A new kind of dialogue
Open Science as a discourse topic
between libraries, researchers & societies

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Focus On Open Science

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ΒΙΒΛΙΟΘΗΚΗ & ΚΕΝΤΡΟ ΠΛΗΡΟΦΟΡΗΣΗΣ
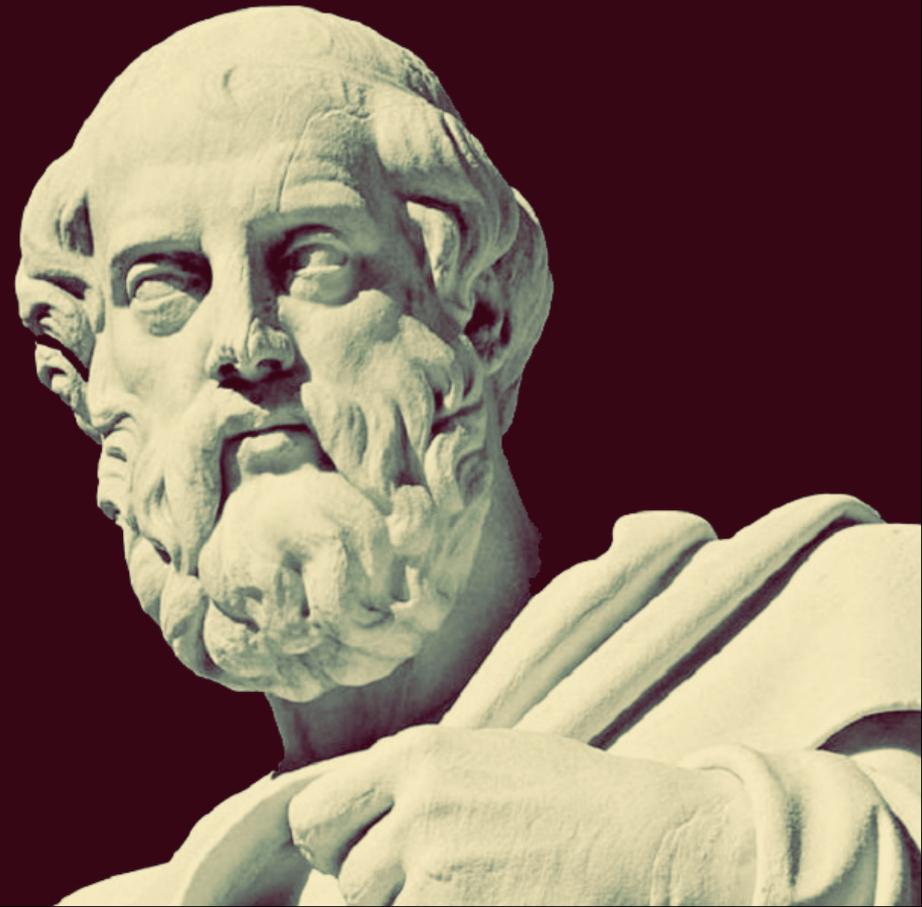ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ

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Why make a dialogue?

Plato's "Sophist"

- Part of a triple of dialogues for the Sophist, the Statesman and the Philosopher
- Through the dialectic process Plato seeks for the essence of things.
- Interested to define the Sophist and all of his kind.
- Explores the not-being and being.
- The Platonic dialogue requires the absence of contradiction.

σαφές, ὅτι τῶν γοήτων ἐστί τις, μιμητὴς ὢν
τῶν ὄντων, ἢ διστάζομεν ἔτι μὴ περὶ
ὅσωνπερ ἀντιλέγειν δοκεῖ δυνατὸς εἶναι,
περὶ τοσούτων καὶ τὰς ἐπιστήμας ἀληθῶς
ἔχων τυγχάνει;

Is this now clear, that he is a kind of a juggler,
an imitator of realities, or are we still
uncertain whether he may not truly possess
the knowledge of all the things about which
he seems to be able to argue?

