Digital Preservation Sustainability on the EU Policy Level

Elevator Pitches

ALEXANDRIA

Foundations for Temporal Retrieval, Exploration and Analytics in Web Archives

Motivation

- Optimal access to Web archives taking into account
  - the temporal dimension of Web archives
  - structured semantic information available on the Web
  - social media and network information

Objectives

- Evolution-Aware Entity-Based Enrichment and Indexing
- Aggregating Social Networks and Streams
- Temporal Retrieval and Ranking
- Collaborative Exploration and Analytics

Testbeds

- Temporal Wikipedia
- Academic Web Archive
- Politics on the Web

APARSEN Elevator Pitch

The challenge: We love models!

The solution: Another model?

Provenance model

Cost model

Business model

Policy models

Lifecycle model

OAIS model

Knowledge models

Virtualisation model

Workshop: Digital Preservation Sustainability on the EU Level
Simon Lambert, STFC
TPDL Conference Workshop, September 2014

Digital Cultural Heritage: Roadmap for Preservation
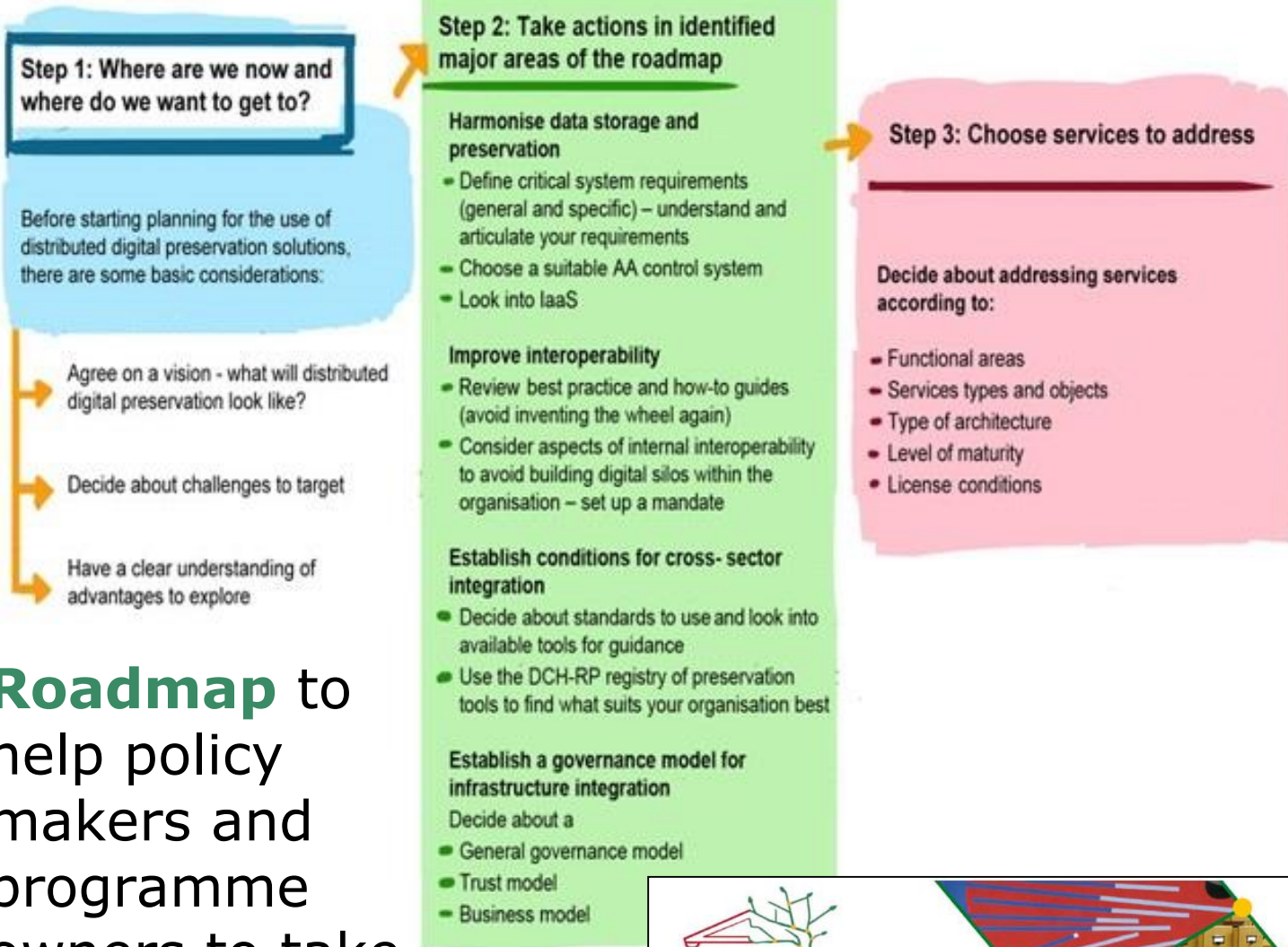
Roadmap to help policy makers and programme owners to take decisions related to digital preservation and to support CH institutions in defining practical action plan with a realistic time frame for its implementation

