

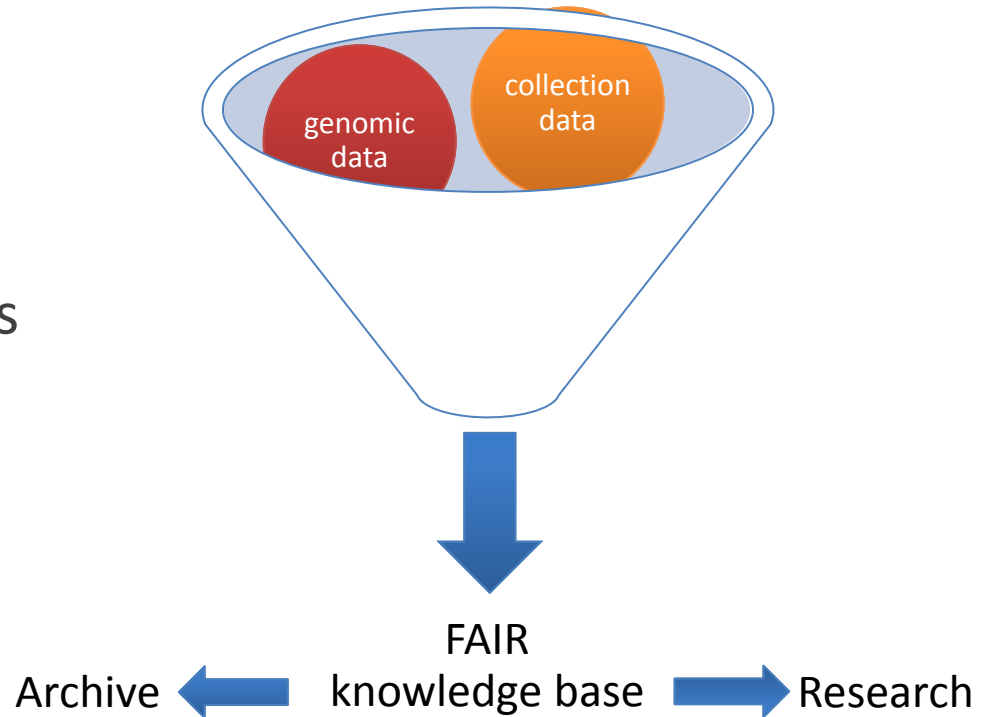
Certification of Repositories with Archiving Processes

Peter Grobe

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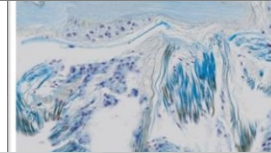
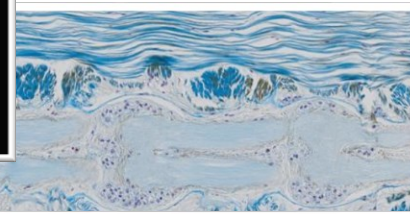
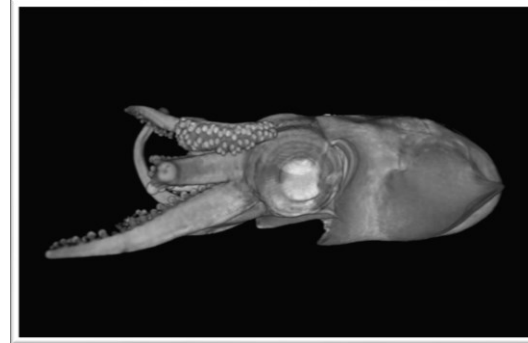
Tasks

- Maintain Infrastructure
- Tools for describing Biodiversity
- Species information systems
- Digitization of Natural History Collections



Trusted Archives - Goal

- Make data a continuous resource
 - Increase the trustworthiness of archives
 - Certify the procedures
- ... for repositories with digital specimen and digital collection data



Where are we?



Institutional
Datasets



Where are we?



