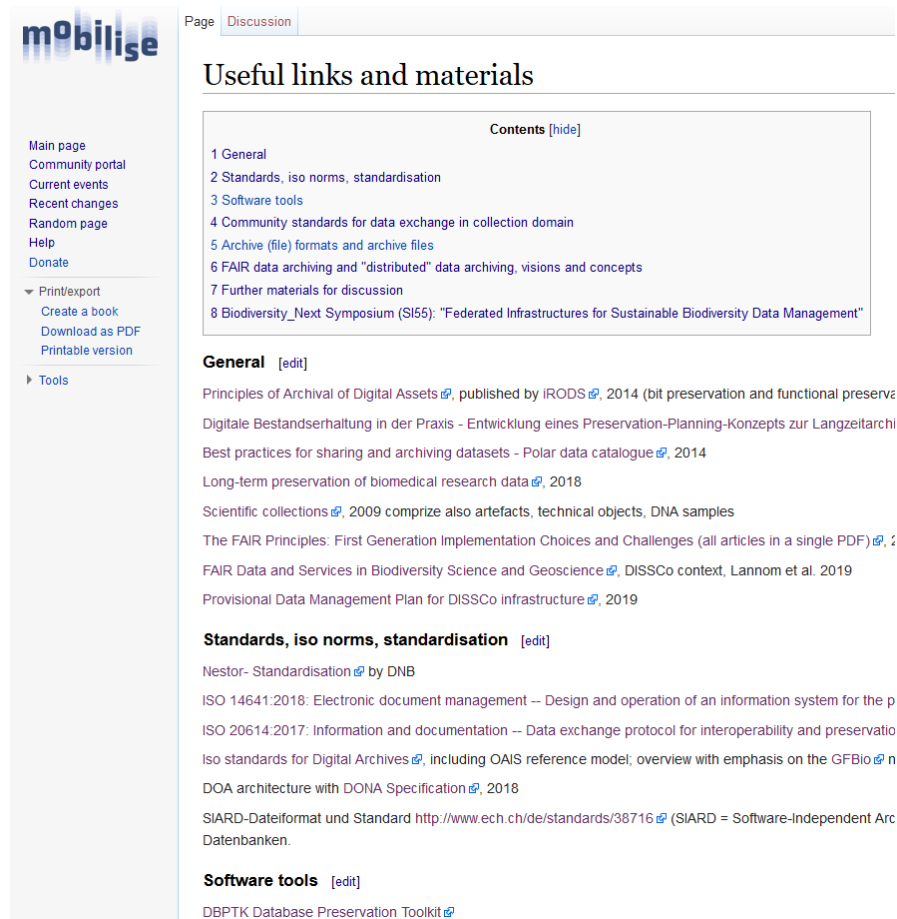


Materials for discussion on digital objects and functional long-term preservation and archiving

Most of the illustrations in the following slides are referenced and linked under:

- https://costmobilise.biowikifarm.net/wiki/Useful_links_and_materials



The screenshot shows a Wiki page titled "Useful links and materials" on the mobilise platform. The page includes a navigation menu on the left with options like "Main page", "Community portal", and "Print/export". The main content area features a "Contents" table of contents with 8 numbered items, followed by sections for "General", "Standards, iso norms, standardisation", and "Software tools".

Contents [hide]

- 1 General
- 2 Standards, iso norms, standardisation
- 3 Software tools
- 4 Community standards for data exchange in collection domain
- 5 Archive (file) formats and archive files
- 6 FAIR data archiving and "distributed" data archiving, visions and concepts
- 7 Further materials for discussion
- 8 Biodiversity_Next Symposium (SI55): "Federated Infrastructures for Sustainable Biodiversity Data Management"

General [edit]

Principles of Archival of Digital Assets [↗](#), published by iRODS [↗](#), 2014 (bit preservation and functional preserve)
 Digitale Bestandserhaltung in der Praxis - Entwicklung eines Preservation-Planning-Konzepts zur Langzeitarchi
 Best practices for sharing and archiving datasets - Polar data catalogue [↗](#), 2014
 Long-term preservation of biomedical research data [↗](#), 2018
 Scientific collections [↗](#), 2009 comprize also artefacts, technical objects, DNA samples
 The FAIR Principles: First Generation Implementation Choices and Challenges (all articles in a single PDF) [↗](#), 2
 FAIR Data and Services in Biodiversity Science and Geoscience [↗](#), DISSCo context, Lannom et al. 2019
 Provisional Data Management Plan for DISSCo infrastructure [↗](#), 2019