Registry with information, assessments and reviews about the tools that may be used to implement common user scenarios

Proofs of Concept where CH institutions experiment the use of distributed computing and storage infrastructures, services and tools to store and manage cultural digital resources

DigitalPreservationCoalition

At a Glance

- Not-for-profit membership organisation, providing:
  - knowledge exchange
  - capacity building
  - assurance
  - advocacy
  - partnership
- Engagement with DPC members to discern needs
- Distribution of research and development

Advocacy

- Awareness Raising:
  - research data
  - personal archives
  - government archives
  - valuable digital resources held by businesses and institutions
- Promotion of a community of experts and practitioners

Our digital memory accessible tomorrow

Sara Day
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www.dpconline.org

PRESERVATION OF 3D OBJECTS OF BUILDINGS

Durable Architectural Knowledge

Devinder Thapa, Luleå University of Technology

DURAARK
DURABLE
ARCHITECTURAL
KNOWLEDGE

SEVENTH FRAMEWORK
PROGRAMME

The underpinning infrastructure
for European research data

◆ Policy-based ... gue for all
◆ Replication across European data centres.
◆ Safety, accessibility and convenience.
◆ GUI ba... research data.
  and a ... interfac...

◆ ...ose service for easy ...aring of long tail research data.
◆ An open repository for depositing research data.
◆ A collaboration platform for sharing data in a secured way.

◆ A personal cloud storage solution based in the trusted CDI domain.
◆ Store and share datasets in the early stages of the research data life cycle.
◆ Interoperable with other cloud storage environments.
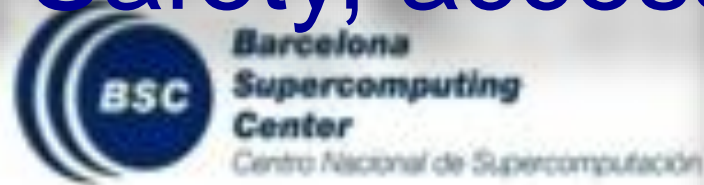
◆ APIs to customise a... flow to and from the ...
◆ An HTTP interface fo... and persistent identi...
◆ A GridFTP interface ... performance data transfer.

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

JÜLICH
FORSCHUNGSZENTRUM

CINECA

IPP

POZNAN

Max Planck Institute for Psycholinguistics

...ve Data Infrastructure

Forgetting and remembering in the Digital Age

- Capturing of life situations: easy, cheap, popul
  possible everywhere

→ photos and videos for various events a
situations in life

- Digital content such as emails are created for
  professional and
  private purposes on daily basis

- Large amounts of photos, ideas, daily information,
  videos, etc. shared in Social Networks
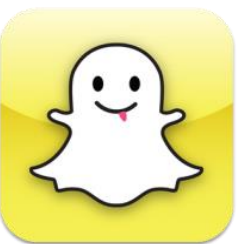
- What will happen to this abundance of content **in the long run**?

in 1 year   5 years   10 years   20 years ...   over generations

Advocates the dominating "keep it all" strategy

What will happen
to the content?
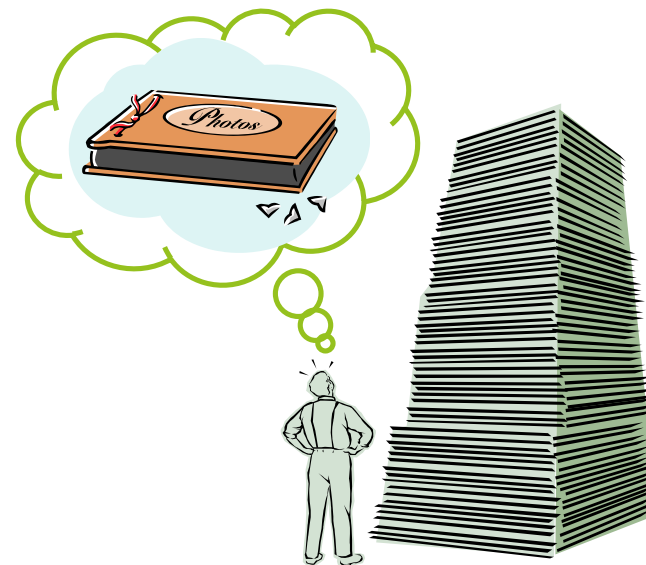
Technological developoment

Do you still remember?