Plato, Sophist, 235
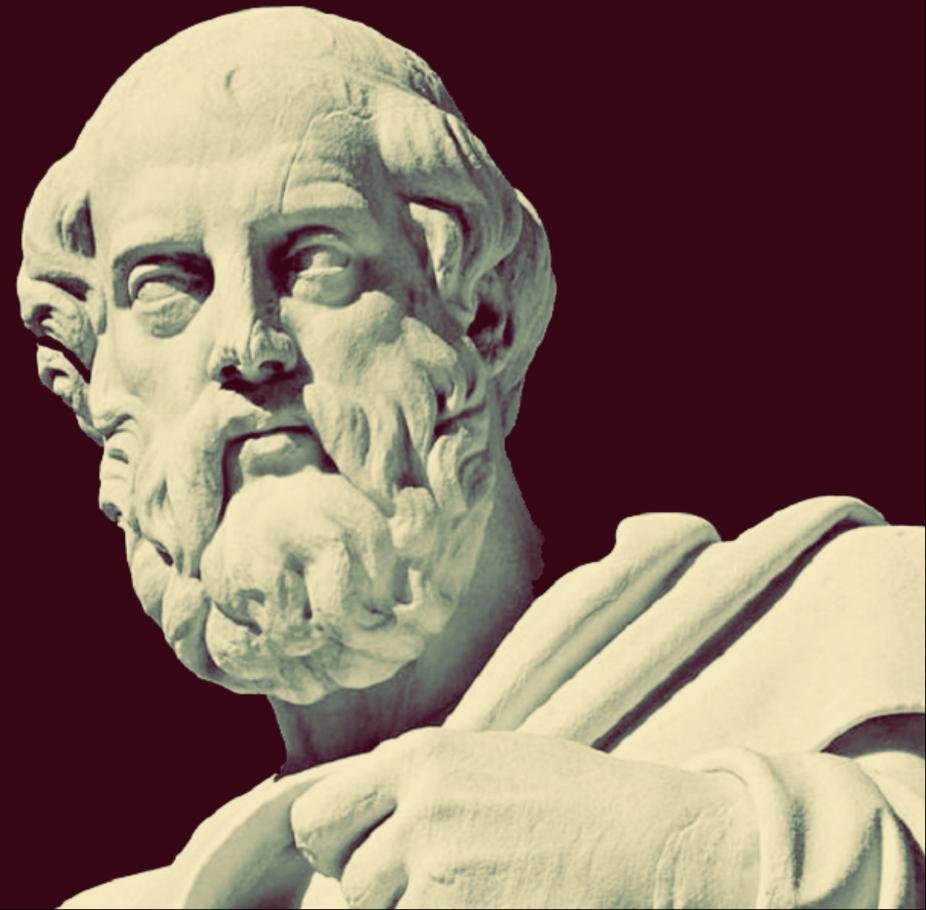
# Libraries Powering Sustainable Knowledge in the Digital Age

LIBER Strategy 2018-2022

Vision

the research landscape
in 2022

- Open Access is the main form of publishing.
- Research Data is Findable, Accessible, Interoperable and Reusable (FAIR).
- Digital Skills underpin a more open and transparent research life cycle.
- Research Infrastructure is participatory, tailored and scaled to the needs of the diverse disciplines.
- Tomorrow's cultural heritage is built on today's digital information.

