



# Multi-Pattern Architecture

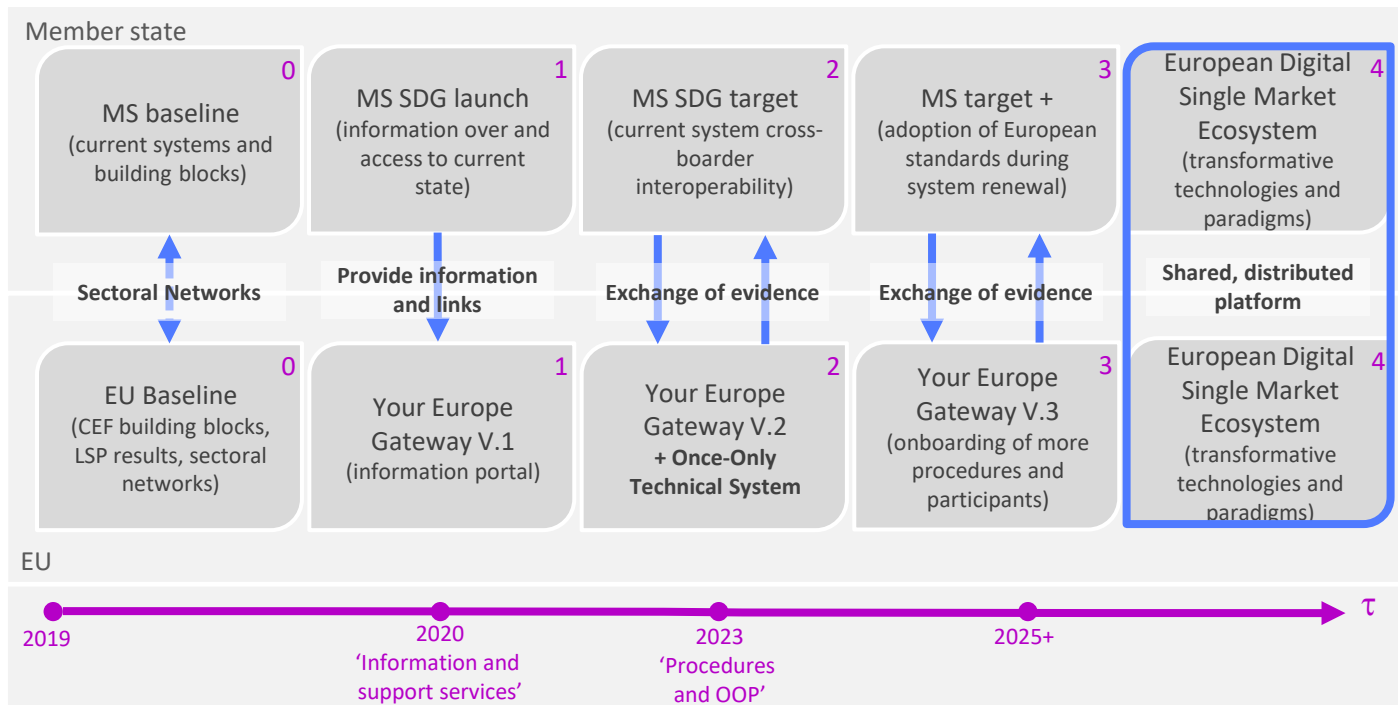


DE4A has received funding from the European Union's Horizon 2020 research and innovation program, under G.A. No. 870635