Information overload:
What to remember?

Who was this guy ...?

Do you want to remember?

... and would you like future employers to see?

9

Alternative:
Really keep the **important** things and keep them
understandable and **useful**

Open Planets Foundation

connecting digital preservation expertise

British Library
Österreichische Nationalbibliothek
KB Koninklijke Bibliotheek / Nationale bibliotheek van Nederland
STATSBIBLIOTEKET
BnF Bibliothèque nationale de France
THE ROYAL LIBRARY — NATIONAL LIBRARY OF DENMARK AND COPENHAGEN UNIVERSITY LIBRARY
GOPORTIS
National Archives of the Netherlands — Ministry of Education, Culture and Science
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY
JISC
RAHVUSARHIIV — THE NATIONAL ARCHIVES OF ESTONIA
STATENS ARKIVER — RIGSARKIVET
Microsoft Research
PORTICO
UNI FREIBURG
UNC SCHOOL OF INFORMATION AND LIBRARY SCIENCE
PSNC

Events
- hackathons
- webinars
- training

Case studies
Best practices
Policy catalogue
Business cases

Services
- tools registry
- peer review
- Q&A

Technology

Knowledge

Software stewardship
- sustainability + maturity
- efficiency + consistency
- collaboration + trust

Advocacy Alliances

Memory Institutions
Open Planets Foundation
Research & Development
Service Providers

Community
- project sustainability
- collaborative development

planets
DigitalPreservationCoalition
SCAPE
AQuA
impact digitisation.eu centre of competence
SPRUCE

Research and Service Support

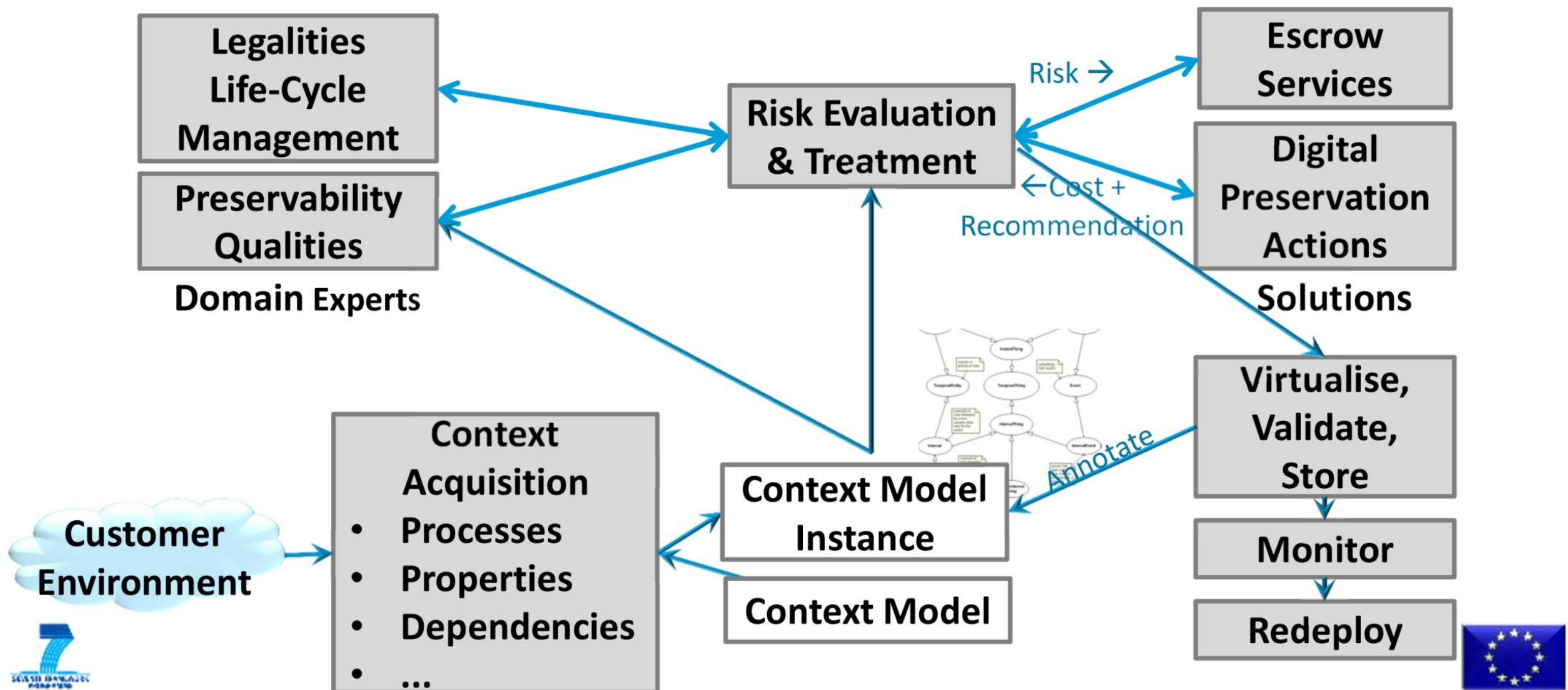| Task	Deliverables
EO Research Support (Algorithm development)	**Processing resources, datasets, algorithm integration/wrapper, output data, mosaicking, toolboxes, user support**
Value added data production	**On-demand production, systematic production, re-processing campaigns, data delivery**
Testbeds support	**Requirements definition support, testbed design, testbed implementation, user support**
EO Services Support (Value added services)	**Service Support Environment operations, service providers support, users support, products delivery**
E-collaboration support	**Join&Share area operations (Wiki, Forums, Blog)**
OGC services	**WMS, WFS, WFS-T, WCS operations**
Technology development Support	**Requirements definition support, Project reviews support, applications validation, TTO**
Communication support	**RSS Portal/J&S operations, Virtual Reality Theatre shows, Demo Room presentations**

