International Collaboration Boosting Open Science

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"Open Science is scholarly research that is collaborative, transparent and reproducible and whose outputs are publicly available."

OSPP Integrated Advice 2018

Agenda

- Open Science Policy Platform
- Open Science in Finland
- The impact of PLAN S on national licensing – case Finland
- How can libraries foster Open Science?
- Conclusions

Photo: Carola Radke

Open Science Policy Platform

Background

- 2014
  - **Public consultation** on "Science 2.0: Science in Transition"
- 2015
  - Competitiveness Council welcomed the development of an **Open Science Agenda**
- 2016
  - Launch of **Open Science Policy Platform** (OSPP) by Commissioner Moedas
- 2018
  - Competitiveness Council was informed about the "**Integrated Advice of the Open Science Policy Platform**"
- 2018–2020
  - 2nd mandate of the OSPP
  - Outreach and **implementation** of Open Science policies & practices

Open Science Policy Platform (OSPP), M2

- **Advise** the Commission on open science policy

- **Practically implement** the European Open Science Policy Agenda

- **Improve** the quality and impact of European science across member states and internationally

- **Identify** related stakeholder groups

- OSPP consists of 25 high-level representatives of European Open Science stakeholders

  - Terms of office: 2016–2018 and 2018–5/2020

Photos: © European Union, 2016

OSPP priorities

- FAIR Open Data
- The European Open Science Cloud
- Next Generation Metrics
- New business models for scholarly communication
- Rewards
- Research integrity
- Open Science skills
- Citizen Science

- HLEG reports 2018 and 2019:
  - Prompting an EOSC in practice
  - Turning FAIR into reality
  - Indicators
  - Citizen Science

- Relevance of the EOSC initiative and FAIR principles in Open Science and implementation phases of the EOSC:
  https://ec.europa.eu/research/openscience/index.cfm?pg=openaccess#

- OSPP advice is based on HLEG reports and the expertise of OSPP

OSPP recommendations 2018

"All published research outputs from public funding in Europe must be made public in a way that ensures both **immediate Open Access and full text and data mining rights** of that content, while being sensitive to disciplinary differences."

Stakeholders

Future of Scholarly Communication

All published research outputs from public funding in Europe must be made public in a way that ensures both immediate Open Access and full text and data mining rights of that content, while being sensitive to disciplinary differences[*]. Venues used for the publication of research outputs must ensure long-term archiving and provide clear, consistent and easily accessible and machine-readable information on their Open Science policies.	▪ Each Member State, together with its respective stakeholders, must develop policies to guarantee compliance with the EU Open Access mandate, including both incentives and enforcement, by 20 EOSC Summit 11.6.2018 ▪ The EC has adopted the implementation roadmap for the European Open Science Cloud ▪ High level expert groups on EOSC, Future of Scholarly Publishing and Fair Data have been formed and are active ▪ The EC will develop an Open Access Publishing Platform; tender has been opened 20. This needs to happen in ways that are sensitive to disciplinary differences, the financial investment required and fast-changing publishing systems.	All authors must make their data and software (i.e. excluding, if relevant, data owned by third-parties, etc) appearing in their open access publications FAIR (Findable, Accessible, Interoperable and Reusable). To this end, a key requirement is deposition in a trusted repository that adheres to FAIR principles. In addition, all publications must include a statement of FAIR compliance for the source data underpinning their claims and the licence for its reuse.	All publication venues must prominently display their Open Access and FAIR data policies.