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The Research Life Cycle

REUSING

PLANNING

ASSESSING

SUPPORTING

PUBLISHING

MANAGING

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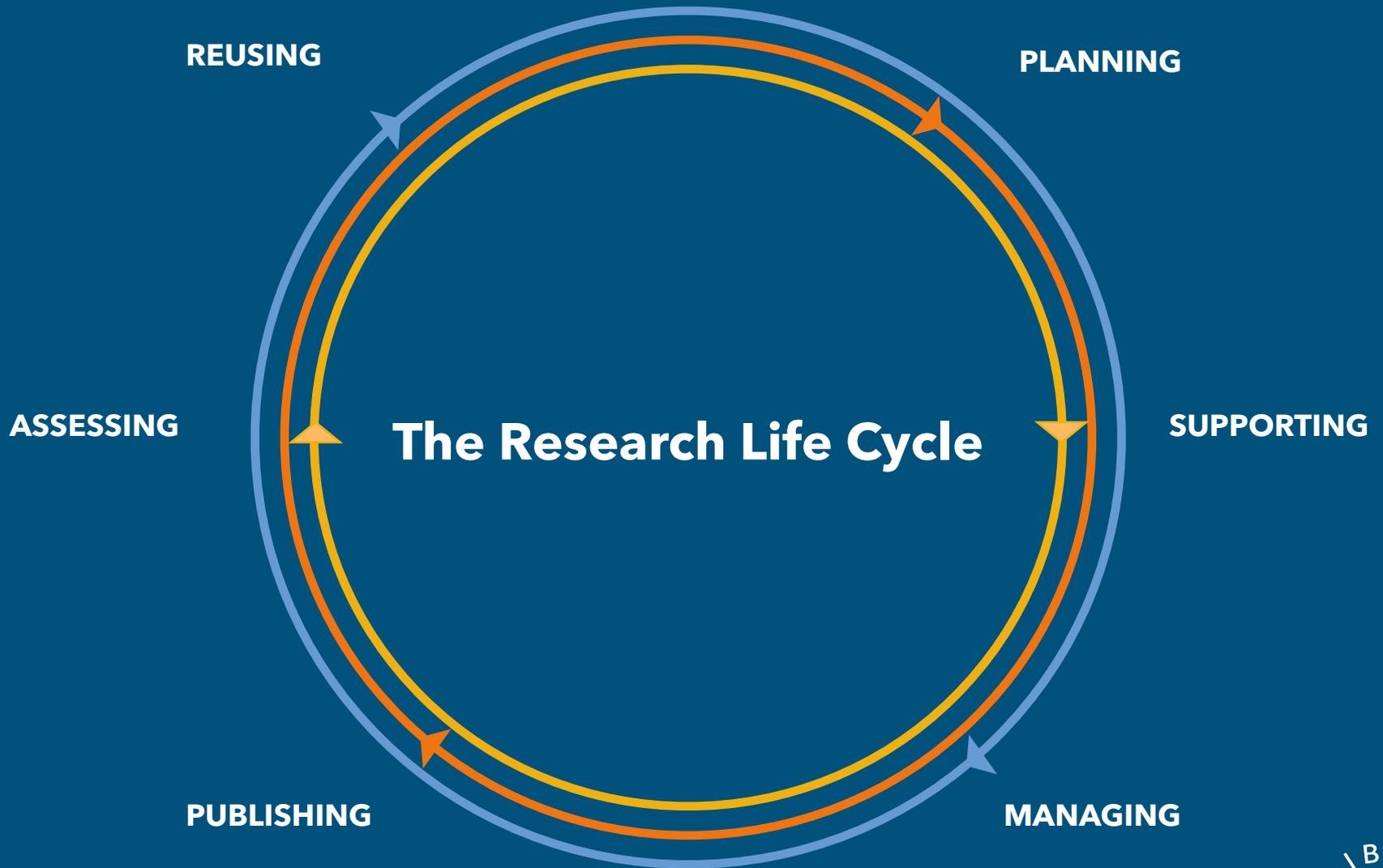
LIBRARIES SUPPORT THE ENTIRE RESEARCH PROCESS

1. PLANNING
- Develop Data Management Plans and support researchers in their implementation
- Develop and provide tools for FAIR data management
- Help researchers to manage their personal identifiers (ORCID, ISNI)
- Provide information about research funding possibilities

6. REUSING
- Raise awareness and provide training about reuse requirements
- Promote reuse with copyright and contract management, and through the use of Creative Commons licenses

2. SUPPORT
- Support acces... and database...
- Ensure your ... support rese... Open Scienc...
- Turn the libra... especially for s...

5. ASSESSING
- Participate in projects and pilots to learn about next-generation metrics
- Advance the adoption of next-generation metrics

4. PUBLISHING
- Encourage researchers and students to use Institutional Repositories for publishing
- Provide training in Open Access publishing and the requirements of publishers

3. MANAGING
- Ensure research outputs are interope... by supporting researchers in the use of identifiers, metadata and vocabularies
- Provide training in managing data sets, in programming languages, support in statistics and in using high computing power
- Develop infrastructures: Institutional Repositories for publications and data, ontologies and other tools to describe content

Cultural Change

The openness I am advocating would be a giant cultural shift in how science is done, a second open science revolution extending ... completing the first open science revolution, of the 17th and 18th centuries.[4]

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...y. This policy should be in-
...ed by the insights and needs of your library and users.

Reflecting a commitment to Open Science across all services. Provide a certified repository. Create a data catalogue. Publish content with a machine-readable license. Use open APIs to provide access to library services. Develop intelligent tools to automate metadata production and support FAIR data management during the entire data life-cycle. Ensure that contracts with publishers are transparent.

Sharing inspiring examples. Highlight your own library's successes and those of Open Science champions from across the community.

