APA RSEN

**Alliance Permanent Access to the
Records of Science in Europe Network**

Sharing the effort… a personal view on D3.4

Holger Brocks, hbrocks@ftk.de

FTK – Research Institute for Telecommunication and Cooperation

DCH-RP e-Infrastructure Concertation Workshop,
Tallinn, April 23-24 2014

Co-ordinated by

Science & Technology
Facilities Council

What is APARSEN?

- A Network of Excellence in digital preservation
- Funded by European Commission
    - 7th Framework Programme — Digital Libraries and Digital Preservation
- January 2011 to December 2014 (4 years)
- Coordinated by Science and Technology Facilities Council (UK)
- 31 renowned partners from 13 countries (10 EU countries + Israel, Russia, Switzerland)

FTK
Forschungsinstitut
für Telekommunikation
und Kooperation

Network of Excellence
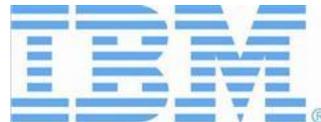
FTK –
A Research Institute of FernUniversität in Hagen ...

... located in the
Technology Park
Dortmund

...

active for nearly
10 years in RTD in
Digital Preservation.

Sharing the effort… a personal view on D3.4
Holger Brocks, FTK
DCH-RP e-Infrastructure Concertation Workshop,
Tallinn, April 23-24 2014

Personal Background

DigitalPreservationEurope, nestor, PARSE.Insight, SHAMAN, EMTO, EFG, SCIDIP-ES… and APARSEN … + SMART VORTEX, CAPP-4-SMEs

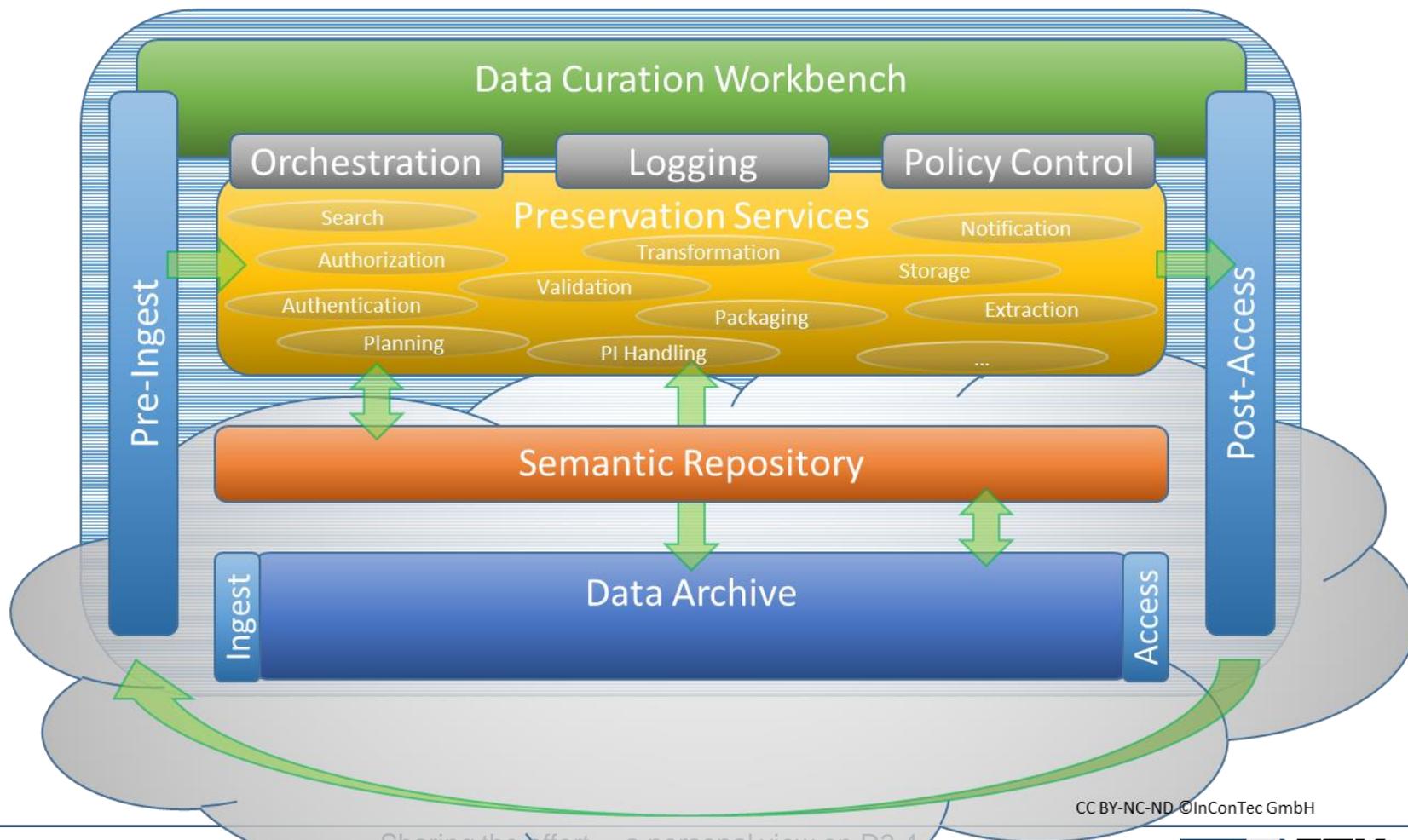- Information system perspective on Digital Preservation
  - Service orchestration, virtualization of resources… policy management and enforcement
  - Enterprise architecture