Outcome

- OSPP-REC- Open Science recommendations
- Open Science coordinatiors network - "Council of Open science coordinators"
- Outreach
  - *Focus on Open Science workshops*
  - EU presidency meetings in the Netherlands, Estonia, Romania and Finland
  - LIBER annual conferences (in 2018 the French Open Science plan was published)
  - RDA
  - Confernces, events, workshops, webinars
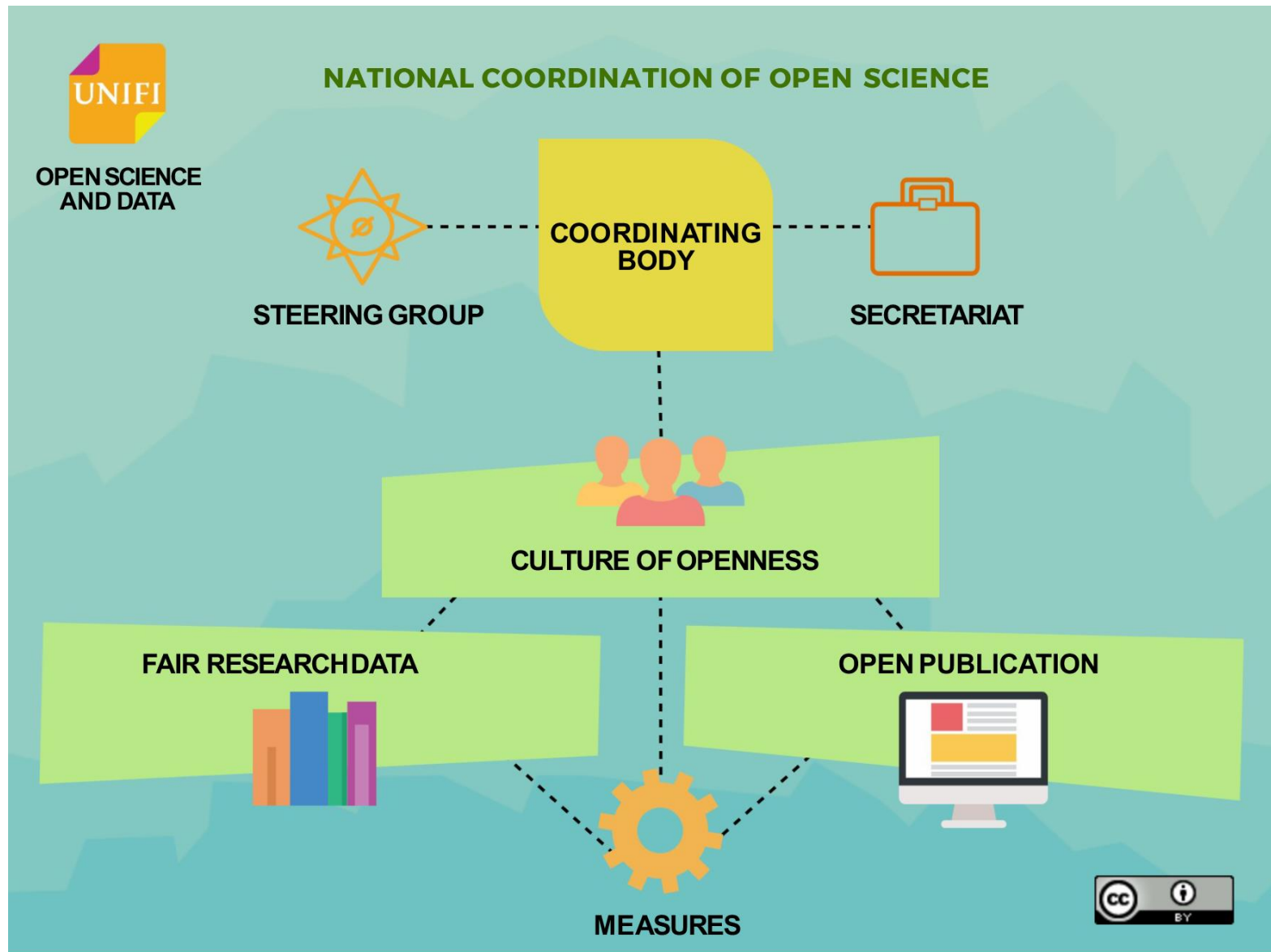
Open Science in Finland

Development of Open Science Policy and Action Plan in Finland since 2010

- TTA programme **2010–2013**
  - Building the basis for future work

- Open Science and Research Initiative **2014–2017**
  - "**Open research leads to surprising discoveries and creative insights**"
  - Publications, data, methods

