



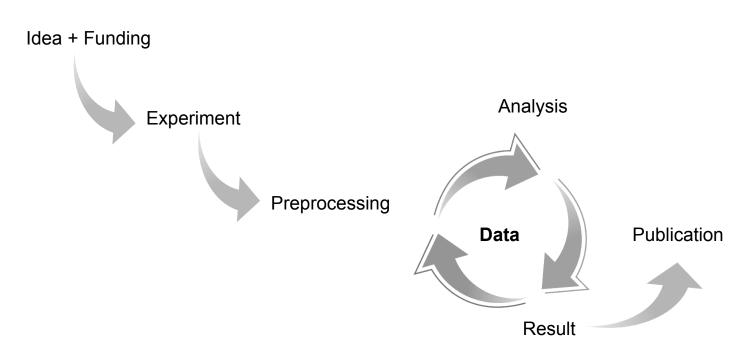


CC0 https://pixabay.com/en/machine-shop-tools-workshop-work-690190/





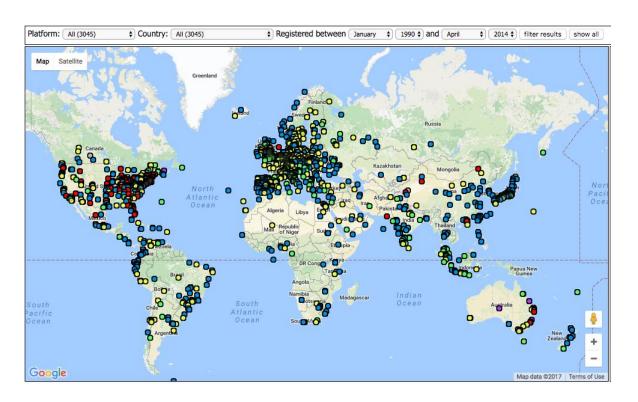
Research Data Workflow







Institutional Repositories Map



Source: http://maps.repository66.org







"3 years after finishing the project 80% of all researchers can not present the data anymore."

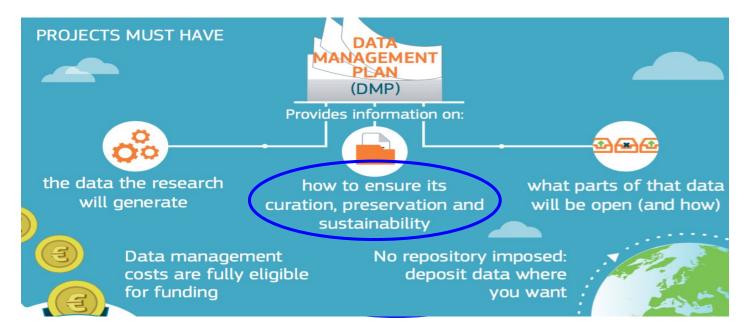
Prof. Dr. Mark Ferguson

Science Foundation Ireland





Since 2016 Data Management Plan mandatory

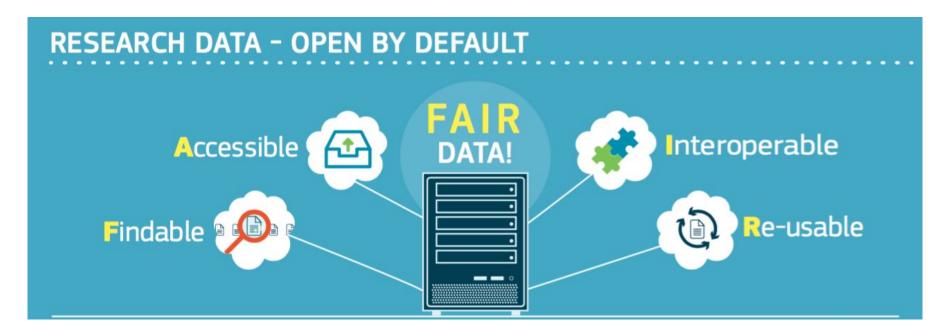


☐ Data Management plan and preservation of scientific outcomes is mandatory now:

EU: Horizon 2020; **Germany:** BMBF, DFG, DAAD, HRK, Alexander von Humboldt-Stiftung, Deutsche Akademie der Naturforscher Leopoldina, Fraunhofer-Gesellschaft, Max-Planck-Gesellschaft Wissenschaftsrat; **UK:** AHRC, BBSRC, CRUK, EPSRC, ESRC, MRC, NERC, STFC, Wellcome Trust; **And many, many more...**



