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Reaching across the disciplinary divide to extend Open Science

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REACHING ACROSS THE DISCIPLINARY DIVIDE TO EXTEND OPEN SCIENCE

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GENESEO
THE STATE UNIVERSITY OF NEW YORK



UNIVERSITY of
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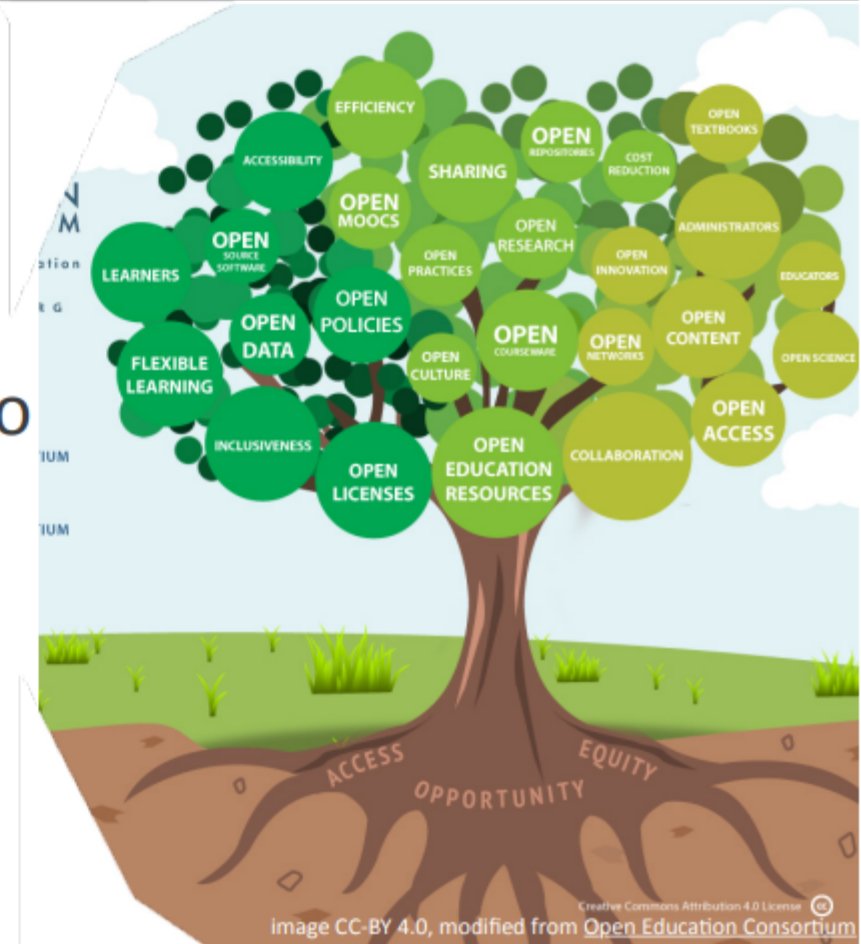
IDENTIFY AND BRIEFLY EXPLAIN AN IMPORTANT PRINCIPLE OF OPEN SCIENCE