4 Bartling, S., & Friesike, S. (2014).
   Towards Another Scientific Revolution. Available at
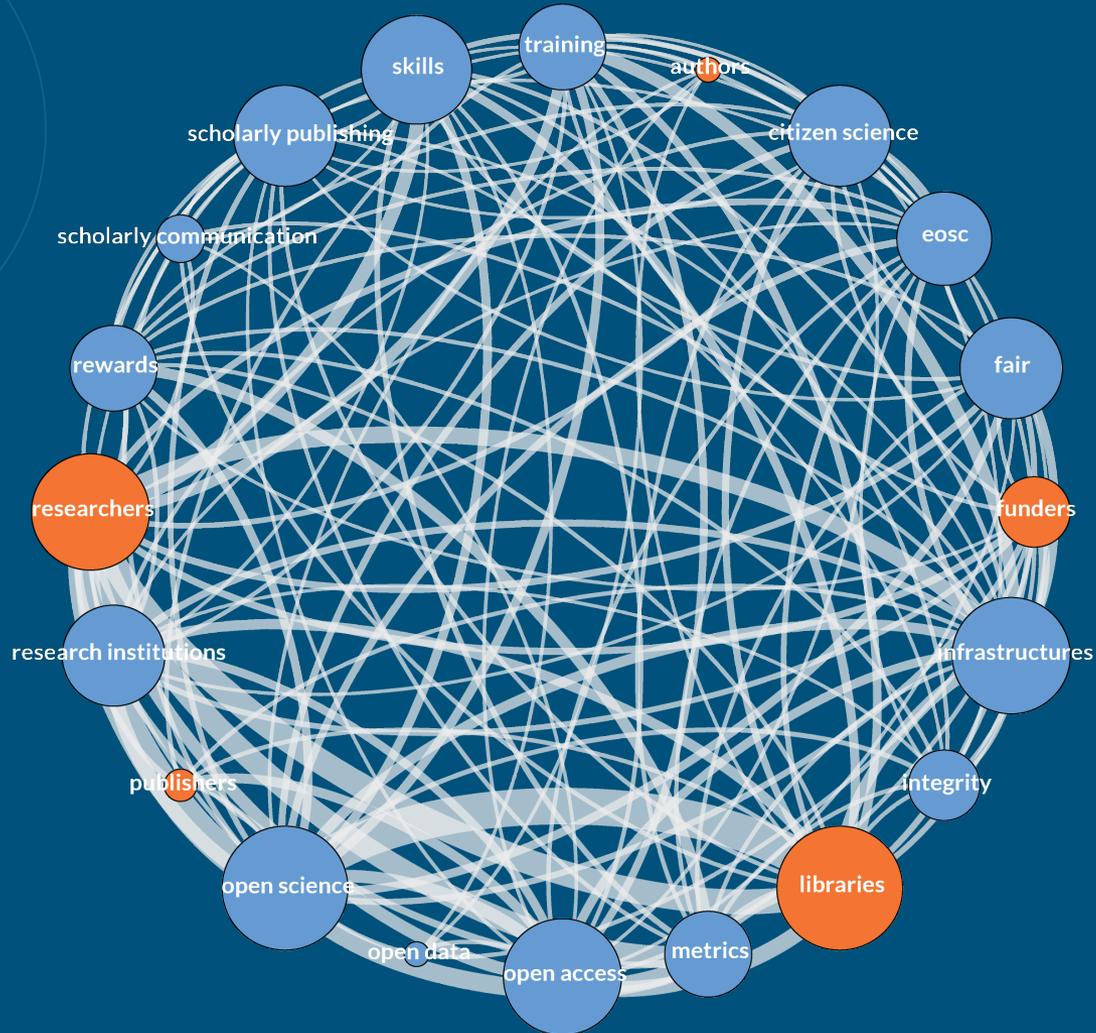   http://dx.doi.org/10.1007/978-3-319-00026-8_1

Topics

- Scholarly Publishing
- FAIR Data
- Research Infrastructure & the EOSC
- Metrics & Rewards
- Open Science Skills
- Research Integrity
- Citizen Science

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LIBER	OSPP	LERU
Scholarly Publishing	Future of Scholarly Communication	The future of scholarly publishing
FAIR Data	FAIR Data	FAIR Data
Research Infrastructure & the EOSC	The European Open Science Cloud (EOSC)	The European Open Science Cloud (EOSC)
Metrics & Rewards	Research Indicators & Next Generation Metrics	Next Generation Metrics
Open Science Skills	Skills & Education	Education & Skills
Research Integrity	Research Integrity	Research Integrity
Citizen Science	Citizen Science	Citizen Science
	Rewards & Incentives	Rewards & Incentives

