10 years of eArchiving:
Reflections and insights for the next decade

Bruxelles, 29th May 2024

Strategies for archival policies

Round table: E-ARK specifications in the National Archives

Participants

- Jan Dalsten (Denmark)
- Silvia Trani (Italy)
- Zbyšek Stodůlka (Czech Republic)
- Violette Lévy (France)

Opening round

Presentation of experiences with implementing E-ARK products (specifications, software tools, reference architecture) in national environment.

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The E-ARK Project as a “support”: when and why

- **2018:** The Central State Archive of Italy received the specific mandate to create the «Digital Archive of the Italian State» («Archivio digitale dello Stato italiano»)
  - the existing Italian digital preservation scenario had to be implemented to satisfy the permanent archival digital preservation requirements
- **2019:** The eArchiving workshop
- **2021**: The «Italian Digital Preservation Repository» («Polo di conservazione digitale-PCD»): sub-measure M1C3 1.1.8 *Italian Recovery and Resilience Plan:*
  - The «Intermediate Digital Preservation Repository of the Italian Ministry of Culture» («Archivio digitale intermedio del Ministero della cultura-ADIMiC»)
  - The «Italian State Archives Digital Preservation Repository» («Polo di conservazione digitale degli Archivi di Stato-PCDAS»)

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PCD
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The E-ARK Project products: use

- **E-ARK technical specifications**
  - **Information Packages**
    - Common Specification for Information Packages (CSIP)
    - E-ARK SIP, E-ARK AIP and E-ARK DIP Specifications
  - **Content Information Type Specifications**
    - Specification for the E-ARK Content Information Type Specification for Electronic Records Management Systems (CITS ERMS)
    - Common Specification for Archival Information (CS Archival Information)
    - Common Specification for Preservation metadata (CS PREMIS)
    - *SIARD and Content Information Type Specification for Relational Databases using SIARD (CITS SIARD) + Database Preservation and Visualization Toolkits*

The E-ARK Project products: customizations

- *Conceptual and Functional Model* influenced by the Italian juridical context
- *Software platforms*
- **Metadata Profiles**
  - EAD (e.g. Electronic Records - Complex and Simple - and Files; Archival Levels)
  - EAC-CPF (Producers, Internal/External Submitting Organisations, Creators, Control Authority)
  - EAG (Institution with archival holding)
  - PREMIS (e.g. Intellectual Entities, Significant Properties)
  - METS

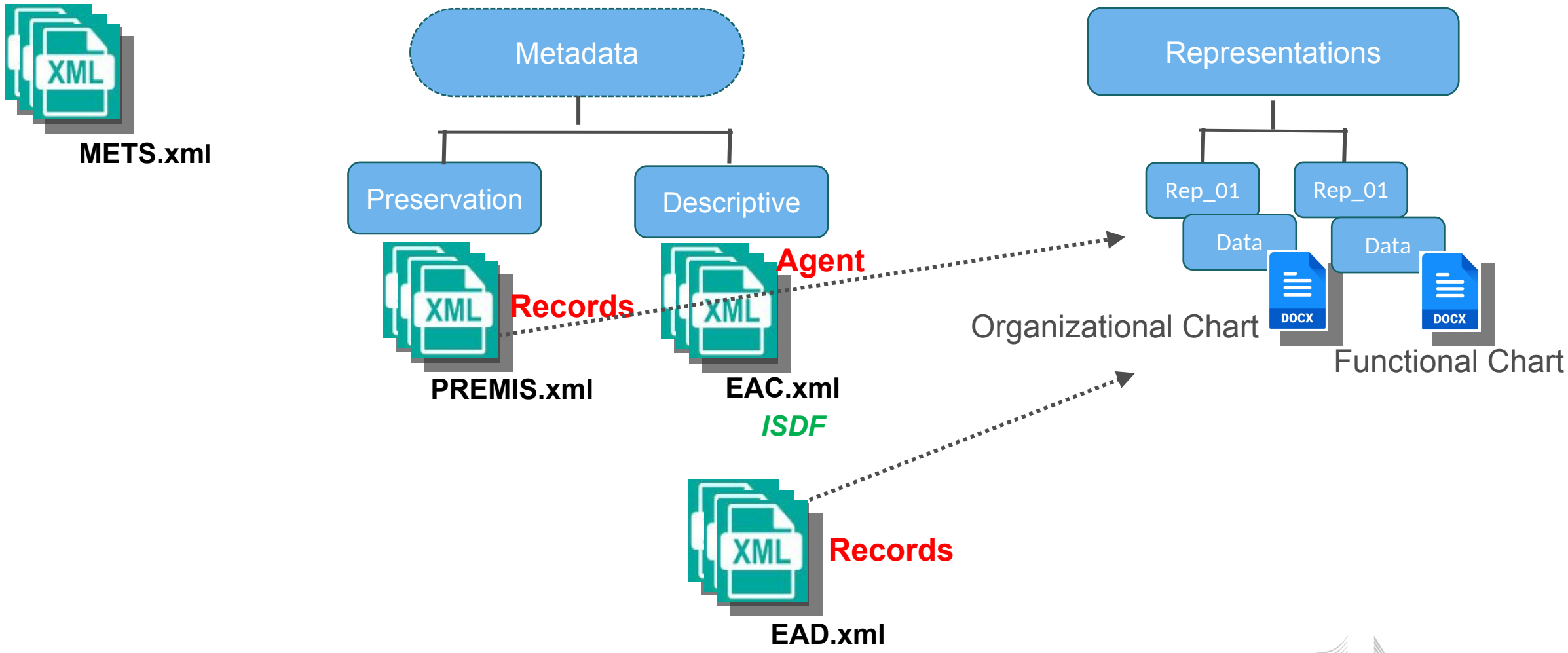
- **Models of the Information Packages**
  - SIP (e.g. Electronic Archival Serie; Electronic Files – simple or structured into sub-files)
  - AIP (e.g. archival resources; context)
  - DIP (e.g. simple; juridical)