Publicly funded research data must remain FAIR

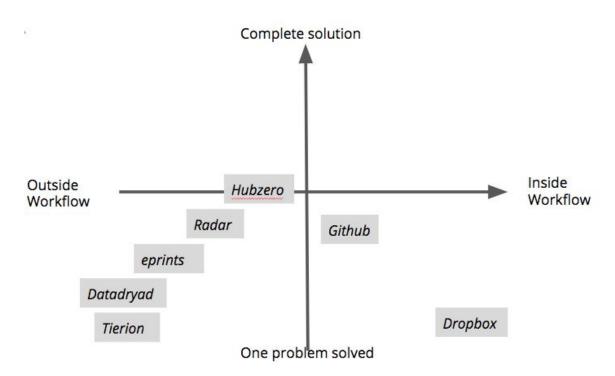


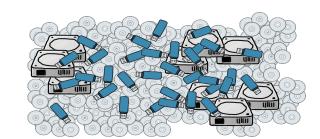
http://ec.europa.eu/research/press/2016/pdf/opendata-infographic_072016.pdf





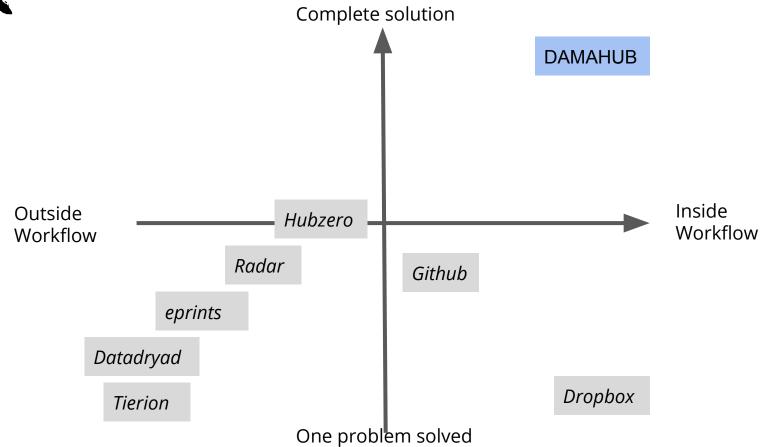
No Complete Data Management Solution















What researchers need



Distributed, neutral





Peer-Review, Comments



Timestamps for Authenticity



 Θ

Open Access



Easy Sync







Open Source



Version-Management



No Vendor-Lockin



Private Data



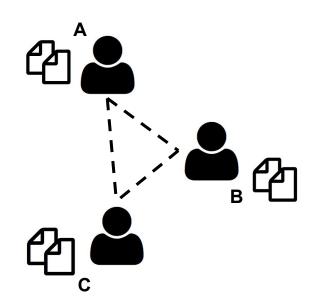


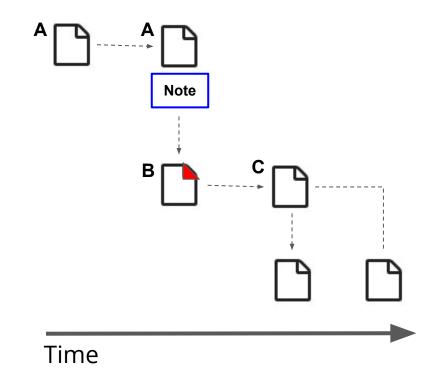
Lots Of Copies Keep Stuff Save





Data Management Hub

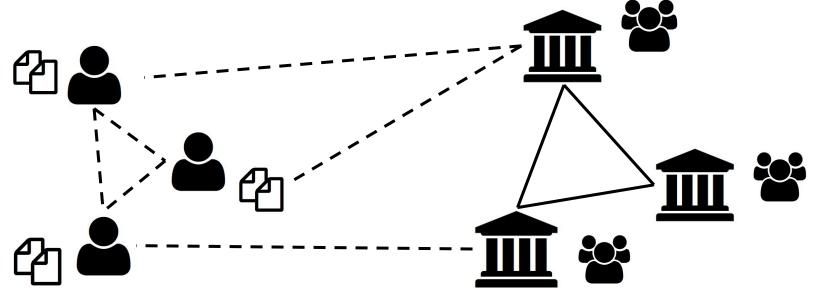








How Data Management Hub works



Private Data Synchronising, Versioning Open Data IPFS + Blockchain, neutral



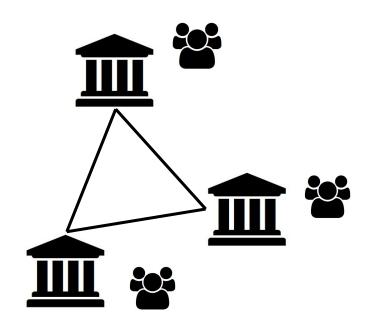


What does Data Management Hub do?

