The role of an academic library assessing research in the open science age

Medical Libraries as High Quality Learning Centres
20th January 2017, Sapienza, Roma

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The classical role of a library

- Providing access to resources: physical and digital
  - Managing purchases
  - Subscriptions
- Bibliometrics
- Reference managers
- Guides on citation
- Training
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Stockholms Stadsbibliotek CC BY-SA Miss Dilettante
https://www.flickr.com/photos/flyingblogspot/15361704293

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“Traditional” research workflow

- discovery
- analysis
- writing
- publication
- outreach
- assessment

- Web of Science
- SPSS
- MS Word + EndNote
- Nature
- ResearcherID
- Journal Impact Factor

https://101innovations.wordpress.com
"Modern" research workflow

1. discovery
2. analysis
3. writing
4. publication
5. outreach
6. assessment

- Google Scholar
- R
- Google Docs + RefWorks
- ArXiv + PLoS
- institutional repository
- Eigenfactor + ALM + SNIP

https://101innovations.wordpress.com
Open Science “workflow”

- discovery → analysis → writing → publication → outreach → assessment

- Peeperity → ROpenSci Exchange Zooniverse → Hypothes.is Google Drive Zotero → F1000Res PLoSOne Figshare DRYAD → ORCID Research Gate SlideShare → Publons + ImpactStory

https://101innovations.wordpress.com
101 Innovations in Scholarly Communication

https://101innovations.wordpress.com
Research evolves, libraries evolve

New services

- Support to researchers
- Institutional repositories
- Open Access Journals
- ORCID
- Dissemination portals of scientific activities
- Research data management
- ...
Research evolves, libraries evolve

New relations

- Information technology units
- Research management units
- Research project offices
- Technology transfer offices
- CRIS systems
- ...
- Evaluation units
Research Evaluation

- Internal and external assessments
- Pre and post evaluation
- Individually
- Research groups
- Institutions
Before Evaluation

Planning research

- Collaboration on applications
- Data Management Plans

Conducting research

- Data quality
- Where to publish
- Open Access Journals
- ORCID
Evaluation

- Posting outputs in repositories
- Linking of inputs/outputs in a repository, a CRIS system...
- Criteria in internal evaluations
- Reporting scientific production
- Measurements
Challenges for libraries

- To know criteria for evaluation
- To know requirements on dissemination
- To know new tools of scholarly communication
- To know new ways of dissemination
- To know new metrics
The world of licensing
Self-archiving policies

SHERPA/RoMEO Colours, excluding provisional policies

Green (883 = 40%)
Blue (740 = 33%)
Yellow (146 = 7%)
White (464 = 21%)

Total = 2233 publishers

FAIR Data

Data as increasingly FAIR Digital Objects

- Totally UNFAIR
- Findable
  - Usable for Humans
- FAIR metadata
- FAIR data-restricted access
- FAIR data-Open Access
- FAIR data-Open Access/Functionally Linked

 Metadata (intrinsic)
(provenance' (user defined))

 Data (elements)

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(provenance' (user defined))

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Data (elements)

https://www.force11.org/fairprinciples

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New ways of evaluation
New ways of evaluation

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Grazie

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