- The Finnish University Rectors' Council's (UNIFI) Action Plan **2018**

- National coordination of Open Science in Finland **2018–**
  - **Led by the Federation of Finnish Learned Societies**
  - Independent from the Ministry of Education and Culture
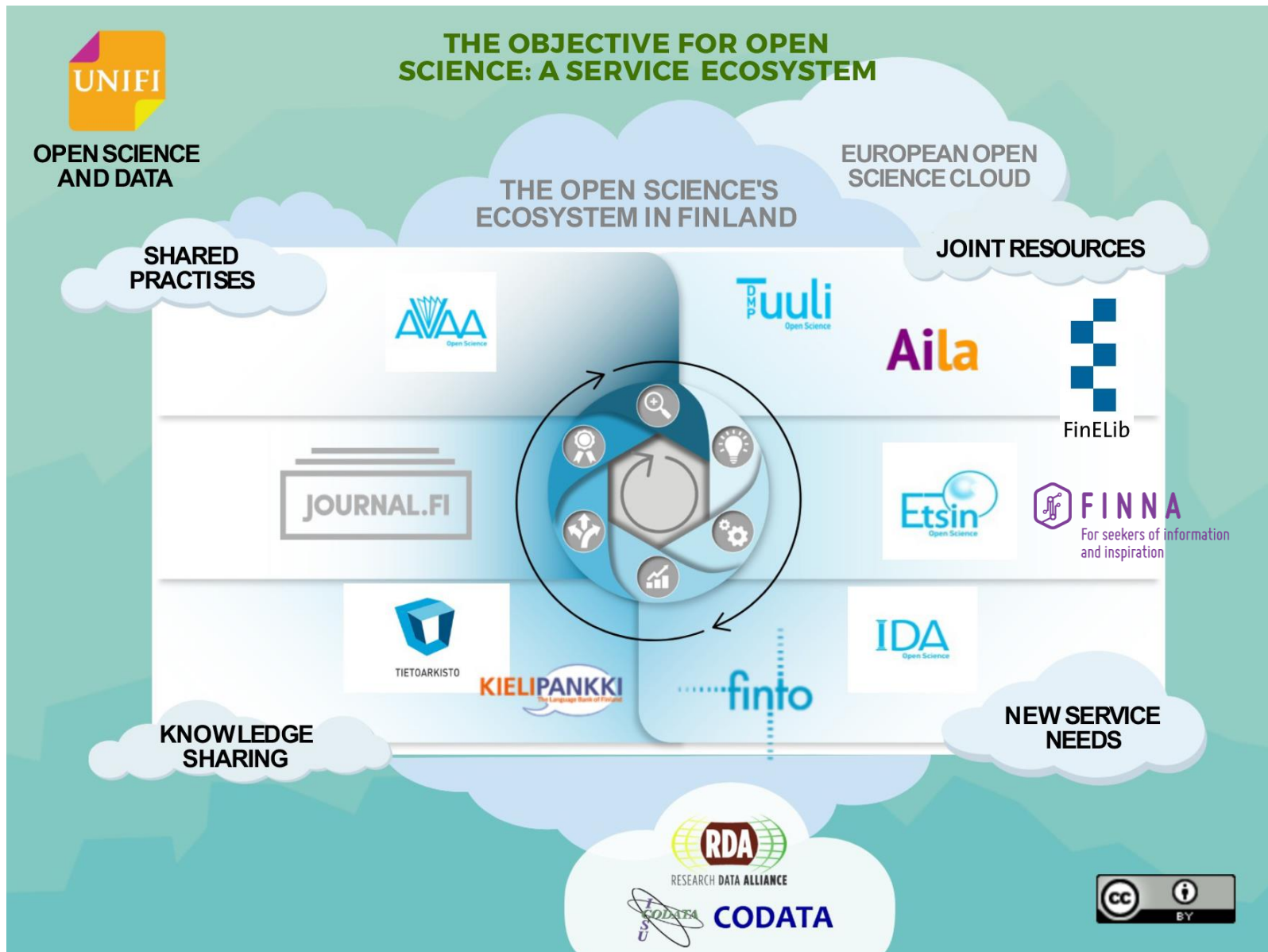 - All research organisations invited

National coordination of Open Science in Finland

- National policy papers
  - Open Science Declaration (2019)
    - National OA guidelines (2019)
    - Researcher evaluation guidelines (2019)
    - FAIR data guidelines (2020)
    - Open Education guidelines (2020-2021)
- Improved collaboration and synergy, more dialogue
- Research organisations are responsible for OS activities within their organisations
- Research funding organisations give credit for OA activities

Universities and National coordination

Open Science Infrastructures

EU Open Science coordination meeting 2019

- EU member state Open Science coordinators met as part of the Finnish EU presidency.

- Participants:
  - OSPP and EOSC Executive board members
  - Key open science coordinators in member states.

