Library’s role in Researcher Services and in Open Science

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Briefly

- About Lappeenranta Academic Library
- Library’s tasks in Open Science
- Open Science in Finland
- LUT Strategy and Open Science Policies
- Open Science and Research Process
- LUT Research Data Services

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Lappeenranta Academic Library

**Joint library**
- serves Lappeenranta University of Technology and Saimaa University of Applied Sciences students and personnel
- serves as a local, public, scientific library

**Figures in 2016:**
- 350,000 library visits
- 195,000 e-books, 120,000 printed books, 1,350 printed journals, 40,000 e-journals
- 3,280,000 downloads of e-materials
- 4,460 students attended information literacy education

**Lappeenranta University of Technology:**
1000 researchers and teachers
5700 students

**Saimaa University of Applied Sciences:**
260 teachers
3000 students
About Library Organization

Staff
• Total number of staff 16, staff with academic degree, 9
• In 2016 the staff was decreased 25 % due to financial conditions

Library is organized in two administrative teams and in thirteen (13) matrix teams based on different functions
• the employees determine their tasks in cooperation by taking into account each one’s personal interests to develop her/his skills

Library teams dealing with research issues:
Researcher services
CRIS
Copyrights
Electronic materials
Education
Metrics
Open Science in Finland

Open Science and Research Initiative funded by Ministry of Culture and Education:

• Open Science Roadmap
• Recommendations
• Practices
• Services
• Developing Projects
• Education and courses

• Main partners:
  • Ministry of Culture and Education
  • Universities
  • Research organizations
  • National Library of Finland
  • IT Center for Science

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Library as a Partner in Open Science

Active partner in the university in cooperation with:
- OA group of Vice Rector of Research, steering and decisions
- Academic Schools
- IT Services
- Funding Services
- Research Administration

Active partner in national cooperation
- Open Science and Research Initiative
- Universities’ OA network

Takes part in international cooperation
- Member in the international OA working group of Ministry of Culture and Education
- National Pasteur node 2014-2016

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Library’s Tasks in Open Science

Tasks in Open Science
• Bringing knowledge and skills to the university
• Developing services
• Information dissemination in the university
• Education of Open Science issues on all levels
• Making guidance
• Guiding:
  • Seminars, posters, visits to academic schools
  • Service email and chat
  • Personal sessions
• Evaluation and metrics
Trailblazer Strategy in LUT

LUT is committed in Open Science in the Strategy
LUT was rewarded in 2016 by Ministry of Education and Culture
for promoting Open Science

LUT Trailblazer strategy outlines its goals with four questions:
• Are we going to burn up everything?
• Is humanity condemned to suffer from water it has polluted?
• Will waste be the grave of our future?
• Will we let Europe degenerate to the world’s back yard?

• Strategy includes big global questions
  • Results must be largely disseminated to have impact in society and in
    the world
Open Access Policy since 2014

- Most research funding institutions require open access to results of publicly-funded research
- Publish in that journal which is most important for researcher’s merits and for the university’s merits
- Parallel online versions of all published articles, other publications and dissertations will be published in LUTPub Repository according to green open access principles
  - if the terms and conditions set by the publisher allow
  - if the terms and conditions of the research funding allow, the copyright of scientific publications created in connection with the research shall remain with the researcher
- The Academic Library will provide researchers with guidelines and training in open access publication
- The Academic Library will help researchers with any questions they may have

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Research Data Policy since 2016

- Research Data principles in LUT
  - The research data produced at Lappeenranta University of Technology is, as a rule, open and available for shared use.
  - The long-standing, confidential collaboration between Lappeenranta University of Technology and business enterprises should always be taken into consideration

- Important principles to follow:
  - LUT Code of Conduct and Good Scientific Practice at LUT
    - Ethical issues
  - New: EU Data Protection Regulation
    - Education demand to the university staff

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Science is characterised by openness, subjection to criticism, and development. In its strategy, LUT is committed to the promotion of open science. Open science and the different ways to implement it – open access to research data, publications, research processes and research methods – provide many advantages for the researcher. Publications are demonstrably cited more and receive more attention through open access publishing, the social media, and open access research data. Openness increases the societal impact and possibility for innovations.

Find out more about open science through an **online course**.

**LibGuide**, guide to open science.
Preparing Research

- Data Management Plans are demanded by research funders:
  - Tool for Data Management Plans:
  - DMPTuuli, (service developed in Great Britain, national initiative and tailored service in Finland)
    - Accepted by funders, e.g. Academy of Finland, Tekes – the Finnish Funding Agency for Innovation, Horizon 2020

- Research agreements including open science aspects
- Defining rights to research outputs and data
- Publishing plan, aim to open access publishing
  - If Gold Open Access, APC:s must be noticed in the budget
Carrying Out Research

• Using open data, using Big data
• Using open materials
• Are there open methods to be used?
• Defining Data Management Plan
• Working with colleagues during research
  • Services:
    • Eduuni group working environment, MS SharePoint based
    • European service: B2DROP, EUDAT Research Data Services

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Generating Research Outputs and Results

- Describing research results, writing articles etc.
  - RefWorks bibliographic management program
- Is there something to be patented?
- Building metadata
  - National Etsin Research data finder for research data
- Depositing research data and research methods:
  - National IDA Research Data Storage
  - Finnish Social Science Data Archive, FSD
  - B2SHARE
  - ZENODO
  - LUTPub University Repository
  - LUT disk drives
- Creative Commons licencing recommended: CC 4.0 By to data, CC0 for metadata
Publishing and Dissemination

- Parallel publishing (Green OA) in LUTPub University Repository,
- Publishing in Gold OA journals
- Parallel published publications harvested to OpenAIRE
- Dissemination in social media, ResearchGate, Academia.edu
  - publisher’s permissions needed for publishing full texts
- Publication information to LUT Research Portal (CRIS)
  - Research information hub of LUT, also public interface
- ETSIN Research data finder,
  - Open data, limited access data, rejected access data
- AILA Portal to Finnish Social Science Data Archive materials
Making Value to Results

- Planning long term preservation: national Digital Preservation Solution for Research Data (PAS) will be in use 2017

- Altmetrics and bibliometrics in analyzing results

- Ministry of Culture and Education gathers publication information from universities
  - Publication information is yearly published in Juuli Portal
  - 13% from funding of universities depends on the amount of high quality publications
  - Openess is also monitored but not yet in the funding model

- No special merits to researchers in LUT for the time being
  - Have to be planned
Exploiting Research

- Exploiting open data and results
- Innovations
- Citizen science
- Curating outputs and data, long term preservation in the national long term preservation system
  - Library is a member in the national working group
  - Guidance in long term preservation services
- From open data to Big Data
- New research ideas

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Preservation
Identifiers
Metadata
Findability
Sharing
Publishing
Data Services for special fields
Repositories
International Services
National Data Services
EUDAT
zenodo
finto
IDA
Etsin
Aila
AVAA
Theseus
Doria
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LUT RDM Services (recommended)

Data repositories
- CSC
- IDA
- FSD
- CSC
- AVAA
- CERN
- ZENODO
- EU*
- EUDAT
- ArXiv

Metadata catalogues
- CSC
- Etsin
- EU
- Open AIRE
- FSD
- AILA

Publication repositories
- LUTPub
- CRIS
- LUT Research Portal

Research collaboration environment
- Eduuni
- DMPTuuli

Orcid Researcher ID

DS = Dataset
MD = Metadata

* Universities & research organisations in Europe

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Thank you!

Questions?

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