Innovative Technologies:

Blockchain + distributed File System **IPFS**

- ✓ Distributed neutral, resilient
- ✓ Version management
- ✓ Attribution of Data Authorship
- ✓ Open Access
- ✓ Time Stamps
- ✓ Search
- ✓ Social Interaction
- ✓ LOCKSS

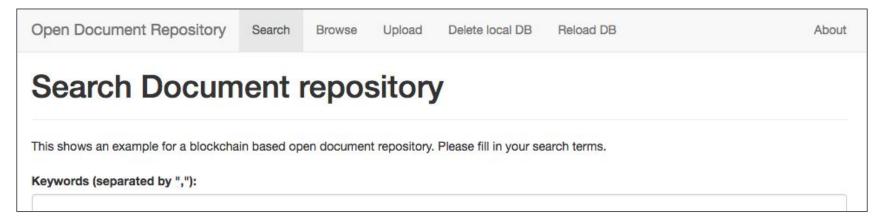


Open Data IPFS + Blockchain, neutral





Demonstrator: kubrik.io/demos/odr/



- ✓ Distributed File System
- ✓ Reference on Blockchain: Hash, Timestamp





Document view

Date: 2017-05-01T19:59:22.123572,

Title: <u>If-we-think-of-each-dataset-as-a-block...</u>

Author: kubrik,

Changes:

Keywords: If we think of each dataset as a BLOCK..., pdf, damahub, block, infrastructure

Category: slide

IFPS Reference: QmP4hTyp14rBb9r8afCt3W4Z33tWyVVMsmDrPkBqdLj2vu (local),

ipfs.io URL: https://ipfs.io/ipfs/QmP4hTyp14rBb9r8afCt3W4Z33tWyVVMsmDrPkBqdLj2vu (external),

Blockchain Reference: 45ad0ff4ce1ed13225d61deaa9f188a7aa78b794b9fdf63420de26dcf0f69716

Signature:

Update this document with new information...











Changing Role of the Publisher

- Researchers love their experiments and focus on submitting papers.
 - → They give little attention to **procedural requirement**.
- Research funding bodies have comprehensive data archiving requirements.
 - → Assistance & **guidance** required
- Publishers are specialists for integrity of research content.
 - → Accepting new responsibility for **data integrity**.
- Value of data intensive research
 - → Papers relevant only in connection with **reliable data**





Changing Role of the Publisher

"The International Committee of Medical Journal Editors (ICMJE) believes that there is an ethical obligation to responsibly share data generated by interventional clinical trials because participants have put themselves at risk. In a growing consensus, many funders around the world — foundations, government agencies, and industry — now mandate data sharing."

(Annals of Internal Medicine, January 2016)



Publishers are well positioned to create and capture value from connecting content & data in the scholarly communication.





Our Offer to Karger Publishers

- Active advisory role in the product development
- Role as model publisher after which process are designed
- Building innovative data management service for Karger journal authors
- Technological leadership in blockchain technology
- 8-12 month pilot for testing with selected journals
- No cost involved for Karger



As our exclusive publisher partner, Karger plays an active role in the development of an integrated service for researchers.





Our Team



Denis Parfenov, co-founder, CEO, MBS (International Business), MA (International Relations). Open Data Governance Board Member (Ireland), Account Manager (HP Ireland) and founder (B2B E-Commerce). Strategic partnerships, funding.



Ingo Keck, co-founder, CTO, Dr. europ. (CS), Dipl. physicist. 10 years work as researcher, 2 years as system architect and full stack coder. System design, Coding. **[RETIRED]**





More information

- Github
- Executive Summary
- 3 min video

Contact

- Email: <u>denis.parfenov@protonmail.com</u>
- Wire: @parfenov





DaMaHub Advantages

Researcher



Fit-in-workflow Data Management

Funding Organisations



Where and how works our money?

Publishers



Data and Articles need to be combined

Libraries



Data Archive





Data Management Hub



simple



social



neutral



kubrik.io



secure



authentic



resistant





References

- [1] Statement by Prof. Dr. Mark Ferguson, Science Foundation Ireland, August 2016
- [2] 'Incentive malus: Poor scientific methods may be hereditary" via The Economist www.economist.com/news/science-and-technology/21707513-poor-scientific-methods-may-be-hereditary-incentive-malus [cited 22 September 2016]
- [3] Interplanetary File System https://ipfs.io
- [4] "Introduction: What Is A Blockchain?" Ingo Keck. 12 January 2017. [cited 23 January 2017] https://medium.com/@ingokeck/introduction-what-is-a-blockchain-f22510332bff#.ramz7ngqj
- [5] "All you need to know about blockchain, explained simply." Rosamond Hutt. 17 June 2017. [cited 23 January 2017] https://www.weforum.org/agenda/2016/06/blockchain-explained-simply/
- [6] Since July 2016 every application under Horizon 2020 program must include Data Management Plan H2020 Program Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020, Version 3.1., 25. page 8, August 2016 https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf [cited 23 January 2017]
- [7] All publicly funded research outcomes (data and articles) must be made as Open Access under Horizon 2020 rules https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf [cited 23 January 2017]





5 Reasons Why Data Management Hub is needed:

- 1. Every day research data gets lost.
- Data Management Hub will enable scientists to build reputations and advance their careers by preserving data authorship.
- 3. Data management plan is compulsory for all new funding applications.
- 4. Data Management Hub preserves authenticated and versioned research data for replication of scientific studies.
- 5. Data Management Hub will revolutionize scientific data management like github did it for open source coding.

kubrik.io