- Link is in the Zoom chat
- <https://padlet.com/grunert/OS1>



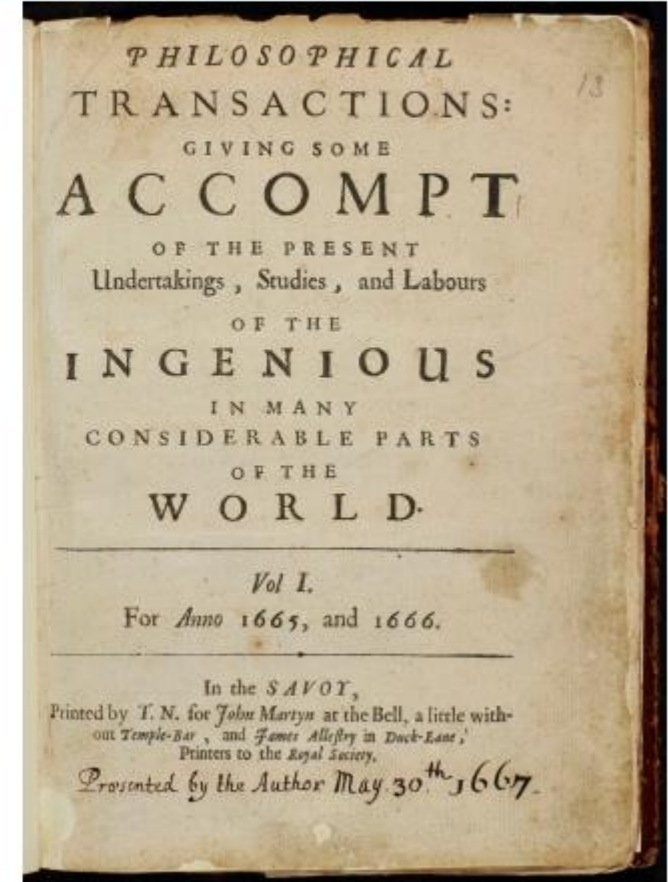
OPEN SCIENCE IS ENORMOUS

- Open Science is diverse, containing many pieces, all of which contribute to its overarching effect.



PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY

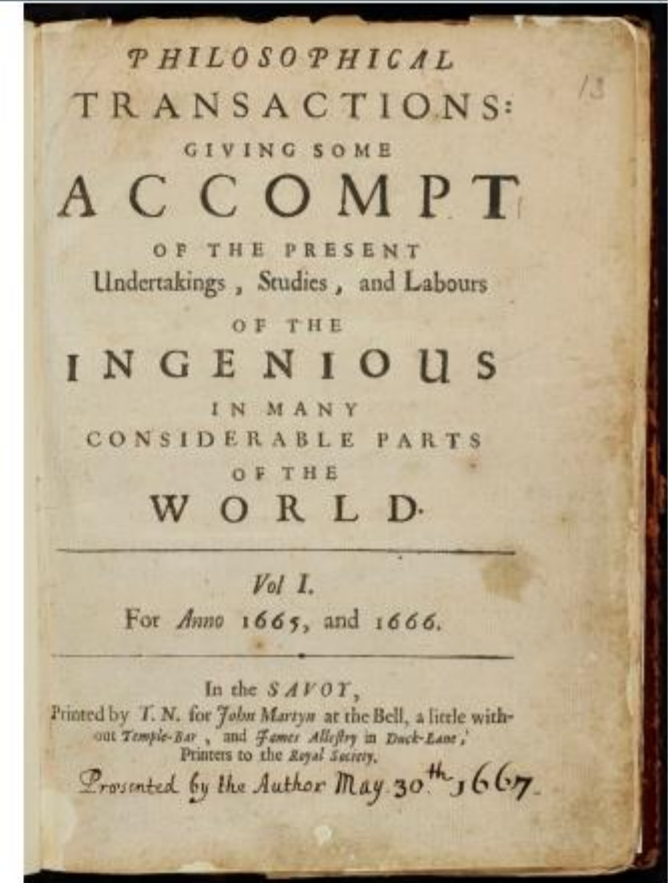
- 1660, Royal Society founded
- 1664, "...all ingenious men will thereby be encouraged to impart their knowledge and discoveries"

