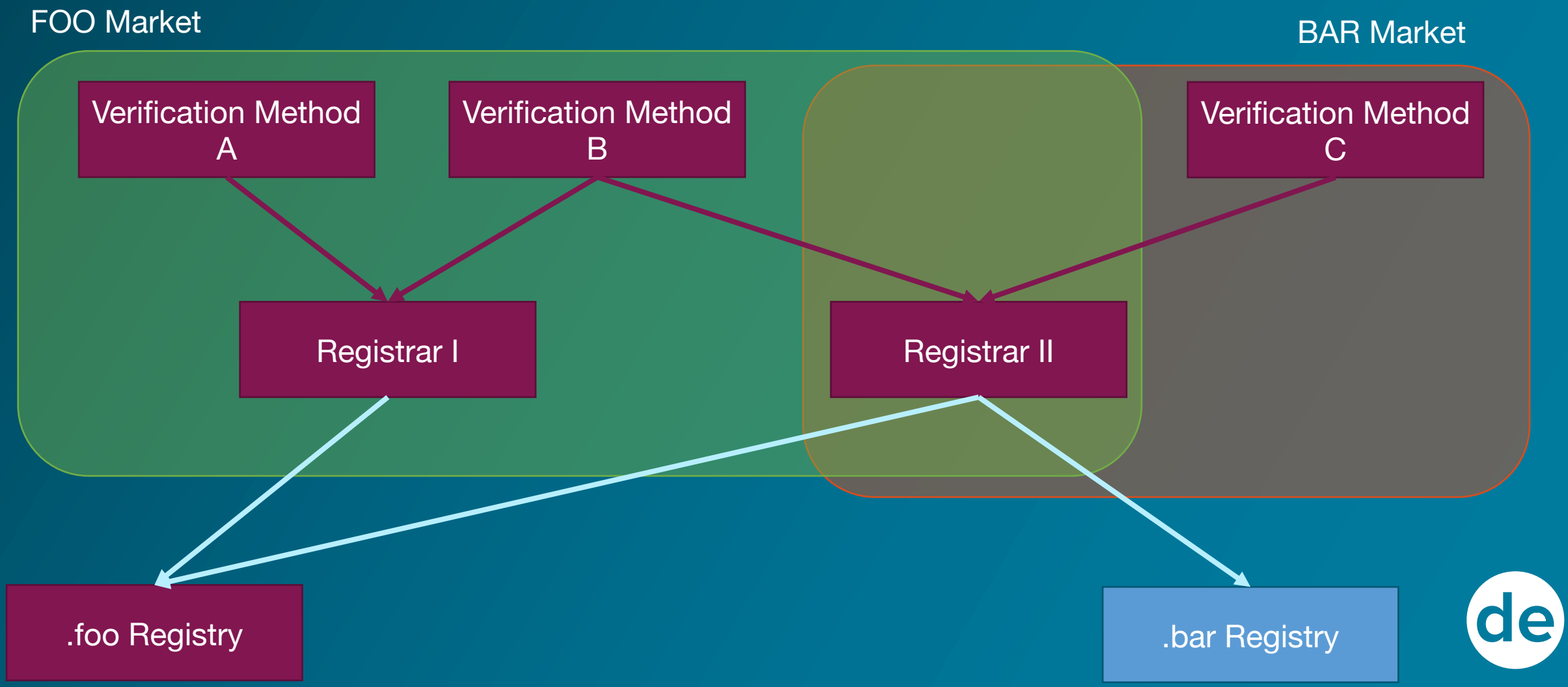
Domain holder verification landscape



Domain holder verification landscape



Domain holder verification landscape

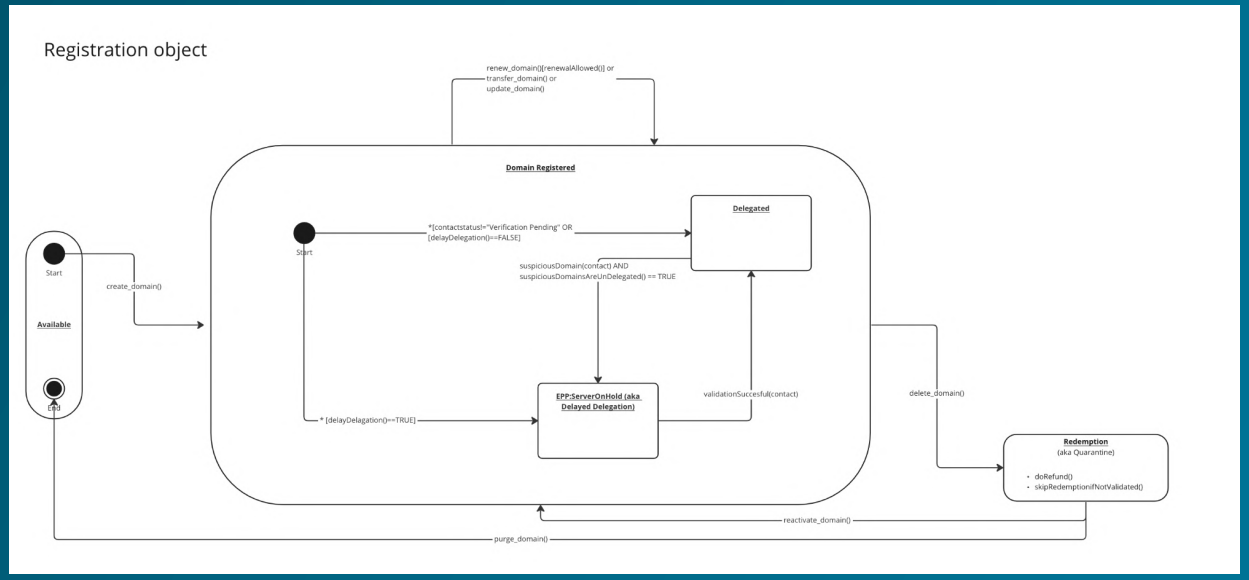


How to get high reusability of verification?

- Allow/let the registrar do the verification
- Keep the verification data with the registrars, so they can reuse
- Have the list of allowed methods and evidences open and generic – allow also manual or analog processes
- Do not bind the process to a certain provider or solution
- Accept also verifications from the past
- Accept the equivalent methods from other markets and registries (if the registrar gets the information back)

Also worth mentioning

- **Re-use processes already existing in the market:**
  - **Risk assesment, traffic light approach and deferred delegation**
  - **E-mail verification** process like for gTLDs
  - **Yearly data reminder through registrars** (like RDRP)



Using standards whereever possible

- **Example: Verification info in CONTACT requests**
  - **inspired by *„OpenID Connect for Identity Assurance 1.0“***

```
[verification]
verificationTimestamp: 2023-11-11T15:36:21+02:00   → Timestamp
verificationEvidence: utility_account              → Evidence of verification
verificationMethod: physical_document              → Method of verification
verificationReference: ABC123/45GHT                → Reference number
trustFramework: de_denic                           → Framework used
verifiedClaim: name                                → Verified Claim
verifiedClaim: address                             → Verified Claim
verificationResult: success                        → success or failed; based on result
```

Initiatives around CENTR

- RANT Verification – lead .be - goal: describe the generic process around registrant verification, define possible policy choices, document already existing approaches by different TLDs
- NISFITS – lead .de, .at – goal: a toolbox of technical approaches to model use cases around NIS 2 (EPP extensions, RDAP extensions, list of identifiers etc.)
- Adress checker – lead .de – a collaborative work to have as good as possible adress validation software module for all countries

THANK YOU!

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