

Long-Term Archiving Standards and Best Practices

Sven Bingert

Gesellschaft für wissenschaftliche
Datenverarbeitung Göttingen (GWDDG)

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Georg-August-Universität Göttingen

- 200 institutes und 13 faculties
- Staff members: 14.000
- Researchers: 3.000, professors: 400
- Students: 34.000

University Medical Center (UMG)

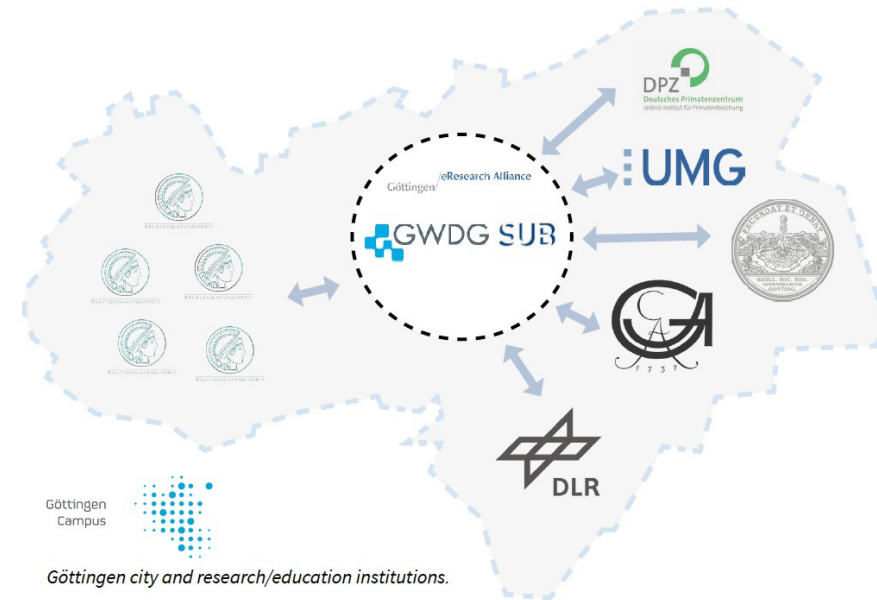
- 7.000 staff members

Göttingen Campus Partners

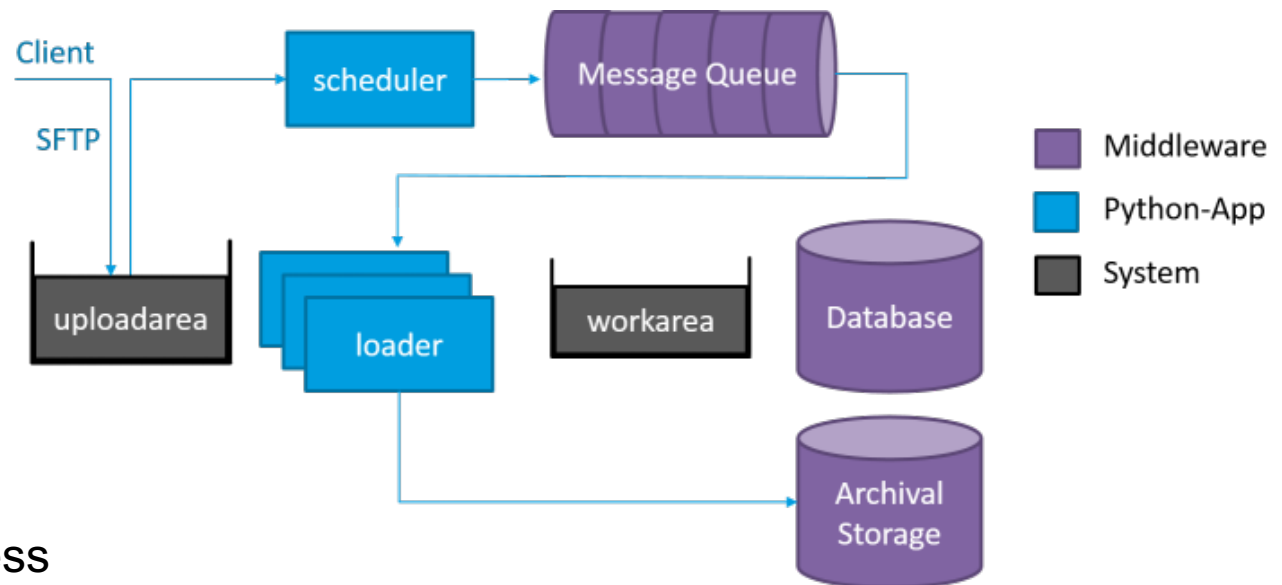
- 5 Max Planck Institutes, Leibniz Institute DPZ, DLR, Academy of Sciences and Humanities, ...

Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen

- Data and IT Center for Göttingen University and the Max Planck Society
- IT-Services for over 80.000 users



- Cooperation with German National Library (www.dnb.de)
- GWDG part: software development for long term archiving
- KOALA:
 - Open Source
 - refers to OAIS
- Complete solution certified with
 - Data Seal of Approval
 - Nestor Siegel für vertrauenswürdige Digitale Archive: based on DIN 31644



Ingest Process

- OAIS: yes important, but how to continue
- Metadata (technical and contextual) are required, the more the better
 - automated aggregation of metadata still a big issue
 - metadata Quality is the hot topic
 - Machine Learning/AI for testing and identifying gaps
 - being aware of semantic drift of metadata
 - but also technology changes forcing migration of metadata to new formats
- Certification of an implementation can help, but do they include long term archiving (LTA)?
 - are certifications too much focused on the implementation

Yet another collection of references to standards or communities?

Identifying the gaps:

- Standards
- Processes
- Technologies
- Interfaces

and combine those to make LTA working.

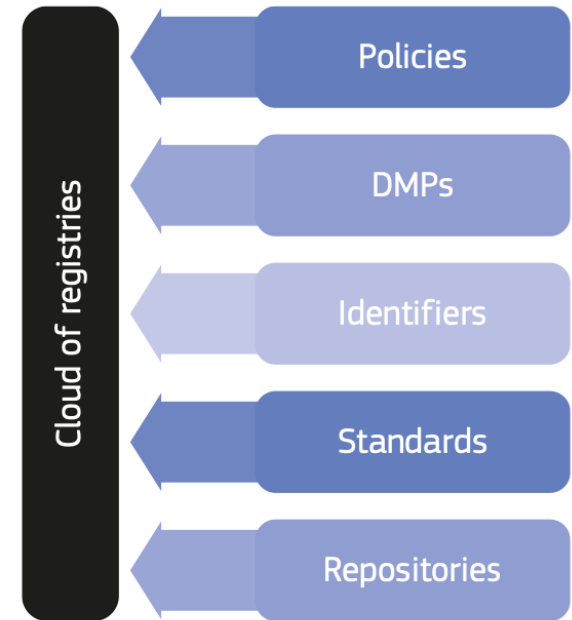


Figure 6. The components of a FAIR ecosystem

Turning fair into reality doi: [10.27777/1524](https://doi.org/10.27777/1524)

How much is or has to be a solution community specific?

What is specific for digital specimen collections?

For the guideline always keep in mind:

- WHO
- WHERE
- WHEN
- WHY

Thank you

Looking forward to fruitful discussion and success drafting