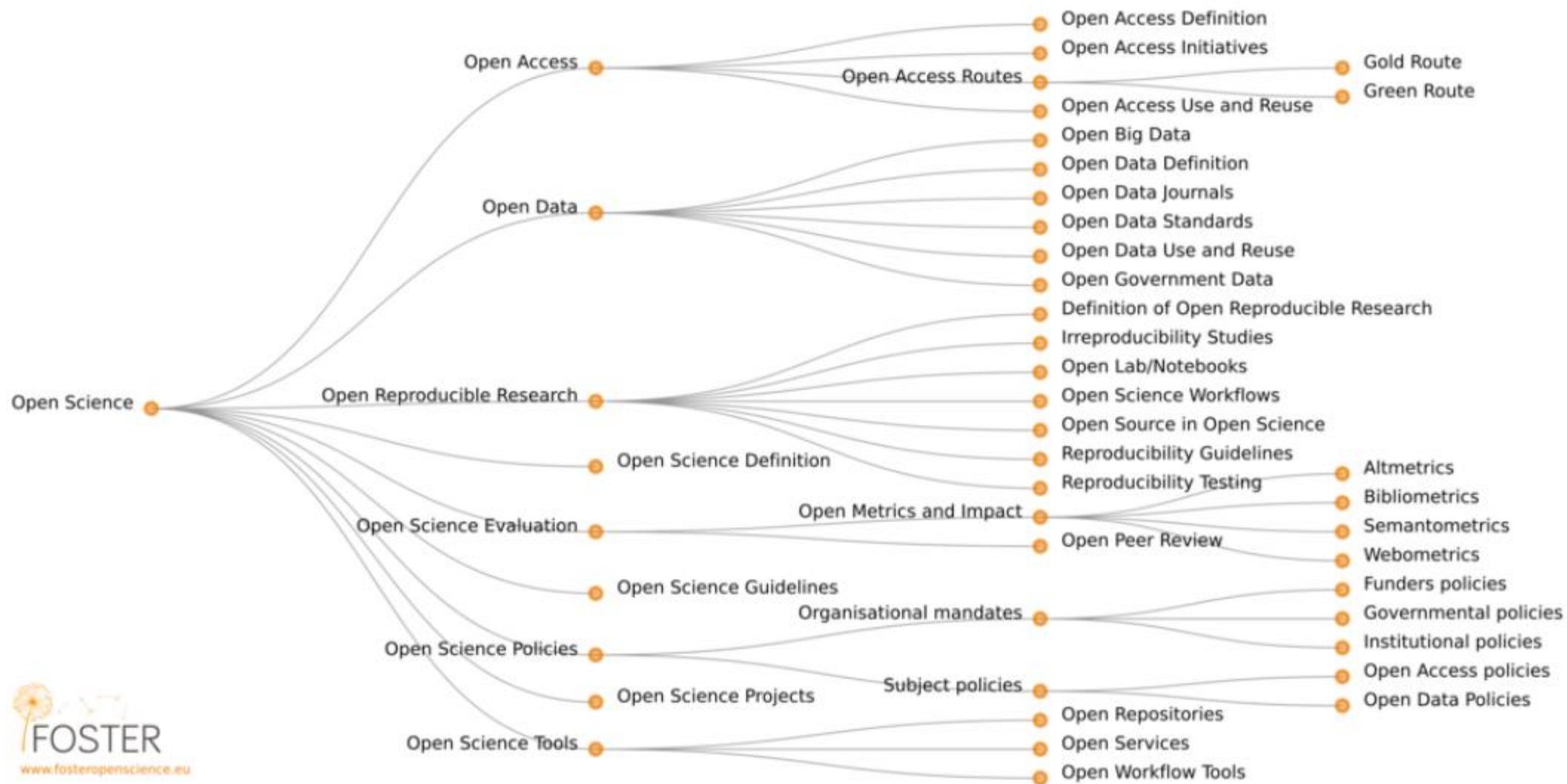



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PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY

