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Beyond Migration: Understanding the Effects of Repository Migration on User Experiences and Repository Services

David Scherer
Carnegie Mellon University

Et al.

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Beyond Migration

Understanding the Effects of Repository Migration on User Experiences and Repository Services

David Scherer, *Carnegie Mellon University*

Katie Behrman, *Carnegie Mellon University*

Chris Kellen, *Carnegie Mellon University*



Carnegie Mellon University

BACKGROUND

Introduction

Carnegie Mellon University

Founded in 1900 by Andrew Carnegie

14,458 students from 109 countries

47%UG, 53% Grad

1,391 Faculty from 51 countries

BIG IDEAS THAT SHAPE YOUR WORLD START HERE



1,000+ companies greenlighted across the U.S. and internationally



Cognitive tutors, which improve the math skills of 500,000+ students each year



The first U.S. school to award a **degree in drama** in 1914



James Gosling (CS 1983) invented the **Java computer programming language**.



The first **exclusive higher education partner of the Tony Awards®**, co-creating the first, national recognition program honoring K-12 theatre educators



The **first smile in an email**, created in 1982 by professor Scott Fahlman



Kevlar Fiber, invented by alumna Stephanie Kwolek (MM 1946)



The Last Lecture, written by alumni Randy Pausch (CS 1988) and Jeffrey Zaslow (DC 1980)



In 1919, **CMU's first Ph.D.** was awarded to Mao Yisheng, father of Chinese bridge construction.



Duolingo, invented by professor Luis von Ahn (CS 2003, 2005), had 10 million downloads in 12 months and was named Apple's 2013 app of the year.



The **leading university center for cybersecurity**, providing support to more than 110 centers around the world



The **world's first university robotics department**, founded in 1979



Alumnus **Andy Warhol** (A 1949), pop artist pioneer and cultural icon



One of only 25 universities invited to be a member of the **World Economic Forum's Global University Leaders Forum**

My Heart is in the Work



Source: CMU Fact Sheet

<https://www.cmu.edu/assets/pdfs/cmu-fact-sheet-18Jan19.pdf>

**Carnegie
Mellon
University**

Repository Landscape at CMU (Pre-2017)

Traditional IR

Archives



Data Repository



Research Showcase Repository

Est. 2008

Digital Commons platform

Traditional IR/ETD repository

No usage of DC
Publishing Platform

Not designed to handle
Research Data/Unique Content

Carnegie Mellon University Research Showcase @ CMU

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Browse Research and Scholarship

[Research unit, center, or department](#)

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Research Showcase @ CMU is Carnegie Mellon University's institutional repository, preserving and providing online open access to work produced by CMU faculty and students. Journal articles, conference papers and presentations, books and book chapters, technical reports, Ph.D. dissertations, Master's theses, and selected undergraduate student works authored by members of the Carnegie Mellon community are available through the repository. Open access is strategic for Carnegie Mellon and the University Libraries is committed to preserving the content in Research Showcase @ CMU.

Please [contact us](#) for more information or with questions or suggestions.

Evolution of Repository Services at CMU

October 2008 – Creation of Research Showcase Repository (Digital Commons)

February 2015 – First dataset accepted by CMU Libraries, added to archival repository

February 2015 – CMU evaluates repository solutions for new data repository and other repository needs

October 2015 – Formation of the Digital Repository Task Force to evaluate repository solutions

October 2015 - May 2016 – CMU Evaluates RIM Systems and related platforms and services

February 2017 – CMU and Digital Science announce strategic development partnership