Context AIP: an example

Context AIP: Agents

Model 1: e.g. Producers, Internal/External Submitting Organisations, Creators

ID AIP



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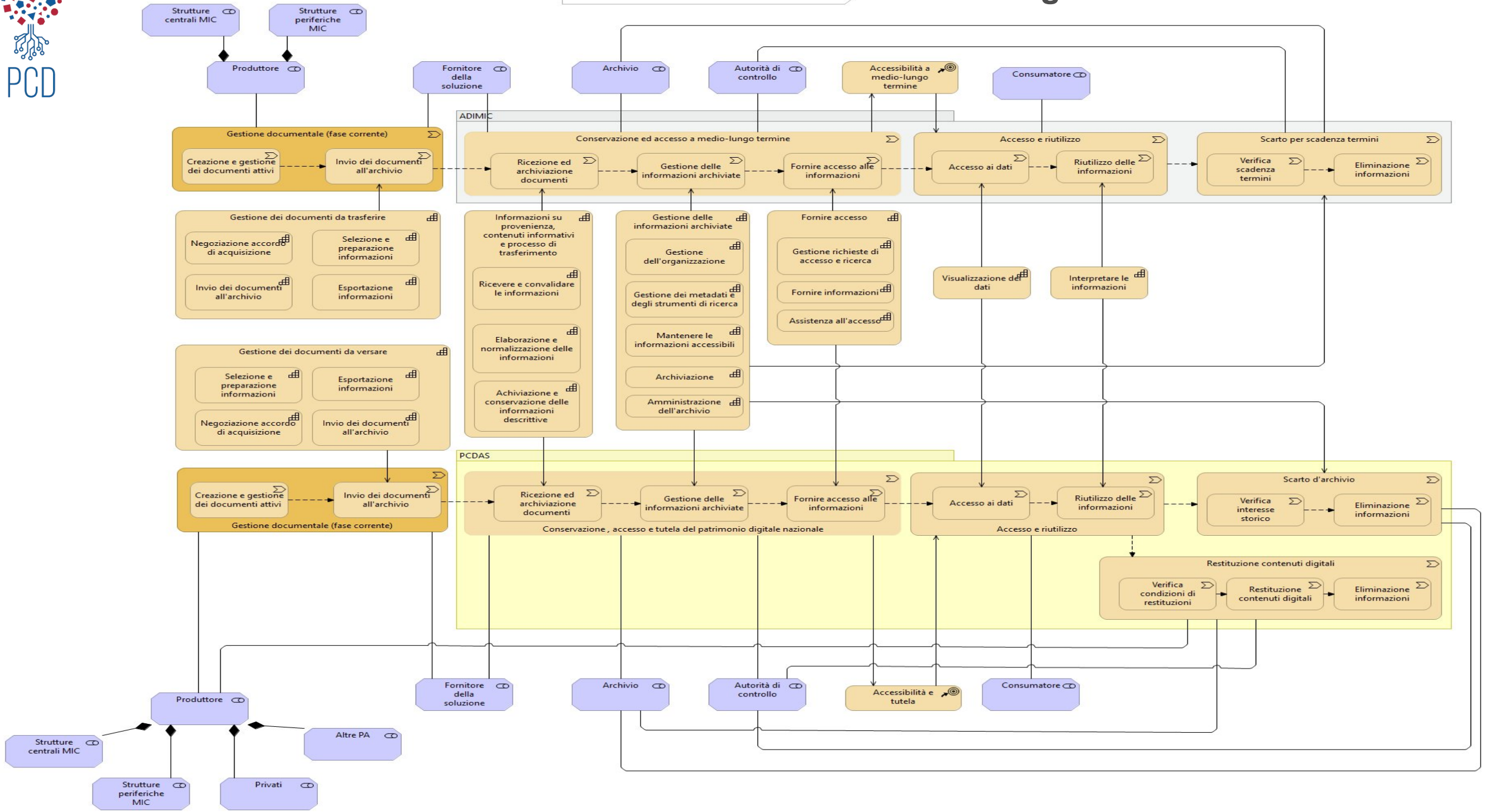
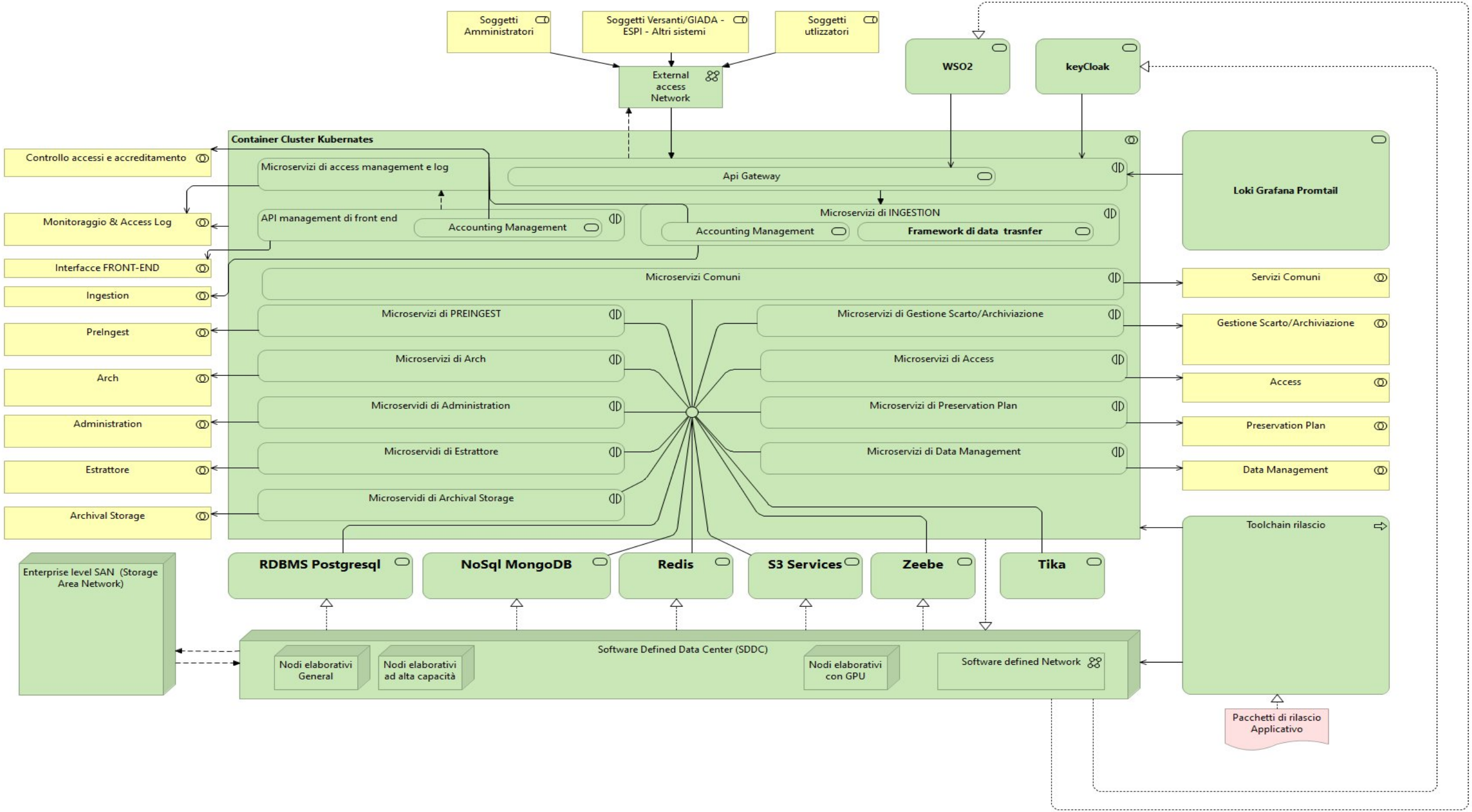
eArchiving Reference Architecture v. 1