Topics

skills • training • authors • scholarly publishing • citizen science • scholarly communication • eosc • rewards • fair • researchers • funders • research institutions • infrastructures • publishers • integrity • open science • libraries • open data • open access • metrics

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Topic 1
Scholarly Publishing

- Ensure an Open Science policy or Open Access mandate is in place at your institution.
- Directly champion Open Science by embracing a new role as a direct publisher of information.
- Commit to following LIBER's licensing principles for Open Access negotiations when negotiating with publishers.
- Examine new models for journal delivery such as mega journals, a format popular with research funders.

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Topic 2
FAIR Data

- Invest in staff with good data skills and train personnel to promote FAIR principles.
- Work to make the use of FAIR-compliant Output and Data Management Plans (OMPs/DMPs) mandatory.
- Develop and provide certified repositories and intelligent tools for researchers to support FAIR data management.
- Automate metadata production and incorporate the FAIR principles in your digital preservation practices and policies.
- Advocate for copyright legislation which supports FAIR data.
- Share best practices and case studies in the implementation of FAIR principles.

Topic 3
Research Infrastructure & the EOSC

- Link your institution's strategies and policies to the EOSC to maintain the highest possible standard of data infrastructures offered.
- Promote the EOSC to your community as both a source of information and a place to publish research outputs.
- Advocate for your institution to embed infrastructure training into the curricula of students and doctoral students.
- Contribute to the ongoing development of the EOSC by offering feedback and by sharing best practices which support Open Science.

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Topic 4
Metrics & Rewards

- Endorse the San Francisco Declaration on Research Assessment (DORA) and the Leiden Manifesto.
- Collaborate with stakeholders to develop next-generation metrics which focus on evidence-based quantitative and qualitative indicators.
- Work with funding bodies and institutional HR departments to develop new methods of assessing and rewarding researchers.
- Retain high standards, both ethical and technical, when reporting metrics and indicators for individual researchers.

Topic 5
Open Science Skills

- Coordinate with other partners to provide a multidisciplinary one-stop-shop for researchers to support them in Open Science workflows.
- Incorporate Open Science skills in the academic training programmes of students.
- Provide innovative digital training materials and courses to support (and monitor) skills development.
- Build on your library's expertise to organise relevant new skills, expertise and competencies in the different areas of Open Science.

Topic 6
Research Integrity

- Participate in establishing Codes of Conduct for Research Integrity within your institution.
- Train researchers about the legal and ethical aspects of scholarly communication, scholarly publishing, information competencies, copyright, data management and Open Science.
- Provide services to counter malpractice and questionable conduct of research, such as counter-plagiarism services and publication strategy tools.

Topic 7
Citizen Science

- Promote the library as an active partner in Citizen Science and develop the necessary infrastructure to effectively support public researchers.
- Use the library as an organizing and managing body to ensure that responsible conduct and good scholarly practice are respected when participating in Citizen Science.
- Develop a set of guidelines including methodologies and policies for Citizen Science activities involving the library.
- Develop the necessary skills to be a strong and active partner in Citizen Science.

Cultural Change

a transparent, sustainable & collaborative way of practicing Open Science

- **Spread the words & ideas:** Foster a common understanding. Highlight the importance of OS & make people think the same.

- **Develop OS policies & strategies:** Write your vision and the ways to achieve it 'on paper'. Include all relevant parties.

- **Reflect your commitment to OS:** Practice what you preach in all aspects of your work.

- **Share good examples:** People often learn by example. Be one and show how other people, such as researchers, are practicing OS.

