

KQ CODES TECH QUARTER SOCIAL

Accelerating discovery with open research data

JUNE 15, 2022

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Part I

—

2005



https://en.wikipedia.org/wiki/IPhone_1st_generation

1. Limit redundant effort

2. Enable collaboration

3. Support individual growth

4. Fix failures

5. Accelerate discovery

2022


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Google

Google engineer put on leave after saying AI chatbot has become sentient

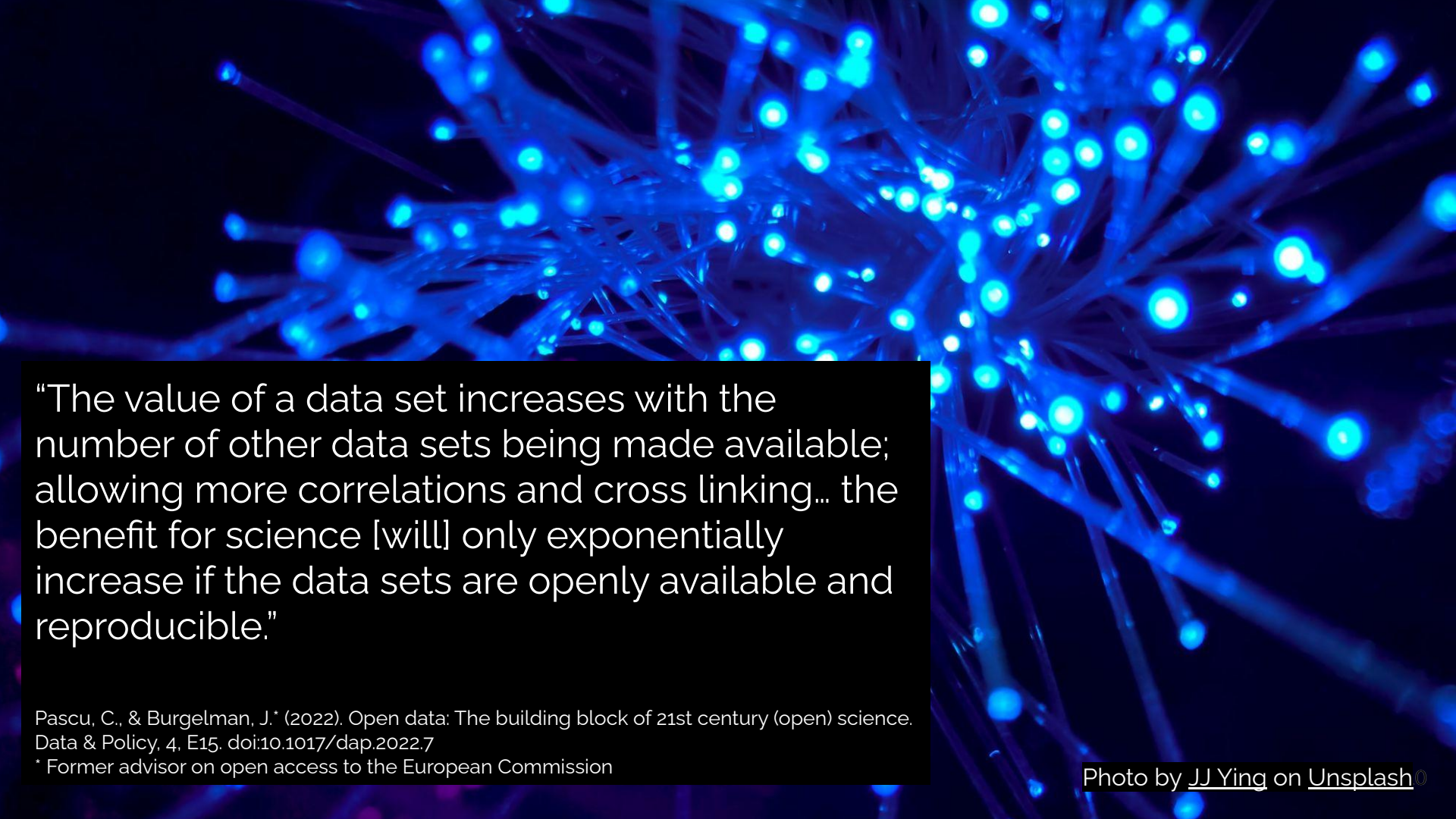
Blake Lemoine says system has perception of, and ability to express thoughts and feelings equivalent to a human child