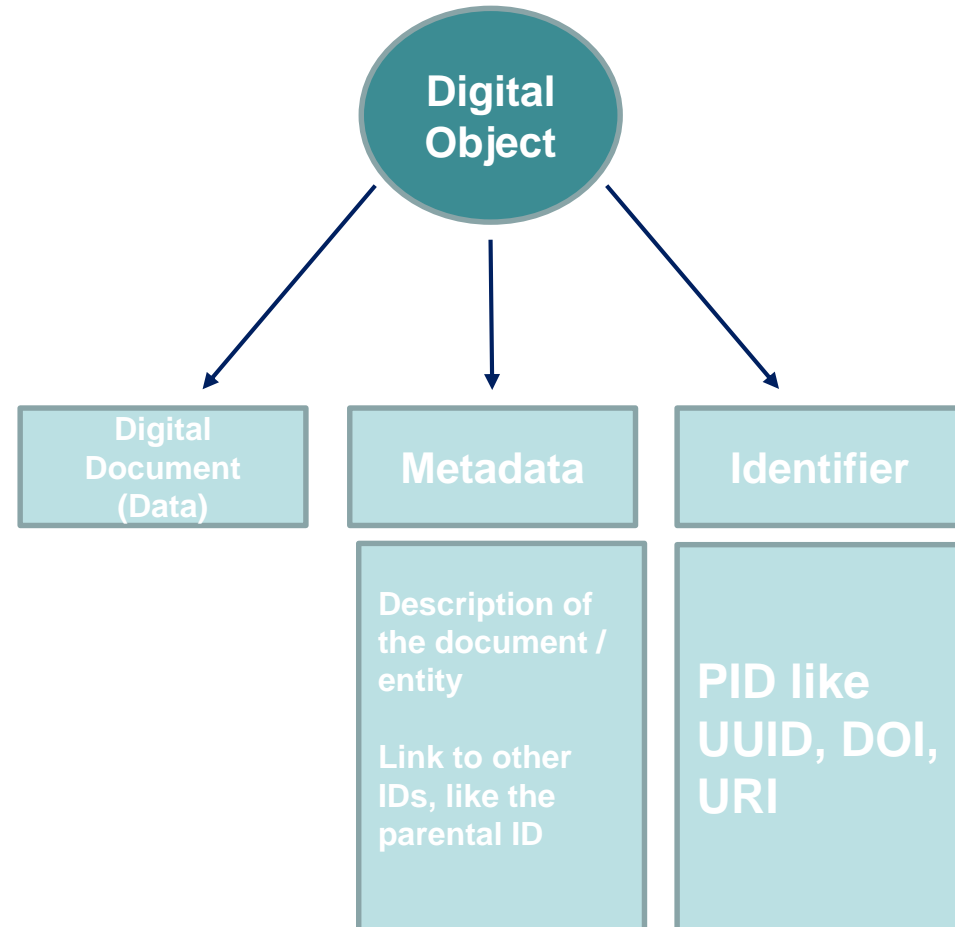
Standards, iso norms, standardisation [edit]

Nestor- Standardisation [↗](#) by DNB
 ISO 14641:2018: Electronic document management – Design and operation of an information system for the p
 ISO 20614:2017: Information and documentation – Data exchange protocol for interoperability and preservatio
 Iso standards for Digital Archives [↗](#), including OASIS reference model; overview with emphasis on the GFBio [↗](#) n
 DOA architecture with DONA Specification [↗](#), 2018
 SIARD-Dateiformat und Standard <http://www.ech.ch/de/standards/38716> [↗](#) (SIARD = Software-Independent Arc
 Datenbanken.

