



**Making a digital proof ecosystem  
happen in Switzerland.**

**VC-Catalog for non-public  
credentials**

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## DIDAS Adoption Working Group -

IN 2027 WE ARE THE  
CORNERSTONE IN THE  
WIDESPREAD  
ADOPTION OF E-ID.



# DIDAS



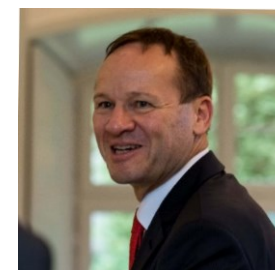
**SBB CFF FFS**



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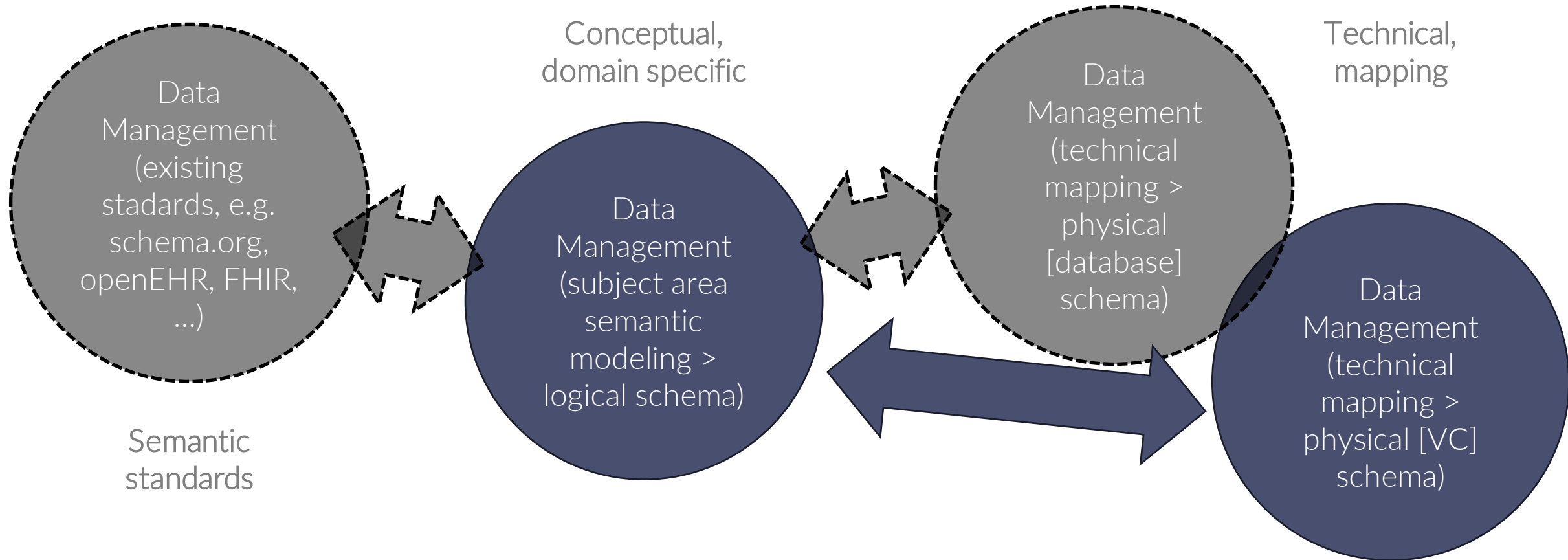


