

Jun 3rd, 12:00 AM

Publication Integration at Purdue: A Comprehensive Publication Workflow for Traditional Publications and Data Publications

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David Scherer, Lisa Zilinski, and Courtney E. Matthews, "Publication Integration at Purdue: A Comprehensive Publication Workflow for Traditional Publications and Data Publications." *Proceedings of the IATUL Conferences*. Paper 10.
<https://docs.lib.purdue.edu/iatul/2014/posters/10>

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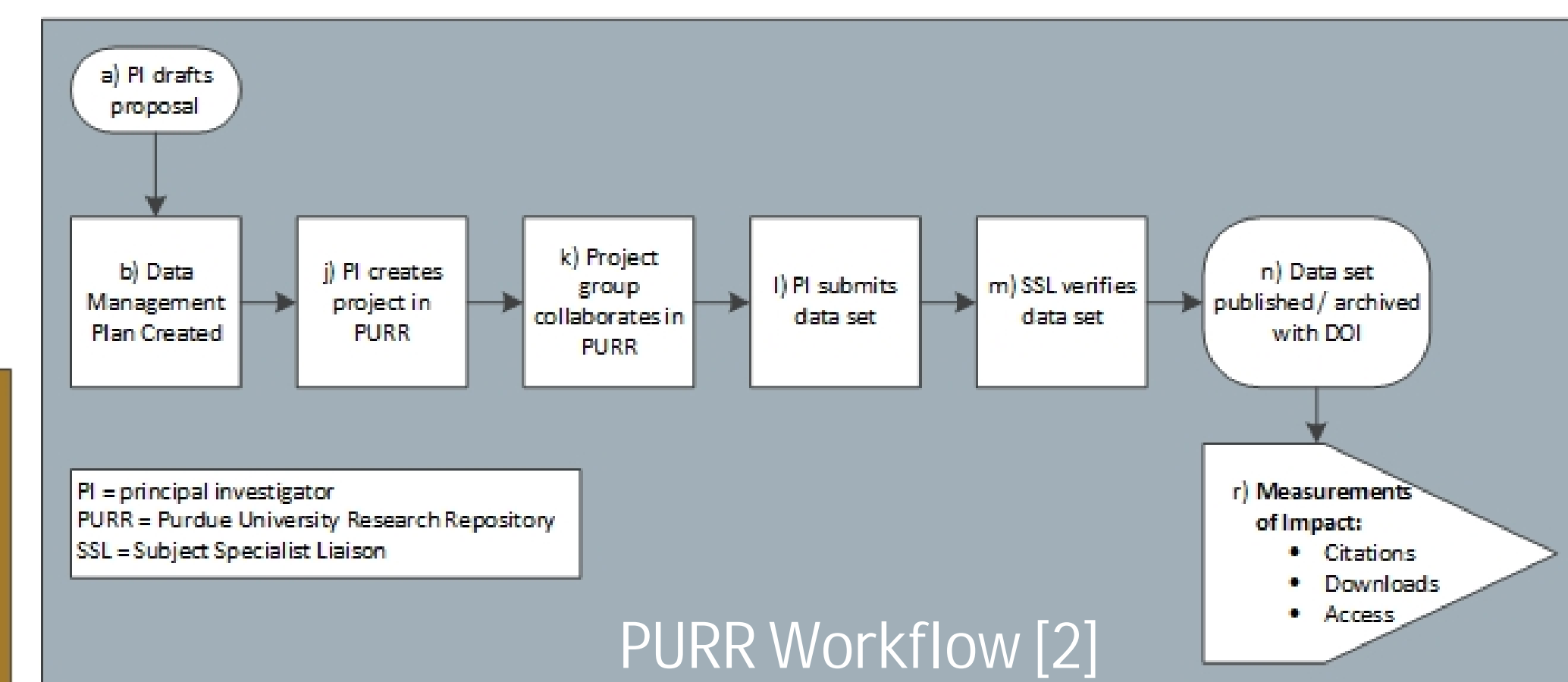
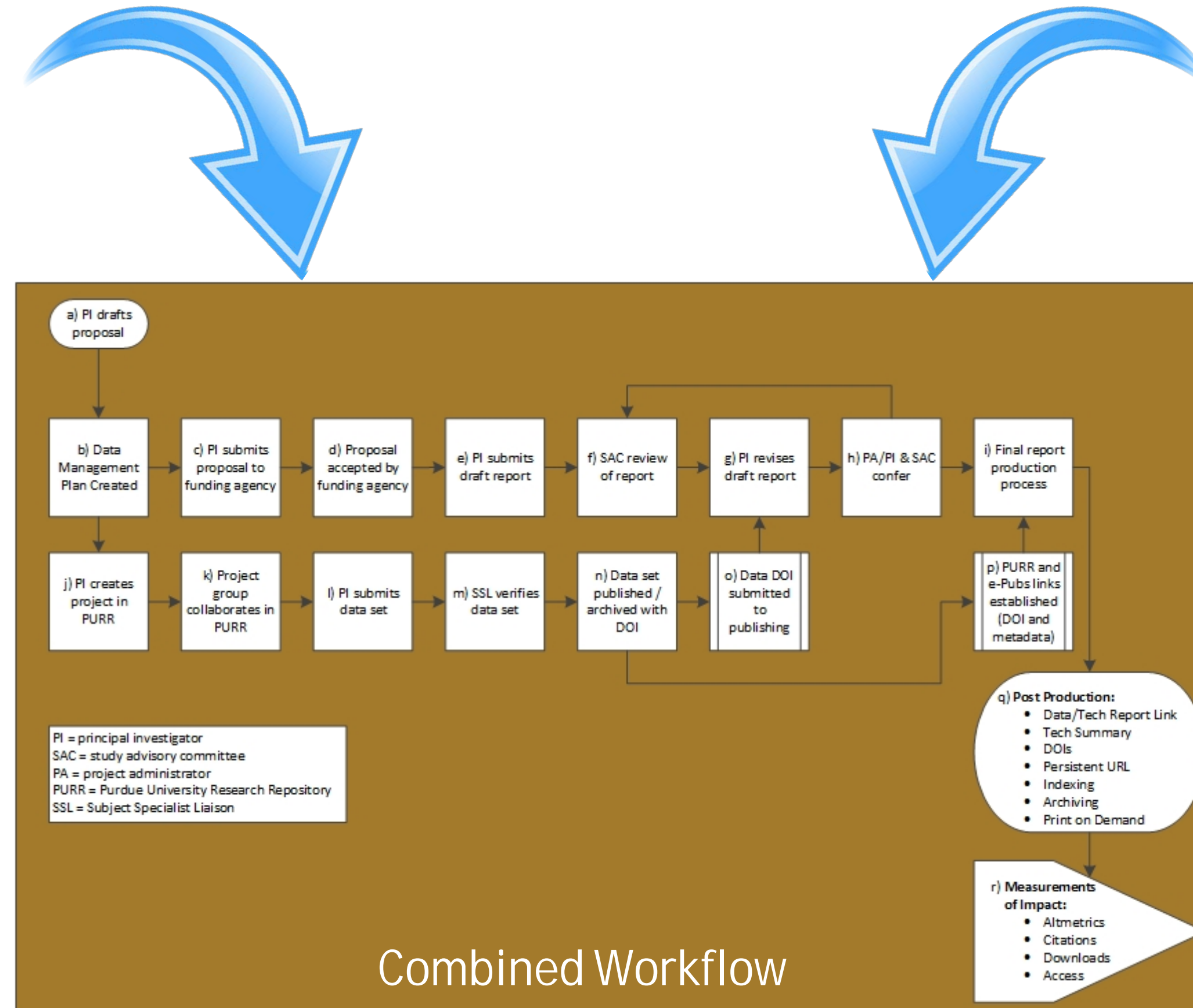
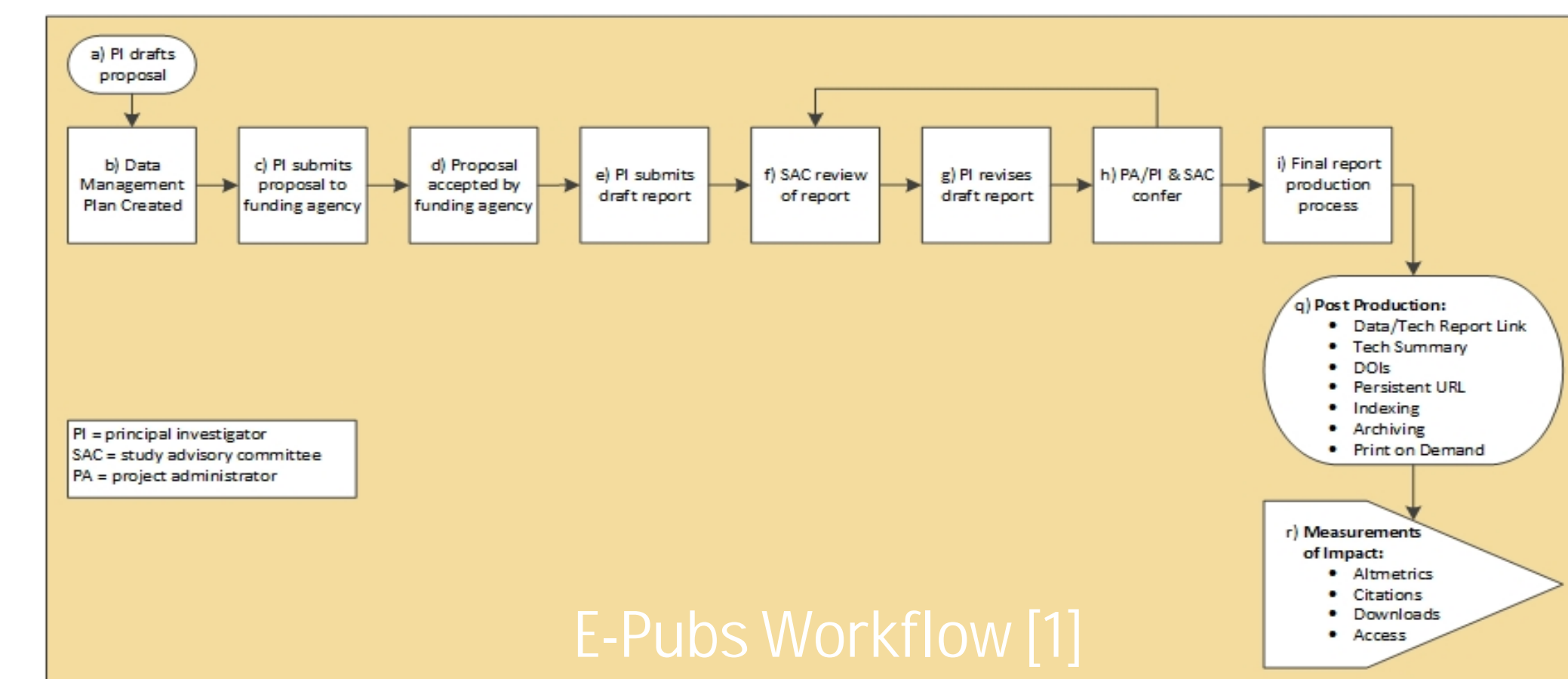
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INTRODUCTION