Software tools [edit]

DBPTK Database Preservation Toolkit [↗](#)

- Digital Specimen
- Digital Collection



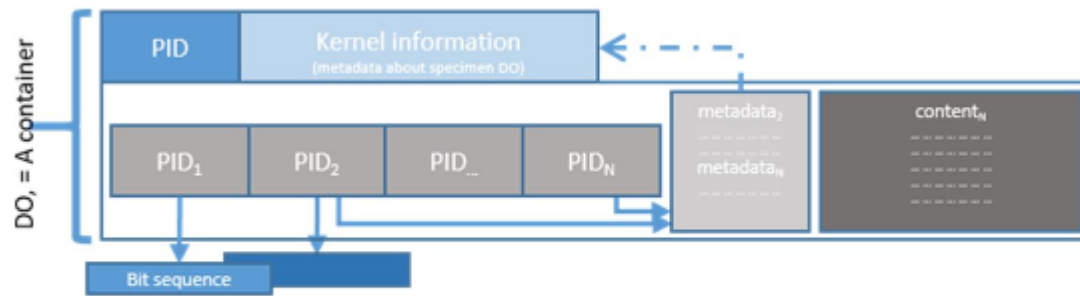
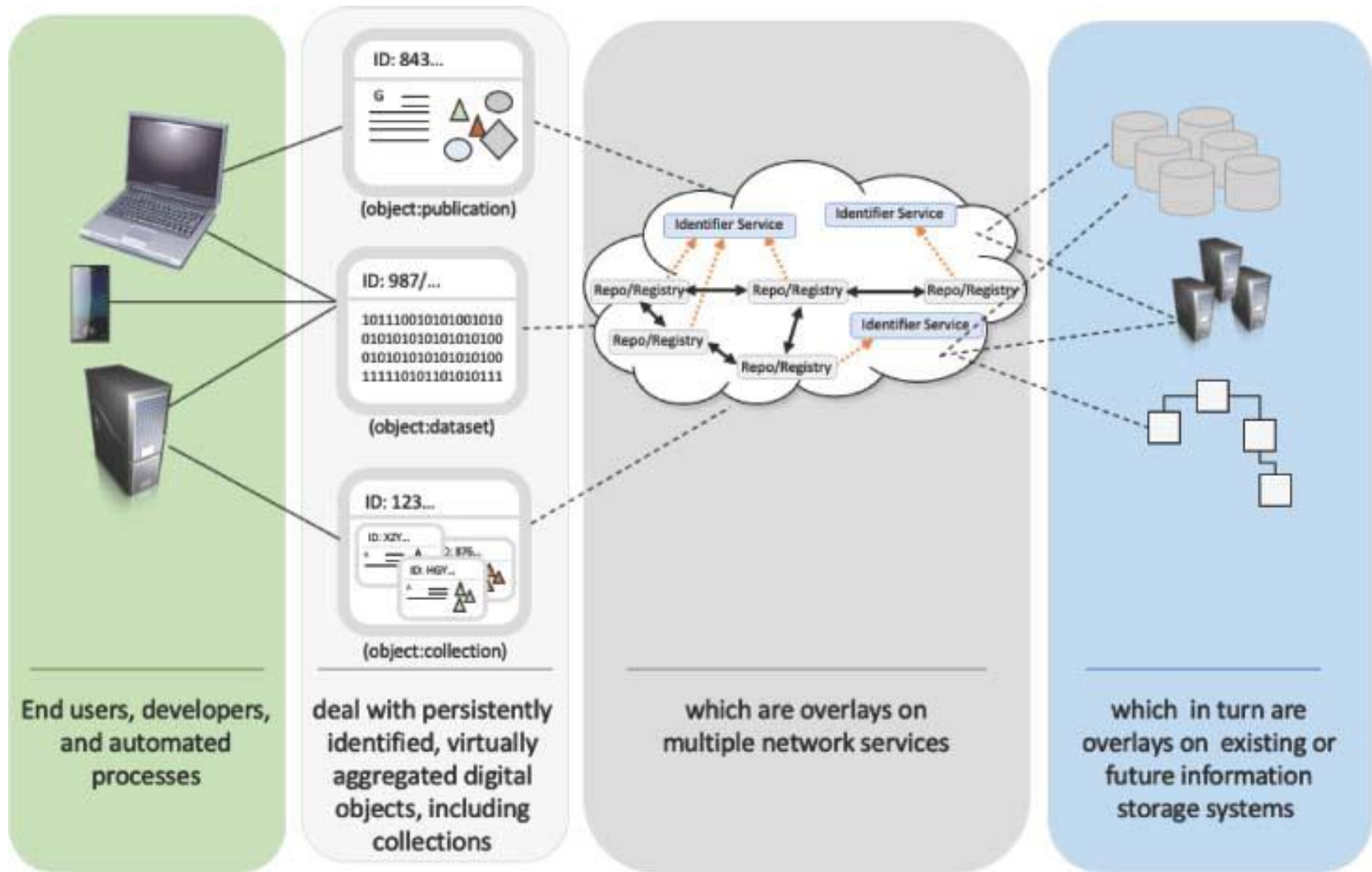
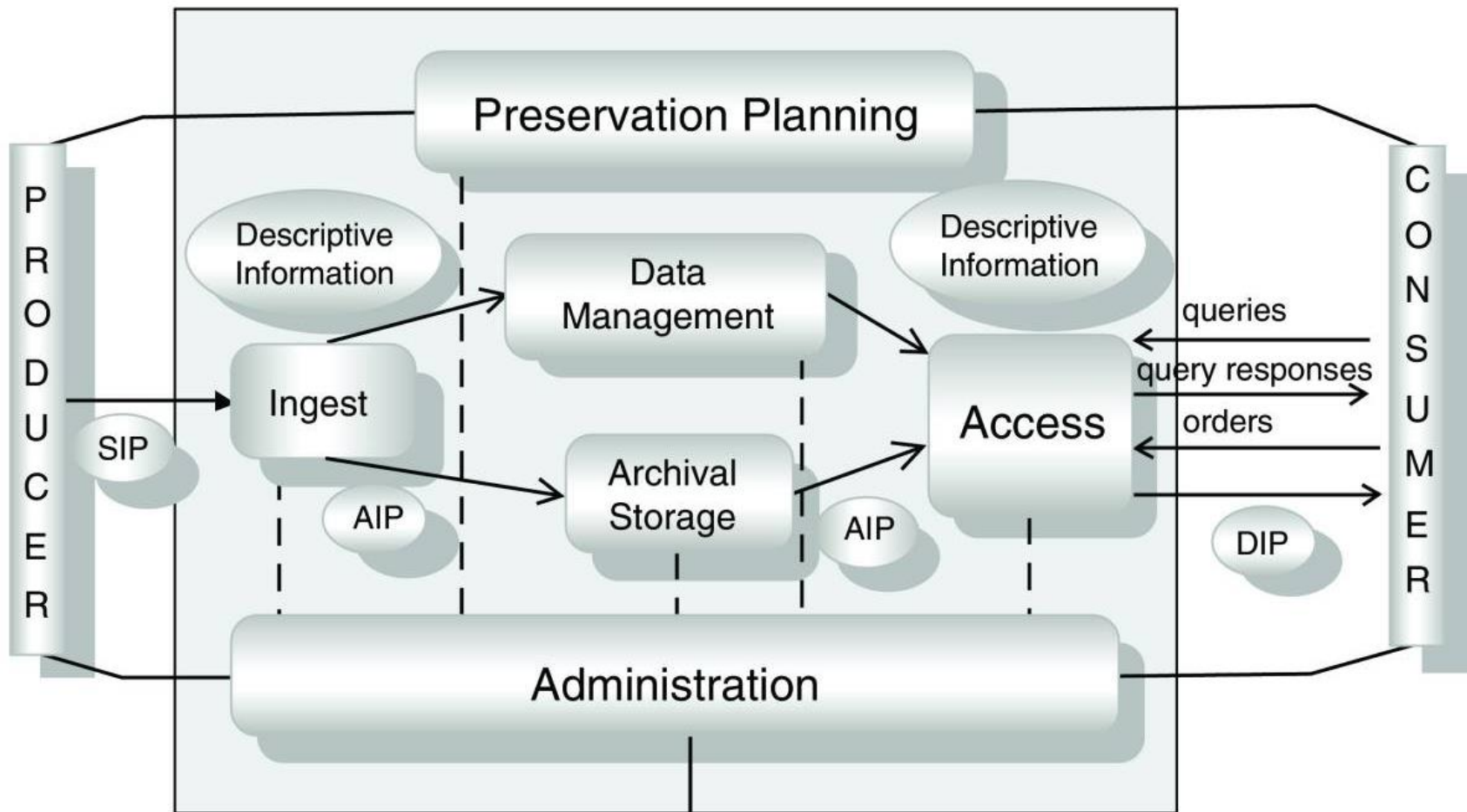