**swisscom**



**Abdagon**

# Data Management and VC-Catalog



## Why VC-Catalog?

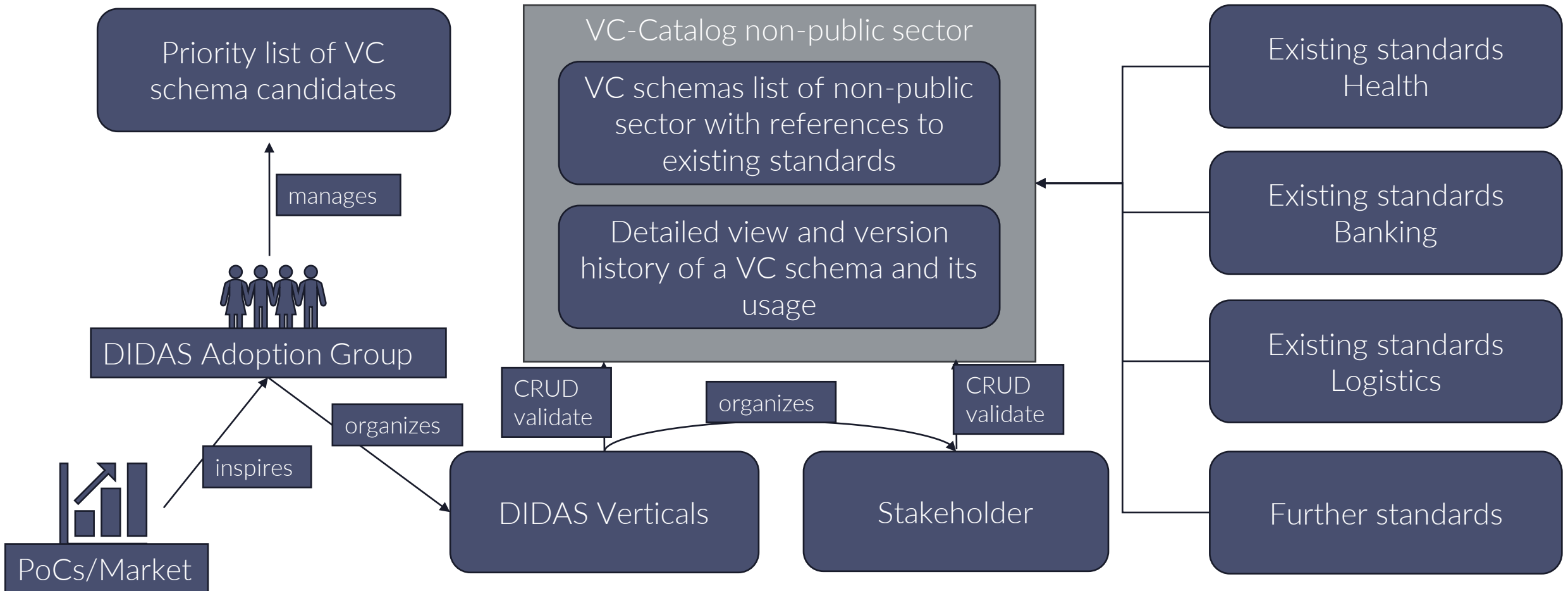
The VC-Catalog facilitates (semantic) interoperability for verifiable credentials through mutually agreed data formats.

Data formats are specified from a domain specific (use case) perspective, and in a structured manner as metadata in the form of «schemas», defining attributes, with all elements appropriately documented.

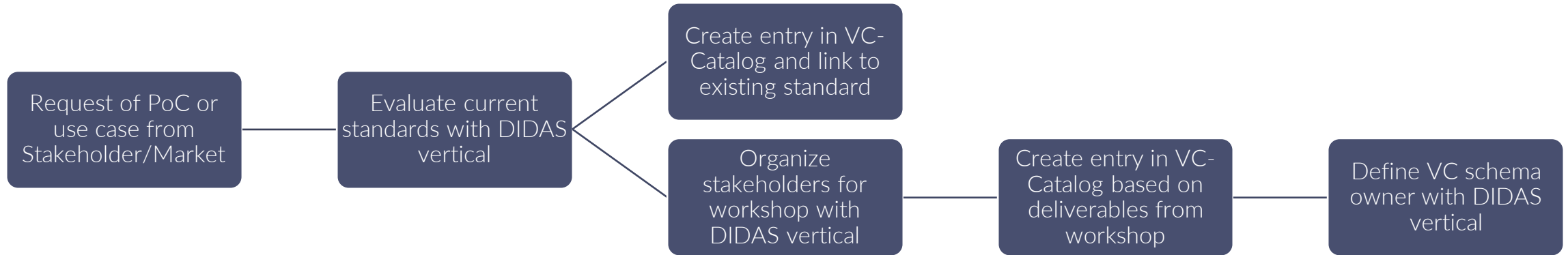
Agreed domain specific definitions are subsequently mapped to technical structures for verifiable credentials.