Archiving processes

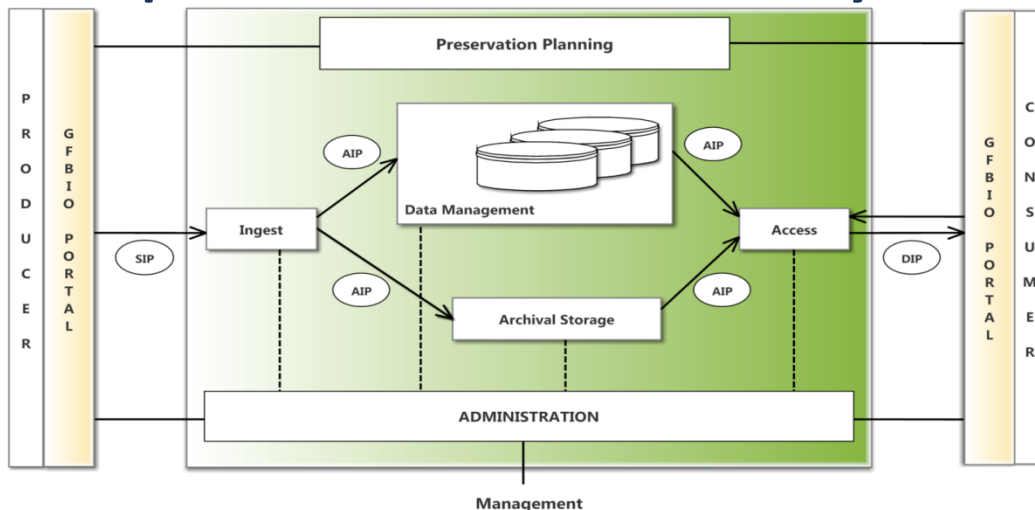


Institutional
Datasets



Archiving Procedure

Open Archival Information System



Functional Entities of GFBio Collection Data Centers/Archives
(The functional entities and major terms are those of the reference model for an Open Archival Information System, OAIS environment)

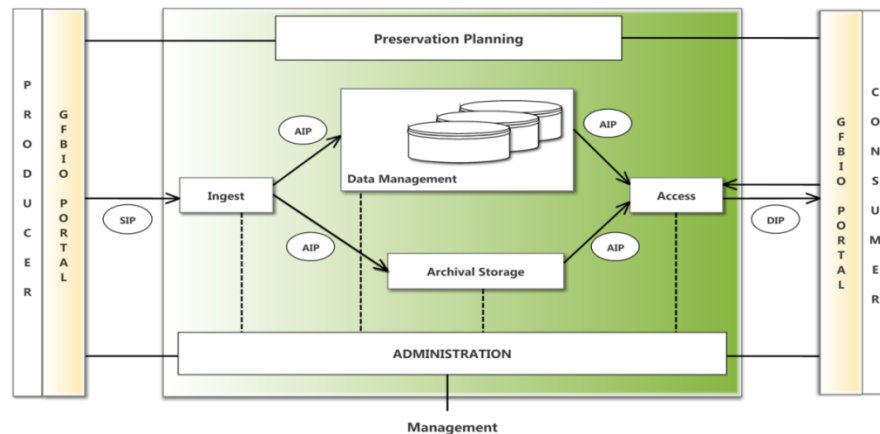
OAIS Reference Model (ISO 14721)

The fundamental standard for digital preservation

SIP (Submission Information Package)
AIP (Archival Information Package)
DIP (Dissemination Information Package)

Pillars of OAIS

- Submission Information Packages (SIP)
- Data Management
- Common Archive Information Packages (AIP)
- Dissemination Packages (DIP) derived from AIP



Functional Entities of GFBio Collection Data Centers/Archives
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SIP (Submission Information Package)
AIP (Archival Information Package)
DIP (Dissemination Information Package)