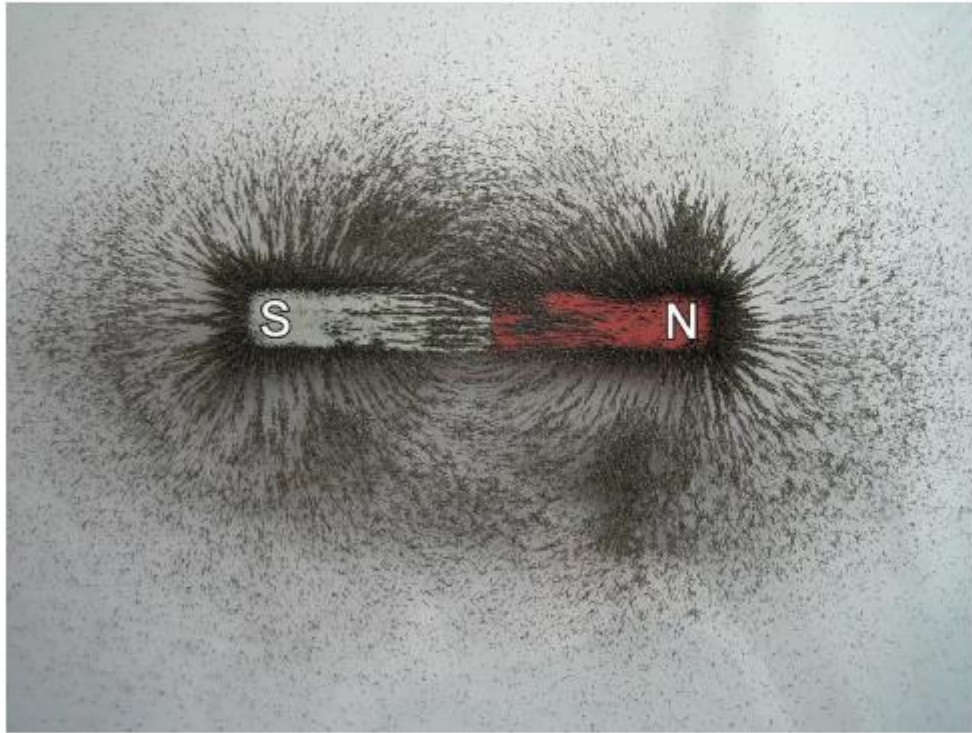
- Open for whom?
- Intent of *Phil. Trans.* was to make the scientific knowledge produced by the Royal Society available to all scientists
- 1787, Caroline Herschel is the first woman published in *Phil. Trans.*





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- Most Open Science principles are not exclusive to scientific research; indeed, many researchers across academia engage in similar practices in their own disciplines.

STEM versus OTHER DISCIPLINES DIVIDE



Iron filings tracing the magnetic field of a bar magnet by [dayna mason](#)
(CC-BY-NC-SA 2.0 Generic)

- *The Two Cultures*, CP Snow (1959)
- STEAM movement
- Digital Humanities to Digital Scholarship
- Open Science to Open Scholarship

OPEN SCHOLARSHIP: A MORE INCLUSIVE TERM

- Open scholarship (academia) vs open knowledge (everybody)
- Open Science + Open Culture
- Scholars as researchers with similar goals/challenges
- Openness for impact and public engagement



Pumpkins! by [Jeremy Seitz](#) (CC-BY 2.0 Generic)

ORCID: THE UNIVERSAL IDENTIFIER

ORCID

Connecting Research
and Researchers



Created by Josh Sorosky
from Noun Project

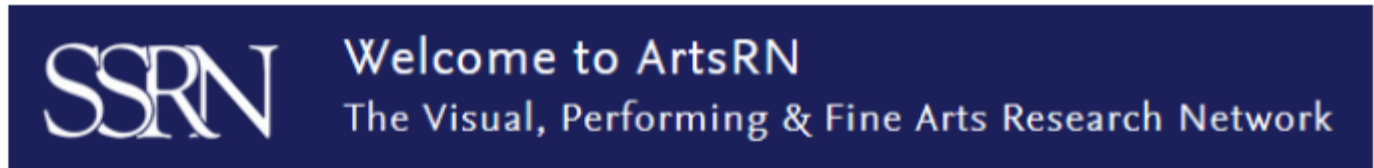
- Name disambiguation
- Data analytics (metrics + altmetrics)
- Challenge: perceived value of academic social networks and algorithms
- Standards - “one ring to rule them all”