Purdue University has developed a comprehensive publication workflow to integrate discrete data publications with traditional scholarly publications through leveraging new and existing repository platforms and library services throughout the research lifecycle. This poster will illustrate this early initiative between the Purdue e-Pubs Repository, the Purdue University Research Repository (PURR), and the Joint Transportation Research Program (JTRP). With this new initiative the Purdue repositories can now provide Purdue faculty, graduate students, and staff an integrated solution for the publishing and linkage of discrete scholarly publications and research data.



BACKGROUND

Many funders around the world have begun to recognize the importance of providing free access to research results, which includes publications and data. There has also been an increased interest in the management, dissemination, and access of research data, leading to an increase in the development of research data repositories and the linkage of data to publications. One example is Dryad, a curated general-purpose repository that makes the data underlying scientific publications discoverable, freely reusable, and citable. A highlight of the Dryad repository is the submission integration service to authors and publishers, which integrates the submission of publication manuscripts with the submission of data to Dryad.

Published in 2012, "Engaging New Partners in Transportation Research: Integrating Publishing, Archiving, Indexing of Technical Literature into the Research Process" by Newton et Al, reported that by creating a workflow model that leveraged the publishing and repository services, resources, and expertise of the libraries and press, JTRP researchers were able to increase discoverability and add value to the reports. In February of 2013 the Libraries discussed the existing Libraries relationship with JTRP and explored how we could build on this relationship to integrate data publishing with PURR into this established process.

INTEGRATION

Working with our JTRP collaborators we identified two Civil Engineers Dr. Amit Varma and PhD candidate Youngmoo Sohn who were working on a technical report that contained video data: "Effects of the Realistic Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges."

The Digital Data Repository Specialist then worked with the JTRP Production editor and the authors to stage the 10 datasets in PURR. Once the dataset DOIs were assigned the JTRP production editor inserted them into the draft technical report. In the final step, both metadata linking the tech report to datasets and vice-versa were added to the PURR and E-pubs resource records (as viewable from the QR codes).

The included images illustrate these links. The Purdue e-Pubs "Recommended Citation" is provided in the "Citations" tab of the PURR record. The PURR "Cite this work" recommendation is included in the "Comments" field of the Purdue e-Pubs record. The final scholarly communications package consists of the digital technical report with DOI in Purdue e-pubs containing DOIs that resolve to the 10 datasets in PURR and the 10 datasets in PURR that contain a DOI that resolves to the technical report in Purdue e-Pubs.

e-Pubs and **Purdue University Research Repository (PURR)** screenshots showing technical reports and their associated data links.

The e-Pubs screenshot shows a technical report titled "Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges" by Amit H. Varma and Youngmoo Sohn. It includes a "Recommended Citation" section and a "Cite this work" section with a QR code.

The PURR screenshot shows the same report with a "Cite this work" section that includes a "Citations" tab and a "Comments" field. It also includes a QR code.

References

Newton, M.P., D.M. Bullock, C. Watkinson, P.J. Bracke, and D. Horton. "Engaging New Partners in Transportation Research: Integrating Publishing, Archiving, Indexing of Technical Literature into the Research Process." *Transportation Research Record: Journal of the Transportation Research Board*, No. 2291, Transportation Research Board of the National Academies, Washington, D. C., pp. 111-123, 2012. doi: 10.3141/2291-13.

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