- Organisers
  - Federation of Finnish Learned Societies
  - National Library of Finland
  - Laurea University of Applied Sciences

- Outcome:
  - Council of European Open Science Coordinators will be formed
  - The council will have the same status as OSPP
  - Dr. Henriikka Mustajoki from Finland is the 1st chair of the council 2020-2021

National licensing

PLAN S – Accelerating the transition to full and immediate Open Access to scientific publications

- **From 2021**, all scholarly publications on the results from research funded by public or private grants provided by national, regional and international research councils and funding bodies, must be published in **Open Access Journals, on Open Access Platforms, or made immediately available through Open Access Repositories without embargo."**

- cOAlitionS has been signed by **16** national funders, **4** charitable foundations

- cOAlitionS is supported by the EU and ERC, and has received support statements (e.g. LERU, Liber, COAR, EUA)

- Revised **Principles and Implementation** guidelines published in 2019

National guidelines and licensing

- UNIFI, the Finnish rector´s council, has endorsed the negotiation goals of FinELib
    - Affordable price
    - Immediate OA
- UNIFI wants to get more involved in the discussions and decision making regarding the deals
- Dialogue between FinELib office and UNIFI
- We have to be prepared to cancel traditional subscription deals
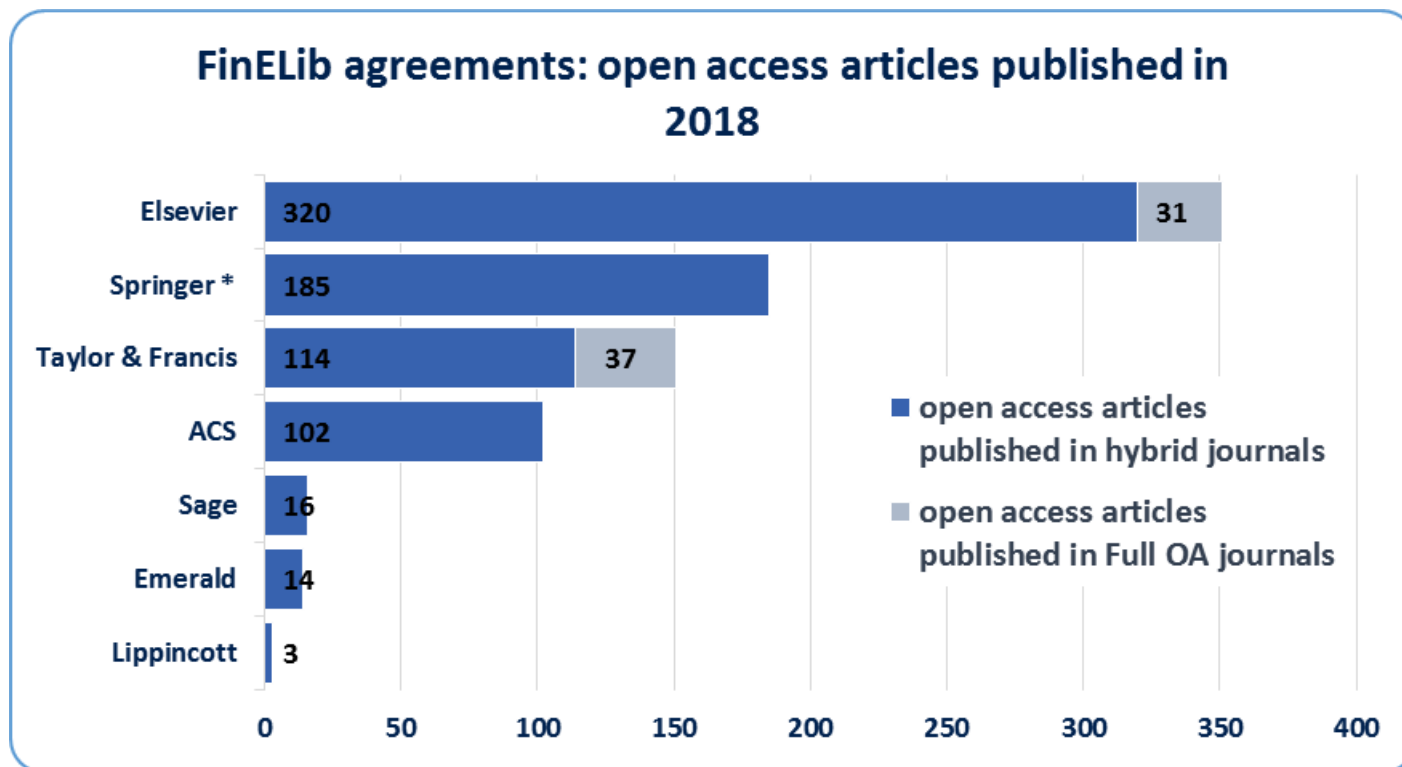
FinELib & Alternative Access Plan