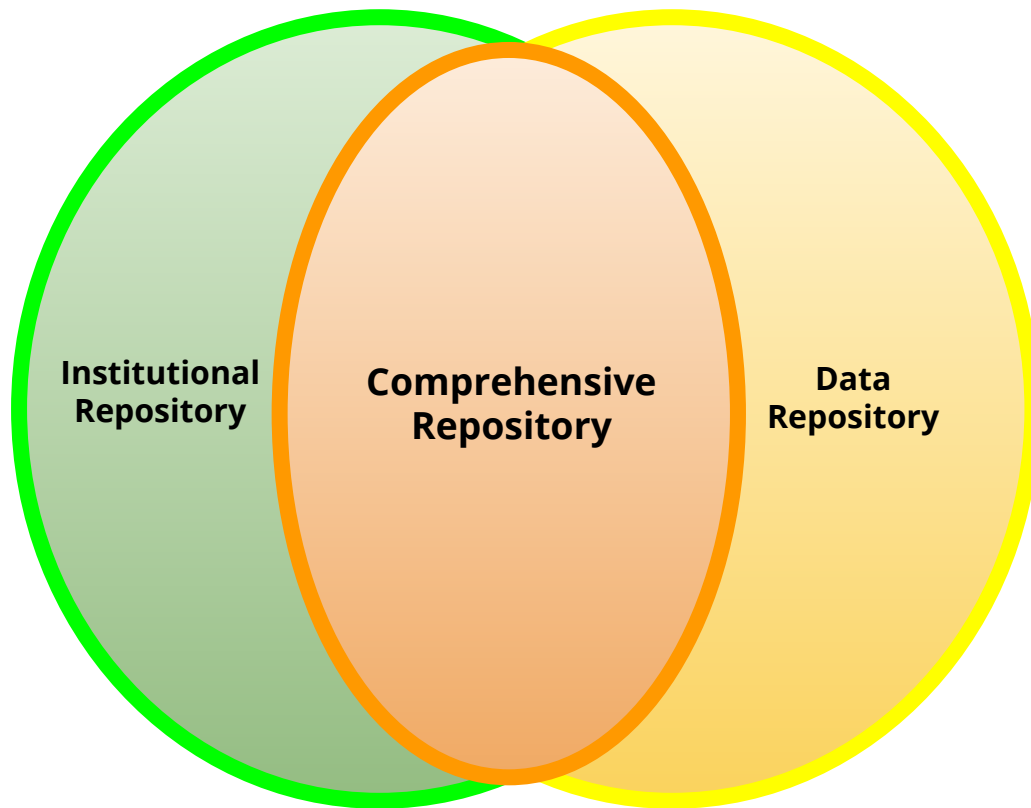
February – March 2017 – CMU Libraries conducts campus-wide naming contest for new repository

April 2017 - KiltHub Repository becomes operational, deposits first dataset



Carnegie Mellon University

KiltHub Repository



KiltHub

WEAVING THE FABRIC OF YOUR RESEARCH

🐦 @KILTHUB | KILTHUB.CMU.EDU

Weaving the Fabric of Research: The Warp and Weft

Research Data

A dataset is typically a file or collection of files and its corresponding metadata. This metadata may include preservation and presentation information, as well as annotations and ancillary content that is associated with the data. KiltHub is limited in scope to the raw data, or data that supports the claims made in publications/presentations/figures.

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When evaluating scholarly outputs for inclusion in KiltHub, *scholarly outputs* should be broadly understood to mean the published or otherwise publicly presented outputs, created by individuals or units within Carnegie Mellon University in the course of their scholarly or professional work that represents the intellectual life and academic endeavor of the university, and may have enduring value.

kilthub.cmu.edu



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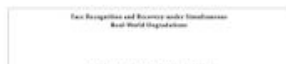
SEARCH

19,025 posts

1,214,917 views

7,052,577 downloads

more stats...



KiltHub

Provided by the University Libraries, **KiltHub** (kilthub.cmu.edu) is the comprehensive institutional repository and research collaboration platform for research data and scholarly outputs produced by members of Carnegie Mellon University and their collaborators. KiltHub collects, preserves, and provides stable, long-term global open access to a wide range of research data and scholarly outputs created by faculty, staff, and student members of Carnegie Mellon University in the course of their research and teaching.

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+ What Kinds of Materials does KiltHub Accept?

+ What Are The Requirements For Depositing Materials in KiltHub?