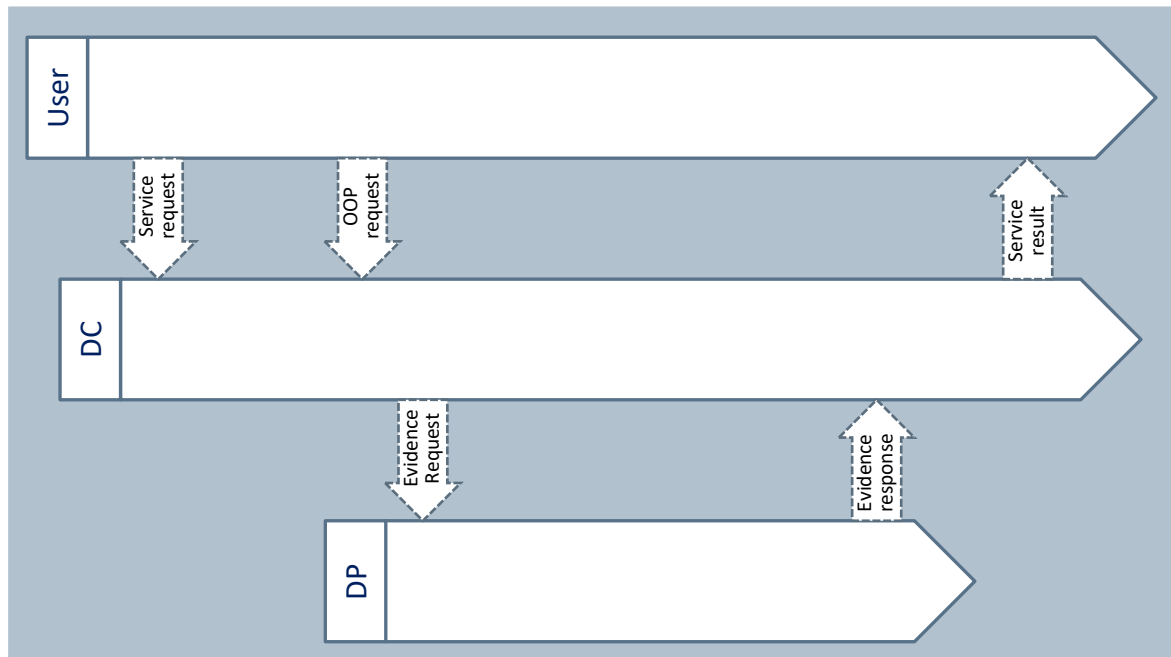
- **5 time horizons** (add focus to the discourse)
- **9 fundamental principles** (based on EU policy)
- **13 derived principles** (related to eGov interoperability)
- **3 viewpoints** (metamodel derived from ArchiMate and BPMN)
- **5 interaction pattern** (describe exchange of evidence)
- **33 building blocks** (assessment of potential re-use)



# Five distinct time horizons provide a reference frame for the complete project (all WPs and Deliverables)



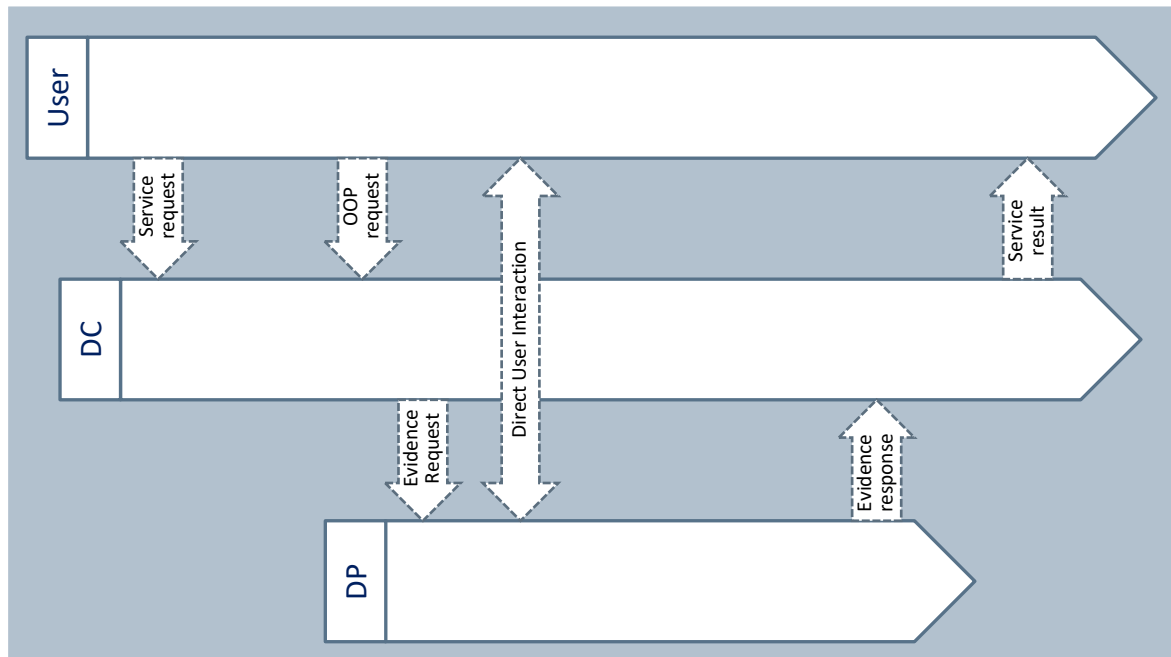
# Intermediation Pattern



- The Data Consumer (DC) orchestrates the OOP exchange
- User interacts exclusively with DC
- This pattern assumes that SDGR Art14 (11) can serve as legal basis for piloting prior to 12.12.2023
  - Explicit Request to DC
  - Preview at the DC
- This pattern is mostly aligned with the SDG OOP high-level architecture