- Consortium of Finnish HE institutions, research institutes, and public libraries
- Negotiates license agreements centrally on behalf of its member organisations
- OA in negotiations since 2016
- Total of 125 e-resources
- Common Alternative Access plan created 2017

Alternative Access

Search for an article in the **open access service**

Ask for help from the **interlibrary loan service**

Request an article from a **researcher**

Purchase an article

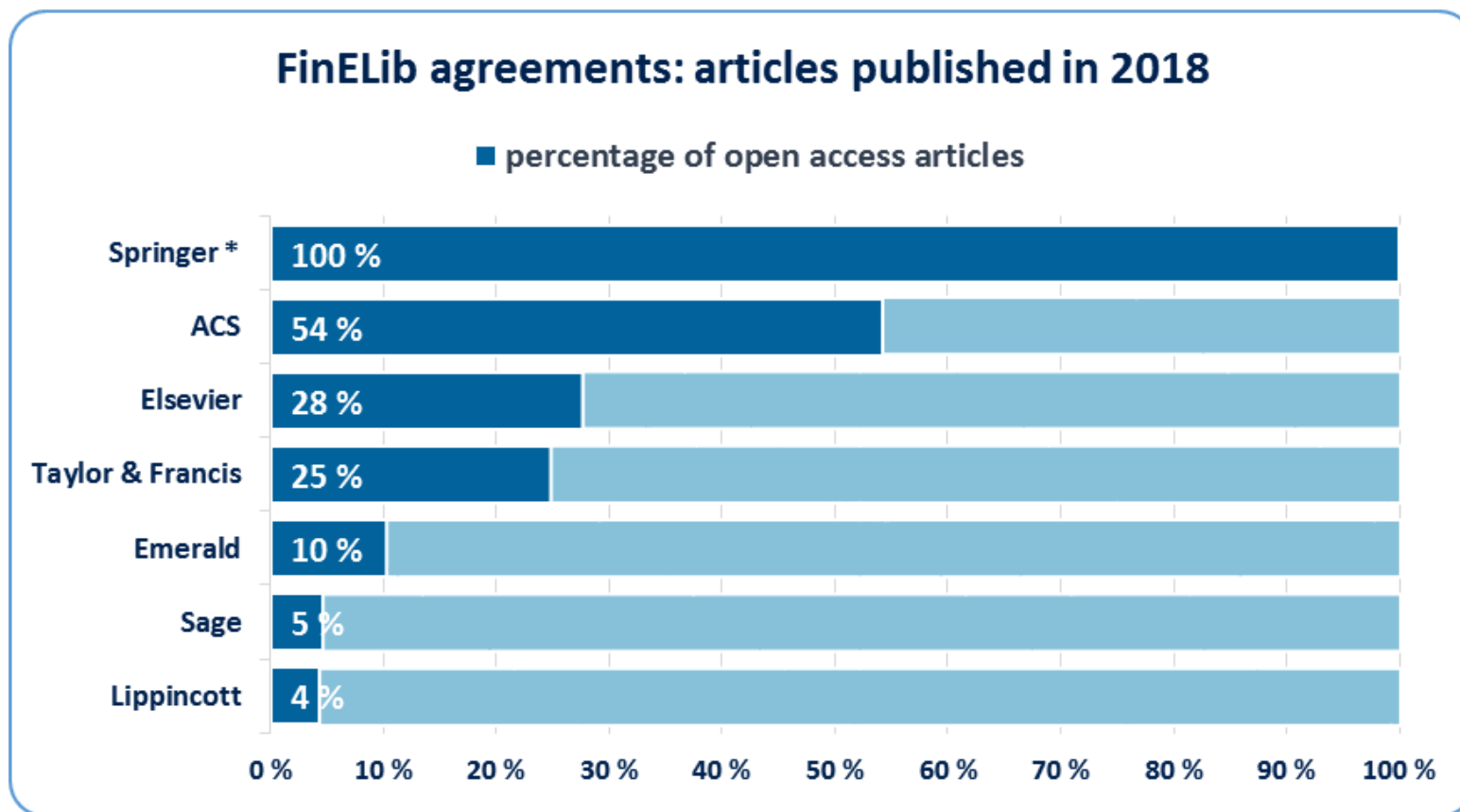FinELib

Plan S and FinELib

- Plan S gives strong support to negotiations
  - FinELib agreements must guarantee OA to researchers on Plan S terms, as funders like Academy of Finland require Plan S compliance
  - The Finnish rectors council, UNIFI, supports FinELib's licensing goals
- Transparency
  - Agreements published: http://finelib.fi/negotiations/agreements/
  - Subscription prices published: https://avointiede.fi/en/publisher-costs
- Appropriate and easy to understand terms of use
  - CC licences (preferably CC BY)
- Results and current situation:
  - Agreements with **Springer** and **Royal Chemical Society**: 100% OA
  - Negotiations on transformative OA agreements with Wiley, Sage and other publishers continue
  - Several deals with partial OA publishing rights (e.g. ACS) or discounted APCs for researchers (e.g. Elsevier)
  - No deal for 2019 with Taylor and Francis

FinELib agreements

FinELib agreements: open access articles published in 2018

Publisher	open access articles published in hybrid journals	open access articles published in Full OA journals
Elsevier	320	31
Springer *	185	
Taylor & Francis	114	37
ACS	102	
Sage	16	
Emerald	14	
Lippincott	3	

*) Springer: October through December (from the beginning of the agreement)

FinELib agreements

FinELib agreements: articles published in 2018

■ percentage of open access articles

Publisher	Percentage
Springer *	100 %
ACS	54 %
Elsevier	28 %
Taylor & Francis	25 %
Emerald	10 %
Sage	5 %
Lippincott	4 %

LIBER – The Network of European Research Libraries

- Founded in 1971
- Ca. 450 libraries in over 40 countries

- Slovenia:
  - University of Ljubljana
  - School of Economics and Business LU, Central Economics Library
  - National and University Library
  - Maribor University Library

LIBER STRATEGY – 2022 RESEARCH LANDSCAPE VISION

- **Open Access** as the main form of publishing
- **FAIR** Research Data
- **Transparent research life cycle**, reinforced by digital skills
- **Research infrastructures** that are collaborative and tailored to the needs of different disciplines