Carnegie Mellon University

MIGRATION

Why Migrate?



Why Migrate?



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SPREADSHEETS ARE COMING

Bepress Spreadsheets

Batch Revise Files

Record Metadata

Server Location URL

Public URLs

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Public URL

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Download/Views (All Time)

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Collections to Groups

Department/Content	Research Showcase Series	Figshare Group	# of Records	Count
Engineering and Public Policy	epp	epp	168	
Architecture	architecture	soa	115	
Biological Sciences	biology	bio	539	
Biomedical Engineering	bme	bme	150	
Civil & Environmental Engineering	cee	cee	99	
Chemical Engineering	cheme	cheme	366	
Chemistry	chemistry	chem	6	
CyLab	cylab	cylab	140	
Electrical & Computer Engineering	ece	ece	455	
Dissertations	dissertations		1134	
Theses	theses		126	
Dietrich Honors Theses	hsshonors		267	
ETC Press	etcpres		81	
ICUDL Conference	icudl		17	
Society for Economic Management	sem_conf		254	
Journal of Privacy and Confidentiality	jpc		97	
JPC Forthcoming	jpc_forthcoming		5	
No KH group				
Not publication series				
Problematic Metadata				

Schemas/Collections to Content Types

Research Showcase

Publications (Green OA)

ETDs

Journals

Events

Books

KiltHub/Figshare

Publication

Presentation

Thesis

Book

Metadata Mapping

Research Showcase			Kilthub
<u>field name</u>	<u>display label</u>	<u>dc element</u>	<u>display label</u>
title	Title	dc.title	Title
authors	Authors	dc.creator	Authors
bp_categories	Disciplines	dc.subject	Categories
document_type	Type	dc.type	Item Type
keywords	Keywords	dc.subject	Keywords
abstract	Abstract or Description	dc.description.abstract	Description
			References
			Funding
distribution_license	Creative Commons		Licence
rights	Rights Management	dc.rights	Publisher Statement
publication_date	Date of Original Version	dc.date.created	Date
			Apply Embargo

Metadata Mapping

Research Showcase			Kilthub
field_name	display_label	dc_element	display label
title	Title	dc.title	Title
authors	Author	dc.creator	Authors
bp_categories	Subject Categories	dc.subject	Categories
			Item Type
keywords	Keywords	dc.subject	Keywords
abstract	Abstract	dc.description.abstract	Description
			References
			Funding
distribution_license	Creative Commons License		Licence
			Publisher Statement
publication_date	Date of Award	dc.date.created	Date
embargo_date	Embargo Period		Apply Embargo
document_type	Degree Type	thesis.degree.level	
degree_name	Degree Name	thesis.degree.name	
department	Department	thesis.degree.discipline	
comments	Comments	dc.description.note	
advisor1	Advisor(s)	dc.contributor	
advisor2	Second Advisor	dc.contributor	
advisor3	Third Advisor	dc.contributor	
advisor4	Fourth Advisor	dc.contributor	
advisor5	Fifth Advisor	dc.contributor	
attach_additional_files	Additional Files		
recommended_citation	Recommended Citation	dc.source	

Migration Spreadsheets Step 1

Item level
Metadata
And Content



Item level
Downloads/View



GeoStats



Migration Spreadsheets Step 2

Metadata, Views,
Downloads, and
Content



GeoStats



URLS to DOIs

Record Title	Server Location	Public URL	Figshare DOI
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Figshare Spreadsheets

Metadata, Views, Downloads, AND
DOIs



Timeframe of Repository Migration

December 2017 – First meetings with Figshare to scope migration and processes

January - February 2018 – Prepared Research Showcase for migration

February - March 2018 – Confirmed workflows and procedures for verification with Figshare

March - May 2018 – Migration of repository content to KiltHub

May - June 2018 - Content verification and confirmation

July 01, 2018 - Research Showcase officially shuttered

July - August, 2018 - Redirect is established for former links from Research Showcase to KiltHub DOIs

Repository Migration

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1,142,787 views | 7,041,117 downloads | more stats...