The VC-Catalog is accessible to all interested parties to foster semantic interoperability between all participants of the VC ecosystem.

# Overview of Components



# DIDAS Adoption Working Group Process



## Change management in responsibility of the DIDAS verticals

- Versioning and expiration of VC-Schemas
- Changing descriptions
- Updating Issuer and Verifier information

# VC-Catalog Platform Requirements

- Platform need to be coordinated
- Metadata catalog
  - Structured schemas and responsibilities that ensures interoperability
    - EMBAG (I14Y)
- Change management
  - Known tool, transparency, and responsibility
    - E.g. Github VC-Catalog

## **Art. 14** Interoperabilitätsplattform

<sup>1</sup> Das Bundesamt für Statistik betreibt im Internet eine öffentliche Plattform, auf der insbesondere folgende Informationen direkt oder über Referenzierung in elektronischer Form einfach zugänglich sind:

- a. die Metadaten von strukturierten elektronischen Datenbeständen der Bundesverwaltung einschliesslich der Metadaten von Open Government Data nach Artikel 10;
- b. ein Verzeichnis der Schnittstellen nach Artikel 13 sowie der zu deren Nutzung notwendigen Informationen, sofern die Informationssicherheit nicht gefährdet ist;
- c. eine Übersicht über die elektronisch verfügbaren Leistungen der Behörden.

<sup>2</sup> Der Bundesrat regelt, welche Metadaten zu veröffentlichen sind. Er kann das Bundesamt für Statistik ermächtigen, im Einvernehmen mit der Bundeskanzlei die Form der Metadaten zu regeln.

<sup>3</sup> Die Kantone können ihre Metadaten, Schnittstellen und Anwendungen unter den Voraussetzungen von Artikel 11 Absätze 3 und 4 auf der Plattform zugänglich machen.

## Conclusion

- We adopt to the similar organisation as DVS
- The VC-Catalog is very important for visibility and implementation of the eco-system
- The standardization process is started on demand with market signals
- Involving DIDAS verticals, brings the right stakeholders together
- Change management and versioning of VC-Schemas is the key
- **For us it is important:** latest with the Sandbox 2.0, we need a platform to start working on the eco-system
- **Next Step:** publication to enable stakeholder discussions to align the result



Questions?

# Findings from DICE VC-Catalog Session

- Focus on semantic interoperability
- Coordination driven by DIDAS Adoption Group, VC-Catalog governance currently being drafted and reviewed
- Driven by specific use cases «as needed» (no definitions in advances)
- Nothing new - data modelling has been around for many years, the VC-Catalog is an application of **established modelling practices**, applied to VCs
- Existing standards are used where available, e.g. schema.org, FHIR (health), openEHR (health), EDIFACT (supply chain), ... > Use case example - certificate of residence
- Organizational ownership are Digital Public Services Switzerland (DVS, Digitale Verwaltung Schweiz), envisaged platform is I14Y (planned to be migrated to Lindas)
- There should be an official place where relevant schemas are published (and where interested parties are looking for schema definitions before defining their own schemas)
- Schemas shall be machine readable
- VC-Catalog is relevant for credentials used outside the own organization, i.e. relevant to multiple parties
- Strict **schema versioning** is prerequisite - relevant schema versions must be available while dependent VCs are in effect
- VC-Catalog initiatives are not yet defined in the EU space