- **Digital information** that supports tomorrow's cultural heritage

- **OPEN SCIENCE ROADMAP** doi.org/10.5281/zenodo.1303002

HOW WE FOSTER OPEN SCIENCE

Training: Annual Conference, leadership courses, workshops, webinars.

Guiding: Best practices, and other resources to help libraries improve and innovate.

Advocating: Speaking up globally for research libraries.
- Open Science
- TDM

Networking: Bringing professionals together.

A workshop run by our Digital Skills for Library Staff and Researchers Working Group.

Open Science Roadmap
THREE KEY PRINCIPLES

1. TRANSPARENCY

The whole research cycle should be as transparent as possible

- Research outputs, code, methods, peer review

Libraries should support transparency by, for example, sharing licensing information (costs, contracts, etc.)

2. SUSTAINABILITY

Research outputs, infrastructures and funding should all be sustainable

Libraries should provide services for standardised metadata including persistent identifiers and long term preservation solutions + make sure the contracts made contain archival rights

3. COLLABORATION

The spirit of collaboration on a local, European, and global level is deeply embedded in libraries. This is why libraries are powerful in fostering Open Science

- Sharing best practices, case studies and by developing common standards and services

LIBER RECOMMENDATIONS

30 recommendations for Open Science, for example:

- Publish without delays
- Recruit staff with good data skills and train personnel to promote FAIR principles
- Contribute to the ongoing development of the EOSC by offering feedback, either directly or through LIBER, and by sharing best practices that support Open Science
- Endorse the San Francisco Declaration on Research Assessment (DORA) and the Leiden Manifesto
- Coordinate with other partners to provide a multidisciplinary one-stop-shop for researchers to support them at every stage of the research process in their Open Science workflow
- Participate in establishing a Code of Conduct for Research Integrity within your institution. This code should align with the core principles for Open Science, such as openness, transparency, and accountability in all aspects of research
- Promote the library as an active partner in Citizen Science and develop the necessary infrastructure to effectively support the public in their research work

All stakeholders have to be active to make Open Science happen - it is all about collaboration!

Thank you!

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https://www.nationallibrary.fi.fi/