UR

- Faculty Activity Report
- Grad students - mandatory

PREPRINTS FOR EVERYBODY: OPEN ACCESS PUBLISHING

- COVID revolution
- Preprints (Green OA)
 - early access
 - free access
- Preprint repositories for all disciplines
- Reaction to long peer-review and public engagement



UR - Preprints Playlist in “Research Connections,” curated by librarians

DATA IS EVERYWHERE: OPEN DATA



NADAC

National Archive of Data on Arts & Culture

The Qualitative Data Repository

- Data: text vs numbers
- Text corpus/corpora; images
- Digital Humanities projects
- Data repositories for all disciplines
- Deconstructing the article: multiple citations

UR – Data and digital literacy definitions

WE ARE ALL CREATORS: OPEN EDUCATIONAL RESOURCES

- Textbook affordability: one vs many
- Public Domain for Humanities
- Open pedagogy: students as creators
- Author's rights (CC licenses)

UR - Access to Course Textbooks (ACT)
Commitment

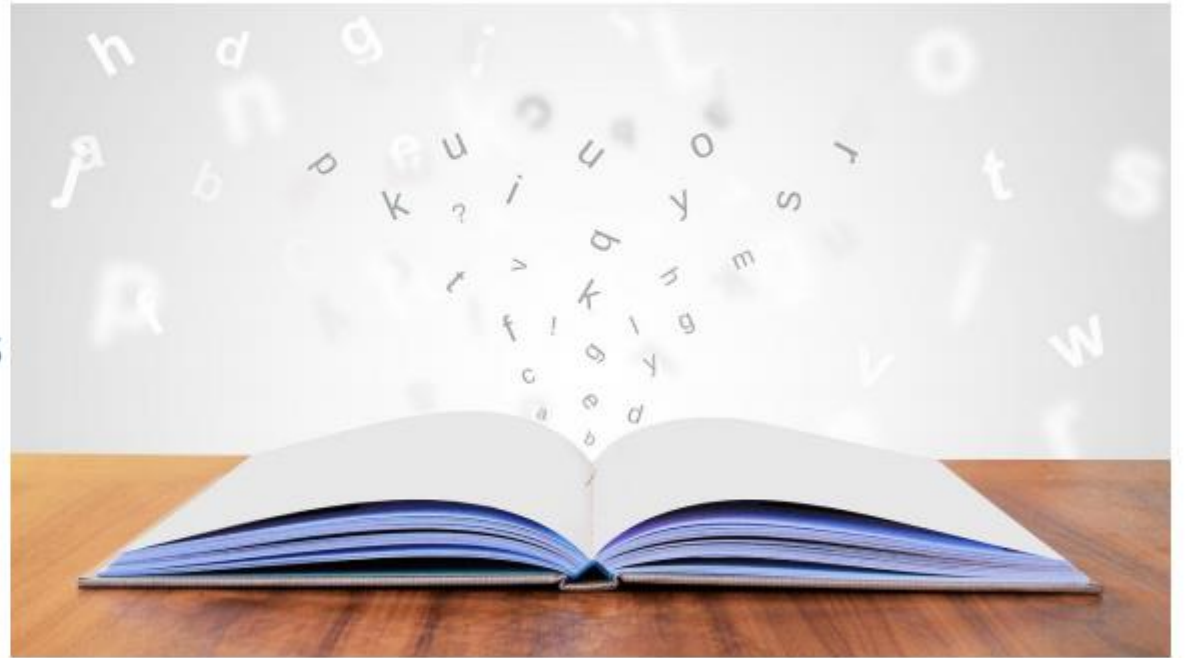
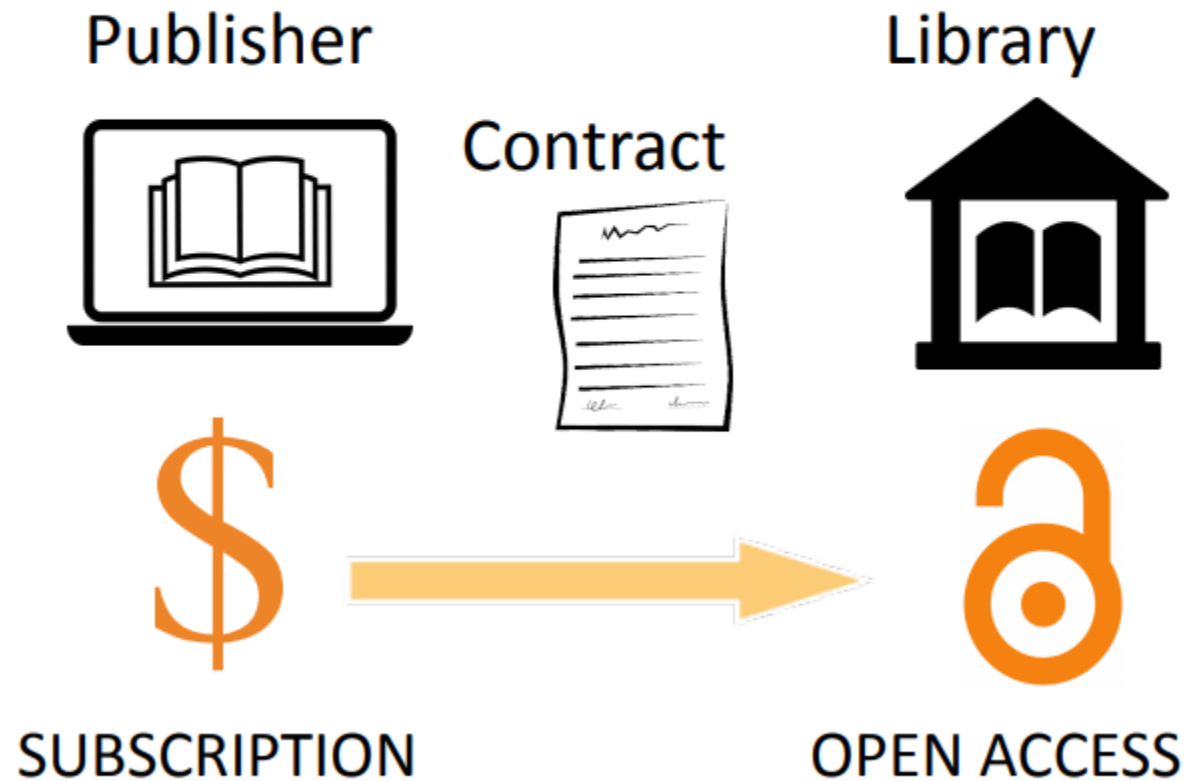


Image by [Mediamodifier](#) from [Pixabay](#)

THE NEXT FRONTIER: TRANSFORMATIVE AGREEMENTS



- PlanS 2020 - transformative agreements with publishers
- Faculty education about collection strategies
 - Journals first
 - Books - next frontier