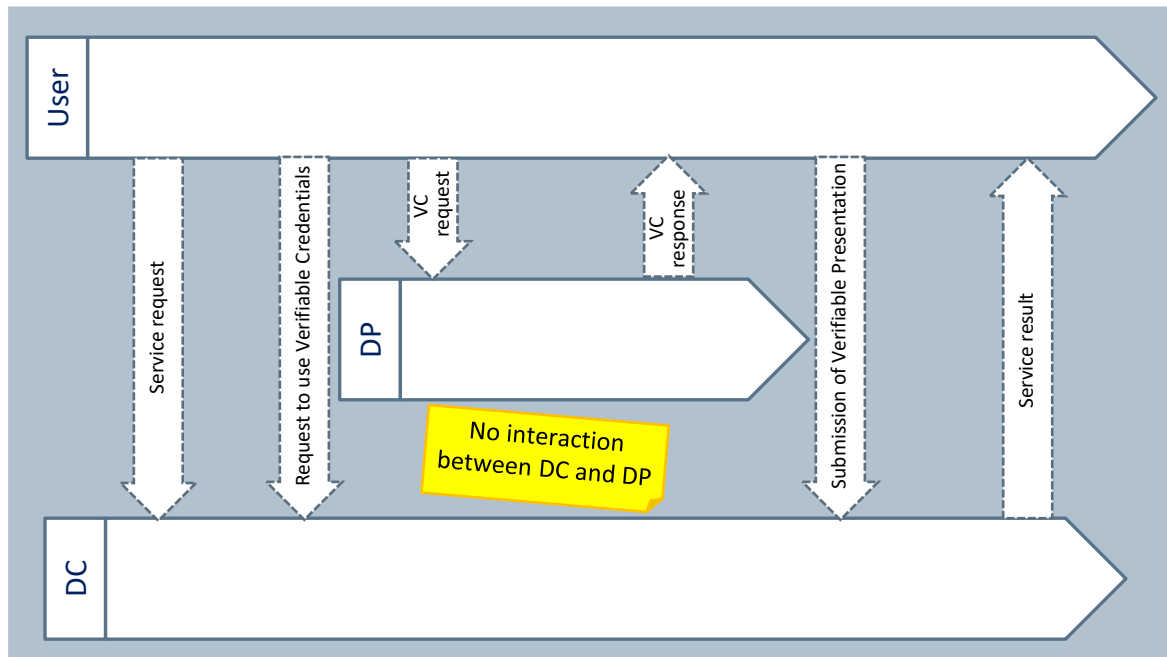
# User-Supported Intermediation (USI) Pattern



- Variation of the Intermediation pattern
- The Data Consumer orchestrates the OOP exchange
- The direct interaction between User and Data Provider (DP) serves to ascertain the DP of the user identity
- Additionally, the Preview can be moved to the DP
- We expect that the USI pattern can be used in production under current applicable law (i.e. does not require Art. 14 as legal basis)



# Verifiable Credential Pattern

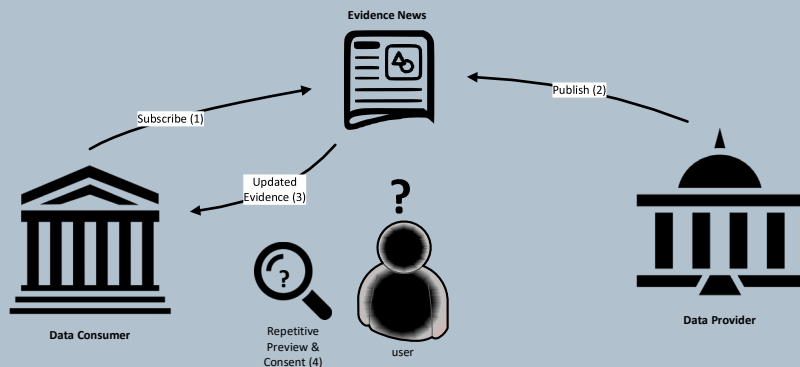


- The VC pattern is a variant of the “User-managed access pattern”(cf. D2.1)
- The orchestrates of the OOP exchange moves to the User
- The communication between User and DP/DC handled via Decentralized Identifier (DID) communication
- Technical/legal/administrative barriers in some participating MS and dependencies (ESSIF) may prevent piloting in production environment

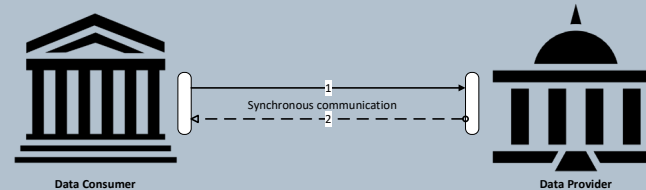


# Two additional Patterns planned for second iteration

## Subscription and Notification Pattern



## Lookup Pattern





Thank You

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