Basato sul modello eArchiving




Soggetti Amministratori
Soggetti Versanti/GIADA - ESPI - Altri sistemi
Soggetti utlizzatori
External access Network
WSO2
keyCloak
Container Cluster Kubernates
Controllo accessi e accreditamento
Microservizi di access management e log
Api Gateway
Loki Grafana Promtail
Monitoraggio & Access Log
API management di front end
Accounting Management
Microservizi di INGESTION
Accounting Management
Framework di data trasnfer
Interfacce FRONT-END
Ingestion
Microservizi Comuni
Servizi Comuni
Microservizi di PREINGEST
Microservizi di Gestione Scarto/Archiviazione
PreIngest
Gestione Scarto/Archiviazione
Microservizi di Arch
Microservizi di Access
Arch
Access
Microservidi di Administration
Microservizi di Preservation Plan
Administration
Preservation Plan
Microservidi di Estrattore
Microservizi di Data Management
Estrattore
Data Management
Microservidi di Archival Storage
Archival Storage
Toolchain rilascio
RDBMS Postgresql
NoSql MongoDB
Redis
S3 Services
Zeebe
Tika
Enterprise level SAN (Storage Area Network)
Software Defined Data Center (SDDC)
Nodi elaborativi General
Nodi elaborativi ad alta capacità
Nodi elaborativi con GPU
Software defined Network
Pacchetti di rilascio Applicativo

Opening round

Presentation of experiences with implementing E-ARK products (specifications, software tools, reference architecture) in national environment.

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Second round

Given the eArchiving initiatives serve a wider audience beyond national archives, how can future developments ensure accessibility and usability for all archiving service providers?

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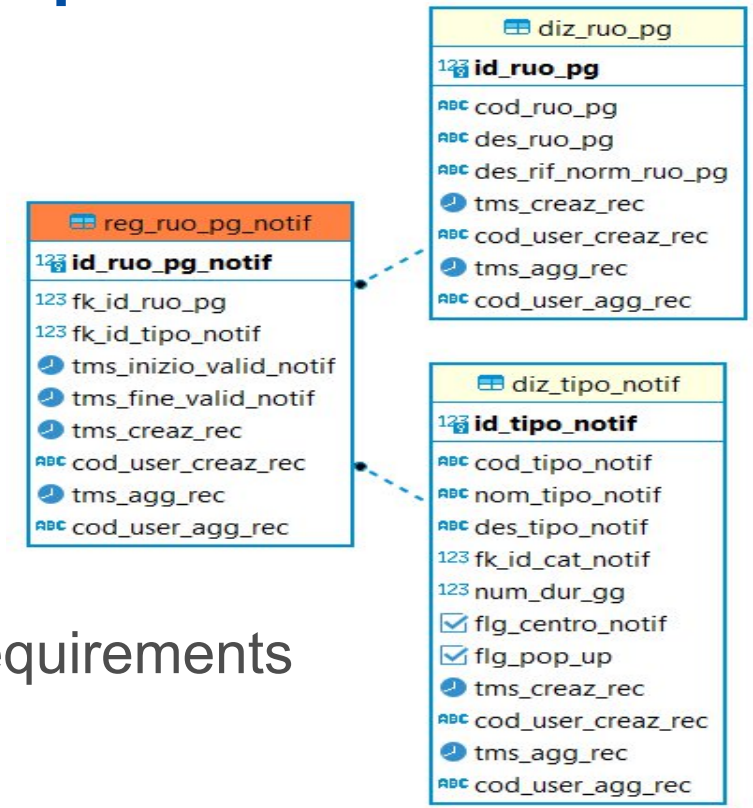
The E-ARK/eArchiving products: other public and private archives

- Focus on the long-term archival digital preservation not on the juridical profiles «Agents»

- Can be used in a selective way without compromising the value and the value and quality of the E-ARK Model

The E-ARK/eArchiving: the development of new solutions and services

- periodical meetings to discuss a specific critical points
  - metadata for Agents, Events and Objects (logical and physical)
  - disposal and destruction digital archives
  - manage «lifecycle» AIPs
- Access Service (e.g. the Digital Asset Management-DAM requirements and the Digital Library Model) and Virtual Reference Service



Second round

Given the eArchiving initiatives serve a wider audience beyond national archives, how can future developments ensure accessibility and usability for all archiving service providers?

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Third round

Your Questions Are Welcome!

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Thank you

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