Migrated 33,000 plus records between January - May 2018



Carnegie Mellon University

BEYOND MIGRATION

Should it all be Migrated?

JPC Privacy Confidentiality

Volume 1-7

Published on Research Showcase

Volume 8 - Forward

Published by the Labor Dynamics Institute at Cornell University

Link Resolving

<http://repository.cmu.edu>



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 Search

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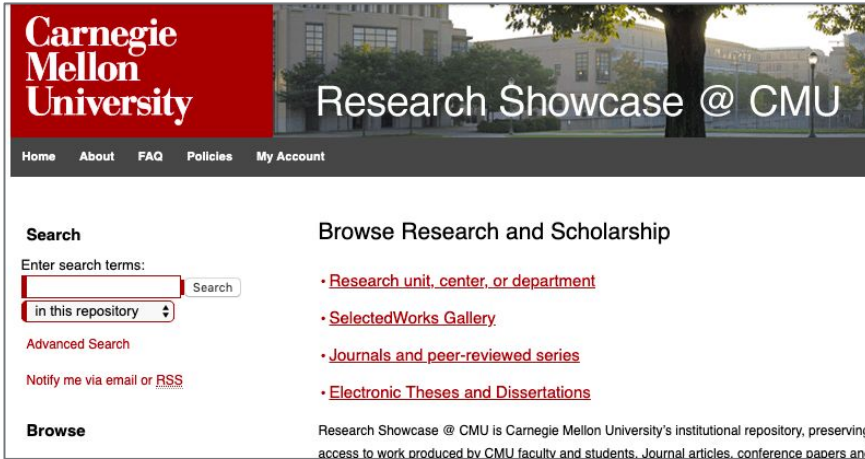
Research Showcase @ CMU is Carnegie Mellon University's institutional repository, preserving access to work produced by CMU faculty and students. Journal articles, conference papers and

<https://kilthub.cmu.edu>



Link Resolving

<http://repository.cmu.edu/psychology/1389>



The screenshot shows the homepage of the Carnegie Mellon University Research Showcase. The header features the university's name and a navigation menu with links for Home, About, FAQ, Policies, and My Account. A search bar is prominently displayed, with a dropdown menu set to 'in this repository'. Below the search bar, there are links for 'Advanced Search' and 'Notify me via email or RSS'. The main content area is titled 'Browse Research and Scholarship' and lists several categories: 'Research unit, center, or department', 'SelectedWorks Gallery', 'Journals and peer-reviewed series', and 'Electronic Theses and Dissertations'. At the bottom, a brief description states that the showcase is an institutional repository preserving access to work produced by CMU faculty and students.