Certification - Overview

Various certificates
available

nestor 

nestor



ISO16363



CoreTrustSeal



DINI-Certificate 2016

Certification - Overview

Various certificates available



nestor



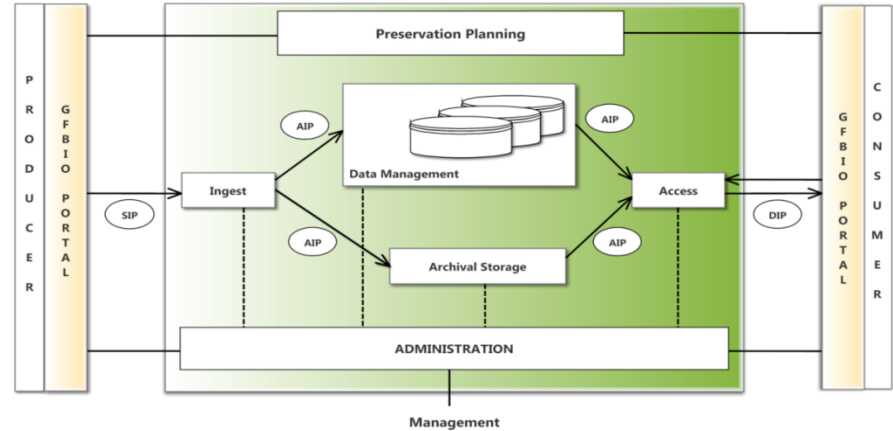
ISO16363



CoreTrustSeal



DINI-Certificate 2016



Functional Entities of GFBio Collection Data Centers/Archives
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SIP (Submission Information Package)
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Core Trust Seal - Conditions

- Documentation of Archiving in 17 requirement documents
- Covers
 - Organisation (resources, finances, etc.)
 - Data handling (authentication, ingest, archiving, etc.)
 - Technical infrastructure of data center (equipment, etc.)
- Membership of 3 years (as reviewer for other institutes)
- Cost: 1,000 €
- No site visit necessary



For Certification One has to Show ...

- is well equipped
 - has sufficient human resources
 - has sufficient financing
 - and know what she/he are doing
- ... and these for at least 3-5 years



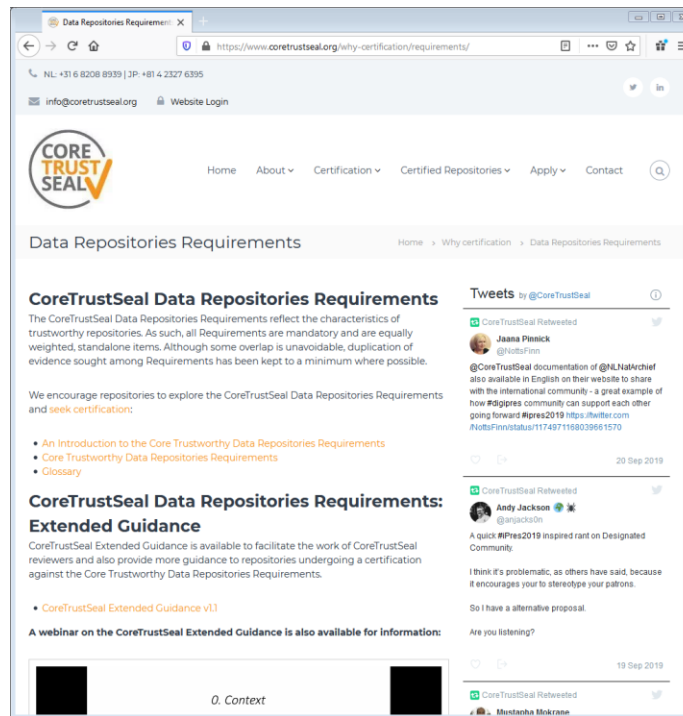
For CoreTrustSeal one has to ...

Register

Answer the 17 requirements

Provide:

- publicly available information (e.g. Wiki)
- about all points





17 Requirements

R0: Repository type, level of curation

R1: Mission/scope

R2: Licenses

R3: Continuity of access

R4: Confidentiality and Ethics

R5: Organizational infrastructure

R6: Expert guidance

R7: Data integrity and authenticity

R8: Appraisal

R9: Documented storage procedures

R10: Preservation plan

R11: Data quality

R12: Workflows

R13: Data discovery and identification

R14: Data reuse

R15: Technical infrastructure

R16: Security

Main Requirement

Data curation, provenance tracking, access to data, etc. is a

joint effort

of everyone involved in data generation, maintenance, and infrastructure provisioning.