- Focus on application of semantic technologies
  - Long-term semantic interoperability
  - Open standards, models, and protocols

Sharing the effort… a personal view on D3.4
Holger Brocks, FTK
DCH-RP e-Infrastructure Concertation Workshop,
Tallinn, April 23-24 2014

FTK
Forschungsinstitut
für Telekommunikation
und Kooperation

Long-term Semantic Interoperability Environment

CC BY-NC-ND ©InConTec GmbH

Sharing the effort… a personal view on D3.4
Holger Brocks, FTK
DCH-RP e-Infrastructure Concertation Workshop,
Tallinn, April 23-24 2014

APARSEN Common Vision

- **APARSEN topic areas**
  - **Trust** (Authenticity, Provenance, Data quality, Audit and certification, Appraisal/selection criteria, …)
  - **Sustainability** (Brokerage services, Business cases, Cost/benefit analyses, Storage solutions, Transfer of custody, Risk management/threats, Processes, …)
  - **Usability** (File formats, Context/semantics, Intelligibility, Interoperability, Common tools, Preservation planning, Infrastructure, …)
  - **Access** (Persistent identifiers, Policies and governance, IPR/access rights, Finding aids/metadata, …)

- **Roadmap components**
  - Harmonization of data storage and preservation
  - Improved interoperability
  - Establishment of conditions for cross-sector integration
  - Governance models for infrastructure integration

FTK Forschungsinstitut für Telekommunikation und Kooperation

aparsen.eu   #APARSEN

Initial Impressions

- Condensed version very helpful
- Areas non-orthogonal
- Communities: digital cultural heritage, e-science (Arts and Humanities?)
- Stakeholder types addressed?
- Working practices and community consultations?
- Methodology for eliciting gaps?
- Refinement procedure for roadmap?

Sharing the effort… a personal view on D3.4
Holger Brocks, FTK
DCH-RP e-Infrastructure Concertation Workshop,
Tallinn, April 23-24 2014

aparsen.eu   #APARSEN

Harmonization of data storage and preservation

- Bit-stream preservation "under control"
- High-level preservation policies vs. SLAs?
- Embed preservation functions in (existing) VREs?
- Authentication, authorization, … and accounting?
- Procedure for consolidation of requirements?

FTK
Forschungsinstitut
für Telekommunikation
und Kooperation

Improved interoperability

- Pragmatic focus on technical, semantic aspects
- Addressing change, evolution?
- Agreement on community-specific terminology realistic?
- Role of (open) standards, coverage, adoption (D3.2?)?

…

Sharing the effort… a personal view on D3.4
Holger Brocks, FTK
DCH-RP e-Infrastructure Concertation Workshop,
Tallinn, April 23-24 2014

Establishment of conditions for cross-sector integration

…

- Focus on grid, cloud computing?
- Level of adoption in target communities?
- Alignment of registry of preservation tools and services with similar initiatives (APARSEN, COPTR, …)
- "Digital preservation requirements" defined by OAIS?

Sharing the effort… a personal view on D3.4
Holger Brocks, FTK
DCH-RP e-Infrastructure Concertation Workshop,
Tallinn, April 23-24 2014

aparsen.eu   #APARSEN

Governance models for infrastructure integration

- Alignment with similar initiatives related to business models, cost models (APARSEN, 4C, …)

- Framework based on Enterprise Architecture models (TOGAF, Zachman, …)?

- Trust based on evidence, not restricted to repository level

- Digital object/data lifecycles, OAIS environment?

- Role of (legal) mandates, constraints?

Conclusions

Interoperability with the future

- Sharing efforts… federated infrastructure
- Acknowledge legacy… add preservation functions
- Looking beyond archive borders… lifecycle management
- Trust is evidence-based… Proof-of-Concepts
- Sustainability… requires funding *"Who pays and why…?"*

Grand challenges located at governance/policy level!

Next steps towards final roadmap??

FTK
Forschungsinstitut
für Telekommunikation
und Kooperation