DRAFT

<div align="center">

Presidents' Convening on Open Scholarship
October 11, 2021

</div>

This brief summary of the October 11, 2021 event is intended to summarize high level messages for the use of university leaders and institutional representatives.

Keith Yamamoto, Co-Chair of the Roundtable on Aligning Incentives for Open Science and Special Advisor to the Chancellor for Science Policy and Strategy, University of California-San Francisco, welcomed participants, and expressed the hope that this convening will help lay the groundwork for the next phase of Roundtable activity, which will involve great engagement with the broader academic community.

<u>**Presidents' panel on how open scholarship advances institutional mission**</u>

- According to **Michael Crow, President of Arizona State University,** difficulties in addressing current challenges illustrate that we have reached the design limits of what the semi-closed research paradigm. Embracing an open paradigm will allow institutions to: (1) overcome the "hero model" that has dominated notions of scholarly progress and move to more collaborative models, (2) address issues that require scholarship to transcend silos (e.g. global climate change), (3) harness human creativity to achieve breakthroughs, and (4) translate between the intellectual dialects that act as barriers to communication between disciplines.

- For **Roslyn Artis, President of Benedict College**, embracing open scholarship is a practical imperative. For a small liberal arts institution whose faculty is doing cutting edge research, openness offers the opportunity to engage strategically with partners in advancing knowledge and accessing capabilities beyond its own campus. As president, a key imperative is to establish an open culture from the top. Benedict is articulating open as a part of its strategic plan in order to ensure that the institution has a seat at the table in developing answers to complex problems we are currently facing.

- **Danny Anderson, President of Trinity University,** discussed how he makes the case for open scholarship at a primarily undergraduate institution where research is central. Currently, there is a mismatch between incentive structures that emphasize individual achievement and the pressing need for collective contributions. Smart organizations are able to use collective intelligence in ways that are different from those that prioritize the individual. In an age when research is undervalued by society, open scholarship can be a great reminder of the need to create knowledge that serves society.

- **Ronald Daniels, President of Johns Hopkins University** sees open scholarship as a critical component of the future of discovery at his institution and beyond. Openness has the potential to massively accelerate the pace of discovery. Open scholarship can also be

<div align="center">1</div>

crucial in strengthening democracy by restoring trust in expertise and rebuilding society's sense of shared facts in the face of polarization and division. Moving toward open scholarship while protecting key values such as integrity and rigor will enable higher education to support and guide future generations of scholars.

Randolph Hall, Professor of Industrial and Systems Engineering, University of Southern California, moderated the discussion. Panelists discussed the challenges of balancing faculty independence and broader responsibilities, how competition between institutions might be harnessed in the service of advancing openness, the role of students, and working with other institutional stakeholders such as trustees and funders.

Research stakeholders panel on aligning activities and incentives to support open scholarship

- **Jerry Sheehan, Assistant Director for Scientific Data and Information, White House Office of Science and Technology Policy,** discussed how the federal sector can serve as both partners and provocateurs in advancing open science. Maximizing the value of taxpayer investments in research and ensuring that results are widely available are key public interests. Agencies can help develop solutions to common problems and establish policy mandates that promote access and create a level playing field. Current areas of focus for open scholarship efforts include equity, security and privacy, infrastructure, and ease of use.

- **Kathy Richmond, Executive Vice President and Director, Office of Science and Technology, Paul G. Allen Frontiers Group,** described how open science, team science and big science are pillars of her organization. Over 16 petabytes of data have been shared in open formats since the institute was launched in 2003. Every year, over 400,000 unique users view the institute's brain map atlases. This visionary experiment demonstrates the feasibility and value of open approaches while serving to train the next generation of students, which will further develop innovative approaches to open science.

- **Randy Fiser, Executive Director and CEO of the American Geophysical Union** described AGU's commitment to open scholarship and the practical steps being taken to implement it. In addition to its general position statement on openness and expanded use of preprints, AGU is working to foster a culture of support for open science with integrity. Major challenges moving forward include securing global funding for infrastructure and repositories and changing culture across communities.

- **Paul Boselie, Project Leader, Utrecht University (Netherlands) Recognition and Rewards Scheme** provided an international perspective on open scholarship. Key themes in his institution's open strategy include (1) open access, (2) FAIR data and software, (3) public engagement, and (4) recognition and rewards. They are putting much emphasis on training leaders in how new forms of recognition and rewards can foster open science. They have also developed an implementation strategy at the level of faculty and early career academics.

The discussion focused what the NASEM Roundtable could do to help advance open scholarship efforts at institutions. Participants cited the convening, "matchmaker" role that the Roundtable cam play, efforts to overcome the perception that open science activities are unfunded mandates, and sharing updates and success stories with institutional leaders.

Greg Tananbaum, Director, Open Research Funders Group and Coordinator of the Roundtable, outlined the next steps in launching an Open Scholarship Community of Practice (COP). The Roundtable will follow up with a request for commitments to be sent by November 15, and the expectation that the COP will formally launch in early 2022.

Resources Linked in the Chat

- Marcia McNutt article on advancing equity, diversity and inclusion in scientific organizations: https://www.pnas.org/content/117/28/16090
- Developing a Toolkit for Fostering Open Science Practices Workshop Proceedings: https://www.nap.edu/catalog/26308/developing-a-toolkit-for-fostering-open-science-practices-proceedings-of#overview
- Kathleen Fitzpatrick book, Generous Thinking: A Radical Approach to Saving the University: https://jhupbooks.press.jhu.edu/title/generous-thinking
- Ron Daniels book, What Universities Owe Democracy: https://muse.jhu.edu/book/97330/pdf
- Research integrity: Don't let transparency damage science: https://www.nature.com/articles/529459a
- Utrecht University webpage on Recognition and Rewards for Open Science: https://www.uu.nl/en/research/open-science/tracks/recognition-and-rewards
- Open Guidelines for the University of Virginia School of Data Science: https://api.dsi.virginia.edu/sites/default/files/attachments/2021-02/School%20of%20Data%20Science%20Open%20Access%20Guidelines%20%26%20Recommendations.pdf
- Stanford University Center for Open and Reproducible Science awards: https://datascience.stanford.edu/news/cores-champion-and-innovator-award-winners
- Johns Hopkins University Open Source Programs Office: https://drcc.library.jhu.edu/open-source-programs-office/
- Rochester Institute of Technology Open@RIT: https://openr.it/
- JHU Partnership with Community Center in Baltimore: https://lutece.paris.fr/lutece/blog/new-contributors-from-the-johns-hopkins-university.html
- NIST Research Data Framework: https://www.nist.gov/programs-projects/research-data-framework-rdaf