UR – Open Exchange group

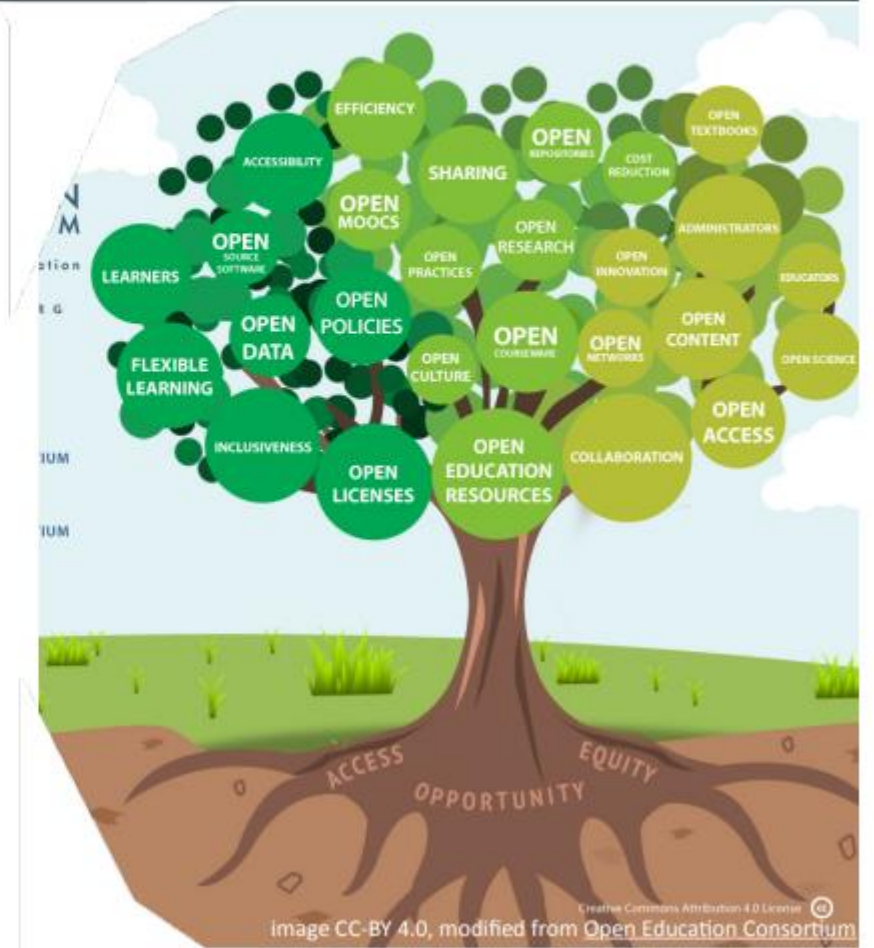
THE PLACE FOR INSTITUTIONAL REPOSITORIES

- Geneseo's institutional repository is student-centered in both content and promotion.
- Deliberately interdisciplinary at the front.

The screenshot displays the Geneseo KnightScholar website. The header features the 'GENESEO' logo and the 'KnightScholar' logo. A navigation menu includes 'HOME', 'POLICIES', 'EVENTS', 'FAQ', and 'MY ACCOUNT'. The main content area is titled 'SUSTAINABILITY CURRICULUM' and includes a breadcrumb trail: 'Home > Research, Scholarship, and Creative Works > Sustainability Curriculum'. A 'Follow' button is visible. The left sidebar contains sections for 'Browse' (Collections, Disciplines, Authors), 'Search' (with a search box and 'Advanced Search' link), 'Author Corner' (with an 'Author FAQ' link), and 'Links' (with links to 'Milne Library' and 'SUNY Geneseo'). Below the main content, there are links for 'Browse the Sustainability Curriculum Collections:' including 'About the Sustainability Curriculum', 'Global Environmental Politics', 'Principles of Ecology', and 'Student Work'. At the bottom, there are two download links: 'Top 10 Downloads' and 'Gain Beyond the One-Shot: Spiralize'.

OPEN KNOWLEDGE

- The roots of Open Knowledge are still the same: Access, Opportunity, and Equity.



HOW MIGHT YOU TAKE OPEN SCIENCE PRINCIPLES TO NON-SCIENCE RESEARCHERS?

- Link is in the Zoom chat
- <https://padlet.com/grunert/OS2>





CONCLUDING THOUGHTS

- International Open Access Week, October 19-25
- Repository upload-a-thon
- Informational sessions targeting non-science departments

QUESTIONS?

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