<https://doi.org/10.1184/R1/6613094.v1>

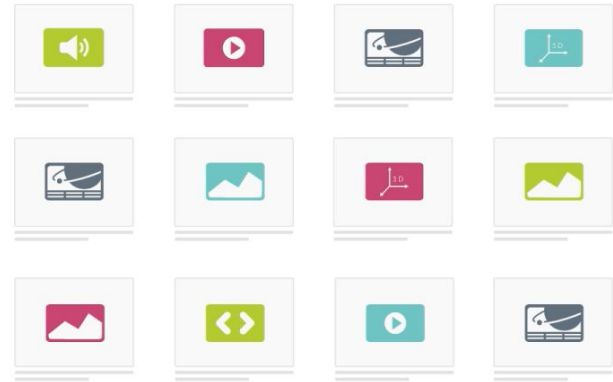


Migration Effects on the Repository

<https://doi.org/10.1184/R1/8256968.v1>

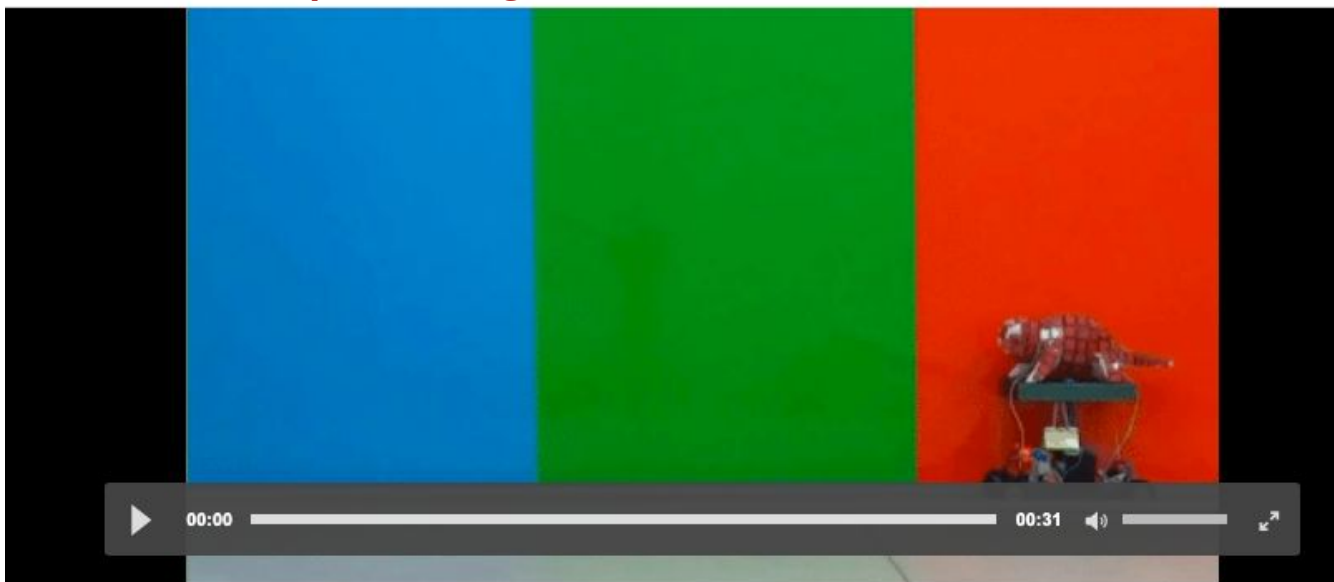


Migration Effects on Users



Migration Effects on Users

<https://doi.org/10.1021/acsnano.5b07472.s001>



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Migration Effects on Authors


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 [0000-0002-6244-4331](#) 

 Scholarly Communications and Research Curation
Consultant (Library and Information Studies)

 Pittsburgh, PA USA






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Product at Figshare
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-  **Megan Hardeman**
Head of Engagement at Figshare
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-  **Ana Van Gulick**
Research Liaison for Psychology and Brain Sci...
Carnegie Mellon University, Pittsburgh, PA

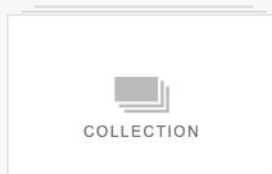
David Scherer is the Scholarly Communications and Research Curation Consultant with the University Libraries at Carnegie Mellon University. David earned his MSLIS and MA in History from Simmons College.

Migration Effects on Authors

Dave Scherer's public data



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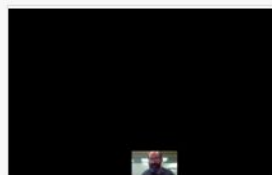
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Migration Effects on Authors

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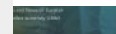
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19
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In the top 25% of all research outputs scored by Altmetric



Science at implementing fi...
21/04/2017

Migration Effects on Authors

From: ScholarWorks@GVSU, Digital Commons, ValpoScholar, Journal of Librarianship and Scholarly Communication, TigerPrints, New Prairie Press, Purdue e-Pubs, and Opus: Research & Creativity at IPFW