Figure 1. The diagram of a digital specimen. (Hardisty et al., 2019)

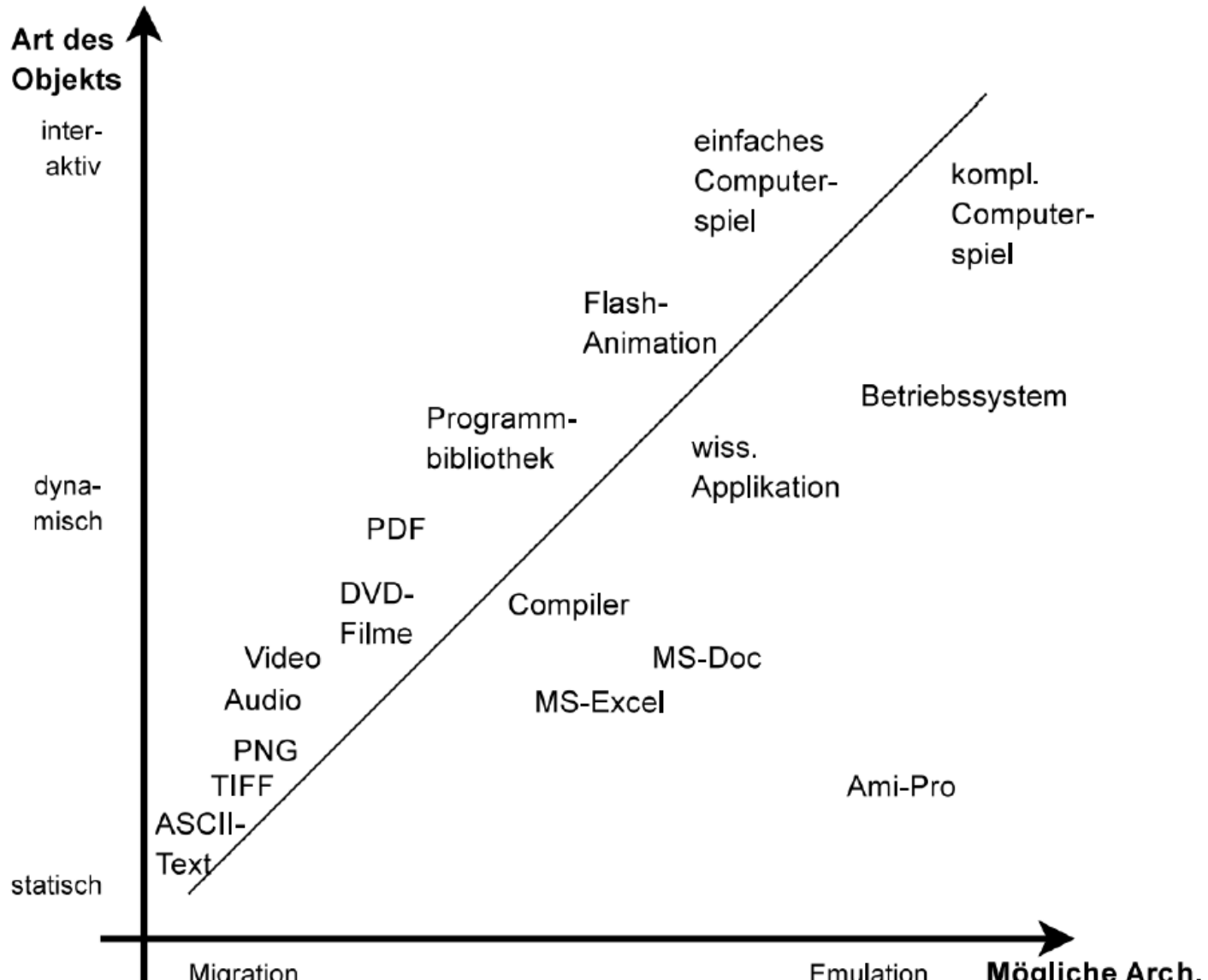


OAIS Reference Model

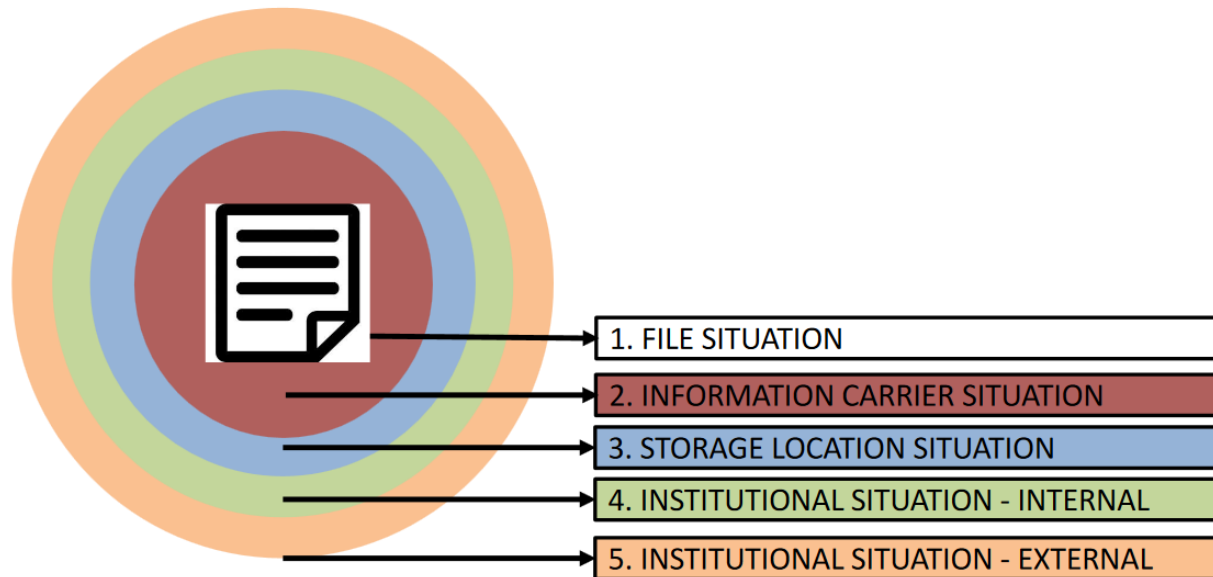


Navale V and McAuliffe M. Long-term preservation of biomedical research data [version 1]. F1000Research 2018, 7:1353 (doi: 10.12688/f1000research.16015.1)