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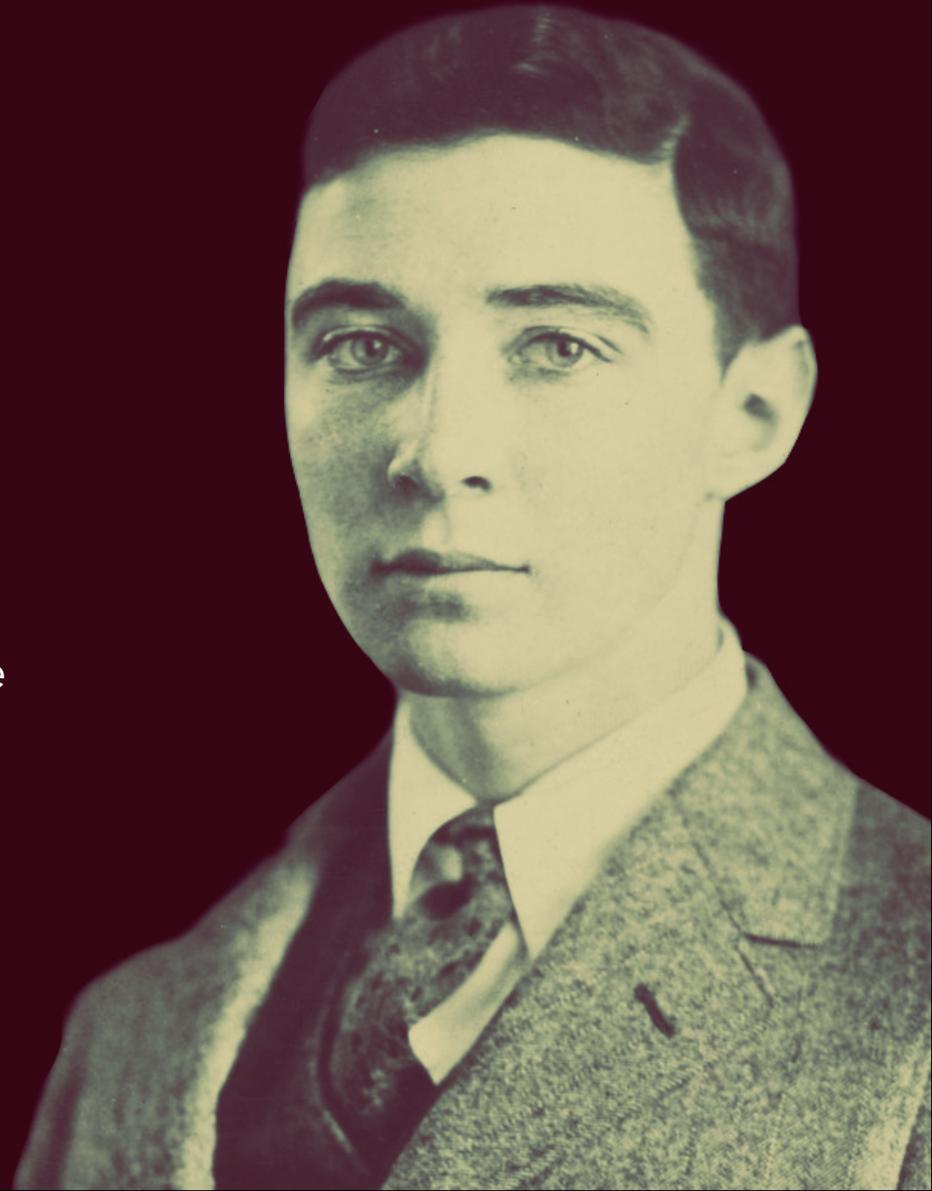*Why make a dialogue? - Revisit*
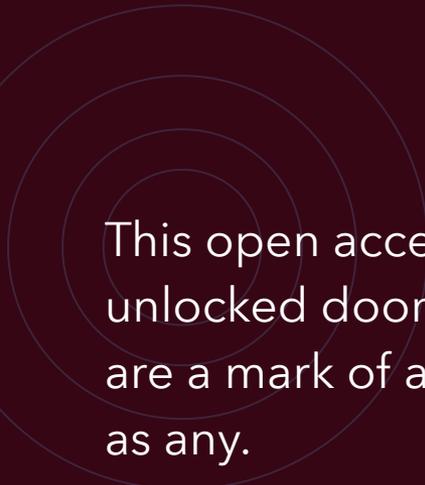
This open access to knowledge, these unlocked doors and signs of welcome, are a mark of a freedom as fundamental as any.

They give a freedom to resolve difference by converse, and, where converse does not unite, to let tolerance compose diversity.

J. Robert Oppenheimer

Thank you for your attention!
Questions?

References

Plato's text by Perseus DL:
http://data.perseus.org/citations/urn:cts:greekLit:tlg0059.tlg007.perseus-eng1:235
J. Robert Oppenheimer's quote: Science and the Common Understanding, 1953 /
photo: Harvard University Archive

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