Richard Luscombe

@richlusc

Sun 12 Jun 2022 18.36 BST

<https://www.theguardian.com/technology/2022/jun/12/google-engineer-ai-bot-sentient-blake-lemoine>



“The value of a data set increases with the number of other data sets being made available; allowing more correlations and cross linking... the benefit for science [will] only exponentially increase if the data sets are openly available and reproducible.”

Pascu, C., & Burgelman, J.* (2022). Open data: The building block of 21st century (open) science. *Data & Policy*, 4, E15. doi:10.1017/dap.2022.7

* Former advisor on open access to the European Commission

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Part II



Image CCo <https://en.wikipedia.org/wiki/File:Snow-cholera-map-1.jpg>



1. Systems (a lot of systems!)

2. Policy

[Home](#) > [Data Management and Sharing Policy](#) > [Data Management & Sharing Policy Overview](#)

Data Management & Sharing Policy Overview

Learn what is expected of investigators and institutions under the 2003 NIH Data Sharing Policy and the 2023 NIH Data Management & Sharing Policy.

Applications for Receipt Dates
BEFORE Jan 25 2023

Applications for Receipt Dates
ON/AFTER Jan 25 2023

Applications for Receipt Dates ON/AFTER Jan 25 2023

ON THIS PAGE:

- [Why Share Data](#)
- [Expectations Under NIH's Data Management & Sharing Policy](#)
- [Applicability & Effective Date](#)
- [Compliance](#)

Why Share Data

Sharing scientific data accelerates biomedical research discovery, enhances research rigor and reproducibility, provides accessibility to high-value datasets, and promotes data reuse for future research studies.

Ultimately, the sharing of scientific data expedites the translation of research results into knowledge, products, and procedures to improve human health.

Expectations Under NIH's Data Management & Sharing Policy

Under the [Data Management & Sharing \(DMS\) Policy](#), NIH requires researchers to prospectively plan for how scientific data will be preserved and shared through submission of a Data Management and Sharing Plan.

