

## CC\*DNI DIBBS: Merging Science and Cyberinfrastructure Pathways: The Whole Tale

**PI**: Bertram Ludäscher<sup>1</sup>, **Co-Pis:** Victoria Stodden<sup>1</sup>, Matthew Turk<sup>1</sup>, Niall Gaffney<sup>2</sup>, Kyle Chard<sup>3</sup>, Matt Jones<sup>4</sup>, Jaroslaw Nabrzyski<sup>5</sup>



Institutions: <sup>1</sup> University of Illinois at Urbana-Champaign, <sup>2</sup> University of Texas at Austin, <sup>3</sup> University of Chicago, <sup>4</sup> University of California, Santa Barbara, <sup>5</sup> University of Notre Dame

- Scalable open-source platform for reproducible research
- Researchers can create, publish, and execute reproducible research objects
- Analyze data from nearly 100 repositories:
  DataONE network, Dataverse network, Globus,
  Zenodo, ...
- Publish research objects to DataONE nodes,
  Zenodo, ... Dataverse, ...
- Use popular research environments: Jupyter,
  RStudio, Matlab, ... Stata, ...
- Create standards-based archival research artifacts that editors increasingly want for verification of computational research
- Automated capture of computational provenance information for improved transparency