Files → Data

Files → Representation Information

Representation Information → Data

Representation Information → Software

Representation Information → Hardware

Software → Services

Hardware → Services

Services → Processes
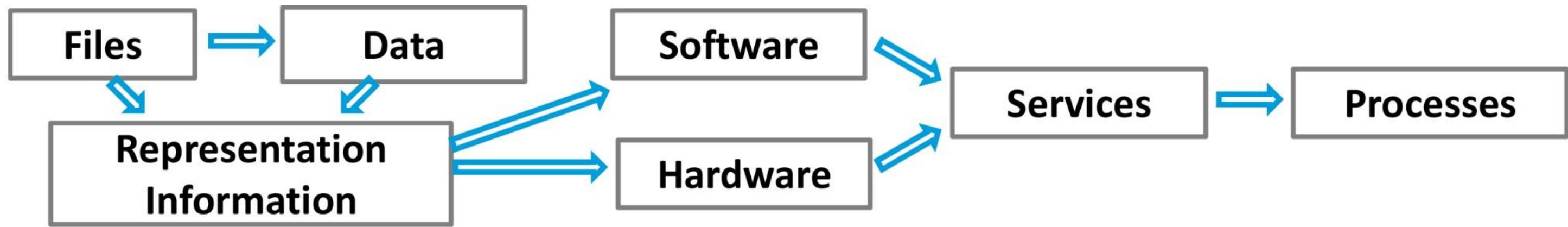
Timeless Business Processes and Services

TIMBUS

TIMELESS BUSINESS

Angela Dappert, DL 2014

Legalities Life-Cycle Management

Preservability Qualities

Domain Experts

Risk Evaluation & Treatment

Risk →

← Cost + Recommendation

Escrow Services

Digital Preservation Actions

Solutions

Virtualise, Validate, Store

Monitor

Redeploy

Customer Environment

Context Acquisition
- Processes
- Properties
- Dependencies
- ...

Context Model Instance

Context Model

Annotate
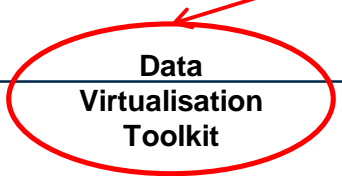
Preservation – because things change and so….

- we need to:

  – Know something has changed

  – Understand the implications of that change

  – Decide on the best course of action for preservation

  – What RepInfo we need to fill the gaps

    ▪ Created by someone else or creating a new one

  – If transformed: how to maintain data authenticity

  – Alternatively: hand it over to another repository

  – Make sure data remains usable

| Orchestration Service |
| Gap Identification Service |
| Preservation Strategy Tk |
| RepInfo Registry Service |
| RepInfo Toolkit |
| Authenticity Toolkit |
| Packaging Service |

RepInfo Toolkit

Data Virtualisation Toolkit — Process Virtualisation Toolkit

SCIDIP-ES

Science Data E-Infrastructure for Preservation **www.scidip-es.eu**

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David Giaretta, APA and STFC
TPDL Conference Workshop, September 2014