From synchronisation to curation

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Before I start…

- Still in conceptualisation phase
- Input/ideas very welcome
What we have

- **data.deic.dk** - national (Danish) ownCloud-based data service for researchers
  
  → Intended for ‘active’ research data
  
  → Not for long-term archival

- ownCloud metadata app - intended for tagging and organising datasets
Tag name:
mytag

Meta-data fields:
test1
test2

Add meta-data field

OK Cancel
What CERN has

- **Zenodo** - an archiving, publishing and sharing service for documents and research data
- Open to researchers from all member states
- Easy and free assignment of Datacite DOIs
- Based on well-engineered, scalable, well-maintained infrastructure - EOS data store, tape backup, active research on bit-rot prevention etc.
- Long-term commitment and general trust with researchers
Big and Smart Data Analytics - Possible Advantages to Clinical Practice

Di Meglio, Alberto ; Manca, Marco

The growing availability of large quantities of data from medical devices, laboratory notes, digital simulations, doctors' notes, images, and even social networks are opening up new possibilities for today's healthcare. These Big Data Analytics can improve patient care, diagnostic procedures, and provide a more complete and accurate therapy management.IERI 2015
Data lifecycle
The vision

- Promoting:
  - data reuse, discoverability and provenance
  - open access
  - dataset ‘citability’ - credits to valuable datasets
- CERN/Zenodo acting as ‘terminus’ for end-of-lifecycle European research data
- Regional/volatile data stores get *seamless*, long-term publication channel
- Curation is *not* done by CERN, but by regional data stores
The complications - TBD

- ownCloud ORCID app
  - Assign ORCID ID to ownCloud account
  - Login with ORCID

- ownCloud Zenodo app
  - Generate archive from selected files/folders
  - Integrate with ownCloud metadata app (create deposition metadata schema)
  - Upload to Zenodo

- Zenodo API extensions
  - DOI assignment - primary and secondary URL
  - Delegate Zenodo access to ownCloud server
Conclusion

- No observed show stoppers (?) :-)
- Plenty of goodwill
- High priority and manpower assigned on both ends
Proposal: delegating Zenodo access to ownCloud server

When clicking “Publish on Zenodo” on data.deic.dk:

- data.deic.dk will redirect to

- orcid.org will ask to log in or create account, then redirect to

- zenodo.org will match with, ask to log in or create account, and redirect to
  https://data.deic.dk/index.php/apps/files_zenodo?datatoken=...&token=...

- data.deic.dk will use the token to upload to zenodo.org