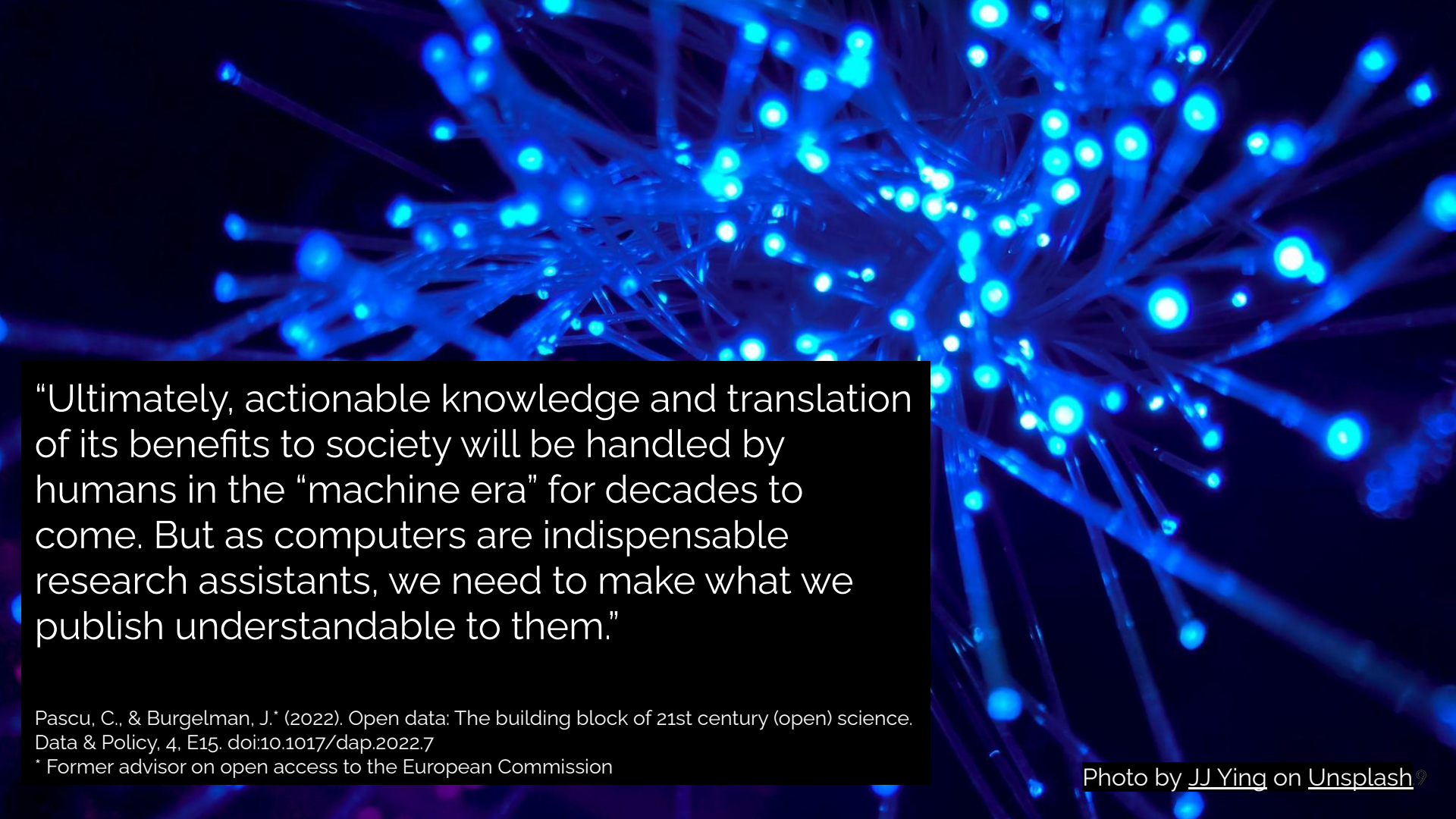
[FAQs](#)

“Ultimately, the sharing of scientific data expedites the translation of research results into knowledge, products, and procedures to improve human health.”

<https://sharing.nih.gov/data-management-and-sharing-policy/about-data-management-sharing-policy/data-management-and-sharing-policy-overview#after>

3. Practice

4. Curation



“Ultimately, actionable knowledge and translation of its benefits to society will be handled by humans in the “machine era” for decades to come. But as computers are indispensable research assistants, we need to make what we publish understandable to them.”

Pascu, C., & Burgelman, J.* (2022). Open data: The building block of 21st century (open) science. *Data & Policy*, 4, E15. doi:10.1017/dap.2022.7

* Former advisor on open access to the European Commission

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5. Software

6. Power to realise

Part III

- 1. More data / data sharing**
- 2. Enable reuse and discovery**
- 3. Demonstrate reuse**
- 4. Extend credit**



DRYAD



DRYAD

An Open Data Publishing Platform & Community

**Vision: All research data is openly available
and routinely re-used**

Mission: Enable and promote the re-use of research data

AN OPEN DATA PUBLISHING PLATFORM & COMMUNITY

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- Exclusively research data
- Fully curated



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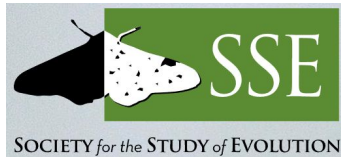
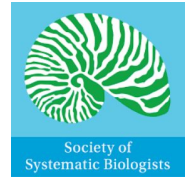


THE ROYAL SOCIETY

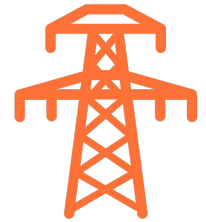
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Principles
of Open
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Infrastructure

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