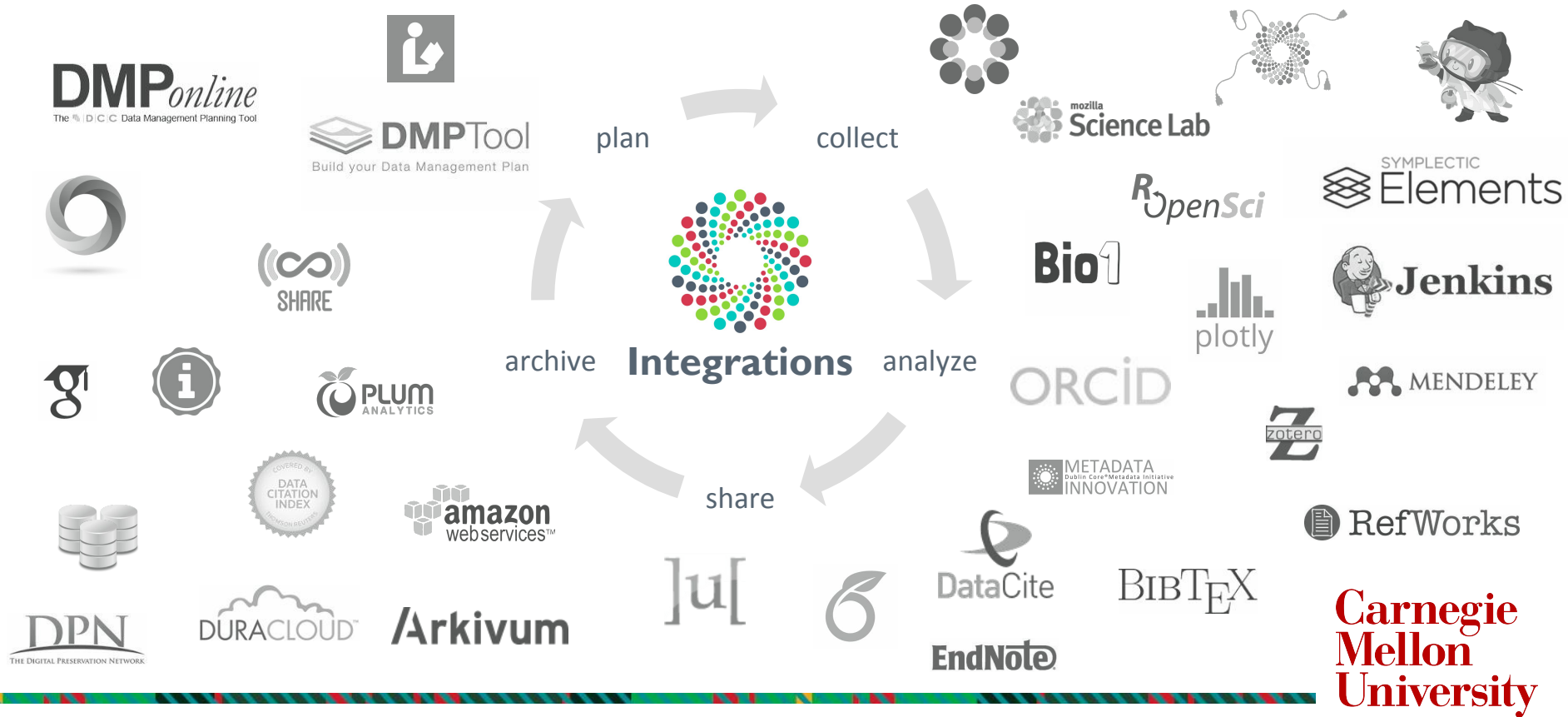
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2218 Total Downloads



Integrated in the landscape



THE SCE at CMU



CMU's Integrated Repository

Metadata Harvesting & Content Matching



Monitoring OA Status
and Engagement



Elements

Content Verification, Submission, and Deposit



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Final Thoughts

Final Thoughts

Should it all be migrated?

Content, Metadata, AND USAGE

Greater Good vs. Loss of Functions/Services

The Next Migration is ALWAYS Coming

Thank You

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KiltHub Repository

<https://kilthub.cmu.edu>

KiltHub About Pages

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