MANAGEMENT

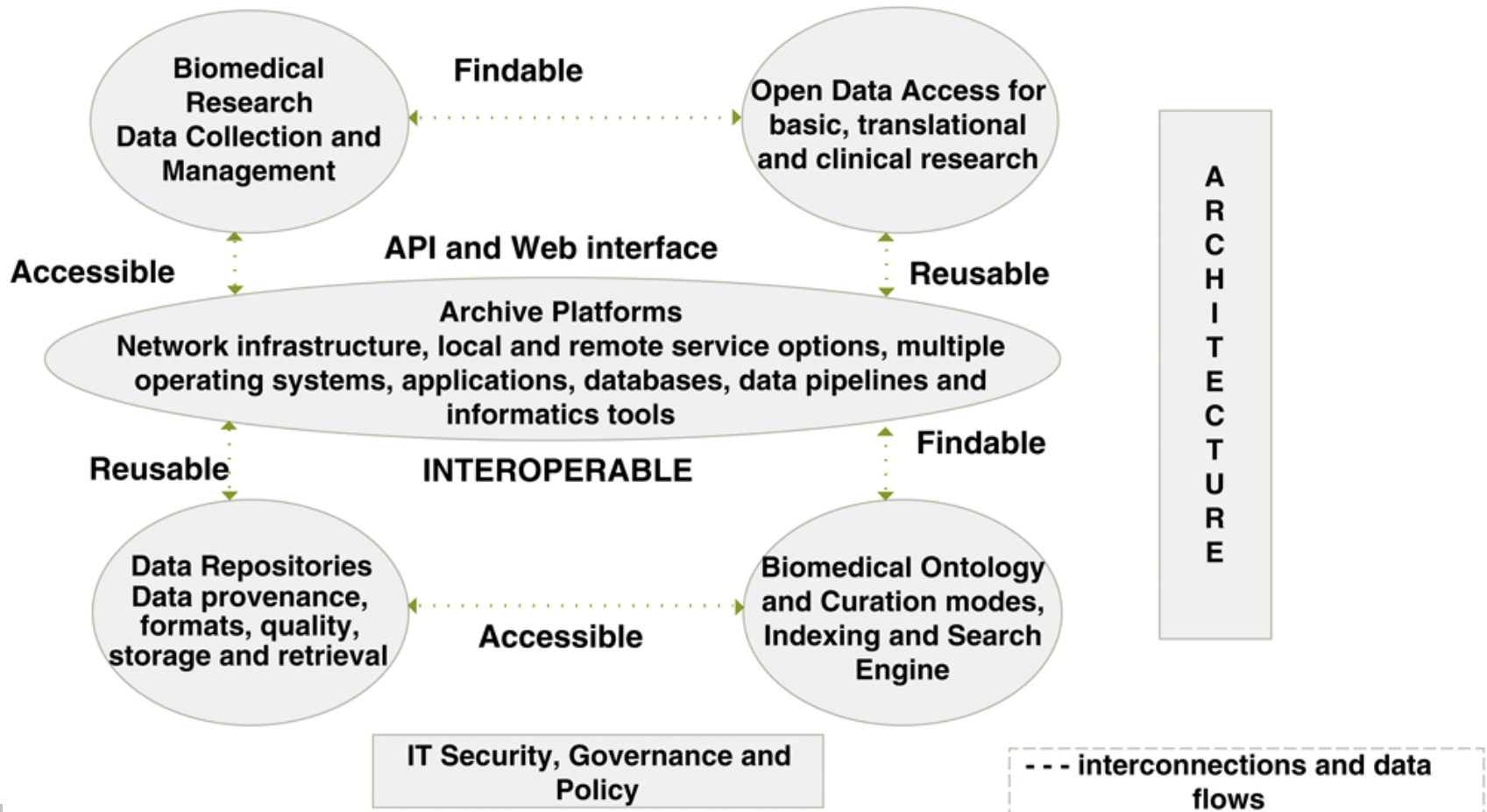


Complexity of Archiving Processes and Factors



A Dynamic Interactive Biomedical Archive for Research Data Life Cycle Management

Navale V and McAuliffe M. Long-term preservation of biomedical research data [version 1]. F1000Research 2018, 7:1353 (doi: 10.12688/f1000research.16015.1)



Archive Principles and Practice:
an introduction to archives for non-archivists

CONTENTS

1. Introduction

- 1.1 What is the purpose of this guidance?
- 1.2 Who is this guidance for?

2. Looking after archives

- 2.1 What are archives?
- 2.2 Major risks
- 2.3 Taking control
- 2.4 Supporting safe access

3. Next Steps in archives

- 3.1 Storage and preservation
- 3.2 Records Management and Archives
- 3.3 Cataloguing and Arrangement
- 3.4 Funding and Sustainability
- 3.5 Benefits from Your Archives
- 3.6 Decisions on long term custody

4. Useful Information

- 4.1 Other published guidance
- 4.2 Audio-Visual Preservation
- 4.3 Specialist advice
- 4.4 Archival networks
- 4.5 Professional Organisations and membership
- 4.6 Training Courses and Professional Development
- 4.7 Useful books

5. Case Studies

- 5.1 Case studies